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CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J344**

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** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax:(310) 618-0818

Date: 11-26-2007
EMAX Batch No.: 07J344

Attn: Michael Wilson

Tetra Tech, Inc.
348 W Hospitality Lane, Ste 100
San Bernardino CA 92408

Subject: Laboratory Report
Project: LMC Beaumont Site 2

Enclosed is the Laboratory report for samples received on 10/26/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
LTB-102607	J344-01	10/26/07	WATER	VOLATILE ORGANICS BY GC/MS
LEB-102607	J344-02	10/26/07	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB1-15'	J344-03	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-15'DUP	J344-04	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-18'	J344-05	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-20'	J344-06	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM

Sample ID	Control #	Col Date	Matrix	Analysis
				MERCURY
				PERCHLORATE BY IC
SB1-35'	J344-07	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-40'	J344-08	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-45'	J344-09	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-50'	J344-10	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-50'DUP	J344-11	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB6-55'	J344-12	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-35'MS	J344-07M	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				PERCHLORATE BY IC
SB1-35'MSD	J344-07S	10/26/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB1-35'DUP	J344-07D	10/26/07	SOIL	PERCHLORATE BY IC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Acting Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

07J344

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: E Max
1835 W. 205 st
Torrance CA
90501
310-618-8889

DATE 10-26-07 PAGE 1 OF 2

CLIENT: ~~Lockheed~~ Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: P. Michalski
TC #: 19892-03
SAMPLERS (Signatures): Linda Margulis

TURN-AROUND TIME: 10 day Rush

OBSERVATIONS/COMMENTS: Please E-mail Prelims to David Bertolacci @ Tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	8260 VOC	314.0 Perchlorate	VOCs & oxygenate (SW8260B)	Perchlorate (314.0)	Cam 17 Metals (6000/7000 Series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	LTB-102607	10-26-07	700			X			Un	W	G	2	HCl	
2.	LEB-102607		845			X	X	X	Un	W	G/P	5	see bottle	
3.	SB1-15'		905			X	X	X	N/A	S	G	4		
4.	SB1-15' Dup		910			X	X	X						
5.	SB1-18'		912			X	X	X						
6.	SB1-20'		915			X	X	X						
7.	SB1-35'		1010			X	X	X				12		Includes MS/MSD
8.	SB1-40'		1025			X	X	X				4		
9.	SB1-45'		1040			X	X	X						
10.	SB1-50'		1045			X	X	X						

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME
L Margullis	Linda Margulis	TETRA TECH, INC.	10-26-07	1445
RECEIVED BY: Golden Eckford	Golden Eckford	Topline / EMax	10/26/07	15:05
RELINQUISHED BY: Golden Eckford	Golden Eckford	Top Line	10/26/07	1730
RECEIVED BY: INDRA PATEL	[illegible]	EMax	10/26/07	1730

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 47

METHOD OF SHIPMENT/SHIPMENT NO.: Courier

Special Shipping/Handling/Storage Requirements: T=4.8°C

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GISATT-MISC\COCR.CDR

1002

07 J 344

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: Emax Labs
1835 W. 20th St.
Torrance CA
90501
310-618-8889

DATE 10-26-07 PAGE 2 OF 2

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: D. Bertolacci
TC #: 19892-03
SAMPLERS (Signatures): L Margulis

TURN-AROUND TIME: 10 Day Rush

OBSERVATIONS/COMMENTS: Please E-mail Prelims to David. Bertolacci @ Tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs + oxygens (SW8260B)	Perchlorate (3140)	CAM 17 metals (6000/7000 series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
11.	SB1-50' Dup	10-26-07	1050	X	X	X	N/A	S	G	4	See Bottle
12.	SB6-55'	10-26-07	1252	X	X	X	N/A	S	G	4	See Bottle
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											

10-26-07
L Margulis

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
L Margullis	Linda Margulis	TETRA TECH, INC.	10-26-07	1445	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 8
RECEIVED BY: Bolden Eckford	SIGNATURE: Bolden Eckford	COMPANY: Top Line / EMAX	DATE: 10/26/07	TIME: 1500	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: Bolden Eckford	SIGNATURE: Bolden Eckford	COMPANY: Top Line	DATE: 10/26/07	TIME: 1730	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: INDRA PATEL	SIGNATURE: [illegible]	COMPANY: EMAX	DATE: 10/26/07	TIME: 1730	T=4.8°C

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

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EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 07J344
☐ EMAX Courier		Recepient I PATEL
☐ Client Delivery		Date 10-26-07
☑ Third Party Top Line Courier		Time 1730

COC Inspection

☑ Client Name ☑ Client PM/FC ☑ Sampler Name ☑ Sampling Date/Time/Location ☑ Sample ID ☑ Matrix
☑ Address ☑ Tel # / Fax # ☑ Courier Signature ☑ Analysis Required ☑ Preservative (if any) ☑ PAT

Safety Issues
☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures	☑ Cooler 1 4.8 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling _____ Date 10-26-07

SRF _____ Date 10/26/07

PM Twondirb for ½ Date 10/30/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	_____
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1	_____		
C3	Leaking container	H2	_____		
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07J344

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J344

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Two (2) water samples were received on 10/26/07 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. Holding Time

Analytical holding time was met.

2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

Recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J344
Instrument ID : T-006

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V006K18Q	1	NA	11/07/0702:29	11/07/0702:29	RKW195	RIW506	V006K18	Method Blank
LCS1W	V006K18L	1	NA	11/07/0700:33	11/07/0700:33	RKW192	RIW506	V006K18	Lab Control Sample (LCS)
LCD1W	V006K18C	1	NA	11/07/0701:12	11/07/0701:12	RKW193	RIW506	V006K18	LCS Duplicate
LTB-102607	J344-01	1	NA	11/07/0703:07	11/07/0703:07	RKW196	RIW506	V006K18	Field Sample
LEB-102607	J344-02	1	NA	11/07/0703:47	11/07/0703:47	RKW197	RIW506	V006K18	Field Sample

FN - Filename
% Moist - Percent Moisture

2002

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/07/07 03:07
Sample ID:	LTB-102607	Date Analyzed:	11/07/07 03:07
Lab Samp ID:	J344-01	Dilution Factor:	1
Lab File ID:	RKW196	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	81	70-140
4-BROMOFLUOROBENZENE	101	70-130
TOLUENE-D8	98	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/07/07 03:47
Sample ID:	LEB-102607	Date Analyzed:	11/07/07 03:47
Lab Samp ID:	J344-02	Dilution Factor:	1
Lab File ID:	RKW197	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	81	70-140
4-BROMOFLUOROBENZENE	97	70-130
TOLUENE-D8	100	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/07/07
Batch No.	: 07J344	Date Extracted:	11/07/07 02:29
Sample ID:	MBLK1W	Date Analyzed:	11/07/07 02:29
Lab Samp ID:	V006K18Q	Dilution Factor:	1
Lab File ID:	RKW195	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	86	70-140
4-BROMOFLUOROBENZENE	96	70-130
TOLUENE-D8	96	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V006K18Q	V006K18L	V006K18C		
LAB FILE ID:	RKW195	RKW192	RKW193		
DATE EXTRACTED:	11/07/0702:29	11/07/0700:33	11/07/0701:12	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0702:29	11/07/0700:33	11/07/0701:12	DATE RECEIVED:	11/07/07
PREP. BATCH:	V006K18	V006K18	V006K18		
CALIB. REF:	RIW506	RIW506	RIW506		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	8.07	81	10.0	7.77	78	4	60-130	30
Benzene	ND	10.0	10.3	103	10.0	9.75	98	5	70-130	30
Chlorobenzene	ND	10.0	10.8	108	10.0	10.4	104	4	70-120	30
Toluene	ND	10.0	10.3	103	10.0	9.76	98	5	70-130	30
Trichloroethene	ND	10.0	10.5	105	10.0	9.76	98	8	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	7.98	80	10.0	7.64	76	70-140
4-Bromofluorobenzene	10.0	9.31	93	10.0	9.15	91	70-130
Toluene-d8	10.0	9.98	100	10.0	10.1	101	70-130

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RIW500
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J344
BFB Injection Date : 09/25/07
BFB Injection Time : 17:52
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.89
75	30.0 - 60.0% of mass 95	58.57
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.70
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	79.27
175	5.0 - 9.0% of mass 174	4.91(6.2)1
176	95.0 - 101.0% of mass 174	75.35(95.1)1
177	5.0 - 9.0% of mass 176	5.91(7.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V006I261	RIW501	09/25/07	18:30
2	VSTD0.5	V006I262	RIW502	09/25/07	19:08
3	VSTD01	V006I263	RIW503	09/25/07	19:46
4	VSTD02	V006I264	RIW504	09/25/07	20:24
5	VSTD05	V006I265	RIW505	09/25/07	21:02
6	VSTD010	V006I266	RIW506	09/25/07	21:39
7	VSTD020	V006I267	RIW507	09/25/07	22:17
8	VSTD030	V006I268	RIW508	09/25/07	22:57
9	VSTD040	V006I269	RIW509	09/25/07	23:34
10	VSTD050	V006I2610	RIW510	09/26/07	00:13
11	VSTD010	IV006I261	RIW513	09/26/07	02:08

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T006
Beginning DateTime :09/25/07 18:30
Spike Units :PPB
IC File :RIW506

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :09/26/07 00:13
HPChem Method :V006I26

M	IDX	Parameters	.3 18:30 RIW501	.5 19:08 RIW502	1 19:46 RIW503	2 20:24 RIW504	5 21:02 RIW505	10 21:39 RIW506	20 22:17 RIW507	30 22:57 RIW508	40 23:34 RIW509	50 00:13 RIW510	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	11.1969
	2	Dichlorodifluoromethane	0.225	0.266	0.319	0.291	0.280	0.279	0.289	0.283	0.284	0.262	0.278	8.71	3.5084
	3	Chloromethane	0.428	0.350	0.382	0.361	0.348	0.344	0.361	0.370	0.382	0.354	0.368	6.75	3.9417
	4	Vinyl chloride	0.268	0.275	0.334	0.315	0.311	0.305	0.299	0.283	0.280	0.250	0.292	8.63	4.1646
	5	Bromomethane	------	0.229	0.242	0.205	0.196	0.205	0.216	0.221	0.229	0.214	0.217	6.61	4.9656
	6	Chloroethane	0.176	0.169	0.199	0.201	0.194	0.200	0.198	0.199	0.200	0.186	0.192	5.92	5.0994
	7	Dichlorofluoromethane	0.807	0.796	0.828	0.807	0.791	0.766	0.759	0.762	0.770	0.687	0.777	5.04	5.1529
	8	Trichlorofluoromethane	0.426	0.478	0.571	0.535	0.508	0.493	0.521	0.514	0.520	0.476	0.504	7.74	5.5437
2	9	Acrolein	------	------	0.023	0.018	0.020	0.023	0.024	0.026	0.025	0.023	0.023	11.68	6.1919
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.216	0.244	0.270	0.253	0.262	0.257	0.265	0.276	0.278	0.251	0.257	7.06	6.2343
2	11	Acetone	------	------	0.109	0.084	0.076	0.074	0.069	0.072	0.066	0.062	0.077	19.38	6.2822
	12	1,1-Dichloroethene	0.725	0.711	0.767	0.720	0.715	0.698	0.700	0.723	0.711	0.630	0.710	4.79	6.5269
5	13	tert-Butyl alcohol	------	0.019	0.019	0.019	0.020	0.021	0.021	0.022	0.021	0.019	0.020	4.59	6.5783
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	0.314	0.255	0.339	0.371	0.391	0.402	0.409	0.411	0.401	0.348	0.364	13.92	7.0319
	17	Methylene chloride	------	1.766	1.163	0.851	0.691	0.598	0.538	0.557	0.551	0.501	0.802	52.15	7.2325
	18	Carbon disulfide	1.197	1.234	1.316	1.205	1.262	1.224	1.246	1.279	1.284	1.142	1.239	4.07	7.3532
3	19	Acrylonitrile	------	------	0.052	0.049	0.055	0.058	0.059	0.062	0.060	0.055	0.056	7.62	7.3781
	20	tert-Butyl methyl ether (MTBE)	0.581	0.596	0.609	0.576	0.624	0.596	0.602	0.618	0.602	0.551	0.595	3.59	7.4345
	21	trans-1,2-Dichloroethene	0.629	0.625	0.682	0.650	0.669	0.637	0.653	0.661	0.657	0.592	0.645	3.99	7.6853
	22	Isopropyl ether (DIPE)	1.313	1.371	1.400	1.328	1.399	1.352	1.371	1.406	1.388	1.257	1.359	3.49	8.0637
	23	Vinyl acetate	0.495	0.467	0.453	0.446	0.503	0.485	0.549	0.573	0.557	0.522	0.505	8.78	8.2159
	24	1,1-Dichloroethane	0.711	0.706	0.827	0.763	0.788	0.733	0.758	0.763	0.775	0.694	0.752	5.48	8.2902
	25	tert-Butyl ethyl ether (ETBE)	0.908	0.900	0.981	0.907	0.973	0.918	0.927	0.921	0.914	0.832	0.918	4.47	8.6435
2	26	2-Butanone	0.107	0.093	0.087	0.092	0.081	0.091	0.090	0.094	0.089	0.086	0.091	7.30	8.8394
	27	2,2-Dichloropropane	0.628	0.563	0.583	0.575	0.566	0.521	0.515	0.512	0.494	0.432	0.539	10.25	9.1121
	28	cis-1,2-Dichloroethene	0.641	0.694	0.715	0.700	0.696	0.661	0.661	0.676	0.670	0.599	0.671	5.04	9.1745
	29	Chloroform	0.658	0.661	0.730	0.709	0.713	0.679	0.677	0.684	0.687	0.618	0.682	4.68	9.4241
	30	Bromochloromethane	0.274	0.302	0.333	0.289	0.323	0.300	0.307	0.319	0.316	0.291	0.305	5.83	9.7003
	31	1,1,1-Trichloroethane	0.557	0.565	0.631	0.622	0.640	0.597	0.602	0.617	0.623	0.557	0.601	5.21	10.0884
	32	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	tert-Amyl methyl ether (TAME)	0.566	0.817	0.794	0.721	0.659	0.628	0.649	0.640	0.647	0.590	0.671	12.20	10.4496
	34	1,2-Dichloroethane-d4	------	------	0.352	0.337	0.358	0.335	0.357	0.347	------	------	0.348	2.84	10.5840
	35	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	17.4192
	36	1,1-Dichloropropene	0.207	0.198	0.217	0.215	0.211	0.197	0.200	0.207	0.208	0.190	0.205	4.23	10.3405
	37	Carbon tetrachloride	0.517	0.550	0.575	0.574	0.556	0.535	0.538	0.548	0.546	0.504	0.544	4.09	10.5505
	38	1,2-Dichloroethane	0.477	0.496	0.536	0.503	0.537	0.510	0.499	0.504	0.496	0.458	0.502	4.73	10.7490
	39	Benzene	1.545	1.491	1.579	1.556	1.535	1.470	1.489	1.530	1.518	1.375	1.509	3.82	10.8310
	40	Trichloroethene	0.398	0.394	0.454	0.448	0.434	0.418	0.424	0.441	0.440	0.401	0.425	5.10	11.8803
	41	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	42	1,2-Dichloropropane	0.364	0.405	0.416	0.395	0.397	0.384	0.388	0.394	0.387	0.359	0.389	4.42	12.1811
	43	Bromodichloromethane	0.469	0.468	0.496	0.467	0.498	0.487	0.499	0.504	0.498	0.468	0.485	3.22	12.6302
	44	Dibromomethane	0.133	0.170	0.166	0.149	0.171	0.161	0.159	0.162	0.158	0.148	0.158	7.37	12.7631
	45	2-Chloroethyl vinyl ether	------	------	0.035	0.042	0.049	0.054	0.059	0.060	0.060	0.056	0.052	17.83	13.0515
2	46	4-Methyl-2-pentanone	------	------	0.305	0.253	0.240	0.262	0.253	0.259	0.249	0.238	0.257	8.12	13.1165

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	47	cis-1,3-Dichloropropene	0.390	0.423	0.481	0.481	0.507	0.482	0.488	0.499	0.493	0.467	0.471	7.75	13.6135
	48	Toluene-d8	------	------	1.303	1.303	1.235	1.184	1.280	1.225	------	------	1.255	3.84	14.1585
	49	Toluene	1.558	1.569	1.612	1.604	1.560	1.458	1.459	1.476	1.477	1.335	1.511	5.65	14.3238
	50	Ethyl methacrylate	0.246	0.226	0.262	0.243	0.276	0.281	0.288	0.305	0.299	0.288	0.272	9.67	14.4684
	51	trans-1,3-Dichloropropene	0.288	0.289	0.356	0.327	0.365	0.367	0.387	0.390	0.392	0.372	0.353	11.08	14.5927
2	52	2-Hexanone	------	------	0.110	0.115	0.125	0.141	0.143	0.148	0.145	0.142	0.134	11.03	14.8759
	53	1,1,2-Trichloroethane	0.211	0.197	0.199	0.205	0.211	0.205	0.202	0.212	0.210	0.196	0.205	2.94	14.9571
	54	1,3-Dichloropropane	0.366	0.374	0.391	0.379	0.402	0.392	0.385	0.385	0.384	0.359	0.382	3.35	15.4810
	55	Tetrachloroethene	0.326	0.334	0.362	0.379	0.378	0.355	0.360	0.368	0.370	0.334	0.357	5.33	15.7187
	56	Dibromochloromethane	0.188	0.211	0.221	0.227	0.265	0.274	0.277	0.283	0.282	0.276	0.250	14.02	16.1447
	57	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	58	1,2-Dibromoethane	0.163	0.171	0.178	0.164	0.163	0.147	0.145	0.138	0.138	0.129	0.154	10.56	16.6000
	59	1-Chlorohexane	0.575	0.544	0.562	0.579	0.609	0.570	0.585	0.584	0.603	0.551	0.576	3.58	16.7977
	60	Chlorobenzene	0.833	0.904	0.991	0.959	0.964	0.930	0.939	0.954	0.943	0.868	0.929	5.13	17.5109
	61	1,1,1,2-Tetrachloroethane	0.276	0.302	0.330	0.307	0.337	0.320	0.334	0.332	0.334	0.311	0.318	6.10	17.5658
	62	Ethylbenzene	1.682	1.724	1.854	1.805	1.809	1.702	1.731	1.719	1.712	1.534	1.727	5.07	17.5754
2	63	m-Xylene & p-Xylene	1.380	1.322	1.442	1.393	1.404	1.309	1.305	1.307	1.262	1.100	1.322	7.26	17.7428
	64	o-Xylene	1.387	1.379	1.407	1.398	1.424	1.357	1.366	1.384	1.361	1.236	1.370	3.76	18.7607
	65	Styrene	0.783	0.801	0.902	0.922	0.972	0.941	0.965	0.998	0.984	0.907	0.917	8.01	18.8302
	66	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	23.9581
	67	Isopropylbenzene	4.208	4.170	4.458	4.515	4.337	4.028	4.011	4.147	4.158	3.706	4.174	5.60	19.5603
	68	Bromoform	------	0.246	0.280	0.240	0.314	0.324	0.332	0.355	0.359	0.342	0.310	14.44	19.6899
	69	1,1,2,2-Tetrachloroethane	0.546	0.571	0.569	0.560	0.581	0.561	0.575	0.605	0.613	0.572	0.575	3.53	19.9393
	70	4-Bromofluorobenzene	1.381	1.268	1.277	1.268	1.191	1.105	1.223	1.210	------	------	1.240	6.43	20.1854
	71	1,2,3-Trichloropropane	------	------	0.102	0.126	0.131	0.113	0.113	0.115	0.117	0.110	0.116	7.79	20.2939
	72	trans-1,4-Dichloro-2-butene	------	------	0.097	0.098	0.093	0.097	0.118	0.118	0.132	0.124	0.110	13.91	20.4140
	73	n-Propylbenzene	5.006	5.190	5.381	5.442	5.420	5.108	5.085	5.262	5.190	4.639	5.172	4.60	20.5088
	74	Bromobenzene	0.913	0.902	0.929	0.968	0.962	0.896	0.914	0.953	0.962	0.886	0.928	3.30	20.7007
	75	1,3,5-Trimethylbenzene	3.381	3.261	3.588	3.524	3.568	3.335	3.387	3.520	3.463	3.092	3.412	4.53	20.8681
	76	2-Chlorotoluene	3.153	3.345	2.956	3.199	3.042	2.844	2.850	2.978	2.959	2.620	2.994	6.85	20.9858
	77	4-Chlorotoluene	2.782	2.807	3.141	3.144	3.046	2.913	2.871	3.027	3.043	2.769	2.954	4.88	21.0794
	78	tert-Butylbenzene	3.050	3.027	3.181	3.247	3.263	3.037	3.065	3.146	3.123	2.776	3.091	4.50	21.7289
	79	1,2,4-Trimethylbenzene	3.103	3.118	3.282	3.368	3.384	3.221	3.264	3.372	3.361	3.015	3.249	4.05	21.8288
	80	sec-Butylbenzene	4.342	4.154	4.473	4.596	4.681	4.394	4.471	4.557	4.494	4.013	4.418	4.60	22.2425
	81	p-Isopropyltoluene	2.895	3.028	3.035	3.323	3.559	3.444	3.518	3.651	3.590	3.225	3.327	8.08	22.5522
	82	1,3-Dichlorobenzene	1.511	1.571	1.673	1.763	1.801	1.735	1.755	1.825	1.831	1.663	1.713	6.28	22.8664
	83	1,4-Dichlorobenzene	1.560	1.597	1.691	1.733	1.755	1.651	1.704	1.758	1.754	1.641	1.684	4.16	23.1140
	84	n-Butylbenzene	2.225	2.471	2.655	2.678	3.146	3.124	3.259	3.364	3.352	3.045	2.932	13.54	23.5448
	85	1,2-Dichlorobenzene	1.342	1.429	1.416	1.491	1.496	1.455	1.481	1.545	1.533	1.404	1.459	4.29	24.0297
	86	1,2-Dibromo-3-chloropropane	------	------	------	0.053	0.063	0.074	0.073	0.076	0.081	0.081	0.071	14.43	25.9068
	87	1,2,4-Trichlorobenzene	------	0.471	0.544	0.601	0.739	0.801	0.851	0.902	0.919	0.853	0.742	22.17	28.0696
	88	Hexachlorobutadiene	------	0.526	0.519	0.572	0.672	0.679	0.653	0.680	0.673	0.618	0.621	10.67	28.3746
	89	Naphthalene	------	0.653	0.571	0.563	0.770	0.900	0.988	1.131	1.153	1.097	0.870	27.44	28.7411
	90	1,2,3-Trichlorobenzene	------	0.453	0.435	0.476	0.589	0.636	0.669	0.708	0.704	0.659	0.592	18.45	29.3279

Spike Amount = Nominal Amount * M

Ave_%RSD : 8.1 Max_%RSD : 52.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15

Resp_Ratio = xo + x1 * Amt_Ratio

DX	Parameter	x0	x1	CCF
11	Acetone	0.00941	0.06518	0.9980
17	Methylene chloride	0.06537	0.51642	0.9989
45	2-Chloroethyl vinyl ether	-0.00296	0.05909	0.9992
87	1,2,4-Trichlorobenzene	-0.03239	0.88376	0.9988
89	Naphthalene	-0.05271	1.09962	0.9964
90	1,2,3-Trichlorobenzene	-0.02122	0.68477	0.9989

2012

cr 9/20/12

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D Vial: 14
Acq On : 26 Sep 2007 2:08 am Operator: CGM
Sample : IVO06I261 10PPB Inst : TO06
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	10.000	9.453	5.5	93	0.00
3	P,T	Chloromethane	10.000	9.131	8.7	97	0.00
4	C,T	Vinyl chloride	10.000	9.916	0.8	94	0.00
5	T	Bromomethane	10.000	10.648	-6.5	112	0.00
6	T	Chloroethane	10.000	9.760	2.4	93	0.00
7	T	Dichlorofluoromethane	10.000	9.660	3.4	97	0.00
8	T	Trichlorofluoromethane	10.000	9.723	2.8	99	0.00
9	T	Acrolein	20.000	20.627	-3.1	98	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.997	0.0	99	0.00
11	T	Acetone	20.000	20.138	-0.7	94	0.00
12	CMT	1,1-Dichloroethene	10.000	9.898	1.0	100	0.00
13	T	tert-Butyl alcohol	50.000	49.426	1.1	95	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	9.081	9.2	82	0.00
17	T	Methylene chloride	10.000	9.282	7.2	90	0.00
18	T	Carbon disulfide	10.000	10.486	-4.9	105	0.00
19	T	Acrylonitrile	30.000	31.743	-5.8	101	0.00
20	T	tert-Butyl methyl ether (MT	10.000	10.127	-1.3	100	0.00
21	T	trans-1,2-Dichloroethene	10.000	9.960	0.4	100	0.00
22	T	Isopropyl ether (DIPE)	10.000	10.056	-0.6	100	0.00
23	T	Vinyl acetate	10.000	10.497	-5.0	108	0.00
24	P,T	1,1-Dichloroethane	10.000	10.053	-0.5	102	0.00
25	T	tert-Butyl ethyl ether (ETB	10.000	10.073	-0.7	100	0.00
26	T	2-Butanone	20.000	20.400	-2.0	101	0.00
27	T	2,2-Dichloropropane	10.000	8.981	10.2	92	0.00
28	T	cis-1,2-Dichloroethene	10.000	9.782	2.2	98	0.00
29	C,T	Chloroform	10.000	9.777	2.2	97	0.00
30	T	Bromochloromethane	10.000	9.952	0.5	100	0.00
31	T	1,1,1-Trichloroethane	10.000	9.843	1.6	98	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	9.516	4.8	101	0.00
34	S	1,2-Dichloroethane-d4	10.000	9.682	3.2	100	0.00
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	99	0.00
36	T	1,1-Dichloropropene	10.000	9.584	4.2	99	0.00
37	T	Carbon tetrachloride	10.000	9.793	2.1	98	0.00
38	T	1,2-Dichloroethane	10.000	9.822	1.8	95	0.00
39	TM	Benzene	10.000	9.948	0.5	101	0.00
40	TM	Trichloroethene	10.000	10.094	-0.9	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D Vial: 14
Acq On : 26 Sep 2007 2:08 am Operator: CGM
Sample : IVO06I261 10PPB Inst : TO06
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.013	-0.1	100	0.00
43	T	Bromodichloromethane	10.000	9.996	0.0	98	0.00
44	T	Dibromomethane	10.000	9.970	0.3	97	0.00
45	T	2-Chloroethyl vinyl ether	10.000	9.666	3.3	98	0.01
46	T	4-Methyl-2-pentanone	20.000	20.281	-1.4	98	0.00
47	T	cis-1,3-Dichloropropene	10.000	9.835	1.6	95	0.00
48	S	Toluene-d8	10.000	9.802	2.0	103	0.00
49	CMT	Toluene	10.000	9.945	0.5	102	0.00
50	T	Ethyl methacrylate	10.000	10.748	-7.5	102	0.00
51	T	trans-1,3-Dichloropropene	10.000	9.759	2.4	93	0.00
52	T	2-Hexanone	20.000	20.995	-5.0	98	0.00
53	T	1,1,2-Trichloroethane	10.000	10.052	-0.5	99	0.00
54	T	1,3-Dichloropropane	10.000	9.998	0.0	96	0.00
55	T	Tetrachloroethene	10.000	9.988	0.1	99	0.00
56	T	Dibromochloromethane	10.000	10.715	-7.1	96	0.00
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	9.380	6.2	97	0.00
59	T	1-Chlorohexane	10.000	9.776	2.2	98	0.00
60	PM	Chlorobenzene	10.000	10.257	-2.6	101	0.00
61	T	1,1,1,2-Tetrachloroethane	10.000	10.250	-2.5	101	0.00
62	C,T	Ethylbenzene	10.000	10.205	-2.1	102	0.00
63	T	m-Xylene & p-Xylene	20.000	20.342	-1.7	101	0.00
64	T	o-Xylene	10.000	10.010	-0.1	100	0.00
65	T	Styrene	10.000	10.524	-5.2	101	0.00
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	96	0.00
67	T	Isopropylbenzene	10.000	9.994	0.1	99	0.00
68	P,T	Bromoform	10.000	10.225	-2.2	94	0.00
69	P,T	1,1,2,2-Tetrachloroethane	10.000	10.207	-2.1	100	0.00
70	S	4-Bromofluorobenzene	10.000	9.491	5.1	102	0.00
71	T	1,2,3-Trichloropropane	10.000	10.909	-9.1	107	0.00
72	T	trans-1,4-Dichloro-2-butene	10.000	8.840	11.6	96	0.00
73	T	n-Propylbenzene	10.000	10.246	-2.5	99	0.00
74	T	Bromobenzene	10.000	10.078	-0.8	100	0.00
75	T	1,3,5-Trimethylbenzene	10.000	10.101	-1.0	99	0.00
76	T	2-Chlorotoluene	10.000	9.642	3.6	97	0.00
77	T	4-Chlorotoluene	10.000	10.234	-2.3	100	0.01
78	T	tert-Butylbenzene	10.000	10.056	-0.6	98	0.00
79	T	1,2,4-Trimethylbenzene	10.000	10.224	-2.2	99	0.00
80	T	sec-Butylbenzene	10.000	10.217	-2.2	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D
Acq On : 26 Sep 2007 2:08 am
Sample : IVO06I261 10PPB
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA
MS Integration Params: 524INT.P

Vial: 14
Operator: CGM
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	10.386	-3.9	96	0.00
82	T	1,3-Dichlorobenzene	10.000	10.489	-4.9	99	0.00
83	T	1,4-Dichlorobenzene	10.000	10.317	-3.2	101	0.00
84	T	n-Butylbenzene	10.000	10.737	-7.4	97	0.00
85	T	1,2-Dichlorobenzene	10.000	10.224	-2.2	98	0.00
86	T	1,2-Dibromo-3-chloropropane	10.000	9.951	0.5	92	0.00
87	T	1,2,4-Trichlorobenzene	10.000	9.727	2.7	99	0.00
88	T	Hexachlorobutadiene	10.000	11.164	-11.6	98	0.00
89	T	Naphthalene	10.000	9.013	9.9	100	0.00
90	T	1,2,3-Trichlorobenzene	10.000	9.930	0.7	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

cr 9/26/07

2016

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW189
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J344
BFB Injection Date : 11/06/07
BFB Injection Time : 22:37
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.32
75	30.0 - 60.0% of mass 95	45.06
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.88
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	82.16
175	5.0 - 9.0% of mass 174	5.89(7.2)1
176	95.0 - 101.0% of mass 174	80.74(98.3)1
177	5.0 - 9.0% of mass 176	5.39(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV006I26114	RKW190	11/06/07	23:15
2	MBLK1W	V006K18Q	RKW195	11/07/07	02:29
3	LCS1W	V006K18L	RKW192	11/07/07	00:33
4	LCD1W	V006K18C	RKW193	11/07/07	01:12
5	LTB-102607	J344-01	RKW196	11/07/07	03:07
6	LEB-102607	J344-02	RKW197	11/07/07	03:47

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RIW506
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J344
Date Analyzed: 09/25/07
Time Analyzed: 21:39
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2704069	11.21	2411758	17.42	970375	23.96
	UPPER LIMIT	5408138	11.71	4823516	17.92	1940750	24.46
	LOWER LIMIT	1352035	10.71	1205879	16.92	485188	23.46
	SAMPLE ID						
1	VSTD010	2388599	11.20	2153855	17.41	912618	23.95
2	MBLK1W	3103732	11.19	2822469	17.41	1061273	23.95
3	LCS1W	2642292	11.19	2352906	17.41	968072	23.95
4	LCD1W	2939503	11.19	2603306	17.41	1089125	23.95
5	LTB-102607	2904767	11.20	2574686	17.41	924421	23.95
6	LEB-102607	2855769	11.20	2504257	17.41	931376	23.95

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	10.000	12.204	-22.0#	108	0.00
3	P,T	Chloromethane	10.000	10.356	-3.6	98	0.00
4	C,T	Vinyl chloride	10.000	10.866	-8.7	92	0.00
5	T	Bromomethane	10.000	9.488	5.1	89	0.00
6	T	Chloroethane	10.000	9.705	2.9	82	-0.01
7	T	Dichlorofluoromethane	10.000	9.356	6.4	84	-0.01
8	T	Trichlorofluoromethane	10.000	9.600	4.0	87	0.00
9	T	Acrolein	20.000	12.112	39.4#	52	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.617	-6.2	94	0.00
11	T	Acetone	20.000	16.026	19.9	68	0.00
12	CMT	1,1-Dichloroethene	10.000	8.920	10.8	80	0.00
13	T	tert-Butyl alcohol	50.000	44.433	11.1	76	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	10.983	-9.8	88	0.00
17	T	Methylene chloride	10.000	8.463	15.4	74	0.00
18	T	Carbon disulfide	10.000	10.485	-4.8	94	0.00
19	T	Acrylonitrile	30.000	31.030	-3.4	88	0.00
20	T	tert-Butyl methyl ether (MT	10.000	10.356	-3.6	91	0.00
21	T	trans-1,2-Dichloroethene	10.000	9.571	4.3	86	0.00
22	T	Isopropyl ether (DIPE)	10.000	8.777	12.2	78	0.00
23	T	Vinyl acetate	10.000	8.419	15.8	77	0.00
24	P,T	1,1-Dichloroethane	10.000	9.948	0.5	90	0.00
25	T	tert-Butyl ethyl ether (ETB	10.000	9.943	0.6	88	0.00
26	T	2-Butanone	20.000	18.928	5.4	84	0.00
27	T	2,2-Dichloropropane	10.000	9.190	8.1	84	0.00
28	T	cis-1,2-Dichloroethene	10.000	9.471	5.3	85	0.00
29	C,T	Chloroform	10.000	10.375	-3.8	92	0.00
30	T	Bromochloromethane	10.000	9.236	7.6	83	0.00
31	T	1,1,1-Trichloroethane	10.000	9.918	0.8	88	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	11.818	-18.2	112	-0.02
34	S	1,2-Dichloroethane-d4	10.000	8.752	12.5	80	0.00
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	89	0.00
36	T	1,1-Dichloropropene	10.000	10.205	-2.1	95	0.00
37	T	Carbon tetrachloride	10.000	9.329	6.7	85	0.00
38	T	1,2-Dichloroethane	10.000	9.004	10.0	79	0.00
39	TM	Benzene	10.000	10.965	-9.6	100	0.00
40	TM	Trichloroethene	10.000	11.215	-12.1	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.469	-4.7	95	0.00
43	T	Bromodichloromethane	10.000	10.389	-3.9	92	0.00
44	T	Dibromomethane	10.000	11.188	-11.9	98	0.00
45	T	2-Chloroethyl vinyl ether	10.000	13.683	-36.8#	128	0.00
46	T	4-Methyl-2-pentanone	20.000	20.630	-3.1	91	0.00
47	T	cis-1,3-Dichloropropene	10.000	11.493	-14.9	100	0.00
48	S	Toluene-d8	10.000	10.012	-0.1	95	0.00
49	CMT	Toluene	10.000	10.945	-9.5	101	0.00
50	T	Ethyl methacrylate	10.000	11.341	-13.4	98	0.00
51	T	trans-1,3-Dichloropropene	10.000	11.089	-10.9	95	0.00
52	T	2-Hexanone	20.000	21.026	-5.1	89	0.00
53	T	1,1,2-Trichloroethane	10.000	11.806	-18.1	105	0.00
54	T	1,3-Dichloropropane	10.000	11.662	-16.6	101	0.00
55	T	Tetrachloroethene	10.000	11.155	-11.5	100	0.00
56	T	Dibromochloromethane	10.000	11.575	-15.7	94	0.00
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	12.817	-28.2#	119	0.00
59	T	1-Chlorohexane	10.000	11.407	-14.1	103	0.00
60	PM	Chlorobenzene	10.000	11.646	-16.5	104	0.00
61	T	1,1,1,2-Tetrachloroethane	10.000	11.185	-11.9	99	0.00
62	C,T	Ethylbenzene	10.000	11.047	-10.5	100	0.00
63	T	m-Xylene & p-Xylene	20.000	21.891	-9.5	99	0.00
64	T	o-Xylene	10.000	11.046	-10.5	100	0.00
65	T	Styrene	10.000	12.496	-25.0#	109	-0.01
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	94	0.00
67	T	Isopropylbenzene	10.000	10.678	-6.8	104	0.00
68	P,T	Bromoform	10.000	10.973	-9.7	99	0.00
69	P,T	1,1,2,2-Tetrachloroethane	10.000	11.509	-15.1	111	0.00
70	S	4-Bromofluorobenzene	10.000	9.103	9.0	96	-0.01
71	T	1,2,3-Trichloropropane	10.000	9.934	0.7	96	0.00
72	T	trans-1,4-Dichloro-2-butene	10.000	8.509	14.9	90	0.00
73	T	n-Propylbenzene	10.000	10.835	-8.4	103	-0.02
74	T	Bromobenzene	10.000	11.014	-10.1	107	-0.01
75	T	1,3,5-Trimethylbenzene	10.000	10.827	-8.3	104	-0.01
76	T	2-Chlorotoluene	10.000	10.572	-5.7	105	-0.02
77	T	4-Chlorotoluene	10.000	10.194	-1.9	97	0.00
78	T	tert-Butylbenzene	10.000	10.902	-9.0	104	0.00
79	T	1,2,4-Trimethylbenzene	10.000	10.957	-9.6	104	-0.01
80	T	sec-Butylbenzene	10.000	11.331	-13.3	107	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	11.767	-17.7	107	-0.01
82	T	1,3-Dichlorobenzene	10.000	11.532	-15.3	107	-0.01
83	T	1,4-Dichlorobenzene	10.000	11.343	-13.4	109	-0.01
84	T	n-Butylbenzene	10.000	11.672	-16.7	103	-0.01
85	T	1,2-Dichlorobenzene	10.000	11.491	-14.9	108	-0.01
86	T	1,2-Dibromo-3-chloropropane	10.000	11.985	-19.8	109	-0.01
87	T	1,2,4-Trichlorobenzene	10.000	10.446	-4.5	105	-0.01
88	T	Hexachlorobutadiene	10.000	10.897	-9.0	94	-0.01
89	T	Naphthalene	10.000	10.170	-1.7	111	-0.01
90	T	1,2,3-Trichlorobenzene	10.000	10.414	-4.1	102	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	0.278	0.339	-21.9#	108	0.00
3	P,T	Chloromethane	0.368	0.381	-3.5	98	0.00
4	C,T	Vinyl chloride	0.292	0.317	-8.6	92	0.00
5	T	Bromomethane	0.217	0.206	5.1	89	0.00
6	T	Chloroethane	0.192	0.186	3.1	82	-0.01
7	T	Dichlorofluoromethane	0.777	0.727	6.4	84	-0.01
8	T	Trichlorofluoromethane	0.504	0.484	4.0	87	0.00
9	T	Acrolein	0.023	0.014	39.1#	52	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.257	0.273	-6.2	94	0.00
11	T	Acetone	0.077	0.057	26.0#	68	0.00
12	CMT	1,1-Dichloroethene	0.710	0.633	10.8	80	0.00
13	T	tert-Butyl alcohol	0.020	0.018	10.0	76	0.00
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.364	0.400	-9.9	88	0.00
17	T	Methylene chloride	0.802	0.502	37.4#	74	0.00
18	T	Carbon disulfide	1.239	1.299	-4.8	94	0.00
19	T	Acrylonitrile	0.056	0.058	-3.6	88	0.00
20	T	tert-Butyl methyl ether (MT	0.595	0.617	-3.7	91	0.00
21	T	trans-1,2-Dichloroethene	0.645	0.618	4.2	86	0.00
22	T	Isopropyl ether (DIPE)	1.359	1.192	12.3	78	0.00
23	T	Vinyl acetate	0.505	0.425	15.8	77	0.00
24	P,T	1,1-Dichloroethane	0.752	0.748	0.5	90	0.00
25	T	tert-Butyl ethyl ether (ETB	0.918	0.913	0.5	88	0.00
26	T	2-Butanone	0.091	0.086	5.5	84	0.00
27	T	2,2-Dichloropropane	0.539	0.495	8.2	84	0.00
28	T	cis-1,2-Dichloroethene	0.671	0.636	5.2	85	0.00
29	C,T	Chloroform	0.682	0.707	-3.7	92	0.00
30	T	Bromochloromethane	0.305	0.282	7.5	83	0.00
31	T	1,1,1-Trichloroethane	0.601	0.596	0.8	88	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.671	0.793	-18.2	112	-0.02
34	S	1,2-Dichloroethane-d4	0.348	0.304	12.6	80	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	89	0.00
36	T	1,1-Dichloropropene	0.205	0.209	-2.0	95	0.00
37	T	Carbon tetrachloride	0.544	0.508	6.6	85	0.00
38	T	1,2-Dichloroethane	0.502	0.452	10.0	79	0.00
39	TM	Benzene	1.509	1.654	-9.6	100	0.00
40	TM	Trichloroethene	0.425	0.477	-12.2	102	0.00

(#) = Out of Range

2023

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.389	0.407	-4.6	95	0.00
43	T	Bromodichloromethane	0.485	0.504	-3.9	92	0.00
44	T	Dibromomethane	0.158	0.177	-12.0	98	0.00
45	T	2-Chloroethyl vinyl ether	0.052	0.078	-50.0#	128	0.00
46	T	4-Methyl-2-pentanone	0.257	0.265	-3.1	91	0.00
47	T	cis-1,3-Dichloropropene	0.471	0.542	-15.1	100	0.00
48	S	Toluene-d8	1.255	1.256	-0.1	95	0.00
49	CMT	Toluene	1.511	1.654	-9.5	101	0.00
50	T	Ethyl methacrylate	0.272	0.308	-13.2	98	0.00
51	T	trans-1,3-Dichloropropene	0.353	0.392	-11.0	95	0.00
52	T	2-Hexanone	0.134	0.140	-4.5	89	0.00
53	T	1,1,2-Trichloroethane	0.205	0.242	-18.0	105	0.00
54	T	1,3-Dichloropropane	0.382	0.445	-16.5	101	0.00
55	T	Tetrachloroethene	0.357	0.398	-11.5	100	0.00
56	T	Dibromochloromethane	0.250	0.290	-16.0	94	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.154	0.197	-27.9#	119	0.00
59	T	1-Chlorohexane	0.576	0.657	-14.1	103	0.00
60	PM	Chlorobenzene	0.929	1.081	-16.4	104	0.00
61	T	1,1,1,2-Tetrachloroethane	0.318	0.356	-11.9	99	0.00
62	C,T	Ethylbenzene	1.727	1.908	-10.5	100	0.00
63	T	m-Xylene & p-Xylene	1.322	1.447	-9.5	99	0.00
64	T	o-Xylene	1.370	1.513	-10.4	100	0.00
65	T	Styrene	0.917	1.146	-25.0#	109	-0.01
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	94	0.00
67	T	Isopropylbenzene	4.174	4.457	-6.8	104	0.00
68	P,T	Bromoform	0.310	0.341	-10.0	99	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.575	0.662	-15.1	111	0.00
70	S	4-Bromofluorobenzene	1.240	1.129	9.0	96	-0.01
71	T	1,2,3-Trichloropropane	0.116	0.115	0.9	96	0.00
72	T	trans-1,4-Dichloro-2-butene	0.110	0.093	15.5	90	0.00
73	T	n-Propylbenzene	5.172	5.604	-8.4	103	-0.02
74	T	Bromobenzene	0.928	1.023	-10.2	107	-0.01
75	T	1,3,5-Trimethylbenzene	3.412	3.694	-8.3	104	-0.01
76	T	2-Chlorotoluene	2.994	3.166	-5.7	105	-0.02
77	T	4-Chlorotoluene	2.954	3.011	-1.9	97	0.00
78	T	tert-Butylbenzene	3.091	3.370	-9.0	104	0.00
79	T	1,2,4-Trimethylbenzene	3.249	3.560	-9.6	104	-0.01
80	T	sec-Butylbenzene	4.418	5.006	-13.3	107	-0.01

(#) = Out of Range

2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	3.327	3.915	-17.7	107	-0.01
82	T	1,3-Dichlorobenzene	1.713	1.975	-15.3	107	-0.01
83	T	1,4-Dichlorobenzene	1.684	1.910	-13.4	109	-0.01
84	T	n-Butylbenzene	2.932	3.422	-16.7	103	-0.01
85	T	1,2-Dichlorobenzene	1.459	1.677	-14.9	108	-0.01
86	T	1,2-Dibromo-3-chloropropane	0.071	0.086	-21.1#	109	-0.01
87	T	1,2,4-Trichlorobenzene	0.742	0.891	-20.1#	105	-0.01
88	T	Hexachlorobutadiene	0.621	0.677	-9.0	94	-0.01
89	T	Naphthalene	0.870	1.066	-22.5#	111	-0.01
90	T	1,2,3-Trichlorobenzene	0.592	0.692	-16.9	102	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOG

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.6.07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A06 -031

BATCH V006 I 26 114

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	R1<W188	BFB06 K17	2ml				
02	189	↓ 18	↓				10:37 pm
03	190	V006 I26 114	1ml/5ml				
04	191	↓ 115	↓				
05	192	V006K18L					
06	193	C	↓				
07	194	B	25ml				
08	195	↓ Q	↓				
09	196	07J344-01	5ml	1	<2		
10	197	↓ -02					
11	198	07K042-01					
12	199	↓ -02					
13	200	↓ -03					
14	201	07J955-01					
15	202	↓ -02					
16	203	↓ -03					
17	204	↓ -04					104
18	205	07J385-01					
19	206	↓ -02					
20	207	07J352-06R	↓	↓	↓		104 (10:16 am)
21							
22							
23					DN	11.7.07	
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	10.26.07
ICAL ID	V006 I 26

STANDARDS NAME	ID	CONC. (mg/L)
DCC	Std .13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.5.1	50/25
LCS	10.3	
LCS	.13.3	
LCS	.2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K06

Electronic Data Archival	
Location	Date
HPCHEM_VOA/T006	

Comments:

Analyzed By: DN

Date Disposed: 11/7/07

Disposed By: DN

2027

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 9/25/07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A06 -030

BATCH V006I26

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RIW500	BFB06I52 ✓	2µL	NA	NA	NA	Ket/AA 8260 TBA
02	501	V006I261 ✓	.06/.15/.05µL				.6 .3 1.5 ppb
03	502	2 ✓	.1/.25/.05µL				1 .5 2.5
04	503	3 ✓	.2/.5/.1µL				2 1 5
05	504	4 ✓	.4/1/.2µL				4 2 10
06	505	5 ✓	1/2.5/.5µL				10 5 25
07	506	6 ✓	2/5/1µL				20 10 50
08	507	7 ✓	4/10/2µL				40 20 100
09	508	8 ✓	6/15/3µL				60 30 150
10	509	9 ✓	8/20/4µL				80 40 200
11	510	10 ✓	10/25/5µL				100 50 250
12	511	IS/SS	25mL				
13	512	V006I52B	25mL				
14	513	IV006I261 ✓	2/5/1µL				
15	514	2	2/5/1µL				
16	515	Rinse					
17	516	Rinse					
18							
19							
20							
21							
22							
23							
24							
25							CGM 9/25/07

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	9/25/07
ICAL ID	V006I26
CGM 9/25/07	STANDARDS

NAME	ID	CONC. (mg/L)
DCC Ket/AA ~~Gas~~	SV1 - 13 - 03 - 1	250
DCC 8260	- 01 - 1	50/250
DCC Gases	- 01 - 3	250
BFB	- 05 - 3	50
IS/SURR.	- 05 - 1	250
LCS Ket/AA	- 03 - 2	250
LCS 8260	SV1C - 11 - 99 - 1	50/250
LCS Gases	- 95 - 2	250
SOLVENT IS	SV1-13-04-3 ID	250
METHANOL SS	SV1-13-05-2	250
DATA FILE	07I25	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: CGM

Date Disposed: 9/26/07

Disposed By: CGM

2928

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07J344

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J344

METHOD 5035B/8260B
VOLATILE ORGANICS BY GC/MS

Ten (10) soil samples were received on 10/26/07 for Volatile Organic analysis by Method 5035/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   Sample J344-07 was spiked. Recoveries were within QC limits.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J344
Instrument ID : T-067

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	V067K03B	1	NA	11/02/0701:21	11/02/0701:21	RKC027	RJC757	V067K03	Method Blank
LCS1S	V067K03L	1	NA	11/02/0700:06	11/02/0700:06	RKC025	RJC757	V067K03	Lab Control Sample (LCS)
LCD1S	V067K03C	1	NA	11/02/0700:44	11/02/0700:44	RKC026	RJC757	V067K03	LCS Duplicate
SB1-15'	J344-03	1.0	9.3	11/02/0702:36	11/02/0702:36	RKC029	RJC757	V067K03	Field Sample
SB1-15'DUP	J344-04	.85	9.3	11/02/0703:14	11/02/0703:14	RKC030	RJC757	V067K03	Field Sample
SB1-18'	J344-05	1.1	9.0	11/02/0703:51	11/02/0703:51	RKC031	RJC757	V067K03	Field Sample
SB1-20'	J344-06	1.0	7.9	11/02/0704:29	11/02/0704:29	RKC032	RJC757	V067K03	Field Sample
SB1-35'	J344-07	1.0	9.5	11/02/0705:07	11/02/0705:07	RKC033	RJC757	V067K03	Field Sample
SB1-45'	J344-09	.77	8.3	11/02/0706:21	11/02/0706:21	RKC035	RJC757	V067K03	Field Sample
SB1-50'	J344-10	.83	8.0	11/02/0706:59	11/02/0706:59	RKC036	RJC757	V067K03	Field Sample
SB1-50'DUP	J344-11	.86	9.0	11/02/0707:37	11/02/0707:37	RKC037	RJC757	V067K03	Field Sample
SB6-55'	J344-12	.79	11.0	11/02/0708:14	11/02/0708:14	RKC038	RJC757	V067K03	Field Sample
SB1-35'MS	J344-07M	.72	9.5	11/02/0708:51	11/02/0708:51	RKC039	RJC757	V067K03	Matrix Spike Sample (MS)
SB1-35'MSD	J344-07S	.88	9.5	11/02/0709:29	11/02/0709:29	RKC040	RJC757	V067K03	MS Duplicate (MSD)
MBLK2S	V067K04B	1	NA	11/02/0713:24	11/02/0713:24	RKC046	RJC757	V067K04	Method Blank
LCS2S	V067K04L	1	NA	11/02/0712:09	11/02/0712:09	RKC044	RJC757	V067K04	Lab Control Sample (LCS)
LCD2S	V067K04C	1	NA	11/02/0712:46	11/02/0712:46	RKC045	RJC757	V067K04	LCS Duplicate
SB1-40'	J344-08R	.94	9.8	11/02/0714:39	11/02/0714:39	RKC048	RJC757	V067K04	Field Sample
MBLK3S!	V003K05B	50	NA	11/03/0704:38	11/03/0704:38	RKB067	RJB450	V003K05	Method Blank
LCS3S!	V003K05L	50	NA	11/03/0703:21	11/03/0703:21	RKB065	RJB450	V003K05	Lab Control Sample (LCS)
LCD3S!	V003K05C	50	NA	11/03/0703:59	11/03/0703:59	RKB066	RJB450	V003K05	LCS Duplicate
SB1-35'DL!	J344-07T	39	9.5	11/03/0708:29	11/03/0708:29	RKB073	RJB450	V003K05	Diluted Sample

! Instrument ID : T-003
FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 02:36
Sample ID:	SB1-15'	Date Analyzed:	11/02/07 02:36
Lab Samp ID:	J344-03	Dilution Factor:	1.0
Lab File ID:	RKC029	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	9.3
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.5	2.2
1,1,2,2-TETRACHLOROETHANE	ND	5.5	2.2
1,1,2-TRICHLOROETHANE	ND	5.5	2.2
1,1-DICHLOROETHANE	ND	5.5	2.2
1,1-DICHLOROETHENE	ND	5.5	2.2
1,2-DICHLOROETHANE	ND	5.5	2.2
1,2-DICHLOROPROPANE	ND	5.5	2.2
2-BUTANONE	ND	11	5.5
2-HEXANONE	ND	11	5.5
4-METHYL-2-PENTANONE	ND	11	5.5
ACETONE	6.8J	11	5.5
BENZENE	ND	5.5	2.2
BROMODICHLOROMETHANE	ND	5.5	2.2
BROMOFORM	ND	5.5	2.2
BROMOMETHANE	ND	11	2.2
CARBON DISULFIDE	ND	5.5	2.2
CARBON TETRACHLORIDE	ND	5.5	2.2
CHLOROBENZENE	ND	5.5	2.2
CHLOROETHANE	ND	5.5	2.2
CHLOROFORM	ND	5.5	2.2
CHLOROMETHANE	ND	11	2.2
CIS-1,2-DICHLOROETHENE	ND	5.5	2.2
CIS-1,3-DICHLOROPROPENE	ND	5.5	2.2
DIBROMOCHLOROMETHANE	ND	5.5	2.2
ETHYLBENZENE	ND	5.5	2.2
M/P-XYLENES	ND	11	2.2
MTBE	ND	5.5	2.2
METHYLENE CHLORIDE	ND	11	2.2
O-XYLENE	ND	5.5	2.2
STYRENE	ND	5.5	2.2
TETRACHLOROETHENE	ND	5.5	2.2
TOLUENE	ND	5.5	2.2
TRANS-1,2-DICHLOROETHENE	ND	5.5	2.2
TRANS-1,3-DICHLOROPROPENE	ND	5.5	2.2
TRICHLOROETHENE	ND	5.5	2.2
VINYL CHLORIDE	ND	5.5	2.2
TERT-BUTANOL	ND	22	11
DIPE	ND	5.5	2.2
ETBE	ND	5.5	2.2
TAME	ND	5.5	2.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	60-160
4-BROMOFLUOROBENZENE	93	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 03:14
Sample ID:	SB1-15'DUP	Date Analyzed:	11/02/07 03:14
Lab Samp ID:	J344-04	Dilution Factor:	.85
Lab File ID:	RKC030	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	9.3
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.4	4.7
2-HEXANONE	ND	9.4	4.7
4-METHYL-2-PENTANONE	ND	9.4	4.7
ACETONE	ND	9.4	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.4	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.4	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.4	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	ND	9.4	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	ND	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9
TERT-BUTANOL	ND	19	9.4
DIPE	ND	4.7	1.9
ETBE	ND	4.7	1.9
TAME	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	60-160
4-BROMOFLUOROBENZENE	92	70-150
TOLUENE-D8	93	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 03:51
Sample ID:	SB1-18'	Date Analyzed:	11/02/07 03:51
Lab Samp ID:	J344-05	Dilution Factor:	1.1
Lab File ID:	RKC031	Matrix :	SOIL
Ext Btch ID:	VO67K03	% Moisture :	9.0
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	6.0	2.4
1,1,2,2-TETRACHLOROETHANE	ND	6.0	2.4
1,1,2-TRICHLOROETHANE	ND	6.0	2.4
1,1-DICHLOROETHANE	ND	6.0	2.4
1,1-DICHLOROETHENE	ND	6.0	2.4
1,2-DICHLOROETHANE	ND	6.0	2.4
1,2-DICHLOROPROPANE	ND	6.0	2.4
2-BUTANONE	ND	12	6.0
2-HEXANONE	ND	12	6.0
4-METHYL-2-PENTANONE	ND	12	6.0
ACETONE	ND	12	6.0
BENZENE	ND	6.0	2.4
BROMODICHLOROMETHANE	ND	6.0	2.4
BROMOFORM	ND	6.0	2.4
BROMOMETHANE	ND	12	2.4
CARBON DISULFIDE	ND	6.0	2.4
CARBON TETRACHLORIDE	ND	6.0	2.4
CHLOROBENZENE	ND	6.0	2.4
CHLOROETHANE	ND	6.0	2.4
CHLOROFORM	ND	6.0	2.4
CHLOROMETHANE	ND	12	2.4
CIS-1,2-DICHLOROETHENE	ND	6.0	2.4
CIS-1,3-DICHLOROPROPENE	ND	6.0	2.4
DIBROMOCHLOROMETHANE	ND	6.0	2.4
ETHYLBENZENE	ND	6.0	2.4
M/P-XYLENES	ND	12	2.4
MTBE	ND	6.0	2.4
METHYLENE CHLORIDE	ND	12	2.4
O-XYLENE	ND	6.0	2.4
STYRENE	ND	6.0	2.4
TETRACHLOROETHENE	ND	6.0	2.4
TOLUENE	ND	6.0	2.4
TRANS-1,2-DICHLOROETHENE	ND	6.0	2.4
TRANS-1,3-DICHLOROPROPENE	ND	6.0	2.4
TRICHLOROETHENE	ND	6.0	2.4
VINYL CHLORIDE	ND	6.0	2.4
TERT-BUTANOL	ND	24	12
DIPE	ND	6.0	2.4
ETBE	ND	6.0	2.4
TAME	ND	6.0	2.4

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 04:29
Sample ID:	SB1-20'	Date Analyzed:	11/02/07 04:29
Lab Samp ID:	J344-06	Dilution Factor:	1.0
Lab File ID:	RKC032	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	7.9
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	2.2
1,1,2,2-TETRACHLOROETHANE	ND	5.4	2.2
1,1,2-TRICHLOROETHANE	ND	5.4	2.2
1,1-DICHLOROETHANE	ND	5.4	2.2
1,1-DICHLOROETHENE	ND	5.4	2.2
1,2-DICHLOROETHANE	ND	5.4	2.2
1,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	ND	11	5.4
2-HEXANONE	ND	11	5.4
4-METHYL-2-PENTANONE	ND	11	5.4
ACETONE	9.0J	11	5.4
BENZENE	ND	5.4	2.2
BROMODICHLOROMETHANE	ND	5.4	2.2
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	11	2.2
CARBON DISULFIDE	ND	5.4	2.2
CARBON TETRACHLORIDE	ND	5.4	2.2
CHLOROBENZENE	ND	5.4	2.2
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	2.2
CHLOROMETHANE	ND	11	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	2.2
CIS-1,3-DICHLOROPROPENE	ND	5.4	2.2
DIBROMOCHLOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	2.2
M/P-XYLENES	ND	11	2.2
MTBE	ND	5.4	2.2
METHYLENE CHLORIDE	ND	11	2.2
O-XYLENE	ND	5.4	2.2
STYRENE	ND	5.4	2.2
TETRACHLOROETHENE	ND	5.4	2.2
TOLUENE	ND	5.4	2.2
TRANS-1,2-DICHLOROETHENE	ND	5.4	2.2
TRANS-1,3-DICHLOROPROPENE	ND	5.4	2.2
TRICHLOROETHENE	ND	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
TERT-BUTANOL	ND	22	11
DIPE	ND	5.4	2.2
ETBE	ND	5.4	2.2
TAME	ND	5.4	2.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	94	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 05:07
Sample ID:	SB1-35'	Date Analyzed:	11/02/07 05:07
Lab Samp ID:	J344-07	Dilution Factor:	1.0
Lab File ID:	RKC033	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	9.5
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.5	2.2
1,1,2,2-TETRACHLOROETHANE	ND	5.5	2.2
1,1,2-TRICHLOROETHANE	ND	5.5	2.2
1,1-DICHLOROETHANE	ND	5.5	2.2
1,1-DICHLOROETHENE	ND	5.5	2.2
1,2-DICHLOROETHANE	5.0J	5.5	2.2
1,2-DICHLOROPROPANE	ND	5.5	2.2
2-BUTANONE	ND	11	5.5
2-HEXANONE	ND	11	5.5
4-METHYL-2-PENTANONE	42	11	5.5
ACETONE	7.6J	11	5.5
BENZENE	ND	5.5	2.2
BROMODICHLOROMETHANE	ND	5.5	2.2
BROMOFORM	ND	5.5	2.2
BROMOMETHANE	ND	11	2.2
CARBON DISULFIDE	ND	5.5	2.2
CARBON TETRACHLORIDE	ND	5.5	2.2
CHLOROBENZENE	ND	5.5	2.2
CHLOROETHANE	ND	5.5	2.2
CHLOROFORM	ND	5.5	2.2
CHLOROMETHANE	ND	11	2.2
CIS-1,2-DICHLOROETHENE	ND	5.5	2.2
CIS-1,3-DICHLOROPROPENE	ND	5.5	2.2
DIBROMOCHLOROMETHANE	ND	5.5	2.2
ETHYLBENZENE	ND	5.5	2.2
M/P-XYLENES	ND	11	2.2
MTBE	ND	5.5	2.2
METHYLENE CHLORIDE	920E	11	2.2
O-XYLENE	ND	5.5	2.2
STYRENE	ND	5.5	2.2
TETRACHLOROETHENE	ND	5.5	2.2
TOLUENE	ND	5.5	2.2
TRANS-1,2-DICHLOROETHENE	ND	5.5	2.2
TRANS-1,3-DICHLOROPROPENE	ND	5.5	2.2
TRICHLOROETHENE	26	5.5	2.2
VINYL CHLORIDE	ND	5.5	2.2
TERT-BUTANOL	ND	22	11
DIPE	ND	5.5	2.2
ETBE	ND	5.5	2.2
TAME	ND	5.5	2.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	93	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/03/07 08:29
Sample ID:	SB1-35'DL	Date Analyzed:	11/03/07 08:29
Lab Samp ID:	J344-07T	Dilution Factor:	39
Lab File ID:	RKB073	Matrix :	SOIL
Ext Btch ID:	V003K05	% Moisture :	9.5
Calib. Ref.:	RJB450	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	220	86
1,1,2,2-TETRACHLOROETHANE	ND	220	86
1,1,2-TRICHLOROETHANE	ND	220	86
1,1-DICHLOROETHANE	ND	220	86
1,1-DICHLOROETHENE	ND	220	86
1,2-DICHLOROETHANE	ND	220	86
1,2-DICHLOROPROPANE	ND	220	86
2-BUTANONE	ND	430	220
2-HEXANONE	ND	430	220
4-METHYL-2-PENTANONE	ND	430	220
ACETONE	ND	430	220
BENZENE	ND	220	86
BROMODICHLOROMETHANE	ND	220	86
BROMOFORM	ND	220	86
BROMOMETHANE	ND	430	86
CARBON DISULFIDE	ND	220	86
CARBON TETRACHLORIDE	ND	220	86
CHLOROBENZENE	ND	220	86
CHLOROETHANE	ND	220	86
CHLOROFORM	ND	220	86
CHLOROMETHANE	ND	430	86
CIS-1,2-DICHLOROETHENE	ND	220	86
CIS-1,3-DICHLOROPROPENE	ND	220	86
DIBROMOCHLOROMETHANE	ND	220	86
ETHYLBENZENE	ND	220	86
M/P-XYLENES	ND	430	86
MTBE	ND	220	86
METHYLENE CHLORIDE	1700	430	86
O-XYLENE	ND	220	86
STYRENE	ND	220	86
TETRACHLOROETHENE	ND	220	86
TOLUENE	ND	220	86
TRANS-1,2-DICHLOROETHENE	ND	220	86
TRANS-1,3-DICHLOROPROPENE	ND	220	86
TRICHLOROETHENE	ND	220	86
VINYL CHLORIDE	ND	220	86
TERT-BUTANOL	ND	860	430
DIPE	ND	220	86
ETBE	ND	220	86
TAME	ND	220	86

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	133	60-160
4-BROMOFLUOROBENZENE	110	70-150
TOLUENE-D8	101	70-140

Methanol Extraction Date: 11/01/07 16:20

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 14:39
Sample ID:	SB1-40'	Date Analyzed:	11/02/07 14:39
Lab Samp ID:	J344-08R	Dilution Factor:	.94
Lab File ID:	RKC048	Matrix :	SOIL
Ext Btch ID:	V067K04	% Moisture :	9.8
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.2	2.1
1,1,2,2-TETRACHLOROETHANE	ND	5.2	2.1
1,1,2-TRICHLOROETHANE	ND	5.2	2.1
1,1-DICHLOROETHANE	ND	5.2	2.1
1,1-DICHLOROETHENE	ND	5.2	2.1
1,2-DICHLOROETHANE	ND	5.2	2.1
1,2-DICHLOROPROPANE	ND	5.2	2.1
2-BUTANONE	ND	10	5.2
2-HEXANONE	ND	10	5.2
4-METHYL-2-PENTANONE	ND	10	5.2
ACETONE	ND	10	5.2
BENZENE	ND	5.2	2.1
BROMODICHLOROMETHANE	ND	5.2	2.1
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	ND	10	2.1
CARBON DISULFIDE	ND	5.2	2.1
CARBON TETRACHLORIDE	ND	5.2	2.1
CHLOROBENZENE	ND	5.2	2.1
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	2.1
CHLOROMETHANE	ND	10	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	2.1
CIS-1,3-DICHLOROPROPENE	ND	5.2	2.1
DIBROMOCHLOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	2.1
M/P-XYLENES	ND	10	2.1
MTBE	ND	5.2	2.1
METHYLENE CHLORIDE	130	10	2.1
O-XYLENE	ND	5.2	2.1
STYRENE	ND	5.2	2.1
TETRACHLOROETHENE	ND	5.2	2.1
TOLUENE	ND	5.2	2.1
TRANS-1,2-DICHLOROETHENE	ND	5.2	2.1
TRANS-1,3-DICHLOROPROPENE	ND	5.2	2.1
TRICHLOROETHENE	16	5.2	2.1
VINYL CHLORIDE	ND	5.2	2.1
TERT-BUTANOL	ND	21	10
DIPE	ND	5.2	2.1
ETBE	ND	5.2	2.1
TAME	ND	5.2	2.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	91	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 06:21
Sample ID:	SB1-45'	Date Analyzed:	11/02/07 06:21
Lab Samp ID:	J344-09	Dilution Factor:	.77
Lab File ID:	RKC035	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	8.3
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.2	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.2	1.7
1,1,2-TRICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHENE	ND	4.2	1.7
1,2-DICHLOROETHANE	ND	4.2	1.7
1,2-DICHLOROPROPANE	ND	4.2	1.7
2-BUTANONE	ND	8.4	4.2
2-HEXANONE	ND	8.4	4.2
4-METHYL-2-PENTANONE	ND	8.4	4.2
ACETONE	ND	8.4	4.2
BENZENE	ND	4.2	1.7
BROMODICHLOROMETHANE	ND	4.2	1.7
BROMOFORM	ND	4.2	1.7
BROMOMETHANE	ND	8.4	1.7
CARBON DISULFIDE	ND	4.2	1.7
CARBON TETRACHLORIDE	ND	4.2	1.7
CHLOROBENZENE	ND	4.2	1.7
CHLOROETHANE	ND	4.2	1.7
CHLOROFORM	ND	4.2	1.7
CHLOROMETHANE	ND	8.4	1.7
CIS-1,2-DICHLOROETHENE	ND	4.2	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.2	1.7
DIBROMOCHLOROMETHANE	ND	4.2	1.7
ETHYLBENZENE	ND	4.2	1.7
M/P-XYLENES	ND	8.4	1.7
MTBE	ND	4.2	1.7
METHYLENE CHLORIDE	6.9J	8.4	1.7
O-XYLENE	ND	4.2	1.7
STYRENE	ND	4.2	1.7
TETRACHLOROETHENE	ND	4.2	1.7
TOLUENE	ND	4.2	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.2	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.2	1.7
TRICHLOROETHENE	14	4.2	1.7
VINYL CHLORIDE	ND	4.2	1.7
TERT-BUTANOL	ND	17	8.4
DIPE	ND	4.2	1.7
ETBE	ND	4.2	1.7
TAME	ND	4.2	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	60-160
4-BROMOFLUOROBENZENE	90	70-150
TOLUENE-D8	93	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 06:59
Sample ID:	SB1-50'	Date Analyzed:	11/02/07 06:59
Lab Samp ID:	J344-10	Dilution Factor:	.83
Lab File ID:	RKC036	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	8.0
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.5	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.5	1.8
1,1,2-TRICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHENE	ND	4.5	1.8
1,2-DICHLOROETHANE	ND	4.5	1.8
1,2-DICHLOROPROPANE	ND	4.5	1.8
2-BUTANONE	ND	9.0	4.5
2-HEXANONE	ND	9.0	4.5
4-METHYL-2-PENTANONE	ND	9.0	4.5
ACETONE	ND	9.0	4.5
BENZENE	ND	4.5	1.8
BROMODICHLOROMETHANE	ND	4.5	1.8
BROMOFORM	ND	4.5	1.8
BROMOMETHANE	ND	9.0	1.8
CARBON DISULFIDE	ND	4.5	1.8
CARBON TETRACHLORIDE	ND	4.5	1.8
CHLOROBENZENE	ND	4.5	1.8
CHLOROETHANE	ND	4.5	1.8
CHLOROFORM	ND	4.5	1.8
CHLOROMETHANE	ND	9.0	1.8
CIS-1,2-DICHLOROETHENE	ND	4.5	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.5	1.8
DIBROMOCHLOROMETHANE	ND	4.5	1.8
ETHYLBENZENE	ND	4.5	1.8
M/P-XYLENES	ND	9.0	1.8
MTBE	ND	4.5	1.8
METHYLENE CHLORIDE	15	9.0	1.8
O-XYLENE	ND	4.5	1.8
STYRENE	ND	4.5	1.8
TETRACHLOROETHENE	ND	4.5	1.8
TOLUENE	ND	4.5	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.5	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.5	1.8
TRICHLOROETHENE	2.9J	4.5	1.8
VINYL CHLORIDE	ND	4.5	1.8
TERT-BUTANOL	ND	18	9.0
DIPE	ND	4.5	1.8
ETBE	ND	4.5	1.8
TAME	ND	4.5	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 07:37
Sample ID:	SB1-50'DUP	Date Analyzed:	11/02/07 07:37
Lab Samp ID:	J344-11	Dilution Factor:	.86
Lab File ID:	RKC037	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	9.0
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.5	4.7
2-HEXANONE	ND	9.5	4.7
4-METHYL-2-PENTANONE	ND	9.5	4.7
ACETONE	7.5J	9.5	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.5	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.5	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.5	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	33	9.5	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	7.5	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9
TERT-BUTANOL	ND	19	9.5
DIPE	ND	4.7	1.9
ETBE	ND	4.7	1.9
TAME	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	94	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/26/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J344	Date Extracted:	11/02/07 08:14
Sample ID:	SB6-55'	Date Analyzed:	11/02/07 08:14
Lab Samp ID:	J344-12	Dilution Factor:	.79
Lab File ID:	RKC038	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	11.0
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.4	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.4	1.8
1,1,2-TRICHLOROETHANE	ND	4.4	1.8
1,1-DICHLOROETHANE	ND	4.4	1.8
1,1-DICHLOROETHENE	ND	4.4	1.8
1,2-DICHLOROETHANE	ND	4.4	1.8
1,2-DICHLOROPROPANE	ND	4.4	1.8
2-BUTANONE	ND	8.9	4.4
2-HEXANONE	ND	8.9	4.4
4-METHYL-2-PENTANONE	ND	8.9	4.4
ACETONE	ND	8.9	4.4
BENZENE	ND	4.4	1.8
BROMODICHLOROMETHANE	ND	4.4	1.8
BROMOFORM	ND	4.4	1.8
BROMOMETHANE	ND	8.9	1.8
CARBON DISULFIDE	ND	4.4	1.8
CARBON TETRACHLORIDE	ND	4.4	1.8
CHLOROBENZENE	ND	4.4	1.8
CHLOROETHANE	ND	4.4	1.8
CHLOROFORM	ND	4.4	1.8
CHLOROMETHANE	ND	8.9	1.8
CIS-1,2-DICHLOROETHENE	ND	4.4	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.4	1.8
DIBROMOCHLOROMETHANE	ND	4.4	1.8
ETHYLBENZENE	ND	4.4	1.8
M/P-XYLENES	ND	8.9	1.8
MTBE	ND	4.4	1.8
METHYLENE CHLORIDE	ND	8.9	1.8
O-XYLENE	ND	4.4	1.8
STYRENE	ND	4.4	1.8
TETRACHLOROETHENE	ND	4.4	1.8
TOLUENE	ND	4.4	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.4	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.4	1.8
TRICHLOROETHENE	ND	4.4	1.8
VINYL CHLORIDE	ND	4.4	1.8
TERT-BUTANOL	ND	18	8.9
DIPE	ND	4.4	1.8
ETBE	ND	4.4	1.8
TAME	ND	4.4	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	93	70-140

QC SUMMARIES

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07J344	Date Extracted:	11/02/07 01:21
Sample ID:	MBLK1S	Date Analyzed:	11/02/07 01:21
Lab Samp ID:	V067K03B	Dilution Factor:	1
Lab File ID:	RKC027	Matrix :	SOIL
Ext Btch ID:	V067K03	% Moisture :	NA
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	94	70-140
4-BROMOFLUOROBENZENE	92	70-130
TOLUENE-D8	95	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	V067K03B	V067K03L	V067K03C		
LAB FILE ID:	RKC027	RKC025	RKC026		
DATE EXTRACTED:	11/02/0701:21	11/02/0700:06	11/02/0700:44	DATE COLLECTED:	NA
DATE ANALYZED:	11/02/0701:21	11/02/0700:06	11/02/0700:44	DATE RECEIVED:	11/02/07
PREP. BATCH:	V067K03	V067K03	V067K03		
CALIB. REF:	RJC757	RJC757	RJC757		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	17.4	87	20.0	20.0	100	14	60-130	50
Benzene	ND	20.0	17.2	86	20.0	19.9	99	15	70-130	50
Chlorobenzene	ND	20.0	16.8	84	20.0	19.7	98	15	70-130	50
Toluene	ND	20.0	16.6	83	20.0	19.8	99	18	70-130	50
Trichloroethene	ND	20.0	16.4	82	20.0	19.3	97	16	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	44.4	89	50.0	59.7	119	70-140
4-Bromofluorobenzene	50.0	40.5	81	50.0	53.9	108	70-130
Toluene-d8	50.0	40.6	81	50.0	55.0	110	70-130

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07J344	Date Extracted:	11/02/07 13:24
Sample ID:	MBLK2S	Date Analyzed:	11/02/07 13:24
Lab Samp ID:	V067K04B	Dilution Factor:	1
Lab File ID:	RKC046	Matrix :	SOIL
Ext Btch ID:	V067K04	% Moisture :	NA
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	70-140
4-BROMOFLUOROBENZENE	93	70-130
TOLUENE-D8	95	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	V067K04B	V067K04L	V067K04C		
LAB FILE ID:	RKC046	RKC044	RKC045		
DATE EXTRACTED:	11/02/0713:24	11/02/0712:09	11/02/0712:46	DATE COLLECTED:	NA
DATE ANALYZED:	11/02/0713:24	11/02/0712:09	11/02/0712:46	DATE RECEIVED:	11/02/07
PREP. BATCH:	V067K04	V067K04	V067K04		
CALIB. REF:	RJC757	RJC757	RJC757		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	18.2	91	20.0	17.5	88	4	60-130	50
Benzene	ND	20.0	17.4	87	20.0	17.3	87	0	70-130	50
Chlorobenzene	ND	20.0	17.5	88	20.0	17.4	87	1	70-130	50
Toluene	ND	20.0	17.5	87	20.0	17.5	88	1	70-130	50
Trichloroethene	ND	20.0	17.0	85	20.0	17.1	85	1	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	51.5	103	50.0	49.4	99	70-140
4-Bromofluorobenzene	50.0	46.2	92	50.0	46.6	93	70-130
Toluene-d8	50.0	47.0	94	50.0	47.2	94	70-130

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/03/07
Batch No.	: 07J344	Date Extracted:	11/03/07 04:38
Sample ID:	MBLK3S	Date Analyzed:	11/03/07 04:38
Lab Samp ID:	V003K05B	Dilution Factor:	50
Lab File ID:	RKB067	Matrix :	SOIL
Ext Btch ID:	V003K05	% Moisture :	NA
Calib. Ref.:	RJB450	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	250	100
1,1,2,2-TETRACHLOROETHANE	ND	250	100
1,1,2-TRICHLOROETHANE	ND	250	100
1,1-DICHLOROETHANE	ND	250	100
1,1-DICHLOROETHENE	ND	250	100
1,2-DICHLOROETHANE	ND	250	100
1,2-DICHLOROPROPANE	ND	250	100
2-BUTANONE	ND	500	250
2-HEXANONE	ND	500	250
4-METHYL-2-PENTANONE	ND	500	250
ACETONE	ND	500	250
BENZENE	ND	250	100
BROMODICHLOROMETHANE	ND	250	100
BROMOFORM	ND	250	100
BROMOMETHANE	ND	500	100
CARBON DISULFIDE	ND	250	100
CARBON TETRACHLORIDE	ND	250	100
CHLOROBENZENE	ND	250	100
CHLOROETHANE	ND	250	100
CHLOROFORM	ND	250	100
CHLOROMETHANE	ND	500	100
CIS-1,2-DICHLOROETHENE	ND	250	100
CIS-1,3-DICHLOROPROPENE	ND	250	100
DIBROMOCHLOROMETHANE	ND	250	100
ETHYLBENZENE	ND	250	100
M/P-XYLENES	ND	500	100
MTBE	ND	250	100
METHYLENE CHLORIDE	ND	500	100
O-XYLENE	ND	250	100
STYRENE	ND	250	100
TETRACHLOROETHENE	ND	250	100
TOLUENE	ND	250	100
TRANS-1,2-DICHLOROETHENE	ND	250	100
TRANS-1,3-DICHLOROPROPENE	ND	250	100
TRICHLOROETHENE	ND	250	100
VINYL CHLORIDE	ND	250	100
TERT-BUTANOL	ND	1000	500
DIPE	ND	250	100
ETBE	ND	250	100
TAME	ND	250	100

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	70-140
4-BROMOFLUOROBENZENE	93	70-130
TOLUENE-D8	83	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	50	50	50		
SAMPLE ID:	MBLK3S				
LAB SAMP ID:	V003K05B	V003K05L	V003K05C		
LAB FILE ID:	RKB067	RKB065	RKB066		
DATE EXTRACTED:	11/03/0704:38	11/03/0703:21	11/03/0703:59	DATE COLLECTED:	NA
DATE ANALYZED:	11/03/0704:38	11/03/0703:21	11/03/0703:59	DATE RECEIVED:	11/03/07
PREP. BATCH:	V003K05	V003K05	V003K05		
CALIB. REF:	RJB450	RJB450	RJB450		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	1000	1060	106	1000	1020	102	4	60-130	50
Benzene	ND	1000	1020	102	1000	988	99	3	70-130	50
Chlorobenzene	ND	1000	939	94	1000	887	89	6	70-130	50
Toluene	ND	1000	984	98	1000	940	94	5	70-130	50
Trichloroethene	ND	1000	941	94	1000	913	91	3	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	2500	2800	112	2500	2520	101	70-140
4-Bromofluorobenzene	2500	2750	110	2500	2570	103	70-130
Toluene-d8	2500	2590	103	2500	2410	96	70-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	9.5
DILUTION FACTOR:	1.0	.72	.88		
SAMPLE ID:	SB1-35'				
LAB SAMP ID:	J344-07	J344-07M	J344-07S		
LAB FILE ID:	RKC033	RKC039	RKC040		
DATE EXTRACTED:	11/02/0705:07	11/02/0708:51	11/02/0709:29	DATE COLLECTED:	10/26/07
DATE ANALYZED:	11/02/0705:07	11/02/0708:51	11/02/0709:29	DATE RECEIVED:	10/26/07
PREP. BATCH:	V067K03	V067K03	V067K03		
CALIB. REF:	RJC757	RJC757	RJC757		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	39.8	38.4	97	48.6	52.9	109	12	50-140	50
Benzene	ND	39.8	38.0	96	48.6	51.4	106	10	60-150	50
Chlorobenzene	ND	39.8	37.4	94	48.6	50.5	104	10	70-130	50
Toluene	ND	39.8	37.3	94	48.6	50.8	105	11	70-140	50
Trichloroethene	26.0	39.8	50.3	61	48.6	62.2	74	19	60-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	39.8	43.5	109	48.6	62.8	129	60-160
4-Bromofluorobenzene	39.8	37.6	95	48.6	54.8	113	70-150
Toluene-d8	39.8	37.9	95	48.6	55.6	114	70-140

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RJB445
Instrument ID: T-003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J344
BFB Injection Date : 10/16/07
BFB Injection Time : 13:48
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.89
75	30.0 - 60.0% of mass 95	48.10
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.67
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	64.51
175	5.0 - 9.0% of mass 174	4.73(7.3)1
176	95.0 - 101.0% of mass 174	62.54(96.9)1
177	5.0 - 9.0% of mass 176	4.12(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD02	V003J1601	RJB446	10/16/07	14:27
2	VSTD05	V003J1602	RJB447	10/16/07	15:06
3	VSTD010	V003J1603	RJB448	10/16/07	15:45
4	VSTD020	V003J1604	RJB449	10/16/07	16:22
5	VSTD050	V003J1605	RJB450	10/16/07	17:00
6	VSTD080	V003J1606	RJB451	10/16/07	17:39
7	VSTD100	V003J1607	RJB452	10/16/07	18:17
8	VSTD200	V003J1608	RJB453	10/16/07	18:56
9	VSTD300	V003J1609	RJB454	10/16/07	19:34

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RJB480
Instrument ID: T-003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J344
BFB Injection Date : 10/17/07
BFB Injection Time : 12:28
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.06
75	30.0 - 60.0% of mass 95	49.51
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.66
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	67.27
175	5.0 - 9.0% of mass 174	4.72(7.0)1
176	95.0 - 101.0% of mass 174	64.47(95.8)1
177	5.0 - 9.0% of mass 176	4.37(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	IV003J1603	RJB481	10/17/07	13:06

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T003
Beginning DateTime :10/16/07 14:27
Spike Units :PPB
IC File :RJB450

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :10/16/07 19:34
HPChem Method :V003J16

M	IDX	Parameters	2 14:27 RJB446	5 15:06 RJB447	10 15:45 RJB448	20 16:22 RJB449	50 17:00 RJB450	80 17:39 RJB451	100 18:17 RJB452	200 18:56 RJB453	300 19:34 RJB454	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	10.7358
	2	Dichlorodifluoromethane	0.446	0.395	0.398	0.380	0.388	0.377	0.382	0.375	0.406	0.394	5.59	3.0936
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	0.427	0.380	0.348	0.354	0.364	0.385	0.389	0.400	0.542	0.399	14.74	3.5087
	5	Vinyl chloride	0.376	0.345	0.327	0.308	0.288	0.270	0.263	0.245	0.256	0.298	15.00	3.6856
	6	Bromomethane	0.368	0.313	0.275	0.277	0.293	0.295	0.302	0.289	0.340	0.306	9.95	4.4150
	7	Chloroethane	0.233	0.211	0.198	0.195	0.198	0.191	0.188	0.187	0.177	0.198	8.17	4.5357
	8	Dichlorofluoromethane	0.704	0.741	0.696	0.660	0.650	0.656	0.642	0.642	0.657	0.672	5.05	4.6035
	9	Trichlorofluoromethane	0.548	0.529	0.530	0.522	0.532	0.521	0.530	0.525	0.551	0.532	2.03	4.9640
	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
4	11	Acrolein	0.072	0.051	0.048	0.050	0.051	0.047	0.044	0.040	0.043	0.049	19.07	5.6206
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.239	0.250	0.282	0.268	0.263	0.262	0.260	0.252	0.275	0.261	4.98	5.6520
4	13	Acetone	0.110	0.100	0.093	0.094	0.093	0.088	0.081	0.083	0.096	0.093	9.43	5.7297
	14	1,1-Dichloroethene	0.665	0.664	0.612	0.581	0.562	0.556	0.561	0.558	0.604	0.596	7.35	5.9249
5	15	tert-Butyl alcohol	0.022	0.022	0.023	0.023	0.021	0.019	0.016	0.021	0.020	0.021	11.09	6.0803
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	------	0.395	0.490	0.498	0.481	0.449	0.444	0.508	0.409	0.459	9.13	6.4124
	18	Methyl acetate	0.378	0.286	0.269	0.270	0.276	0.273	0.251	0.254	0.280	0.282	13.39	6.4276
	19	Methylene chloride	0.651	0.597	0.534	0.506	0.489	0.488	0.485	0.493	0.524	0.530	10.88	6.6575
	20	Carbon disulfide	1.424	1.452	1.425	1.363	1.361	1.366	1.387	1.325	1.196	1.366	5.51	6.7320
5	21	Acrylonitrile	0.108	0.112	0.103	0.108	0.109	0.104	0.097	0.098	0.107	0.105	4.80	6.8312
	22	tert-Butyl methyl ether (MTBE)	0.397	0.422	0.390	0.428	0.444	0.460	0.463	------	------	0.429	6.69	6.9233
	23	trans-1,2-Dichloroethene	0.597	0.613	0.577	0.548	0.546	0.539	0.539	0.536	0.548	0.560	5.08	7.1338
	24	Isopropyl ether (DIPE)	1.214	1.210	1.138	1.121	1.143	1.136	1.112	1.111	1.077	1.140	3.95	7.6035
	25	Vinyl acetate	0.727	0.741	0.683	0.656	0.694	0.670	0.627	0.614	0.607	0.669	7.14	7.7524
	26	1,1-Dichloroethane	0.686	0.741	0.692	0.664	0.648	0.658	0.649	0.657	0.670	0.674	4.36	7.7821
	27	tert-Butyl ethyl ether (ETBE)	0.478	0.489	0.464	0.512	0.521	0.541	0.564	------	------	0.510	6.99	8.2352
4	28	2-Butanone	0.154	0.159	0.150	0.164	0.164	0.154	0.143	0.137	0.150	0.153	5.81	8.4238
	29	2,2-Dichloropropane	0.320	0.336	0.323	0.340	0.348	0.382	0.375	0.337	0.256	0.335	10.88	8.6686
	30	cis-1,2-Dichloroethene	0.613	0.632	0.595	0.574	0.566	0.572	0.572	0.559	0.548	0.581	4.63	8.7347
	31	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	32	Chloroform	0.729	0.742	0.722	0.684	0.668	0.674	0.670	0.672	0.686	0.694	4.13	8.9877
	33	Bromochloromethane	0.338	0.333	0.312	0.298	0.296	0.294	0.291	0.288	0.272	0.302	7.08	9.2540
	34	Tetrahydrofuran	------	0.110	0.102	0.096	0.092	0.091	0.082	0.084	0.092	0.094	9.59	9.3372
	35	1,1,1-Trichloroethane	0.516	0.536	0.548	0.526	0.525	0.532	0.526	0.518	0.501	0.525	2.50	9.6427
	36	1,1-Dichloropropene	0.191	0.193	0.194	0.181	0.174	0.174	0.173	0.171	0.178	0.181	5.04	9.8940
	37	Cyclohexane	------	2.714	1.744	0.973	0.807	0.743	0.670	0.651	0.667	1.121	65.88	9.7074
	38	tert-Amyl methyl ether (TAME)	0.427	0.466	0.424	0.458	0.469	0.479	0.497	------	------	0.460	5.75	10.0639
	39	1,2-Dichloroethane-d4	0.364	0.392	0.330	0.359	0.376	0.333	0.334	------	------	0.355	6.71	10.1234
	40	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	16.5341
	41	Carbon tetrachloride	0.333	0.387	0.481	0.478	0.481	0.502	0.501	0.525	0.377	0.452	14.96	10.0743
	42	1,2-Dichloroethane	0.509	0.516	0.526	0.506	0.500	0.482	0.459	0.437	0.371	0.478	10.31	10.2777
	43	Benzene	1.683	1.676	1.742	1.681	1.647	1.686	1.679	1.536	1.368	1.633	6.96	10.3389
	44	Trichloroethene	0.393	0.397	0.460	0.444	0.433	0.442	0.444	0.446	0.462	0.436	5.68	11.3395
	45	Methylcyclohexane	0.660	0.708	0.669	0.667	0.663	0.686	0.670	0.686	0.727	0.682	3.35	11.4734
	46	1,2-Dichloropropane	0.443	0.440	0.438	0.431	0.420	0.432	0.424	0.427	0.427	0.431	1.78	11.6223
	47	Bromodichloromethane	0.517	0.562	0.588	0.562	0.560	0.588	0.572	0.568	0.443	0.551	8.27	12.0242
	48	Dibromomethane	0.272	0.270	0.291	0.282	0.249	0.234	0.218	0.220	0.182	0.247	14.58	12.1283

2055

M 10-20-07

	49	2-Chloroethyl vinyl ether	0.089	0.103	0.111	0.121	0.119	0.111	0.111	------	------	0.109	9.65	12.4709
4	50	4-Methyl-2-pentanone	0.730	0.563	0.490	0.482	0.457	0.434	0.401	0.395	------	0.494	22.18	12.5323
	51	cis-1,3-Dichloropropene	0.557	0.614	0.654	0.647	0.656	0.681	0.649	0.714	0.678	0.650	6.84	12.9354
	52	Toluene-d8	1.172	1.287	1.225	1.326	1.376	1.255	1.355	1.276	1.160	1.270	5.97	13.4233
	53	Toluene	1.675	1.645	1.687	1.609	1.582	1.622	1.601	1.492	1.277	1.577	7.99	13.5721
	54	Ethyl methacrylate	0.495	0.470	0.487	0.485	0.492	0.488	0.452	0.456	0.461	0.476	3.48	13.7689
	55	trans-1,3-Dichloropropene	0.412	0.449	0.489	0.505	0.532	0.557	0.533	0.589	0.570	0.515	11.18	13.8400
4	56	2-Hexanone	0.258	0.277	0.282	0.308	0.311	0.295	0.266	0.272	0.264	0.282	6.83	14.1261
	57	1,1,2-Trichloroethane	0.314	0.314	0.333	0.319	0.321	0.322	0.308	0.315	0.311	0.317	2.34	14.1675
	58	1,3-Dichloropropane	0.585	0.577	0.618	0.595	0.596	0.605	0.580	0.597	0.592	0.594	2.14	14.6587
	59	Tetrachloroethene	0.302	0.305	0.359	0.337	0.333	0.336	0.337	0.343	0.360	0.334	6.06	14.8670
	60	Dibromochloromethane	0.282	0.313	0.361	0.369	0.387	0.401	0.381	0.408	0.407	0.368	11.88	15.2689
	61	1,2-Dibromoethane	0.312	0.324	0.355	0.336	0.326	0.327	0.308	0.352	0.324	0.329	4.86	15.7006
	62	1-Chlorohexane	0.655	0.650	0.688	0.652	0.636	0.647	0.644	0.657	0.688	0.658	2.80	15.9652
	63	Chlorobenzene	0.978	1.016	1.066	1.014	1.008	1.012	0.996	0.995	1.013	1.011	2.38	16.6234
	64	1,1,1,2-Tetrachloroethane	0.272	0.307	0.350	0.338	0.348	0.358	0.347	0.360	0.358	0.337	8.76	16.6962
	65	Ethylbenzene	1.938	1.953	1.979	1.898	1.866	1.900	1.883	1.642	1.410	1.830	10.13	16.7094
2	66	m-Xylene & p-Xylene	1.505	1.497	1.517	1.440	1.423	1.475	1.423	1.013	------	1.412	11.70	16.8860
	67	o-Xylene	1.483	1.518	1.501	1.429	1.418	1.428	1.412	1.417	1.294	1.433	4.60	17.9431
	68	Styrene	1.053	1.097	1.144	1.091	1.075	1.091	1.073	1.113	1.069	1.089	2.49	18.0176
	69	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	0	23.8538
	70	Isopropylbenzene	4.181	3.886	4.092	3.781	3.674	3.736	3.735	3.533	3.232	3.761	7.53	18.8263
	71	Bromoform	------	0.394	0.482	0.482	0.528	0.542	0.520	0.557	0.582	0.511	11.44	18.9022
	72	1,1,2,2-Tetrachloroethane	1.264	1.133	1.166	1.083	1.080	1.062	1.004	0.998	1.058	1.094	7.63	19.2447
	73	4-Bromofluorobenzene	1.394	1.278	1.167	1.189	1.219	1.126	1.179	1.123	1.135	1.201	7.29	19.4961
	74	1,2,3-Trichloropropane	0.239	0.212	0.221	0.210	0.203	0.198	0.188	0.187	0.200	0.206	7.90	19.6449
	75	trans-1,4-Dichloro-2-butene	0.202	0.180	0.195	0.193	0.219	0.230	0.213	0.246	0.237	0.213	10.35	19.7938
	76	n-Propylbenzene	6.026	5.466	5.608	5.245	5.113	5.244	5.293	4.238	3.751	5.109	13.65	19.8980
	77	Bromobenzene	0.954	0.908	0.960	0.914	0.899	0.909	0.894	0.896	0.937	0.919	2.75	20.0600
	78	1,3,5-Trimethylbenzene	3.457	3.173	3.308	3.084	3.018	3.077	3.073	3.102	2.949	3.138	4.97	20.3329
	79	2-Chlorotoluene	2.641	2.439	2.478	2.396	2.333	2.359	2.373	2.452	2.335	2.423	3.99	20.4189
	80	4-Chlorotoluene	3.507	3.171	3.144	2.933	2.899	2.930	2.927	2.958	2.800	3.030	7.06	20.5396
	81	tert-Butylbenzene	2.861	2.715	2.823	2.621	2.564	2.587	2.621	2.623	2.754	2.686	3.99	21.3516
	82	1,2,4-Trimethylbenzene	3.350	3.136	3.232	3.059	3.003	3.014	3.069	3.071	2.940	3.097	4.07	21.4691
	83	sec-Butylbenzene	4.823	4.483	4.662	4.364	4.236	4.292	4.374	3.996	3.673	4.322	7.90	21.9817
	84	p-Isopropyltoluene	3.579	3.442	3.585	3.371	3.326	3.382	3.397	3.385	3.230	3.411	3.32	22.3853
	85	1,3-Dichlorobenzene	1.773	1.689	1.837	1.711	1.704	1.722	1.694	1.739	1.793	1.740	2.91	22.6979
	86	1,4-Dichlorobenzene	1.800	1.714	1.853	1.741	1.704	1.739	1.713	1.756	1.803	1.758	2.87	22.9939
	87	n-Butylbenzene	3.961	3.602	3.732	3.550	3.529	3.624	3.690	3.186	2.900	3.530	8.85	23.5248
	88	1,2-Dichlorobenzene	1.643	1.526	1.681	1.592	1.566	1.564	1.552	1.590	1.617	1.592	3.02	23.9151
	89	1,2-Dibromo-3-chloropropane	0.148	0.155	0.184	0.178	0.182	0.182	0.171	0.181	0.188	0.174	7.90	25.5093
	90	1,2,4-Trichlorobenzene	0.852	0.866	0.931	0.922	0.910	0.934	0.928	0.949	0.975	0.919	4.21	27.2657
	91	Hexachlorobutadiene	0.519	0.556	0.619	0.585	0.559	0.578	0.589	0.613	0.640	0.584	6.28	27.5485
	92	Naphthalene	1.428	1.582	1.706	1.805	1.836	1.845	1.895	1.821	2.101	1.780	10.79	27.7982
	93	1,2,3-Trichlorobenzene	0.744	0.749	0.826	0.801	0.803	0.815	0.813	0.823	0.840	0.802	4.16	28.3010

Spike Amount = Nominal Amount * M
Ave_%RSD : 7.9 Max_%RSD : 65.9

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

	Parameter	x0	x1	CCF
10	Acrolein	0.00551	0.04260	0.9975
37	Cyclohexane	0.20447	0.60872	0.9979
50	4-Methyl-2-pentanone	0.06336	0.40497	0.9986

ac 10-10-07

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RJC745
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J344
BFB Injection Date : 10/26/07
BFB Injection Time : 13:40
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.43
75	30.0 - 60.0% of mass 95	39.21
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.05
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	79.04
175	5.0 - 9.0% of mass 174	5.75(7.3)1
176	95.0 - 101.0% of mass 174	76.82(97.2)1
177	5.0 - 9.0% of mass 176	5.19(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD02	V067J261	RJC746	10/26/07	14:17
2	VSTD05	V067J262	RJC747	10/26/07	14:54
3	VSTD010	V067J263	RJC748	10/26/07	15:31
4	VSTD020	V067J264	RJC749	10/26/07	16:08
5	VSTD080	V067J266	RJC751	10/26/07	17:27
6	VSTD100	V067J267	RJC752	10/26/07	18:04
7	VSTD200	V067J268	RJC753	10/26/07	18:42
8	VSTD050	V067J2610	RJC757	10/26/07	21:11
9	VSTD050	IV067J262	RJC759	10/26/07	22:27

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T067
Beginning DateTime :10/26/07 17:27
Spike Units :PPB
IC File :RJC757

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :10/26/07 18:42
HPChem Method :V067J26

M	IDX	Parameters	2 14:17 RJC746	5 14:54 RJC747	10 15:31 RJC748	20 16:08 RJC749	50 21:11 RJC757	80 17:27 RJC751	100 18:04 RJC752	200 18:42 RJC753	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	0	10.1164
	2	Dichlorodifluoromethane	0.206	0.259	0.250	0.302	0.278	0.244	0.255	0.293	0.261	11.62	3.5139
	3	Chloromethane	0.337	0.355	0.341	0.385	0.356	0.307	0.322	0.356	0.345	6.99	3.9477
	4	Vinyl chloride	0.222	0.272	0.262	0.294	0.238	0.206	------	------	0.249	13.20	4.1474
	5	Bromomethane	0.205	0.220	0.192	0.254	0.235	0.207	0.241	0.282	0.229	12.91	4.8734
	6	Chloroethane	0.137	0.182	0.184	0.215	0.196	0.180	0.181	0.207	0.185	12.57	4.9776
	7	Dichlorofluoromethane	0.514	0.557	0.509	0.587	0.549	0.524	0.601	0.605	0.556	6.96	5.0223
	8	Trichlorofluoromethane	0.283	0.360	0.355	0.412	0.370	0.342	0.352	0.404	0.360	11.04	5.3593
4	9	Acrolein	0.016	0.021	0.018	0.022	0.019	0.018	0.023	0.020	0.020	11.25	5.9235
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.223	0.239	0.225	0.260	0.254	0.235	0.275	0.276	0.248	8.57	5.9365
4	11	Acetone	0.068	0.074	0.060	0.068	0.056	0.051	0.066	0.056	0.062	12.62	5.9924
	12	sec-Propyl alcohol	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	13	1,1-Dichloroethene	0.405	0.445	0.398	0.470	0.453	0.423	0.492	0.493	0.447	8.23	6.2139
5	14	tert-Butyl alcohol	0.021	0.024	0.019	0.022	0.020	0.019	0.025	0.021	0.021	10.72	6.2456
	15	Methyl acetate	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	------	0.417	0.414	0.553	0.536	0.536	------	------	0.491	14.13	6.6771
	17	Methylene chloride	0.601	0.501	0.410	0.463	0.419	0.385	0.456	0.447	0.460	14.56	6.8339
5	18	Acrylonitrile	0.073	0.088	0.073	0.090	0.077	0.071	0.089	0.079	0.080	9.80	6.9531
	19	Carbon disulfide	1.056	1.156	1.061	1.277	1.271	1.190	1.382	1.396	1.224	10.71	6.9680
	20	Acetonitrile	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	21	tert-Butyl methyl ether (MTBE)	0.487	0.548	0.459	0.548	0.521	0.480	0.600	0.572	0.527	9.28	6.9848
	22	trans-1,2-Dichloroethene	0.433	0.479	0.419	0.492	0.479	0.447	0.520	0.514	0.473	7.75	7.2231
	23	Isopropyl ether (DIPE)	0.793	0.892	0.783	0.953	0.900	0.842	1.024	1.014	0.900	10.25	7.5116
	24	Vinyl acetate	0.361	0.422	0.362	0.448	0.441	0.405	0.505	0.475	0.428	11.91	7.6624
	25	1,1-Dichloroethane	0.529	0.580	0.508	0.614	0.589	0.544	0.631	0.654	0.581	8.83	7.7537
	26	tert-Butyl ethyl ether (ETBE)	0.603	0.695	0.616	0.727	0.696	0.647	0.792	0.773	0.693	9.98	8.0311
4	27	2-Butanone	0.110	0.128	0.112	0.127	0.107	0.099	0.126	0.113	0.115	9.27	8.2173
	28	2,2-Dichloropropane	------	0.290	0.277	0.332	0.351	0.323	0.390	0.393	0.337	13.37	8.4714
	29	cis-1,2-Dichloroethene	0.454	0.495	0.444	0.524	0.500	0.463	0.538	0.533	0.494	7.45	8.5319
	30	Chloroform	0.478	0.522	0.468	0.563	0.534	0.495	0.588	0.589	0.530	8.96	8.7330
	31	Bromochloromethane	0.259	0.289	0.252	0.292	0.262	0.249	0.295	0.280	0.272	6.99	8.9713
	32	Cyclohexane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	1,1,1-Trichloroethane	0.353	0.385	0.357	0.416	0.411	0.385	0.450	0.459	0.402	9.77	9.2711
	34	1,1-Dichloropropene	0.128	0.145	0.131	0.153	0.153	0.140	0.164	0.163	0.147	9.20	9.4629
	35	tert-Amyl methyl ether (TAME)	0.598	0.668	0.593	0.711	0.668	0.624	0.762	0.736	0.670	9.39	9.5243
4	36	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	1,2-Dichloroethane-d4	------	0.232	0.218	0.253	0.235	0.220	0.227	0.245	0.233	5.50	9.6566
	38	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	0	15.6572
	39	Carbon tetrachloride	0.332	0.366	0.354	0.422	0.426	0.398	0.453	0.473	0.403	12.26	9.6360
	40	1,2-Dichloroethane	0.323	0.345	0.321	0.367	0.341	0.314	0.373	0.365	0.343	6.72	9.7812
	41	Benzene	1.452	1.501	1.382	1.626	1.594	1.478	1.729	1.745	1.563	8.43	9.8501
	42	Trichloroethene	0.415	0.448	0.413	0.484	0.483	0.442	0.508	0.518	0.464	8.67	10.6898
	43	Methylcyclohexane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	44	1,2-Dichloropropane	0.360	0.390	0.367	0.421	0.410	0.379	0.446	0.449	0.403	8.51	10.9356
	45	Bromodichloromethane	0.388	0.414	0.392	0.453	0.448	0.418	0.487	0.492	0.437	9.13	11.3303
	46	Dibromomethane	0.229	0.241	0.222	0.259	0.245	0.227	0.271	0.260	0.244	7.35	11.4532
	47	2-Chloroethyl vinyl ether	0.157	0.179	0.162	0.190	0.191	0.177	0.223	0.209	0.186	11.99	11.6412
4	48	4-Methyl-2-pentanone	0.559	0.470	0.360	0.383	0.320	0.294	0.369	0.326	0.385	22.83	11.6878
	49	cis-1,3-Dichloropropene	0.429	0.500	0.479	0.559	0.573	0.531	0.634	0.643	0.543	13.69	12.1532
	50	Toluene-d8	------	1.146	1.162	1.355	1.356	1.224	1.246	1.445	1.276	8.74	12.6377
	51	Toluene	1.421	1.503	1.423	1.649	1.641	1.507	1.758	1.782	1.586	8.98	12.7825
	52	Ethyl methacrylate	0.317	0.356	0.330	0.396	0.387	0.352	0.443	0.412	0.374	11.47	12.8402
	53	trans-1,3-Dichloropropene	0.277	0.345	0.340	0.426	0.437	0.407	0.495	0.496	0.403	19.27	13.0060
4	54	2-Hexanone	0.179	0.217	0.197	0.233	0.196	0.184	0.236	0.207	0.206	10.18	13.2089
	55	1,1,2-Trichloroethane	0.282	0.292	0.266	0.317	0.299	0.274	0.334	0.321	0.298	8.14	13.3467
	56	1,3-Dichloropropane	0.444	0.504	0.450	0.524	0.494	0.460	0.551	0.538	0.496	8.25	13.8159
	57	Tetrachloroethene	0.302	0.323	0.306	0.358	0.347	0.323	0.372	0.383	0.339	8.92	14.0486
	58	Dibromochloromethane	0.273	0.321	0.301	0.372	0.370	0.349	0.425	------	0.345	14.75	14.4653

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59	1,2-Dibromoethane	0.305	0.341	0.307	0.372	0.346	0.324	0.396	0.381	0.346	9.76	14.8939
60	1-Chlorohexane	0.493	0.515	0.544	0.636	0.658	0.589	0.689	0.718	0.605	13.71	15.0019
61	Chlorobenzene	1.032	1.081	1.014	1.187	1.142	1.071	1.243	1.284	1.132	8.75	15.7466
62	1,1,1,2-Tetrachloroethane	0.270	0.299	0.283	0.346	0.346	0.325	0.385	0.395	0.331	13.81	15.7913
63	Ethylbenzene	1.605	1.650	1.556	1.847	1.809	1.693	1.973	2.010	1.768	9.55	15.7838
2 64	m-Xylene & p-Xylene	1.164	1.248	1.175	1.383	1.379	1.276	1.493	------	1.303	9.28	15.9399
65	o-Xylene	1.143	1.198	1.151	1.360	1.330	1.221	1.417	1.463	1.285	9.60	16.9541
66	Styrene	0.990	1.063	1.011	1.174	1.157	1.074	1.257	1.306	1.129	10.12	17.0249
67	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	0	22.4314
68	Isopropylbenzene	3.532	3.796	3.726	4.370	4.376	4.051	4.684	4.899	4.179	11.57	17.7417
69	Bromoform	------	0.485	0.469	0.565	0.569	0.539	0.658	0.646	0.562	12.89	17.9330
70	1,1,2,2-Tetrachloroethane	0.946	1.088	0.940	1.074	1.007	0.938	1.143	1.073	1.026	7.72	18.1476
71	4-Bromofluorobenzene	------	1.076	1.053	1.219	1.198	1.092	1.110	1.259	1.144	7.01	18.4011
72	1,2,3-Trichloropropane	0.156	0.189	0.163	0.174	0.160	0.149	0.177	0.167	0.167	7.62	18.5181
73	trans-1,4-Dichloro-2-butene	------	0.183	0.171	0.205	0.202	0.192	0.238	0.229	0.203	11.79	18.6203
74	n-Propylbenzene	4.471	4.807	4.944	5.654	5.755	5.349	6.154	5.634	5.346	10.52	18.7211
75	Bromobenzene	0.922	1.007	0.937	1.081	1.077	1.009	1.164	------	1.028	8.33	18.9529
76	1,3,5-Trimethylbenzene	2.785	2.940	2.981	3.445	3.487	3.268	3.754	3.874	3.317	11.88	19.0969
77	2-Chlorotoluene	2.700	2.720	2.702	3.213	3.118	2.938	3.215	3.405	3.001	9.17	19.2439
78	4-Chlorotoluene	2.657	2.684	2.619	2.967	2.962	2.740	3.254	3.349	2.904	9.62	19.3352
79	tert-Butylbenzene	2.452	2.583	2.761	3.125	3.206	3.004	3.401	3.558	3.011	12.92	20.0036
80	1,2,4-Trimethylbenzene	2.738	2.928	2.989	3.416	3.473	3.248	3.705	3.887	3.298	12.05	20.1172
81	sec-Butylbenzene	3.903	4.179	4.413	5.176	5.188	4.791	5.578	5.682	4.864	13.42	20.5528
82	p-Isopropyltoluene	------	3.194	3.495	3.982	4.155	3.855	4.456	4.718	3.979	13.26	20.8818
83	1,3-Dichlorobenzene	1.815	1.830	1.784	2.074	2.079	1.919	2.238	2.309	2.006	9.97	21.2399
84	1,4-Dichlorobenzene	1.770	1.885	1.819	2.087	2.049	1.914	2.212	2.298	2.004	9.43	21.5061
85	n-Butylbenzene	2.181	2.690	2.921	3.474	3.798	3.557	4.081	4.341	3.380	21.66	21.9585
86	1,2-Dichlorobenzene	1.617	1.674	1.596	1.870	1.798	1.668	1.972	1.993	1.774	8.91	22.5059
87	1,2-Dibromo-3-chloropropane	------	0.142	0.125	0.160	0.153	0.144	0.183	0.169	0.154	12.48	24.5863
88	1,2,4-Trichlorobenzene	------	0.764	0.795	0.959	1.012	0.943	1.082	1.150	0.958	14.74	27.0036
89	Hexachlorobutadiene	0.453	0.464	0.513	0.602	0.591	0.549	0.628	0.650	0.556	13.30	27.3505
90	Naphthalene	------	1.263	1.185	1.535	1.689	1.591	1.941	2.027	1.605	19.65	27.7504
91	1,2,3-Trichlorobenzene	------	0.683	0.701	0.837	0.858	0.802	0.925	0.961	0.824	12.72	28.4292

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.8 Max_%RSD : 22.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
48	4-Methyl-2-pentanone	0.04235	0.32582	0.9964
53	trans-1,3-Dichloropropene	-0.01315	0.47653	0.9967
85	n-Butylbenzene	-0.13002	4.10980	0.9969
90	Naphthalene	-0.11753	1.93833	0.9954

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11-7-07

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J17\RJB481.D
Acq On : 17 Oct 2007 1:06 pm
Sample : IVO03J1603 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: AS
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	91	-0.01
2	T	Dichlorodifluoromethane	50.000	52.939	-5.9	98	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	0	0.00
4	P,T	Chloromethane	50.000	51.724	-3.4	103	0.00
5	C,T	Vinyl chloride	50.000	52.561	-5.1	99	0.00
6	T	Bromomethane	50.000	43.789	12.4	83	0.00
7	T	Chloroethane	50.000	53.415	-6.8	97	-0.01
8	T	Dichlorofluoromethane	50.000	51.563	-3.1	97	0.00
9	T	Trichlorofluoromethane	50.000	52.955	-5.9	96	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
11	T	Acrolein	200.000	216.981	-8.5	85	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	50.000	49.631	0.7	90	0.00
13	T	Acetone	200.000	189.239	5.4	86	0.00
14	C,T	1,1-Dichloroethene	50.000	50.220	-0.4	97	0.00
15	T	tert-Butyl alcohol	250.000	212.241	15.1	77	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	50.000	52.050	-4.1	90	0.00
18	T	Methyl acetate	50.000	43.882	12.2	81	0.00
19	T	Methylene chloride	50.000	49.794	0.4	98	0.00
20	T	Carbon disulfide	50.000	52.031	-4.1	95	0.00
21	T	Acrylonitrile	250.000	247.384	1.0	87	0.00
22	T	tert-Butyl methyl ether (MT	50.000	56.168	-12.3	99	0.00
23	T	trans-1,2-Dichloroethene	50.000	52.286	-4.6	98	0.00
24	T	Isopropyl ether (DIPE)	50.000	53.153	-6.3	96	0.00
25	T	Vinyl acetate	50.000	55.129	-10.3	97	0.00
26	P,T	1,1-Dichloroethane	50.000	51.401	-2.8	97	0.00
27	T	tert-Butyl ethyl ether (ETB	50.000	55.857	-11.7	99	0.00
28	T	2-Butanone	200.000	201.133	-0.6	85	0.00
29	T	2,2-Dichloropropane	50.000	57.736	-15.5	101	0.00
30	T	cis-1,2-Dichloroethene	50.000	52.209	-4.4	98	0.00
31	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
32	C,T	Chloroform	50.000	51.064	-2.1	96	0.00
33	T	Bromochloromethane	50.000	51.328	-2.7	95	0.00
34	T	Tetrahydrofuran	50.000	48.285	3.4	90	0.00
35	T	1,1,1-Trichloroethane	50.000	51.921	-3.8	94	0.00
36	T	1,1-Dichloropropene	50.000	51.354	-2.7	97	0.00
37	T	Cyclohexane	50.000	41.552	16.9	80	0.00
38	T	tert-Amyl methyl ether (TAM	50.000	53.544	-7.1	96	0.00
39	S	1,2-Dichloroethane-d4	50.000	51.934	-3.9	89	0.00
40	I	CHLOROBENZENE-D5	50.000	50.000	0.0	90	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J17\RJB481.D
Acq On : 17 Oct 2007 1:06 pm
Sample : IVO03J1603 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: AS
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	50.000	54.741	-9.5	93	0.00
42	T	1,2-Dichloroethane	50.000	55.858	-11.7	96	0.00
43	T	Benzene	50.000	53.333	-6.7	95	0.00
44	T	Trichloroethene	50.000	51.203	-2.4	93	0.00
45	T	Methylcyclohexane	50.000	45.988	8.0	85	0.00
46	C,T	1,2-Dichloropropane	50.000	52.916	-5.8	98	0.00
47	T	Bromodichloromethane	50.000	54.367	-8.7	96	0.00
48	T	Dibromomethane	50.000	51.737	-3.5	92	0.00
49	T	2-Chloroethyl vinyl ether	50.000	50.417	-0.8	83	0.00
50	T	4-Methyl-2-pentanone	200.000	212.209	-6.1	88	0.00
51	T	cis-1,3-Dichloropropene	50.000	53.615	-7.2	96	0.00
52	S	Toluene-d8	50.000	51.609	-3.2	86	0.00
53	C,T	Toluene	50.000	52.084	-4.2	94	0.00
54	T	Ethyl methacrylate	50.000	52.172	-4.3	91	0.00
55	T	trans-1,3-Dichloropropene	50.000	54.691	-9.4	95	0.00
56	T	2-Hexanone	200.000	209.273	-4.6	85	0.00
57	T	1,1,2-Trichloroethane	50.000	50.826	-1.7	91	0.00
58	T	1,3-Dichloropropane	50.000	52.915	-5.8	95	0.00
59	T	Tetrachloroethene	50.000	48.604	2.8	88	0.00
60	T	Dibromochloromethane	50.000	52.495	-5.0	90	0.00
61	T	1,2-Dibromoethane	50.000	51.964	-3.9	95	0.00
62	T	1-Chlorohexane	50.000	50.748	-1.5	95	0.00
63	P	Chlorobenzene	50.000	50.380	-0.8	91	0.00
64	T	1,1,1,2-Tetrachloroethane	50.000	51.683	-3.4	90	0.00
65	C,T	Ethylbenzene	50.000	52.728	-5.5	93	0.00
66	T	m-Xylene & p-Xylene	100.000	106.184	-6.2	95	-0.01
67	T	o-Xylene	50.000	50.911	-1.8	93	-0.01
68	T	Styrene	50.000	50.422	-0.8	92	-0.01
69	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	90	0.00
70	T	Isopropylbenzene	50.000	50.338	-0.7	92	0.00
71	P,T	Bromoform	50.000	48.075	3.8	83	0.00
72	P,T	1,1,2,2-Tetrachloroethane	50.000	49.360	1.3	90	0.00
73	S	4-Bromofluorobenzene	50.000	49.905	0.2	88	0.00
74	T	1,2,3-Trichloropropane	50.000	50.141	-0.3	91	0.00
75	T	trans-1,4-Dichloro-2-butene	50.000	52.591	-5.2	92	0.00
76	T	n-Propylbenzene	50.000	52.828	-5.7	95	0.00
77	T	Bromobenzene	50.000	49.601	0.8	91	0.00
78	T	1,3,5-Trimethylbenzene	50.000	50.749	-1.5	95	0.00
79	T	2-Chlorotoluene	50.000	51.714	-3.4	96	0.00
80	T	4-Chlorotoluene	50.000	49.966	0.1	94	0.00

(#) = Out of Range

pa 10-20-07

2062

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J17\RJB481.D
Acq On : 17 Oct 2007 1:06 pm
Sample : IVO03J1603 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: AS
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	tert-Butylbenzene	50.000	49.577	0.8	93	-0.01
82	T	1,2,4-Trimethylbenzene	50.000	50.951	-1.9	94	-0.01
83	T	sec-Butylbenzene	50.000	50.547	-1.1	92	0.00
84	T	p-Isopropyltoluene	50.000	50.229	-0.5	92	0.00
85	T	1,3-Dichlorobenzene	50.000	49.836	0.3	91	0.00
86	T	1,4-Dichlorobenzene	50.000	49.298	1.4	91	0.00
87	T	n-Butylbenzene	50.000	52.778	-5.6	95	-0.01
88	T	1,2-Dichlorobenzene	50.000	49.018	2.0	89	0.00
89	T	1,2-Dibromo-3-chloropropane	50.000	46.785	6.4	80	0.00
90	T	1,2,4-Trichlorobenzene	50.000	48.424	3.2	88	0.00
91	T	Hexachlorobutadiene	50.000	45.481	9.0	85	0.00
92	T	Naphthalene	50.000	46.237	7.5	80	0.00
93	T	1,2,3-Trichlorobenzene	50.000	48.002	4.0	86	-0.01

pw 10-20-07

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D Vial: 16
Acq On : 26 Oct 2007 10:27 pm Operator: CR
Sample : IV067J262 50ppb Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	50.000	51.268	-2.5	98	0.00
3	P,T	Chloromethane	50.000	48.189	3.6	95	0.00
4	C,T	Vinyl chloride	50.000	46.504	7.0	99	-0.01
5	T	Bromomethane	50.000	53.396	-6.8	106	0.00
6	T	Chloroethane	50.000	50.678	-1.4	98	0.00
7	T	Dichlorofluoromethane	50.000	46.816	6.4	97	-0.01
8	T	Trichlorofluoromethane	50.000	45.647	8.7	91	0.00
9	T	Acrolein	200.000	242.271	-21.1#	127	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	49.309	1.4	98	0.00
11	T	Acetone	200.000	170.782	14.6	98	0.00
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	48.013	4.0	97	0.00
14	T	tert-Butyl alcohol	250.000	245.069	2.0	106	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	47.728	4.5	89	-0.01
17	T	Methylene chloride	50.000	42.332	15.3	95	0.00
18	T	Acrylonitrile	250.000	249.598	0.2	106	0.00
19	T	Carbon disulfide	50.000	46.521	7.0	91	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	51.561	-3.1	106	0.00
22	T	trans-1,2-Dichloroethene	50.000	47.638	4.7	96	0.00
23	T	Isopropyl ether (DIPE)	50.000	51.670	-3.3	105	0.00
24	T	Vinyl acetate	50.000	44.226	11.5	87	0.00
25	P,T	1,1-Dichloroethane	50.000	47.595	4.8	96	0.00
26	T	tert-Butyl ethyl ether (ETB	50.000	51.977	-4.0	106	0.00
27	T	2-Butanone	200.000	179.828	10.1	98	0.00
28	T	2,2-Dichloropropane	50.000	49.534	0.9	97	0.00
29	T	cis-1,2-Dichloroethene	50.000	49.292	1.4	99	0.00
30	C,T	Chloroform	50.000	47.015	6.0	95	0.00
31	T	Bromochloromethane	50.000	48.307	3.4	102	-0.01
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	49.134	1.7	98	0.00
34	T	1,1-Dichloropropene	50.000	50.553	-1.1	99	-0.01
35	T	tert-Amyl methyl ether (TAM	50.000	51.309	-2.6	105	0.00
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	47.885	4.2	97	-0.01
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	104	0.00
39	T	Carbon tetrachloride	50.000	50.402	-0.8	99	0.00
40	T	1,2-Dichloroethane	50.000	46.928	6.1	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D Vial: 16
Acq On : 26 Oct 2007 10:27 pm Operator: CR
Sample : IV067J262 50ppb Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	48.463	3.1	99	0.00
42	M,T	Trichloroethene	50.000	50.125	-0.3	100	0.00
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	50.950	-1.9	104	0.00
45	T	Bromodichloromethane	50.000	47.490	5.0	96	-0.01
46	T	Dibromomethane	50.000	49.687	0.6	103	0.00
47	T	2-Chloroethyl vinyl ether	50.000	46.976	6.0	95	0.00
48	T	4-Methyl-2-pentanone	200.000	181.028	9.5	99	-0.01
49	T	cis-1,3-Dichloropropene	50.000	45.819	8.4	90	0.00
50	S	Toluene-d8	50.000	49.772	0.5	98	-0.01
51	C,TM	Toluene	50.000	50.610	-1.2	102	0.00
52	T	Ethyl methacrylate	50.000	50.752	-1.5	102	0.00
53	T	trans-1,3-Dichloropropene	50.000	41.176	17.6	90	0.00
54	T	2-Hexanone	200.000	184.465	7.8	101	0.00
55	T	1,1,2-Trichloroethane	50.000	50.339	-0.7	104	0.00
56	T	1,3-Dichloropropane	50.000	49.979	0.0	104	0.00
57	T	Tetrachloroethene	50.000	48.543	2.9	99	0.00
58	T	Dibromochloromethane	50.000	51.337	-2.7	99	0.00
59	T	1,2-Dibromoethane	50.000	49.659	0.7	103	0.00
60	T	1-Chlorohexane	50.000	51.215	-2.4	98	0.00
61	P,M	Chlorobenzene	50.000	46.898	6.2	97	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	51.842	-3.7	103	0.00
63	C,T	Ethylbenzene	50.000	50.827	-1.7	103	0.00
64	T	m-Xylene & p-Xylene	100.000	103.221	-3.2	101	0.00
65	T	o-Xylene	50.000	50.884	-1.8	102	0.00
66	T	Styrene	50.000	50.722	-1.4	103	0.00
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	103	0.00
68	T	Isopropylbenzene	50.000	52.097	-4.2	103	0.00
69	P,T	Bromoform	50.000	49.192	1.6	100	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	49.293	1.4	104	0.00
71	S	4-Bromofluorobenzene	50.000	48.945	2.1	97	0.00
72	T	1,2,3-Trichloropropane	50.000	49.276	1.4	106	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	50.096	-0.2	104	0.00
74	T	n-Propylbenzene	50.000	53.788	-7.6	103	0.00
75	T	Bromobenzene	50.000	51.126	-2.3	101	0.00
76	T	1,3,5-Trimethylbenzene	50.000	51.192	-2.4	101	0.00
77	T	2-Chlorotoluene	50.000	49.792	0.4	99	0.00
78	T	4-Chlorotoluene	50.000	48.025	4.0	97	0.00
79	T	tert-Butylbenzene	50.000	52.571	-5.1	102	0.00
80	T	1,2,4-Trimethylbenzene	50.000	50.236	-0.5	99	0.00

(#) = Out of Range

RC 11-2-07

2065

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D Vial: 16
Acq On : 26 Oct 2007 10:27 pm Operator: CR
Sample : IV067J262 50ppb Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\V067J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	52.876	-5.8	102	-0.01
82	T	p-Isopropyltoluene	50.000	50.966	-1.9	101	0.00
83	T	1,3-Dichlorobenzene	50.000	49.207	1.6	98	0.00
84	T	1,4-Dichlorobenzene	50.000	48.247	3.5	98	0.00
85	T	n-Butylbenzene	50.000	46.085	7.8	100	0.00
86	T	1,2-Dichlorobenzene	50.000	48.515	3.0	99	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	49.895	0.2	104	-0.01
88	T	1,2,4-Trichlorobenzene	50.000	51.430	-2.9	101	-0.01
89	T	Hexachlorobutadiene	50.000	52.018	-4.0	101	0.00
90	T	Naphthalene	50.000	45.348	9.3	100	0.00
91	T	1,2,3-Trichlorobenzene	50.000	51.570	-3.1	102	0.00

pe 11-2-07

(#) = Out of Range SPCC's out = 0 CCC's out = 0

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKC022
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J344
BFB Injection Date : 11/01/07
BFB Injection Time : 22:14
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.88
75	30.0 - 60.0% of mass 95	40.40
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.02
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	79.17
175	5.0 - 9.0% of mass 174	5.78(7.3)1
176	95.0 - 101.0% of mass 174	77.13(97.4)1
177	5.0 - 9.0% of mass 176	5.19(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV067J26142	RKC024	11/01/07	23:29
2	MBLK1S	V067K03B	RKC027	11/02/07	01:21
3	LCS1S	V067K03L	RKC025	11/02/07	00:06
4	LCD1S	V067K03C	RKC026	11/02/07	00:44
5	SB1-15'	J344-03	RKC029	11/02/07	02:36
6	SB1-15'DUP	J344-04	RKC030	11/02/07	03:14
7	SB1-18'	J344-05	RKC031	11/02/07	03:51
8	SB1-20'	J344-06	RKC032	11/02/07	04:29
9	SB1-35'	J344-07	RKC033	11/02/07	05:07
10	SB1-45'	J344-09	RKC035	11/02/07	06:21
11	SB1-50'	J344-10	RKC036	11/02/07	06:59
12	SB1-50'DUP	J344-11	RKC037	11/02/07	07:37
13	SB6-55'	J344-12	RKC038	11/02/07	08:14
14	SB1-35'MS	J344-07M	RKC039	11/02/07	08:51
15	SB1-35'MSD	J344-07S	RKC040	11/02/07	09:29

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RJC757
Instrument ID: T-067
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J344
Date Analyzed: 10/26/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3737727	10.10	3162265	15.64	1255225	22.42
	UPPER LIMIT	7475454	10.60	6324530	16.14	2510450	22.92
	LOWER LIMIT	1868864	9.60	1581133	15.14	627613	21.92
	SAMPLE ID						
1	VSTD050	3875075	10.10	3406805	15.64	1368491	22.42
2	MBLK1S	3717385	10.12	3142230	15.64	1246604	22.42
3	LCS1S	3633206	10.10	3184944	15.64	1271445	22.42
4	LCD1S	2921008	10.10	2532049	15.66	1026338	22.42
5	SB1-15'	3120496	10.10	2792245	15.65	1081755	22.42
6	SB1-15'DUP	3183897	10.12	2819704	15.65	1095166	22.42
7	SB1-18'	3394469	10.12	3008718	15.66	1183438	22.42
8	SB1-20'	3265586	10.12	2873489	15.64	1145612	22.42
9	SB1-35'	3269190	10.11	2849992	15.65	1160887	22.43
10	SB1-45'	3131477	10.12	2788076	15.66	1116908	22.42
11	SB1-50'	3408868	10.13	2988896	15.67	1189906	22.44
12	SB1-50'DUP	3038585	10.10	2646933	15.64	1054339	22.42
13	SB6-55'	3300830	10.12	2900126	15.64	1168511	22.42
14	SB1-35'MS	3148322	10.10	2785678	15.65	1136693	22.42
15	SB1-35'MSD	2903600	10.10	2582738	15.64	1053561	22.42

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKC024.D Vial: 4
Acq On : 1 Nov 2007 11:29 pm Operator: CR
Sample : CV067J26142 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	104	0.00
2	T	Dichlorodifluoromethane	0.261	0.233	10.7	87	0.00
3	P,T	Chloromethane	0.345	0.290	15.9	84	0.00
4	C,T	Vinyl chloride	0.249	0.199	20.1	87	-0.02
5	T	Bromomethane	0.229	0.156	31.9#	69	0.00
6	T	Chloroethane	0.185	0.176	4.9	93	0.00
7	T	Dichlorofluoromethane	0.556	0.501	9.9	95	-0.02
8	T	Trichlorofluoromethane	0.360	0.332	7.8	93	0.00
9	T	Acrolein	0.020	0.019	5.0	104	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.248	0.226	8.9	92	0.00
11	T	Acetone	0.062	0.060	3.2	112	0.00
12	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
13	C,TM	1,1-Dichloroethene	0.447	0.407	8.9	93	0.00
14	T	tert-Butyl alcohol	0.021	0.018	14.3	91	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.491	0.455	7.3	88	-0.02
17	T	Methylene chloride	0.460	0.391	15.0	97	0.00
18	T	Acrylonitrile	0.080	0.078	2.5	105	0.00
19	T	Carbon disulfide	1.224	1.052	14.1	86	0.00
20	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
21	T	tert-Butyl methyl ether (MT	0.527	0.322	38.9#	64	0.00
22	T	trans-1,2-Dichloroethene	0.473	0.423	10.6	92	0.00
23	T	Isopropyl ether (DIPE)	0.900	0.879	2.3	101	0.00
24	T	Vinyl acetate	0.428	0.378	11.7	89	0.00
25	P,T	1,1-Dichloroethane	0.581	0.539	7.2	95	0.00
26	T	tert-Butyl ethyl ether (ETB	0.693	0.378	45.5#	56	0.01
27	T	2-Butanone	0.115	0.115	0.0	111	0.00
28	T	2,2-Dichloropropane	0.337	0.294	12.8	87	0.00
29	T	cis-1,2-Dichloroethene	0.494	0.454	8.1	94	0.00
30	C,T	Chloroform	0.530	0.493	7.0	96	0.00
31	T	Bromochloromethane	0.272	0.259	4.8	102	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	1,1,1-Trichloroethane	0.402	0.365	9.2	92	0.00
34	T	1,1-Dichloropropene	0.147	0.134	8.8	91	0.00
35	T	tert-Amyl methyl ether (TAM	0.670	0.381	43.1#	59	0.00
36	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
37	S	1,2-Dichloroethane-d4	0.233	0.229	1.7	101	0.00
38	I	CHLOROBENZENE-D5	1.000	1.000	0.0	108	0.00
39	T	Carbon tetrachloride	0.403	0.364	9.7	92	0.00
40	T	1,2-Dichloroethane	0.343	0.316	7.9	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKC024.D Vial: 4
Acq On : 1 Nov 2007 11:29 pm Operator: CR
Sample : CVO67J26142 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M,T	Benzene	1.563	1.394	10.8	94	0.00
42	M,T	Trichloroethene	0.464	0.416	10.3	93	0.00
43	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
44	C,T	1,2-Dichloropropane	0.403	0.372	7.7	98	0.00
45	T	Bromodichloromethane	0.437	0.402	8.0	97	0.00
46	T	Dibromomethane	0.244	0.222	9.0	97	0.00
47	T	2-Chloroethyl vinyl ether	0.186	0.080	57.0#	45#	0.00
48	T	4-Methyl-2-pentanone	0.385	0.324	15.8	109	0.00
49	T	cis-1,3-Dichloropropene	0.543	0.510	6.1	96	0.00
50	S	Toluene-d8	1.276	1.200	6.0	95	0.00
51	C,TM	Toluene	1.586	1.408	11.2	92	0.01
52	T	Ethyl methacrylate	0.374	0.383	-2.4	107	0.00
53	T	trans-1,3-Dichloropropene	0.403	0.397	1.5	98	0.00
54	T	2-Hexanone	0.206	0.213	-3.4	117	0.00
55	T	1,1,2-Trichloroethane	0.298	0.278	6.7	100	0.00
56	T	1,3-Dichloropropane	0.496	0.459	7.5	100	0.00
57	T	Tetrachloroethene	0.339	0.295	13.0	92	0.00
58	T	Dibromochloromethane	0.345	0.342	0.9	99	0.00
59	T	1,2-Dibromoethane	0.346	0.321	7.2	100	0.00
60	T	1-Chlorohexane	0.605	0.553	8.6	91	0.00
61	P,M	Chlorobenzene	1.132	0.998	11.8	94	0.00
62	T	1,1,1,2-Tetrachloroethane	0.331	0.310	6.3	96	0.00
63	C,T	Ethylbenzene	1.768	1.591	10.0	95	0.00
64	T	m-Xylene & p-Xylene	1.303	1.198	8.1	94	0.01
65	T	o-Xylene	1.285	1.169	9.0	95	0.01
66	T	Styrene	1.129	1.027	9.0	96	0.00
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	109	0.00
68	T	Isopropylbenzene	4.179	3.815	8.7	95	0.01
69	P,T	Bromoform	0.562	0.529	5.9	101	0.00
70	P,T	1,1,2,2-Tetrachloroethane	1.026	0.933	9.1	101	0.01
71	S	4-Bromofluorobenzene	1.144	1.050	8.2	96	0.01
72	T	1,2,3-Trichloropropane	0.167	0.151	9.6	103	0.00
73	T	trans-1,4-Dichloro-2-butene	0.203	0.186	8.4	101	0.00
74	T	n-Propylbenzene	5.346	4.857	9.1	92	0.00
75	T	Bromobenzene	1.028	0.945	8.1	96	0.01
76	T	1,3,5-Trimethylbenzene	3.317	3.001	9.5	94	0.00
77	T	2-Chlorotoluene	3.001	2.633	12.3	92	0.00
78	T	4-Chlorotoluene	2.904	2.594	10.7	95	0.00
79	T	tert-Butylbenzene	3.011	2.772	7.9	94	0.00
80	T	1,2,4-Trimethylbenzene	3.298	2.933	11.1	92	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKC024.D Vial: 4
Acq On : 1 Nov 2007 11:29 pm Operator: CR
Sample : CV067J26142 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	4.864	4.430	8.9	93	0.00
82	T	p-Isopropyltoluene	3.979	3.509	11.8	92	0.00
83	T	1,3-Dichlorobenzene	2.006	1.769	11.8	93	0.00
84	T	1,4-Dichlorobenzene	2.004	1.759	12.2	94	0.01
85	T	n-Butylbenzene	3.380	3.251	3.8	93	0.00
86	T	1,2-Dichlorobenzene	1.774	1.564	11.8	95	0.00
87	T	1,2-Dibromo-3-chloropropane	0.154	0.148	3.9	106	0.00
88	T	1,2,4-Trichlorobenzene	0.958	0.902	5.8	97	0.00
89	T	Hexachlorobutadiene	0.556	0.512	7.9	94	0.01
90	T	Naphthalene	1.605	1.564	2.6	101	0.00
91	T	1,2,3-Trichlorobenzene	0.824	0.797	3.3	101	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKC024.D Vial: 4
Acq On : 1 Nov 2007 11:29 pm Operator: CR
Sample : CVO67J26142 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	104	0.00
2	T	Dichlorodifluoromethane	50.000	44.638	10.7	87	0.00
3	P,T	Chloromethane	50.000	42.056	15.9	84	0.00
4	C,T	Vinyl chloride	50.000	39.940	20.1	87	-0.02
5	T	Bromomethane	50.000	34.043	31.9#	69	0.00
6	T	Chloroethane	50.000	47.577	4.8	93	0.00
7	T	Dichlorofluoromethane	50.000	45.071	9.9	95	-0.02
8	T	Trichlorofluoromethane	50.000	46.206	7.6	93	0.00
9	T	Acrolein	200.000	195.835	2.1	104	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	45.554	8.9	92	0.00
11	T	Acetone	200.000	191.684	4.2	112	0.00
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	45.457	9.1	93	0.00
14	T	tert-Butyl alcohol	250.000	207.723	16.9	91	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	46.339	7.3	88	-0.02
17	T	Methylene chloride	50.000	42.424	15.2	97	0.00
18	T	Acrylonitrile	250.000	242.451	3.0	105	0.00
19	T	Carbon disulfide	50.000	42.985	14.0	86	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	30.528	38.9#	64	0.00
22	T	trans-1,2-Dichloroethene	50.000	44.709	10.6	92	0.00
23	T	Isopropyl ether (DIPE)	50.000	48.829	2.3	101	0.00
24	T	Vinyl acetate	50.000	44.193	11.6	89	0.00
25	P,T	1,1-Dichloroethane	50.000	46.382	7.2	95	0.00
26	T	tert-Butyl ethyl ether (ETB	50.000	27.252	45.5#	56	0.01
27	T	2-Butanone	200.000	198.950	0.5	111	0.00
28	T	2,2-Dichloropropane	50.000	43.678	12.6	87	0.00
29	T	cis-1,2-Dichloroethene	50.000	45.956	8.1	94	0.00
30	C,T	Chloroform	50.000	46.572	6.9	96	0.00
31	T	Bromochloromethane	50.000	47.592	4.8	102	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	45.418	9.2	92	0.00
34	T	1,1-Dichloropropene	50.000	45.623	8.8	91	0.00
35	T	tert-Amyl methyl ether (TAM	50.000	28.438	43.1#	59	0.00
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	49.223	1.6	101	0.00
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	108	0.00
39	T	Carbon tetrachloride	50.000	45.184	9.6	92	0.00
40	T	1,2-Dichloroethane	50.000	46.077	7.8	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKC024.D Vial: 4
Acq On : 1 Nov 2007 11:29 pm Operator: CR
Sample : CV067J26142 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	44.577	10.8	94	0.00
42	M,T	Trichloroethene	50.000	44.828	10.3	93	0.00
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	46.168	7.7	98	0.00
45	T	Bromodichloromethane	50.000	46.040	7.9	97	0.00
46	T	Dibromomethane	50.000	45.446	9.1	97	0.00
47	T	2-Chloroethyl vinyl ether	50.000	21.493	57.0#	45	0.00
48	T	4-Methyl-2-pentanone	200.000	192.430	3.8	109	0.00
49	T	cis-1,3-Dichloropropene	50.000	46.898	6.2	96	0.00
50	S	Toluene-d8	50.000	47.019	6.0	95	0.00
51	C,TM	Toluene	50.000	44.390	11.2	92	0.01
52	T	Ethyl methacrylate	50.000	51.125	-2.3	107	0.00
53	T	trans-1,3-Dichloropropene	50.000	43.075	13.8	98	0.00
54	T	2-Hexanone	200.000	207.024	-3.5	117	0.00
55	T	1,1,2-Trichloroethane	50.000	46.680	6.6	100	0.00
56	T	1,3-Dichloropropane	50.000	46.283	7.4	100	0.00
57	T	Tetrachloroethene	50.000	43.507	13.0	92	0.00
58	T	Dibromochloromethane	50.000	49.617	0.8	99	0.00
59	T	1,2-Dibromoethane	50.000	46.301	7.4	100	0.00
60	T	1-Chlorohexane	50.000	45.717	8.6	91	0.00
61	P,M	Chlorobenzene	50.000	44.101	11.8	94	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	46.787	6.4	96	0.00
63	C,T	Ethylbenzene	50.000	45.002	10.0	95	0.00
64	T	m-Xylene & p-Xylene	100.000	92.000	8.0	94	0.01
65	T	o-Xylene	50.000	45.474	9.1	95	0.01
66	T	Styrene	50.000	45.485	9.0	96	0.00
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	109	0.00
68	T	Isopropylbenzene	50.000	45.644	8.7	95	0.01
69	P,T	Bromoform	50.000	47.129	5.7	101	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	45.472	9.1	101	0.01
71	S	4-Bromofluorobenzene	50.000	45.912	8.2	96	0.01
72	T	1,2,3-Trichloropropane	50.000	45.208	9.6	103	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	45.887	8.2	101	0.00
74	T	n-Propylbenzene	50.000	45.429	9.1	92	0.00
75	T	Bromobenzene	50.000	45.963	8.1	96	0.01
76	T	1,3,5-Trimethylbenzene	50.000	45.233	9.5	94	0.00
77	T	2-Chlorotoluene	50.000	43.861	12.3	92	0.00
78	T	4-Chlorotoluene	50.000	44.658	10.7	95	0.00
79	T	tert-Butylbenzene	50.000	46.022	8.0	94	0.00
80	T	1,2,4-Trimethylbenzene	50.000	44.464	11.1	92	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKC024.D Vial: 4
Acq On : 1 Nov 2007 11:29 pm Operator: CR
Sample : CVO67J26142 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	45.538	8.9	93	0.00
82	T	p-Isopropyltoluene	50.000	44.096	11.8	92	0.00
83	T	1,3-Dichlorobenzene	50.000	44.093	11.8	93	0.00
84	T	1,4-Dichlorobenzene	50.000	43.889	12.2	94	0.01
85	T	n-Butylbenzene	50.000	41.140	17.7	93	0.00
86	T	1,2-Dichlorobenzene	50.000	44.079	11.8	95	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	48.204	3.6	106	0.00
88	T	1,2,4-Trichlorobenzene	50.000	47.111	5.8	97	0.00
89	T	Hexachlorobutadiene	50.000	46.009	8.0	94	0.01
90	T	Naphthalene	50.000	43.375	13.3	101	0.00
91	T	1,2,3-Trichlorobenzene	50.000	48.381	3.2	101	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKC041
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J344
BFB Injection Date : 11/02/07
BFB Injection Time : 10:17
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.08
75	30.0 - 60.0% of mass 95	39.63
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.05
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	80.80
175	5.0 - 9.0% of mass 174	5.95(7.4)1
176	95.0 - 101.0% of mass 174	79.14(97.9)1
177	5.0 - 9.0% of mass 176	5.09(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV067J26143	RKC042	11/02/07	10:54
2	MBLK2S	V067K04B	RKC046	11/02/07	13:24
3	LCS2S	V067K04L	RKC044	11/02/07	12:09
4	LCD2S	V067K04C	RKC045	11/02/07	12:46
5	SB1-40'	J344-08R	RKC048	11/02/07	14:39

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RJC757
Instrument ID: T-067
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J344
Date Analyzed: 10/26/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3737727	10.10	3162265	15.64	1255225	22.42
	UPPER LIMIT	7475454	10.60	6324530	16.14	2510450	22.92
	LOWER LIMIT	1868864	9.60	1581133	15.14	627613	21.92
	SAMPLE ID						
1	VSTD050	3386377	10.11	2973323	15.65	1162594	22.42
2	MBLK2S	3699791	10.12	3179814	15.66	1235140	22.42
3	LCS2S	3655319	10.10	3223348	15.65	1300740	22.42
4	LCD2S	3750981	10.12	3247487	15.66	1319130	22.42
5	SB1-40'	3596942	10.12	3168466	15.66	1266976	22.42

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKC042.D Vial : 2
Acq On : 2 Nov 2007 10:54 am Operator : CR
Sample : CV067J26143 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr : 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	91	0.00
2	T	Dichlorodifluoromethane	50.000	43.617	12.8	74	0.00
3	P,T	Chloromethane	50.000	42.319	15.4	74	0.00
4	C,T	Vinyl chloride	50.000	42.134	15.7	80	-0.01
5	T	Bromomethane	50.000	33.178	33.6#	59	-0.01
6	T	Chloroethane	50.000	47.222	5.6	81	-0.01
7	T	Dichlorofluoromethane	50.000	44.185	11.6	81	-0.01
8	T	Trichlorofluoromethane	50.000	46.523	7.0	82	0.00
9	T	Acrolein	200.000	199.891	0.1	93	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	43.635	12.7	77	-0.01
11	T	Acetone	200.000	186.446	6.8	95	-0.01
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	44.763	10.5	80	-0.01
14	T	tert-Butyl alcohol	250.000	177.897	28.8#	68	-0.01
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	44.967	10.1	75	-0.01
17	T	Methylene chloride	50.000	41.869	16.3	83	0.00
18	T	Acrylonitrile	250.000	236.933	5.2	89	0.00
19	T	Carbon disulfide	50.000	41.812	16.4	73	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	27.119	45.8#	50	0.00
22	T	trans-1,2-Dichloroethene	50.000	44.042	11.9	79	0.00
23	T	Isopropyl ether (DIPE)	50.000	46.349	7.3	84	-0.01
24	T	Vinyl acetate	50.000	48.099	3.8	84	-0.01
25	P,T	1,1-Dichloroethane	50.000	44.853	10.3	80	-0.01
26	T	tert-Butyl ethyl ether (ETB	50.000	23.544	52.9#	43	0.00
27	T	2-Butanone	200.000	191.954	4.0	93	0.00
28	T	2,2-Dichloropropane	50.000	44.884	10.2	78	0.00
29	T	cis-1,2-Dichloroethene	50.000	45.204	9.6	81	0.00
30	C,T	Chloroform	50.000	45.062	9.9	81	-0.01
31	T	Bromochloromethane	50.000	45.937	8.1	86	-0.01
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	44.578	10.8	79	-0.01
34	T	1,1-Dichloropropene	50.000	44.489	11.0	78	-0.01
35	T	tert-Amyl methyl ether (TAM	50.000	24.739	50.5#	45	-0.01
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	49.761	0.5	89	-0.01
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	94	0.00
39	T	Carbon tetrachloride	50.000	43.829	12.3	78	0.00
40	T	1,2-Dichloroethane	50.000	44.487	11.0	84	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\07K02\RKC042.D Vial: 2
Acq On : 2 Nov 2007 10:54 am Operator: CR
Sample : CVO67J26143 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	43.467	13.1	80	-0.01
42	M,T	Trichloroethene	50.000	43.056	13.9	78	-0.01
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	45.401	9.2	84	0.00
45	T	Bromodichloromethane	50.000	44.471	11.1	82	-0.01
46	T	Dibromomethane	50.000	43.561	12.9	82	0.00
47	T	2-Chloroethyl vinyl ether	50.000	18.392	63.2#	34	-0.01
48	T	4-Methyl-2-pentanone	200.000	184.027	8.0	91	-0.01
49	T	cis-1,3-Dichloropropene	50.000	45.070	9.9	80	0.00
50	S	Toluene-d8	50.000	48.349	3.3	86	-0.01
51	C,TM	Toluene	50.000	43.391	13.2	79	0.00
52	T	Ethyl methacrylate	50.000	46.934	6.1	85	0.00
53	T	trans-1,3-Dichloropropene	50.000	41.823	16.4	83	0.00
54	T	2-Hexanone	200.000	197.356	1.3	97	-0.01
55	T	1,1,2-Trichloroethane	50.000	44.451	11.1	83	0.00
56	T	1,3-Dichloropropane	50.000	44.435	11.1	84	-0.01
57	T	Tetrachloroethene	50.000	42.469	15.1	78	0.00
58	T	Dibromochloromethane	50.000	46.935	6.1	82	0.00
59	T	1,2-Dibromoethane	50.000	43.852	12.3	83	-0.01
60	T	1-Chlorohexane	50.000	43.941	12.1	76	0.00
61	P,M	Chlorobenzene	50.000	43.252	13.5	81	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	44.494	11.0	80	0.00
63	C,T	Ethylbenzene	50.000	43.725	12.5	80	-0.01
64	T	m-Xylene & p-Xylene	100.000	89.587	10.4	80	0.00
65	T	o-Xylene	50.000	43.810	12.4	80	0.00
66	T	Styrene	50.000	43.964	12.1	81	-0.01
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	93	0.00
68	T	Isopropylbenzene	50.000	45.131	9.7	80	0.00
69	P,T	Bromoform	50.000	45.099	9.8	82	-0.01
70	P,T	1,1,2,2-Tetrachloroethane	50.000	44.619	10.8	84	0.00
71	S	4-Bromofluorobenzene	50.000	48.677	2.6	86	0.00
72	T	1,2,3-Trichloropropane	50.000	46.981	6.0	91	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	45.270	9.5	84	0.00
74	T	n-Propylbenzene	50.000	45.888	8.2	79	-0.01
75	T	Bromobenzene	50.000	45.892	8.2	81	0.00
76	T	1,3,5-Trimethylbenzene	50.000	45.806	8.4	81	0.00
77	T	2-Chlorotoluene	50.000	46.739	6.5	83	-0.01
78	T	4-Chlorotoluene	50.000	43.297	13.4	79	0.00
79	T	tert-Butylbenzene	50.000	45.019	10.0	78	0.00
80	T	1,2,4-Trimethylbenzene	50.000	45.695	8.6	80	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKC042.D Vial: 2
Acq On : 2 Nov 2007 10:54 am Operator: CR
Sample : CV067J26143 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	45.976	8.0	80	-0.01
82	T	p-Isopropyltoluene	50.000	44.652	10.7	79	-0.01
83	T	1,3-Dichlorobenzene	50.000	44.277	11.4	79	-0.01
84	T	1,4-Dichlorobenzene	50.000	44.745	10.5	81	0.00
85	T	n-Butylbenzene	50.000	41.029	17.9	79	0.00
86	T	1,2-Dichlorobenzene	50.000	44.320	11.4	81	-0.01
87	T	1,2-Dibromo-3-chloropropane	50.000	44.483	11.0	83	-0.01
88	T	1,2,4-Trichlorobenzene	50.000	47.799	4.4	84	-0.01
89	T	Hexachlorobutadiene	50.000	47.561	4.9	83	0.00
90	T	Naphthalene	50.000	36.788	26.4#	72	0.00
91	T	1,2,3-Trichlorobenzene	50.000	47.805	4.4	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKC042.D Vial : 2
Acq On : 2 Nov 2007 10:54 am Operator : CR
Sample : CV067J26143 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr : 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	91	0.00
2	T	Dichlorodifluoromethane	0.261	0.228	12.6	74	0.00
3	P,T	Chloromethane	0.345	0.292	15.4	74	0.00
4	C,T	Vinyl chloride	0.249	0.210	15.7	80	-0.01
5	T	Bromomethane	0.229	0.152	33.6#	59	-0.01
6	T	Chloroethane	0.185	0.175	5.4	81	-0.01
7	T	Dichlorofluoromethane	0.556	0.491	11.7	81	-0.01
8	T	Trichlorofluoromethane	0.360	0.335	6.9	82	0.00
9	T	Acrolein	0.020	0.020	0.0	93	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.248	0.217	12.5	77	-0.01
11	T	Acetone	0.062	0.058	6.5	95	-0.01
12	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
13	C,TM	1,1-Dichloroethene	0.447	0.400	10.5	80	-0.01
14	T	tert-Butyl alcohol	0.021	0.015	28.6#	68	-0.01
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.491	0.442	10.0	75	-0.01
17	T	Methylene chloride	0.460	0.386	16.1	83	0.00
18	T	Acrylonitrile	0.080	0.076	5.0	89	0.00
19	T	Carbon disulfide	1.224	1.023	16.4	73	0.00
20	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
21	T	tert-Butyl methyl ether (MT	0.527	0.286	45.7#	50#	0.00
22	T	trans-1,2-Dichloroethene	0.473	0.417	11.8	79	0.00
23	T	Isopropyl ether (DIPE)	0.900	0.834	7.3	84	-0.01
24	T	Vinyl acetate	0.428	0.411	4.0	84	-0.01
25	P,T	1,1-Dichloroethane	0.581	0.521	10.3	80	-0.01
26	T	tert-Butyl ethyl ether (ETB	0.693	0.327	52.8#	43#	0.00
27	T	2-Butanone	0.115	0.110	4.3	93	0.00
28	T	2,2-Dichloropropane	0.337	0.302	10.4	78	0.00
29	T	cis-1,2-Dichloroethene	0.494	0.446	9.7	81	0.00
30	C,T	Chloroform	0.530	0.477	10.0	81	-0.01
31	T	Bromochloromethane	0.272	0.250	8.1	86	-0.01
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	1,1,1-Trichloroethane	0.402	0.358	10.9	79	-0.01
34	T	1,1-Dichloropropene	0.147	0.131	10.9	78	-0.01
35	T	tert-Amyl methyl ether (TAM	0.670	0.332	50.4#	45#	-0.01
36	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
37	S	1,2-Dichloroethane-d4	0.233	0.232	0.4	89	-0.01
38	I	CHLOROBENZENE-D5	1.000	1.000	0.0	94	0.00
39	T	Carbon tetrachloride	0.403	0.353	12.4	78	0.00
40	T	1,2-Dichloroethane	0.343	0.305	11.1	84	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKC042.D Vial : 2
Acq On : 2 Nov 2007 10:54 am Operator : CR
Sample : CVO67J26143 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr : 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M,T	Benzene	1.563	1.359	13.1	80	-0.01
42	M,T	Trichloroethene	0.464	0.400	13.8	78	-0.01
43	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
44	C,T	1,2-Dichloropropane	0.403	0.366	9.2	84	0.00
45	T	Bromodichloromethane	0.437	0.388	11.2	82	-0.01
46	T	Dibromomethane	0.244	0.213	12.7	82	0.00
47	T	2-Chloroethyl vinyl ether	0.186	0.068	63.4#	34#	-0.01
48	T	4-Methyl-2-pentanone	0.385	0.310	19.5	91	-0.01
49	T	cis-1,3-Dichloropropene	0.543	0.490	9.8	80	0.00
50	S	Toluene-d8	1.276	1.234	3.3	86	-0.01
51	C,TM	Toluene	1.586	1.376	13.2	79	0.00
52	T	Ethyl methacrylate	0.374	0.351	6.1	85	0.00
53	T	trans-1,3-Dichloropropene	0.403	0.385	4.5	83	0.00
54	T	2-Hexanone	0.206	0.204	1.0	97	-0.01
55	T	1,1,2-Trichloroethane	0.298	0.265	11.1	83	0.00
56	T	1,3-Dichloropropane	0.496	0.440	11.3	84	-0.01
57	T	Tetrachloroethene	0.339	0.288	15.0	78	0.00
58	T	Dibromochloromethane	0.345	0.323	6.4	82	0.00
59	T	1,2-Dibromoethane	0.346	0.304	12.1	83	-0.01
60	T	1-Chlorohexane	0.605	0.532	12.1	76	0.00
61	P,M	Chlorobenzene	1.132	0.979	13.5	81	0.00
62	T	1,1,1,2-Tetrachloroethane	0.331	0.295	10.9	80	0.00
63	C,T	Ethylbenzene	1.768	1.546	12.6	80	-0.01
64	T	m-Xylene & p-Xylene	1.303	1.167	10.4	80	0.00
65	T	o-Xylene	1.285	1.126	12.4	80	0.00
66	T	Styrene	1.129	0.993	12.0	81	-0.01
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	93	0.00
68	T	Isopropylbenzene	4.179	3.772	9.7	80	0.00
69	P,T	Bromoform	0.562	0.507	9.8	82	-0.01
70	P,T	1,1,2,2-Tetrachloroethane	1.026	0.916	10.7	84	0.00
71	S	4-Bromofluorobenzene	1.144	1.114	2.6	86	0.00
72	T	1,2,3-Trichloropropane	0.167	0.157	6.0	91	0.00
73	T	trans-1,4-Dichloro-2-butene	0.203	0.184	9.4	84	0.00
74	T	n-Propylbenzene	5.346	4.906	8.2	79	-0.01
75	T	Bromobenzene	1.028	0.944	8.2	81	0.00
76	T	1,3,5-Trimethylbenzene	3.317	3.039	8.4	81	0.00
77	T	2-Chlorotoluene	3.001	2.805	6.5	83	-0.01
78	T	4-Chlorotoluene	2.904	2.515	13.4	79	0.00
79	T	tert-Butylbenzene	3.011	2.711	10.0	78	0.00
80	T	1,2,4-Trimethylbenzene	3.298	3.014	8.6	80	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKC042.D Vial: 2
Acq On : 2 Nov 2007 10:54 am Operator: CR
Sample : CV067J26143 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	4.864	4.472	8.1	80	-0.01
82	T	p-Isopropyltoluene	3.979	3.554	10.7	79	-0.01
83	T	1,3-Dichlorobenzene	2.006	1.776	11.5	79	-0.01
84	T	1,4-Dichlorobenzene	2.004	1.794	10.5	81	0.00
85	T	n-Butylbenzene	3.380	3.242	4.1	79	0.00
86	T	1,2-Dichlorobenzene	1.774	1.572	11.4	81	-0.01
87	T	1,2-Dibromo-3-chloropropane	0.154	0.137	11.0	83	-0.01
88	T	1,2,4-Trichlorobenzene	0.958	0.916	4.4	84	-0.01
89	T	Hexachlorobutadiene	0.556	0.529	4.9	83	0.00
90	T	Naphthalene	1.605	1.309	18.4	72	0.00
91	T	1,2,3-Trichlorobenzene	0.824	0.788	4.4	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKB062
Instrument ID: T-003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J344
BFB Injection Date : 11/03/07
BFB Injection Time : 01:25
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.52
75	30.0 - 60.0% of mass 95	54.93
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.55
173	Less than 2.0% of mass 174	0.16(0.3)1
174	Greater than 50% of mass 95	59.22
175	5.0 - 9.0% of mass 174	4.25(7.2)1
176	95.0 - 101.0% of mass 174	56.70(95.7)1
177	5.0 - 9.0% of mass 176	3.86(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV003J1657	RKB064	11/03/07	02:42
2	MBLK3S	V003K05B	RKB067	11/03/07	04:38
3	LCS3S	V003K05L	RKB065	11/03/07	03:21
4	LCD3S	V003K05C	RKB066	11/03/07	03:59
5	SB1-35'DL	J344-07T	RKB073	11/03/07	08:29

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RJB450
Instrument ID: T-003
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J344
Date Analyzed: 10/16/07
Time Analyzed: 17:00
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	4678888	10.74	4088832	16.53	1814103	23.85
	UPPER LIMIT	9357776	11.24	8177664	17.03	3628206	24.35
	LOWER LIMIT	2339444	10.24	2044416	16.03	907052	23.35
	SAMPLE ID						
1	VSTD050	4286841	10.73	3716312	16.52	1513900	23.85
2	MBLK3S	4151766	10.73	3854931	16.52	1482896	23.85
3	LCS3S	4073097	10.73	3515406	16.53	1379255	23.86
4	LCD3S	4487496	10.73	3857161	16.53	1516862	23.84
5	SB1-35'DL	3259259	10.73	3106878	16.52	1287524	23.84

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKB064.D Vial: 4
Acq On : 3 Nov 2007 2:42 am Operator: CR
Sample : CVO03J1657 50ppb Inst : TO03
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	92	0.00
2	T	Dichlorodifluoromethane	0.394	0.357	9.4	84	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	0#	0.00
4	P,T	Chloromethane	0.399	0.396	0.8	100	0.00
5	C,T	Vinyl chloride	0.298	0.302	-1.3	96	0.00
6	T	Bromomethane	0.306	0.271	11.4	85	0.00
7	T	Chloroethane	0.198	0.211	-6.6	98	0.00
8	T	Dichlorofluoromethane	0.672	0.745	-10.9	105	0.00
9	T	Trichlorofluoromethane	0.532	0.538	-1.1	93	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
11	T	Acrolein	0.049	0.038	22.4#	69	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.261	0.222	14.9	77	0.00
13	T	Acetone	0.093	0.092	1.1	91	0.00
14	C,T	1,1-Dichloroethene	0.596	0.625	-4.9	102	0.00
15	T	tert-Butyl alcohol	0.021	0.026	-23.8#	117	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.459	0.269	41.4#	51	0.00
18	T	Methyl acetate	0.282	0.032	88.7#	10#	0.00
19	T	Methylene chloride	0.530	0.578	-9.1	108	0.00
20	T	Carbon disulfide	1.366	1.138	16.7	77	0.00
21	T	Acrylonitrile	0.105	0.102	2.9	86	0.00
22	T	tert-Butyl methyl ether (MT	0.429	0.610	-42.2#	126	0.00
23	T	trans-1,2-Dichloroethene	0.560	0.576	-2.9	97	0.00
24	T	Isopropyl ether (DIPE)	1.140	1.307	-14.6	105	0.00
25	T	Vinyl acetate	0.669	0.450	32.7#	59	0.00
26	P,T	1,1-Dichloroethane	0.674	0.725	-7.6	103	0.00
27	T	tert-Butyl ethyl ether (ETB	0.510	0.763	-49.6#	134	0.00
28	T	2-Butanone	0.153	0.147	3.9	82	0.00
29	T	2,2-Dichloropropane	0.335	0.315	6.0	83	0.00
30	T	cis-1,2-Dichloroethene	0.581	0.618	-6.4	100	0.00
31	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
32	C,T	Chloroform	0.694	0.715	-3.0	98	0.00
33	T	Bromochloromethane	0.302	0.344	-13.9	106	0.00
34	T	Tetrahydrofuran	0.094	0.090	4.3	90	0.00
35	T	1,1,1-Trichloroethane	0.525	0.521	0.8	91	0.00
36	T	1,1-Dichloropropene	0.181	0.175	3.3	92	0.00
37	T	Cyclohexane	1.121	0.016	98.6#	2#	0.04
38	T	tert-Amyl methyl ether (TAM	0.460	0.630	-37.0#	123	0.00
39	S	1,2-Dichloroethane-d4	0.355	0.351	1.1	86	0.00
40	I	CHLOROBENZENE-D5	1.000	1.000	0.0	91	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKB064.D Vial: 4
Acq On : 3 Nov 2007 2:42 am Operator: CR
Sample : CVO03J1657 50ppb Inst : TO03
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.452	0.335	25.9#	63	0.00
42	T	1,2-Dichloroethane	0.478	0.508	-6.3	92	0.00
43	T	Benzene	1.633	1.677	-2.7	93	0.00
44	T	Trichloroethene	0.436	0.407	6.7	85	0.00
45	T	Methylcyclohexane	0.682	0.006	99.1#	1#	-0.14
46	C,T	1,2-Dichloropropane	0.431	0.448	-3.9	97	0.00
47	T	Bromodichloromethane	0.551	0.493	10.5	80	0.00
48	T	Dibromomethane	0.247	0.209	15.4	76	0.00
49	T	2-Chloroethyl vinyl ether	0.109	0.128	-17.4	97	0.00
50	T	4-Methyl-2-pentanone	0.494	0.458	7.3	91	0.00
51	T	cis-1,3-Dichloropropene	0.650	0.498	23.4#	69	0.00
52	S	Toluene-d8	1.270	1.224	3.6	81	0.00
53	C,T	Toluene	1.577	1.510	4.2	87	0.00
54	T	Ethyl methacrylate	0.476	0.493	-3.6	91	0.00
55	T	trans-1,3-Dichloropropene	0.515	0.429	16.7	73	0.00
56	T	2-Hexanone	0.282	0.299	-6.0	87	0.00
57	T	1,1,2-Trichloroethane	0.317	0.298	6.0	84	0.00
58	T	1,3-Dichloropropane	0.594	0.515	13.3	79	0.00
59	T	Tetrachloroethene	0.334	0.264	21.0#	72	0.00
60	T	Dibromochloromethane	0.368	0.293	20.4#	69	0.00
61	T	1,2-Dibromoethane	0.329	0.212	35.6#	59	0.00
62	T	1-Chlorohexane	0.658	0.576	12.5	82	0.00
63	P	Chlorobenzene	1.011	0.931	7.9	84	0.00
64	T	1,1,1,2-Tetrachloroethane	0.337	0.313	7.1	82	0.00
65	C,T	Ethylbenzene	1.830	1.796	1.9	88	0.00
66	T	m-Xylene & p-Xylene	1.412	1.396	1.1	89	0.00
67	T	o-Xylene	1.433	1.354	5.5	87	0.00
68	T	Styrene	1.089	0.991	9.0	84	0.00
69	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	83	0.00
70	T	Isopropylbenzene	3.761	3.743	0.5	85	0.00
71	P,T	Bromoform	0.511	0.377	26.2#	60	0.00
72	P,T	1,1,2,2-Tetrachloroethane	1.094	1.027	6.1	79	0.00
73	S	4-Bromofluorobenzene	1.201	1.232	-2.6	84	0.00
74	T	1,2,3-Trichloropropane	0.206	0.213	-3.4	88	0.00
75	T	trans-1,4-Dichloro-2-butene	0.213	0.179	16.0	68	0.00
76	T	n-Propylbenzene	5.109	5.285	-3.4	86	0.00
77	T	Bromobenzene	0.919	0.840	8.6	78	0.00
78	T	1,3,5-Trimethylbenzene	3.138	3.074	2.0	85	0.00
79	T	2-Chlorotoluene	2.423	2.435	-0.5	87	0.00
80	T	4-Chlorotoluene	3.030	3.047	-0.6	88	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKB064.D
Acq On : 3 Nov 2007 2:42 am
Sample : CVO03J1657 50ppb
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA
MS Integration Params: 524INT.P

Vial: 4
Operator: CR
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	tert-Butylbenzene	2.686	2.583	3.8	84	0.00
82	T	1,2,4-Trimethylbenzene	3.097	2.990	3.5	83	0.00
83	T	sec-Butylbenzene	4.322	4.290	0.7	85	0.00
84	T	p-Isopropyltoluene	3.411	3.193	6.4	80	0.00
85	T	1,3-Dichlorobenzene	1.740	1.563	10.2	77	0.00
86	T	1,4-Dichlorobenzene	1.758	1.559	11.3	76	0.00
87	T	n-Butylbenzene	3.530	3.499	0.9	83	0.00
88	T	1,2-Dichlorobenzene	1.592	1.445	9.2	77	0.00
89	T	1,2-Dibromo-3-chloropropane	0.174	0.129	25.9#	59	0.00
90	T	1,2,4-Trichlorobenzene	0.919	0.731	20.5#	67	0.00
91	T	Hexachlorobutadiene	0.584	0.443	24.1#	66	0.00
92	T	Naphthalene	1.780	1.563	12.2	71	0.00
93	T	1,2,3-Trichlorobenzene	0.802	0.657	18.1	68	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKB064.D
Acq On : 3 Nov 2007 2:42 am
Sample : CV003J1657 50ppb
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA
MS Integration Params: 524INT.P

Vial: 4
Operator: CR
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	92	0.00
2	T	Dichlorodifluoromethane	50.000	45.307	9.4	84	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	0	0.00
4	P,T	Chloromethane	50.000	49.599	0.8	100	0.00
5	C,T	Vinyl chloride	50.000	50.638	-1.3	96	0.00
6	T	Bromomethane	50.000	44.243	11.5	85	0.00
7	T	Chloroethane	50.000	53.514	-7.0	98	0.00
8	T	Dichlorofluoromethane	50.000	55.411	-10.8	105	0.00
9	T	Trichlorofluoromethane	50.000	50.535	-1.1	93	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
11	T	Acrolein	200.000	173.394	13.3	69	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	50.000	42.434	15.1	77	0.00
13	T	Acetone	200.000	197.470	1.3	91	0.00
14	C,T	1,1-Dichloroethene	50.000	52.460	-4.9	102	0.00
15	T	tert-Butyl alcohol	250.000	318.009	-27.2#	117	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	50.000	29.327	41.3#	51	0.00
18	T	Methyl acetate	50.000	5.592	88.8#	10	0.00
19	T	Methylene chloride	50.000	54.596	-9.2	108	0.00
20	T	Carbon disulfide	50.000	41.638	16.7	77	0.00
21	T	Acrylonitrile	250.000	242.928	2.8	86	0.00
22	T	tert-Butyl methyl ether (MT	50.000	71.108	-42.2#	126	0.00
23	T	trans-1,2-Dichloroethene	50.000	51.364	-2.7	97	0.00
24	T	Isopropyl ether (DIPE)	50.000	57.332	-14.7	105	0.00
25	T	Vinyl acetate	50.000	33.639	32.7#	59	0.00
26	P,T	1,1-Dichloroethane	50.000	53.772	-7.5	103	0.00
27	T	tert-Butyl ethyl ether (ETB	50.000	74.777	-49.6#	134	0.00
28	T	2-Butanone	200.000	192.009	4.0	82	0.00
29	T	2,2-Dichloropropane	50.000	47.087	5.8	83	0.00
30	T	cis-1,2-Dichloroethene	50.000	53.154	-6.3	100	0.00
31	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
32	C,T	Chloroform	50.000	51.477	-3.0	98	0.00
33	T	Bromochloromethane	50.000	56.827	-13.7	106	0.00
34	T	Tetrahydrofuran	50.000	48.228	3.5	90	0.00
35	T	1,1,1-Trichloroethane	50.000	49.587	0.8	91	0.00
36	T	1,1-Dichloropropene	50.000	48.450	3.1	92	0.00
37	T	Cyclohexane	50.000	-15.451	130.9#	2	0.04
38	T	tert-Amyl methyl ether (TAM	50.000	68.475	-36.9#	123	0.00
39	S	1,2-Dichloroethane-d4	50.000	49.420	1.2	86	0.00
40	I	CHLOROBENZENE-D5	50.000	50.000	0.0	91	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKB064.D Vial: 4
Acq On : 3 Nov 2007 2:42 am Operator: CR
Sample : CV003J1657 50ppb Inst : TO03
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	50.000	37.066	25.9#	63	0.00
42	T	1,2-Dichloroethane	50.000	53.153	-6.3	92	0.00
43	T	Benzene	50.000	51.333	-2.7	93	0.00
44	T	Trichloroethene	50.000	46.744	6.5	85	0.00
45	T	Methylcyclohexane	50.000	0.438	99.1#	1	-0.14
46	C,T	1,2-Dichloropropane	50.000	51.906	-3.8	97	0.00
47	T	Bromodichloromethane	50.000	44.708	10.6	80	0.00
48	T	Dibromomethane	50.000	42.461	15.1	76	0.00
49	T	2-Chloroethyl vinyl ether	50.000	58.414	-16.8	97	0.00
50	T	4-Methyl-2-pentanone	200.000	218.295	-9.1	91	0.00
51	T	cis-1,3-Dichloropropene	50.000	38.289	23.4#	69	0.00
52	S	Toluene-d8	50.000	48.194	3.6	81	0.00
53	C,T	Toluene	50.000	47.874	4.3	87	0.00
54	T	Ethyl methacrylate	50.000	51.790	-3.6	91	0.00
55	T	trans-1,3-Dichloropropene	50.000	41.595	16.8	73	0.00
56	T	2-Hexanone	200.000	212.208	-6.1	87	0.00
57	T	1,1,2-Trichloroethane	50.000	46.946	6.1	84	0.00
58	T	1,3-Dichloropropane	50.000	43.365	13.3	79	0.00
59	T	Tetrachloroethene	50.000	39.470	21.1#	72	0.00
60	T	Dibromochloromethane	50.000	39.796	20.4#	69	0.00
61	T	1,2-Dibromoethane	50.000	32.229	35.5#	59	0.00
62	T	1-Chlorohexane	50.000	43.783	12.4	82	0.00
63	P	Chlorobenzene	50.000	46.055	7.9	84	0.00
64	T	1,1,1,2-Tetrachloroethane	50.000	46.377	7.2	82	0.00
65	C,T	Ethylbenzene	50.000	49.086	1.8	88	0.00
66	T	m-Xylene & p-Xylene	100.000	98.878	1.1	89	0.00
67	T	o-Xylene	50.000	47.230	5.5	87	0.00
68	T	Styrene	50.000	45.483	9.0	84	0.00
69	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	83	0.00
70	T	Isopropylbenzene	50.000	49.758	0.5	85	0.00
71	P,T	Bromoform	50.000	36.842	26.3#	60	0.00
72	P,T	1,1,2,2-Tetrachloroethane	50.000	46.951	6.1	79	0.00
73	S	4-Bromofluorobenzene	50.000	51.287	-2.6	84	0.00
74	T	1,2,3-Trichloropropane	50.000	51.717	-3.4	88	0.00
75	T	trans-1,4-Dichloro-2-butene	50.000	42.023	16.0	68	0.00
76	T	n-Propylbenzene	50.000	51.725	-3.5	86	0.00
77	T	Bromobenzene	50.000	45.689	8.6	78	0.00
78	T	1,3,5-Trimethylbenzene	50.000	48.989	2.0	85	0.00
79	T	2-Chlorotoluene	50.000	50.259	-0.5	87	0.00
80	T	4-Chlorotoluene	50.000	50.287	-0.6	88	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKB064.D Vial: 4
Acq On : 3 Nov 2007 2:42 am Operator: CR
Sample : CVO03J1657 50ppb Inst : TO03
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03J16.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Wed Oct 17 09:56:09 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	tert-Butylbenzene	50.000	48.086	3.8	84	0.00
82	T	1,2,4-Trimethylbenzene	50.000	48.276	3.4	83	0.00
83	T	sec-Butylbenzene	50.000	49.623	0.8	85	0.00
84	T	p-Isopropyltoluene	50.000	46.813	6.4	80	0.00
85	T	1,3-Dichlorobenzene	50.000	44.895	10.2	77	0.00
86	T	1,4-Dichlorobenzene	50.000	44.331	11.3	76	0.00
87	T	n-Butylbenzene	50.000	49.550	0.9	83	0.00
88	T	1,2-Dichlorobenzene	50.000	45.377	9.2	77	0.00
89	T	1,2-Dibromo-3-chloropropane	50.000	37.035	25.9#	59	0.00
90	T	1,2,4-Trichlorobenzene	50.000	39.799	20.4#	67	0.00
91	T	Hexachlorobutadiene	50.000	37.910	24.2#	66	0.00
92	T	Naphthalene	50.000	43.911	12.2	71	0.00
93	T	1,2,3-Trichlorobenzene	50.000	41.003	18.0	68	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☒ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 10-16-07 ☒ 5-ml Purge ☐ 25-ml Purge

Book # A03 -033

BATCH VO03J16 05

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RJB444	BEB03J47	2µl				T/CHECK
02	445	48					
03	446	VO03J1601	.2/.1/.01/.01µl				8260 / Ketone / TBA 2ppb / 8ppb / 10ppb
04	447	02	.5/.4/.2/.1µl				5 / 20 / 25
05	448	03	1/.8/.2/.2µl				10 / 40 / 50
06	449	04	2/1.6/.4/.2µl				20 / 80 / 100
07	450	05	5/4/1/1µl				50 / 200 / 250
08	451	06	8/6.4/1.6/1.6µl				80 / 320 / 400
09	452	07	10/8/2/2µl				100 / 400 / 500
10	453	08	20/16/4/4µl				200 / 800 / 1000
11	454	09	30/24/6/6µl				300 / 1200 / 1500
12	455	Rinse	50ml	1.0			
13	456	VO03J48B					
14	457	IV0003J1601	5/4/1/1µl				50ppb / 200ppb / 250ppb
15	458	02					
16	459	Rinse	50ml	1.0			
17							
18							
19							
20							
21							
22							
23							
24							
25							AS 10-17-07

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	10-16-07
ICAL ID	VO03J16

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC gases	SVI-13-09-3	250
DCC 8260	-10-3	50/250
DCC Ketone 3 add'l(s)	-11-2 -02-2	250 250
BFB	-05-3	50
IS/SURR. IS SS	-04-3 -03-2	250
LCS gases	-12-2	250
LCS 8260	-12-3	50/250
LCS Ketone 3 add'l(s)	SVC-11-94-2	250

SOLVENT	ID
METHANOL	
DATA FILE	07J16

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO03	

Comments:

Analyzed By: AS

Date Disposed: CN 10/17/08

Disposed By: CN

2093

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 10/17/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A03 -033

BATCH CV003J1603

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RJB479	BPB03J51	2ul				
02	480	BPB03J52	2ul				12:28 PM
03	481	IV003J1603	1/4/5ul				
04	482	CV003J1603	1/4/5ul			/	
05	483	V003J52L	0.4/1.6/2ul			/	
06	484	C	0.4/1.6/2ul			/	
07	485	B	5g			/	
08	486	VPJ005D	5g			/	
09	487	07J128-21R	5.4g	0.93		/	
10	488	-22R	6.7g	0.75		/	
11	489	07J130-02R	4.7g	1.1		/	
12	490	-03R	4.6g	1.1		/	
13	491	-04R	5.4g	0.93		/	
14	492	07J131-01R	5.0g	1.0		/	
15	493	-03R	4.6g	1.1		/	
16	494	07J061-11R	5.0g	1.0		/	
17	495	-12R		1.0		/	
18	496	-13R		1.0		/	
19	497	-14R		1.0		/	11:06 PM
20							
21							
22							
23							
24							
25							cr 10/18/07

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	10/16/07
ICAL ID	V003J16

STANDARDS NAME	ID	CONC. (mg/L)
DCC	SV1-13-9-3	
DCC	-10-3	
DCC	-11-2	
BFB	-5-3	
IS/SURR.	-4-3 -5-2	50/15
LCS	-12-2	
LCS	-12-3	
LCS	-13-2	

SOLVENT	ID
METHANOL	
DATA FILE	07J17

Electronic Data Archival Location	Date
HPCHEM_VOA/TO03	

Comments:

Analyzed By: cr

Date Disposed: 10/18/07

Disposed By: cr

2094

ANALYSIS LOG FOR VOLATILES

EMAX LABORATORIES, INC.

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 10/26/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH V067J205

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		BJC749	BFB07J68	2mL	1/4	1/4	1/4	
02		745	69					1:40pm
03		746	V067J261	.04/.2/.1/.6mL				2/5/10 ppb 8260
04		747	2	.1/.5/.4mL				5/20/25 ppb
05		748	3	.2/1.0/.8mL				10/40/50 ppb
06		749	4	.4/2/1.6mL				20/80/100 ppb
07		750	5	1/5/4mL				50/200/250 ppb
08		751	6	1.6/8/6.4mL				80/320/400 ppb
09		752	7	2/10/8mL				100/400/500 ppb
10		753	8	4/20/16mL				200/800/1000 ppb
11		754	9	6/30/24mL				300/1200/1500 ppb
12		755	IS/SS	1mL				
13		756	V067J69B	5mL				
14		757	V067J2610	1/5/4mL				50/200/250 ppb
15		758	V067J261	1/5/4mL				50/200/250 ppb
16		759	2					10:27pm
17		760	RINSE	5mL				
18								
19								
20								
21								
22								
23								
24								
25								MH 10/27/07

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	10/26/07
ICAL ID	V067J26

STANDARDS

NAME	ID	CONC. (mg/L)
DCC gases	SV1-13-20-1	750 ppm
DCC 8260	↓ -2	50/250
DCC Methane	↓ -3	250
BFB	SV1-13-19-3	50
IS/SURR.	SV1-13-16-3	250
LCS gases	SV1-13-21-1	250
LCS 8260	↓ -2	50/250
LCS Methane	↓ -3	250

SOLVENT	ID
METHANOL	IS SV1-13-04-3 SS SV1-13-05-2
DATA FILE	07J76

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: MH / CR

Date Disposed: 10/27/07

Disposed By:

2695

ANALYSIS LOG FOR VOLATILES

EMAX LABORATORIES, INC.

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Book # A03 -033

Start Date: 11/7/07 ☑ 5-ml Purge ☐ 25-ml Purge

BATCH (V003J1657)

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		KKB 061	BFB03K04	2 uL				1:25am
02		062	↓ 05	↓				
03		063	CV003J1656	1/4/5 uL				
04		064	↓ 5T	↓				
05		065	V003K05L	.4/2/1/0.1 L			✓	
06		066	↓ C	↓			✓	
07		067	↓ B	100 uL	50		✓	
08		068	VMT018SB				✓	
09		069	VMT020SB				✓	
10		070	↓				✓	
11		071	07J299-11T				✓	
12		072	07J349-17T				✓	
13		073	07J344-07T		39		✓	
14		074	↓ -08T		40		✓	
15		075	07J323-05T		50		✓	
16		076	07J338-02	↓	↓		✓	
17		077	-03	10 uL	5000		✓	
18		078	-01T	1 uL	50000		✓	
19		079	↓ -01T	10 uL	50000		✓	
20		080	07J299-12T	50 uL	83		✓	12:55pm
21		081	KWSF					
22		082	KWSF					
23								
24								
25						MH	11/7/07	

DF 11.14.07

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	10/16/07
ICAL ID	V003J16

STANDARDS

NAME	ID	CONC. (mg/L)
DCC	IU-13-9-3	
DCC	-10-3	
DCC	-11-2	
BFB	-5-3	
IS/SURR.	-4-3 -5-2	50/200
LCS	-12-2	
LCS	-12-3	
LCS	-13-2	

SOLVENT	ID
METHANOL	
DATA FILE	07K02

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO03	

Comments:

Analyzed By: MH / CR

Date Disposed: 11/5/07

Disposed By: MH

2996

ANALYSIS LOG FOR VOLATILES

EMAX LABORATORIES, INC.

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11/1/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH V067 J26141

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKC021	BF1367K02L	2 uL				
02	022	↓ K03	↓				10:14 pm
03	023	CV067 J26141	1/1/5 uL				
04	024	↓ 14L	↓				
05	025	V067K03L	1/2/16 uL				
06	026	↓ C	↓				
07	027	↓ B	5.0g				
08	028	07J349-21	4.8g	1.0		✓	
09	029	07J344-03	↓	↓		✓	
10	030	-04	5.9g	0.85		✓	
11	031	-05	4.6g	1.1		✓	
12	032	-06	4.9g	1.0		✓	
13	033	-07	↓	↓		✓	nn @ 50X
14	034	-08	6.6g	0.76		✓	nn@50X/1X
15	035	-09	6.5g	0.77		✓	
16	036	-10	6.0g	0.83		✓	nn@ 1X
17	037	-11	5.8g	0.86		✓	nn@ 1X
18	038	-12	6.3g	0.79		✓	
19	039	-07M	6.9g	0.72		✓	
20	040	-07S	5.7g	0.88		✓	11/2/07 9:29am
21							
22							
23							
24							
25							MH 11/2/07

Instrument No.		67
INITIAL CALIBRATION REFERENCE		
DATE	10/26/07	
ICAL ID	V067 J26	
STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SV1-13-20-1	
DCC	↓ -2	
DCC	↓ -3	
BFB	SV1-13-19-3	
IS/SURR.	SV1-13-16-3	50/250
LCS	SV1-13-21-1	
LCS	↓ -2	
LCS	↓ -3	
SOLVENT	ID	
METHANOL		
DATA FILE	07K01	
Electronic Data Archival		
Location		Date
HPCHEM_VOA/TO67		

Comments:

Analyzed By: MH /CN

Date Disposed: 11/2/07

Disposed By: MH

2067

ANALYSIS LOG FOR VOLATILES

EMAX LABORATORIES, INC.

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11/1/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH CV067J1143

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	KKC041	BFB67K04	2 uL				10:17am
02	042	CV067J261143	1/4/5 uL				
03	043	↓ 144	↓				
04	044	V067K04L	.1/.2/1.6 uL				
05	045	C	↓				
06	046	B	5.0g				
07	047	VPJ0315B	5.5g	0.91		–	
08	048	07J344-01R	5.39	0.94		–	
09	049	↓ -10R	6.4g	0.78		–	
10	050	↓ -11R	6.5g	0.77		–	
11	051	07J365-07	5.6g	0.89		–	
12	052	-07a	5.8g	0.86		–	
13	053	-07S	5.6g	0.89		–	
14	054	-01	4.6g	1.09		–	
15	055	-02	5.5g	0.85		–	
16	056	-03	5.0g	1.0		–	
17	057	-04	↓	↓		–	nn@50X
18	058	-05	5.1g	0.98		–	nn@1X
19	059	-06	5.4g	0.93		–	
20	060	-08	5.1g	0.98		–	10:09am
21	061	-09	5.1g	0.86		–	KK@1X/0.45µm nn@1X
22							
23							
24							
25						MH	11/3/07

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	10/26/07
ICAL ID	V067J26

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SV1-13-20-1	
DCC	↓ -2	
DCC	↓ -3	
BFB	SV1-13-19-3	
IS/SURR.	SV1-13-16-3	10/25
LCS	SV1-13-21-1	
LCS	↓ -2	
LCS	↓ -3	

SOLVENT	ID
METHANOL	
DATA FILE	07K02

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: MH

Date Disposed: 11/3/07

Disposed By: MH

2098

EXTRACTION LOGS

PRESERVATION LOG FOR VOLATILES

METHOD [X] 5035 **Book #** E02-018

Matrix: SOIL STARTING DATE 11/1/07 16:20 Ending Date 11/1/07 17:10

Lab Sample ID	W1 (g)	Wf (g)	Ws(g)	D.F.
BLANK	30.0	35.0	5.0	1.00
07J344-03	31.8	36.6	4.8	1.04
07J344-04	31.9	37.8	5.9	0.85
07J344-05	31.9	36.5	4.6	1.09
07J344-06	31.9	36.8	4.9	1.02
07J344-07	31.8	36.7	4.9	1.02
07J344-07M	31.9	38.8	6.9	0.72
07J344-07S	31.9	37.6	5.7	0.88
07J344-08	31.7	38.3	6.6	0.76
07J344-09	31.9	38.4	6.5	0.77
07J344-10	31.9	37.9	6.0	0.83
07J344-11	31.9	37.7	5.8	0.86
07J344-12	31.9	38.2	6.3	0.79
07J344-03R	31.9	36.2	4.3	1.16
07J344-04R	31.8	38.6	6.8	0.74
07J344-05R	31.8	37.2	5.4	0.93
07J344-06R	31.9	37.8	5.9	0.85
07J344-07R	31.7	38.0	6.3	0.79
07J344-08R	31.8	37.1	5.3	0.94
07J344-07U	31.9	37.0	5.1	0.98
07J344-07V	32.0	38.5	6.5	0.77
07J344-09R	31.8	38.3	6.5	0.77
07J344-10R	32.0	38.4	6.4	0.78
07J344-11R	31.7	38.2	6.5	0.77
07J344-12R	32.0	37.4	5.4	0.93

Standards / Reagents	ID / Lot#	Amount Added (ml)
SURROGATE		
LCS/MS		
REAGENT (WATER)		5.0 ML
NaHS04 H20		
SAND	SW1A-03-331	5.0G

DISPENSER CHECK WITH 5.0 ML

VOLUMETRIC FLASK.

***J344 PRE-WEIGHED VIALS**

Prepared By: GL / CR

Standard Added By:

Witnessed By:

Checked By: DH

Extract Received By:

Extract Location

2100

EMAX LABORATORIES, INC.

EXTRACTION LOG FOR VOLATILES

METHOD [X] **Book #** E01-024

Matrix: SOIL STARTING DATE/TIME 11/01/07 16:20 ENDING DATE/TIME 11/1/07 17:10

Lab Sample ID *	W1 (g)	Wf (g)	Ws(g)	Extract Vol. (ml)	Prep. Factor
BLANK	30.1	34.2	4.10	5.00	1.22
07J344 - 03T	29.4	35.2	5.80	5.00	0.86
07J344 - 04T	29.40	34.0	4.60	5.00	1.09
07J344 - 05T	29.5	34.3	4.80	5.00	1.04
07J344 - 06T	29.5	35.7	6.20	5.00	0.81
07J344 - 07T	29.5	35.9	6.40	5.00	0.78
07J344 - 07TM	29.6	35.5	5.90	5.00	0.85
07J344 - 07TS	29.4	36.1	6.70	5.00	0.75
07J344 - 08T	29.6	35.9	6.30	5.00	0.79
07J344 - 09T	29.8	35.7	5.90	5.00	0.85
07J344 - 10T	29.5	35.7	6.20	5.00	0.81
07J344 - 11T	29.9	40.0	10.10	5.00	0.50
07J344 - 12T	30.1	36.3	6.20	5.00	0.81

Standards / Reagents	ID / Lot#	Amount Added (ml)
SAND	SV1A-03-331	5.0G
Methanol/Surr.	SV1-13-10-2	5.0ml

DISPENSER CHECK WITH 5.0 ML VOLUMETRIC FLASK.

*J344 PRE-WEIGHED VIALS

Prepared By: GL / CR

Standard Added By:

Witnessed By:

Checked By: DH

Extract Location: VW05

Extract Received By: CR

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METALS / MERCURY

SDG#: 07J344

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J344

METHOD 3010A/3050B/6010B
METALS BY ICP

One (1) water and ten (10) soil samples were received on 10/26/07 for Metals analysis by Method 3010A/3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution/Post-Analytical Spike

Samples J348-03 and J370-01 from another SDG were analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample J344-07 was spiked. All recoveries were within QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
METALS BY ICP

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J344
Instrument ID : T-ID8

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPJ062WB	1	NA	11/14/0702:37	10/30/0713:00	ID8K011082	ID8K011078	IPJ062W	Method Blank
LCS1W	IPJ062WL	1	NA	11/14/0702:42	10/30/0713:00	ID8K011083	ID8K011078	IPJ062W	Lab Control Sample (LCS)
LCD1W	IPJ062WC	1	NA	11/14/0702:48	10/30/0713:00	ID8K011084	ID8K011078	IPJ062W	LCS Duplicate
U8-129AS	J348-03A	1	NA	11/14/0702:53	10/30/0713:00	ID8K011085	ID8K011078	IPJ062W	Analytical Spike Sample
U8-129	J348-03	1	NA	11/14/0702:58	10/30/0713:00	ID8K011086	ID8K011078	IPJ062W	Field Sample
U8-129DL	J348-03J	5	NA	11/14/0703:04	10/30/0713:00	ID8K011087	ID8K011078	IPJ062W	Diluted Sample
LEB-102607	J344-02	1	NA	11/14/0704:54	10/30/0713:00	ID8K011107	ID8K011102	IPJ062W	Field Sample

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPJ063SB	1	NA	11/06/0722:36	10/30/0713:10	ID8K003028	ID8K003021	IPJ063S	Method Blank
LCS1S	IPJ063SL	1	NA	11/06/0722:42	10/30/0713:10	ID8K003029	ID8K003021	IPJ063S	Lab Control Sample (LCS)
LCD1S	IPJ063SC	1	NA	11/06/0722:47	10/30/0713:10	ID8K003030	ID8K003021	IPJ063S	LCS Duplicate
BIN-614803-SOAS	J370-01A	1	16.6	11/06/0722:52	10/30/0713:10	ID8K003031	ID8K003021	IPJ063S	Analytical Spike Sample
BIN-614803-SO	J370-01	1	16.6	11/06/0723:14	10/30/0713:10	ID8K003035	ID8K003033	IPJ063S	Field Sample
BIN-614803-SODL	J370-01J	5	16.6	11/06/0723:19	10/30/0713:10	ID8K003036	ID8K003033	IPJ063S	Diluted Sample
SB1-15'	J344-03	1	9.3	11/07/0700:08	10/30/0713:10	ID8K003045	ID8K003040	IPJ063S	Field Sample
SB1-15'DUP	J344-04	1	9.3	11/07/0700:14	10/30/0713:10	ID8K003046	ID8K003040	IPJ063S	Field Sample
SB1-18'	J344-05	1	9.0	11/07/0700:19	10/30/0713:10	ID8K003047	ID8K003040	IPJ063S	Field Sample
SB1-20'	J344-06	1	7.9	11/07/0700:25	10/30/0713:10	ID8K003048	ID8K003040	IPJ063S	Field Sample
SB1-35'	J344-07	1	9.5	11/07/0700:47	10/30/0713:10	ID8K003052	ID8K003050	IPJ063S	Field Sample
SB1-35'MS	J344-07M	1	9.5	11/07/0700:52	10/30/0713:10	ID8K003053	ID8K003050	IPJ063S	Matrix Spike Sample (MS)
SB1-35'MSD	J344-07S	1	9.5	11/07/0700:58	10/30/0713:10	ID8K003054	ID8K003050	IPJ063S	MS Duplicate (MSD)
SB1-40'	J344-08	1	9.8	11/07/0701:03	10/30/0713:10	ID8K003055	ID8K003050	IPJ063S	Field Sample
SB1-45'	J344-09	1	8.3	11/07/0701:08	10/30/0713:10	ID8K003056	ID8K003050	IPJ063S	Field Sample
SB1-50'	J344-10	1	8.0	11/07/0701:14	10/30/0713:10	ID8K003057	ID8K003050	IPJ063S	Field Sample
SB1-50'DUP	J344-11	1	9.0	11/07/0701:19	10/30/0713:10	ID8K003058	ID8K003050	IPJ063S	Field Sample
SB6-55'	J344-12	1	11.0	11/07/0701:25	10/30/0713:10	ID8K003059	ID8K003050	IPJ063S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 08:45
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:00
Sample ID:	LEB-102607	Date Analyzed:	11/14/07 04:54
Lab Samp ID:	J344-02	Dilution Factor:	1
Lab File ID:	ID8K011107	Matrix :	WATER
Ext Btch ID:	IPJ062W	% Moisture :	NA
Calib. Ref.:	ID8K011102	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	0.0374	0.0100	0.00500

Revised Report

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 09:05
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-15'	Date Analyzed:	11/07/07 00:08
Lab Samp ID:	J344-03	Dilution Factor:	1
Lab File ID:	ID8K003045	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	9.3
Calib. Ref.:	ID8K003040	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.21
Arsenic	10.5	1.10	0.441
Barium	196	1.10	0.221
Beryllium	0.739J	1.10	0.221
Cadmium	ND	1.10	0.551
Chromium	36.3	2.21	1.10
Cobalt	14.2	2.21	1.10
Copper	29.3	2.21	0.551
Lead	7.16	1.10	0.221
Molybdenum	ND	5.51	0.551
Nickel	22.5	2.21	1.10
Selenium	1.94	1.10	0.551
Silver	ND	2.21	0.551
Thallium	1.11	1.10	0.551
Vanadium	91.7	2.21	0.551
Zinc	64.0	1.10	0.551

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 09:10
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-15'DUP	Date Analyzed:	11/07/07 00:14
Lab Samp ID:	J344-04	Dilution Factor:	1
Lab File ID:	ID8K003046	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	9.3
Calib. Ref.:	ID8K003040	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.21
Arsenic	5.53	1.10	0.441
Barium	84.3	1.10	0.221
Beryllium	0.467J	1.10	0.221
Cadmium	ND	1.10	0.551
Chromium	26.9	2.21	1.10
Cobalt	10.6	2.21	1.10
Copper	21.0	2.21	0.551
Lead	4.91	1.10	0.221
Molybdenum	ND	5.51	0.551
Nickel	16.4	2.21	1.10
Selenium	1.22	1.10	0.551
Silver	ND	2.21	0.551
Thallium	0.788J	1.10	0.551
Vanadium	55.1	2.21	0.551
Zinc	48.6	1.10	0.551

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 09:12
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-18'	Date Analyzed:	11/07/07 00:19
Lab Samp ID:	J344-05	Dilution Factor:	1
Lab File ID:	ID8K003047	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	9.0
Calib. Ref.:	ID8K003040	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.20
Arsenic	8.88	1.10	0.440
Barium	99.0	1.10	0.220
Beryllium	0.534J	1.10	0.220
Cadmium	ND	1.10	0.549
Chromium	57.1	2.20	1.10
Cobalt	15.1	2.20	1.10
Copper	29.5	2.20	0.549
Lead	6.46	1.10	0.220
Molybdenum	ND	5.49	0.549
Nickel	24.6	2.20	1.10
Selenium	1.46	1.10	0.549
Silver	ND	2.20	0.549
Thallium	0.886J	1.10	0.549
Vanadium	66.6	2.20	0.549
Zinc	60.6	1.10	0.549

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 09:15
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-20'	Date Analyzed:	11/07/07 00:25
Lab Samp ID:	J344-06	Dilution Factor:	1
Lab File ID:	ID8K003048	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	7.9
Calib. Ref.:	ID8K003040	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.17
Arsenic	28.9	1.09	0.434
Barium	114	1.09	0.217
Beryllium	1.16	1.09	0.217
Cadmium	ND	1.09	0.543
Chromium	79.1	2.17	1.09
Cobalt	26.3	2.17	1.09
Copper	57.4	2.17	0.543
Lead	9.18	1.09	0.217
Molybdenum	ND	5.43	0.543
Nickel	40.4	2.17	1.09
Selenium	2.78	1.09	0.543
Silver	ND	2.17	0.543
Thallium	1.41	1.09	0.543
Vanadium	128	2.17	0.543
Zinc	109	1.09	0.543

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 10:10
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-35'	Date Analyzed:	11/07/07 00:47
Lab Samp ID:	J344-07	Dilution Factor:	1
Lab File ID:	ID8K003052	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	9.5
Calib. Ref.:	ID8K003050	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.21
Arsenic	5.32	1.10	0.442
Barium	188	1.10	0.221
Beryllium	0.965J	1.10	0.221
Cadmium	ND	1.10	0.552
Chromium	57.9	2.21	1.10
Cobalt	15.4	2.21	1.10
Copper	35.1	2.21	0.552
Lead	8.15	1.10	0.221
Molybdenum	ND	5.52	0.552
Nickel	27.4	2.21	1.10
Selenium	2.32	1.10	0.552
Silver	ND	2.21	0.552
Thallium	1.14	1.10	0.552
Vanadium	86.0	2.21	0.552
Zinc	87.9	1.10	0.552

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 10:25
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-40'	Date Analyzed:	11/07/07 01:03
Lab Samp ID:	J344-08	Dilution Factor:	1
Lab File ID:	ID8K003055	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	9.8
Calib. Ref.:	ID8K003050	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	2.22
Arsenic	7.95	1.11	0.443
Barium	119	1.11	0.222
Beryllium	0.815J	1.11	0.222
Cadmium	ND	1.11	0.554
Chromium	110	2.22	1.11
Cobalt	14.7	2.22	1.11
Copper	34.0	2.22	0.554
Lead	9.06	1.11	0.222
Molybdenum	ND	5.54	0.554
Nickel	25.9	2.22	1.11
Selenium	1.78	1.11	0.554
Silver	ND	2.22	0.554
Thallium	0.958J	1.11	0.554
Vanadium	75.3	2.22	0.554
Zinc	76.7	1.11	0.554

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 10:40
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-45'	Date Analyzed:	11/07/07 01:08
Lab Samp ID:	J344-09	Dilution Factor:	1
Lab File ID:	ID8K003056	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	8.3
Calib. Ref.:	ID8K003050	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	3.22	1.09	0.436
Barium	66.0	1.09	0.218
Beryllium	0.491J	1.09	0.218
Cadmium	ND	1.09	0.545
Chromium	18.8	2.18	1.09
Cobalt	6.56	2.18	1.09
Copper	14.3	2.18	0.545
Lead	4.62	1.09	0.218
Molybdenum	ND	5.45	0.545
Nickel	12.8	2.18	1.09
Selenium	1.22	1.09	0.545
Silver	ND	2.18	0.545
Thallium	0.703J	1.09	0.545
Vanadium	29.3	2.18	0.545
Zinc	40.4	1.09	0.545

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 10:45
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-50'	Date Analyzed:	11/07/07 01:14
Lab Samp ID:	J344-10	Dilution Factor:	1
Lab File ID:	ID8K003057	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	8.0
Calib. Ref.:	ID8K003050	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.17
Arsenic	3.08	1.09	0.435
Barium	124	1.09	0.217
Beryllium	0.516J	1.09	0.217
Cadmium	ND	1.09	0.543
Chromium	13.5	2.17	1.09
Cobalt	7.36	2.17	1.09
Copper	15.8	2.17	0.543
Lead	5.37	1.09	0.217
Molybdenum	ND	5.43	0.543
Nickel	14.4	2.17	1.09
Selenium	1.07J	1.09	0.543
Silver	ND	2.17	0.543
Thallium	0.616J	1.09	0.543
Vanadium	32.5	2.17	0.543
Zinc	47.9	1.09	0.543

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 10:50
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB1-50'DUP	Date Analyzed:	11/07/07 01:19
Lab Samp ID:	J344-11	Dilution Factor:	1
Lab File ID:	ID8K003058	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	9.0
Calib. Ref.:	ID8K003050	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.20
Arsenic	2.57	1.10	0.440
Barium	129	1.10	0.220
Beryllium	0.507J	1.10	0.220
Cadmium	ND	1.10	0.549
Chromium	30.2	2.20	1.10
Cobalt	7.73	2.20	1.10
Copper	14.5	2.20	0.549
Lead	4.10	1.10	0.220
Molybdenum	ND	5.49	0.549
Nickel	14.1	2.20	1.10
Selenium	1.17	1.10	0.549
Silver	ND	2.20	0.549
Thallium	0.633J	1.10	0.549
Vanadium	33.5	2.20	0.549
Zinc	48.9	1.10	0.549

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/26/07 12:52
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:10
Sample ID:	SB6-55'	Date Analyzed:	11/07/07 01:25
Lab Samp ID:	J344-12	Dilution Factor:	1
Lab File ID:	ID8K003059	Matrix :	SOIL
Ext Btch ID:	IPJ063S	% Moisture :	11.0
Calib. Ref.:	ID8K003050	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.2	2.25
Arsenic	2.32	1.12	0.449
Barium	45.6	1.12	0.225
Beryllium	0.390J	1.12	0.225
Cadmium	ND	1.12	0.562
Chromium	11.7	2.25	1.12
Cobalt	5.31	2.25	1.12
Copper	12.0	2.25	0.562
Lead	3.50	1.12	0.225
Molybdenum	ND	5.62	0.562
Nickel	9.66	2.25	1.12
Selenium	0.903J	1.12	0.562
Silver	ND	2.25	0.562
Thallium	ND	1.12	0.562
Vanadium	23.0	2.25	0.562
Zinc	35.6	1.12	0.562

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:00
Sample ID:	MBLK1W	Date Analyzed:	11/14/07 02:37
Lab Samp ID:	IPJ062WB	Dilution Factor:	1
Lab File ID:	ID8K011082	Matrix :	WATER
Ext Btch ID:	IPJ062W	% Moisture :	NA
Calib. Ref.:	ID8K011078	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Antimony	ND	100	40.0
Arsenic	ND	10.0	5.00
Barium	ND	10.0	2.00
Beryllium	ND	10.0	1.00
Cadmium	ND	10.0	2.00
Chromium	ND	10.0	5.00
Cobalt	ND	10.0	5.00
Copper	ND	10.0	5.00
Lead	ND	10.0	3.00
Molybdenum	ND	50.0	10.0
Nickel	ND	20.0	10.0
Selenium	ND	10.0	5.00
Silver	ND	10.0	5.00
Thallium	ND	10.0	5.00
Vanadium	ND	10.0	5.00
Zinc	ND	10.0	5.00

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
SDG NO.	: 07J344	Date Extracted:	10/30/07 13:00
Sample ID:	MBLK1W	Date Analyzed:	11/14/07 02:37
Lab Samp ID:	IPJ062WB	Dilution Factor:	1
Lab File ID:	ID8K011082	Matrix :	WATER
Ext Btch ID:	IPJ062W	% Moisture :	NA
Calib. Ref.:	ID8K011078	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPJ062WB	IPJ062WL	IPJ062WC		
LAB FILE ID:	ID8K011082	ID8K011083	ID8K011084		
DATIME EXTRCTD:	10/30/0713:00	10/30/0713:00	10/30/0713:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/14/0702:37	11/14/0702:42	11/14/0702:48	DATE RECEIVED:	10/30/07
PREP. BATCH:	IPJ062W	IPJ062W	IPJ062W		
CALIB. REF:	ID8K011078	ID8K011078	ID8K011078		

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	5.24	105	5	5.22	104	0	80-120	20
Arsenic	ND	1	1.03	103	1	1.03	103	1	80-120	20
Barium	ND	1	1.05	105	1	1.05	105	1	80-120	20
Beryllium	ND	1	1.05	105	1	1.06	106	0	80-120	20
Cadmium	ND	1	1.03	103	1	1.04	104	1	80-120	20
Chromium	ND	1	.993	99	1	.985	98	1	80-120	20
Cobalt	ND	1	1.03	103	1	1.03	103	0	80-120	20
Copper	ND	1	1.12	112	1	1.1	110	2	80-120	20
Lead	ND	1	1.01	101	1	1.01	101	0	80-120	20
Molybdenum	ND	1	1.05	105	1	1.05	105	0	80-120	20
Nickel	ND	1	1.03	103	1	1.03	103	0	80-120	20
Selenium	ND	1	1.04	104	1	1.05	105	1	80-120	20
Silver	ND	1	1.01	101	1	1.06	106	5	80-120	20
Thallium	ND	1	1.01	101	1	1.01	101	0	80-120	20
Vanadium	ND	1	1.05	105	1	1.04	104	0	80-120	20
Zinc	ND	1	1.04	104	1	1.03	103	0	80-120	20

Revised Report

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPJ063SB	IPJ063SL	IPJ063SC		
LAB FILE ID:	ID8K003028	ID8K003029	ID8K003030		
DATIME EXTRCTD:	10/30/0713:10	10/30/0713:10	10/30/0713:10	DATE COLLECTED:	NA
DATIME ANALYZD:	11/06/0722:36	11/06/0722:42	11/06/0722:47	DATE RECEIVED:	10/30/07
PREP. BATCH:	IPJ063S	IPJ063S	IPJ063S		
CALIB. REF:	ID8K003021	ID8K003021	ID8K003021		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	500	514	103	500	513	103	0	80-120	20
Arsenic	ND	100	103	103	100	103	103	0	80-120	20
Barium	ND	100	95.8	96	100	96	96	0	80-120	20
Beryllium	ND	100	101	101	100	101	101	0	80-120	20
Cadmium	ND	100	99	99	100	98.6	99	0	80-120	20
Chromium	ND	100	97.5	97	100	97.3	97	0	80-120	20
Cobalt	ND	100	97.5	98	100	97.3	97	0	80-120	20
Copper	ND	100	94.6	95	100	94.5	95	0	80-120	20
Lead	ND	100	97.1	97	100	97.3	97	0	80-120	20
Molybdenum	ND	100	105	105	100	105	105	0	80-120	20
Nickel	ND	100	96.8	97	100	96.5	97	0	80-120	20
Selenium	ND	100	100	100	100	100	100	0	80-120	20
Silver	ND	100	95.8	96	100	95.8	96	0	80-120	20
Thallium	ND	100	93.2	93	100	93.1	93	0	80-120	20
Vanadium	ND	100	101	101	100	101	101	0	80-120	20
Zinc	ND	100	102	102	100	102	102	0	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	9.5
DILTN FACTR:	1	1	1		
SAMPLE ID:	SB1-35'				
CONTROL NO.:	J344-07	J344-07M	J344-07S		
LAB FILE ID:	ID8K003052	ID8K003053	ID8K003054		
DATIME EXTRCTD:	10/30/0713:10	10/30/0713:10	10/30/0713:10	DATE COLLECTED:	10/26/07 10:10
DATIME ANALYZD:	11/07/0700:47	11/07/0700:52	11/07/0700:58	DATE RECEIVED:	10/26/07
PREP. BATCH:	IPJ063S	IPJ063S	IPJ063S		
CALIB. REF:	ID8K003050	ID8K003050	ID8K003050		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	552	143	26*	552	130	24*	9	75-125	20
Arsenic	5.32	110	115	100	110	111	95	4	75-125	20
Barium	188	110	264	69*	110	245	52*	7	75-125	20
Beryllium	.965J	110	104	94	110	99.6	89	5	75-125	20
Cadmium	ND	110	101	92	110	96.6	87	5	75-125	20
Chromium	57.9	110	160	93	110	153	86	5	75-125	20
Cobalt	15.4	110	115	91	110	110	86	4	75-125	20
Copper	35.1	110	131	87	110	127	83	4	75-125	20
Lead	8.15	110	107	90	110	103	85	5	75-125	20
Molybdenum	ND	110	101	91	110	96	87	5	75-125	20
Nickel	27.4	110	127	90	110	122	85	4	75-125	20
Selenium	2.32	110	105	93	110	99.7	88	5	75-125	20
Silver	ND	110	106	96	110	100	91	5	75-125	20
Thallium	1.14	110	94.2	84	110	90.1	81	4	75-125	20
Vanadium	86	110	193	97	110	185	90	4	75-125	20
Zinc	87.9	110	197	98	110	188	91	4	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	U8-129	U8-129DL		
EMAX SAMP ID:	J348-03	J348-03J		
LAB FILE ID:	ID8K011086	ID8K011087		
DATE EXTRACTED:	10/30/0713:00	10/30/0713:00	DATE COLLECTED:	10/26/07 11:23
DATE ANALYZED:	11/14/0702:58	11/14/0703:04	DATE RECEIVED:	10/27/07
PREP. BATCH:	IPJ062W	IPJ062W		
CALIB. REF:	ID8K011078	ID8K011078		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	ND	ND	0	10
Barium	0.317	0.338	6	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	0.0130	ND	NA	10
Cobalt	ND	ND	0	10
Copper	ND	ND	0	10
Lead	ND	ND	0	10
Molybdenum	ND	ND	0	10
Nickel	ND	ND	0	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	ND	ND	0	10
Zinc	ND	ND	0	10

Revised Report

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.6
DILUTION FACTOR:	1	5		
SAMPLE ID:	BIN-614803-SO	BIN-614803-SODL		
EMAX SAMP ID:	J370-01	J370-01J		
LAB FILE ID:	ID8K003035	ID8K003036		
DATE EXTRACTED:	10/30/0713:10	10/30/0713:10	DATE COLLECTED:	10/29/07 07:45
DATE ANALYZED:	11/06/0723:14	11/06/0723:19	DATE RECEIVED:	10/30/07
PREP. BATCH:	IPJ063S	IPJ063S		
CALIB. REF:	ID8K003033	ID8K003033		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	1.96	ND	NA	10
Barium	54.1	54.4	0	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	28.8	29.1	1	10
Cobalt	3.01	ND	NA	10
Copper	7.45	7.58J	NA	10
Lead	2.08	2.31J	NA	10
Molybdenum	ND	ND	0	10
Nickel	4.38	ND	NA	10
Selenium	0.709J	ND	NA	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	19.8	19.7	1	10
Zinc	19.4	19.4	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	16.6
DILTN FACTR:	1	1		
SAMPLE ID:	BIN-614803-SO			
CONTROL NO.:	J370-01	J370-01A		
LAB FILE ID:	ID8K003035	ID8K003031		
DATIME EXTRCTD:	10/30/0713:10	10/30/0713:10	DATE COLLECTED:	10/29/07 07:45
DATIME ANALYZD:	11/06/0723:14	11/06/0722:52	DATE RECEIVED:	10/30/07
PREP. BATCH:	IPJ063S	IPJ063S		
CALIB. REF:	ID8K003033	ID8K003021		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Antimony	ND	600	630	105	75-125
Arsenic	1.96	120	130	106	75-125
Barium	54.1	120	167	94	75-125
Beryllium	ND	120	120	100	75-125
Cadmium	ND	120	117	98	75-125
Chromium	28.8	120	150	101	75-125
Cobalt	3.01	120	120	97	75-125
Copper	7.45	120	119	93	75-125
Lead	2.08	120	118	96	75-125
Molybdenum	ND	120	125	104	75-125
Nickel	4.38	120	119	96	75-125
Selenium	.709J	120	123	102	75-125
Silver	ND	120	121	101	75-125
Thallium	ND	120	111	92	75-125
Vanadium	19.8	120	146	105	75-125
Zinc	19.4	120	139	100	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	U8-129			
CONTROL NO.:	J348-03	J348-03A		
LAB FILE ID:	ID8K011086	ID8K011085		
DATIME EXTRCTD:	10/30/0713:00	10/30/0713:00	DATE COLLECTED:	10/26/07 11:23
DATIME ANALYZD:	11/14/0702:58	11/14/0702:53	DATE RECEIVED:	10/27/07
PREP. BATCH:	IPJ062W	IPJ062W		
CALIB. REF:	ID8K011078	ID8K011078		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
Antimony	ND	5	5.05	101	75-125
Arsenic	ND	1	1.03	103	75-125
Barium	.317	1	1.34	102	75-125
Beryllium	ND	1	1.01	101	75-125
Cadmium	ND	1	1.01	101	75-125
Chromium	.013	1	.965	95	75-125
Cobalt	ND	1	1.0	100	75-125
Copper	ND	1	1.05	105	75-125
Lead	ND	1	.983	98	75-125
Molybdenum	ND	1	1.02	102	75-125
Nickel	ND	1	.991	99	75-125
Selenium	ND	1	1.04	104	75-125
Silver	ND	1	.993	99	75-125
Thallium	ND	1	.957	96	75-125
Vanadium	ND	1	1.01	101	75-125
Zinc	ND	1	1	100	75-125

Revised Report

TRACE-LOW ICP QC CHECK TABLE

QC	ICV HIGH	ICV	CCV	ICSAB	ICSA
Limit%	95-105	90-110	90-110	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg/L
Al	10	5	5	500	500
Sb	1	0.5	0.5	1	0
As	1	0.5	0.5	1	0
Ba	1	0.5	0.5	0.5	0
Be	1	0.5	0.5	0.5	0
B	1	0.5	0.5	0.5	0
Cd	1	0.5	0.5	1	0
Ca	100	50	50	500	500
Cr	1	0.5	0.5	0.5	0
Co	1	0.5	0.5	0.5	0
Cu	1	0.5	0.5	0.5	0
Fe	10	5	5	200	200
Pb	1	0.5	0.5	1	0
Li	1	0.5	0.5	0.5	0
Mg	100	50	50	500	500
Mn	1	0.5	0.5	0.5	0
Mo	1	0.5	0.5	1	0
Ni	1	0.5	0.5	1	0
K	100	50	50	75	0
Se	1	0.5	0.5	1	0
Si	1	0.5	0.5	1	0
Ag	1	0.5	0.5	1	0
Na	100	50	50	75	0
Sr	1	0.5	0.5	0.5	0
Tl	1	0.5	0.5	1	0
Sn	1	0.5	0.5	1	0
Ti	1	0.5	0.5	1	0
U	10	5	5	1	0
V	1	0.5	0.5	0.5	0
Zn	1	0.5	0.5	1	0

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/6/07 20:08

End Date: 11/7/07 07:01

Comments:

1PJ0635B "E" – 2nd repeat for IS saturated. 1st and 3rd repeats OK

CCV10, CCV11 ↓Mg ↓Mn

ICB10 – error in loaded solution

Book #: AD8-003

Instrument No.: D8

Analytical Batch: 1D8K003

Analytical Sequence: S-60101C07 (V3)

Method File: 60101C07 (V5)

ICSA corrected for B

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	SM1B10.93.01
S3	NA
S4	NA
S5	SM1B10.93.02
S6	NA
S7	NA
S8	SM1B10.93.03
S9	NA
ICV	SM1B10.93.05
CCV	10.93.04
ICSA	10.93.03
ICSAB	10.95.05
CRI/MRL	

Analyzed By: GPC

Date: 11/7/07

SEQUENCE FILE : ID8K003

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K003001	Blank	20:08	11/06/07	1.000
ID8K003002	S2	20:13	11/06/07	1.000
ID8K003003	S5	20:18	11/06/07	1.000
ID8K003004	S8	20:24	11/06/07	1.000
ID8K003005	ICV	20:29	11/06/07	1.000
ID8K003006	ICB	20:35	11/06/07	1.000
ID8K003007	ICSAI	20:40	11/06/07	1.000
ID8K003008	ICSABI	20:46	11/06/07	1.000
ID8K003009	CCV1	20:51	11/06/07	1.000
ID8K003010	CCB1	20:56	11/06/07	1.000
ID8K003011	IPK008SB	21:02	11/06/07	1.000
ID8K003012	IPK008SL	21:07	11/06/07	1.000
ID8K003013	IPK008SC	21:13	11/06/07	1.000
ID8K003014	K039-01A	21:18	11/06/07	1.000
ID8K003015	K039-01	21:24	11/06/07	1.000
ID8K003016	K039-01J	21:29	11/06/07	5.000
ID8K003017	K039-02	21:35	11/06/07	1.000
ID8K003018	K039-03	21:40	11/06/07	1.000
ID8K003019	K039-04	21:46	11/06/07	1.000
ID8K003020	BLANK	21:52	11/06/07	1.000
ID8K003021	CCV2	21:57	11/06/07	1.000
ID8K003022	CCB2	22:02	11/06/07	1.000
ID8K003023	K039-05	22:08	11/06/07	1.000
ID8K003024	K039-06	22:14	11/06/07	1.000
ID8K003025	K039-07	22:19	11/06/07	1.000
ID8K003026	K039-08	22:25	11/06/07	1.000
ID8K003027	K039-10	22:30	11/06/07	1.000
ID8K003028	IPJ063SB	22:36	11/06/07	1.000
ID8K003029	IPJ063SL	22:42	11/06/07	1.000
ID8K003030	IPJ063SC	22:47	11/06/07	1.000
ID8K003031	J370-01A	22:52	11/06/07	1.000
ID8K003032	BLANK	22:57	11/06/07	1.000
ID8K003033	CCV3	23:03	11/06/07	1.000
ID8K003034	CCB3	23:08	11/06/07	1.000
ID8K003035	J370-01	23:14	11/06/07	1.000
ID8K003036	J370-01J	23:19	11/06/07	5.000
ID8K003037	J273-04	23:24	11/06/07	10.000
ID8K003038	ICSAF	23:30	11/06/07	1.000
ID8K003039	ICSABF	23:36	11/06/07	1.000
ID8K003040	CCV4	23:41	11/06/07	1.000
ID8K003041	CCB4	23:46	11/06/07	1.000
ID8K003042	J333-01	23:52	11/06/07	1.000
ID8K003043	J333-02	23:57	11/06/07	1.000
ID8K003044	J333-03	0:03:	11/07/07	1.000
ID8K003045	J344-03	00:08	11/07/07	1.000
ID8K003046	J344-04	00:14	11/07/07	1.000
ID8K003047	J344-05	00:19	11/07/07	1.000
ID8K003048	J344-06	00:25	11/07/07	1.000
ID8K003049	BLANK	00:30	11/07/07	1.000
ID8K003050	CCV5	00:36	11/07/07	1.000
ID8K003051	CCB5	00:41	11/07/07	1.000
ID8K003052	J344-07	00:47	11/07/07	1.000
ID8K003053	J344-07M	00:52	11/07/07	1.000
ID8K003054	J344-07S	00:58	11/07/07	1.000
ID8K003055	J344-08	01:03	11/07/07	1.000

ID8K003056	J344-09	01:08	11/07/07	1.000
ID8K003057	J344-10	01:14	11/07/07	1.000
ID8K003058	J344-11	01:19	11/07/07	1.000
ID8K003059	J344-12	01:25	11/07/07	1.000
ID8K003060	BLANK	01:30	11/07/07	1.000
ID8K003061	CCV6	01:35	11/07/07	1.000
ID8K003062	CCB6	01:41	11/07/07	1.000
ID8K003063	IPJ049SB	01:46	11/07/07	1.000
ID8K003064	IPJ049SL	01:52	11/07/07	1.000
ID8K003065	IPJ049SC	01:57	11/07/07	1.000
ID8K003066	J287-01	02:02	11/07/07	1.000
ID8K003067	J287-02	02:08	11/07/07	1.000
ID8K003068	J283-01	02:14	11/07/07	1.000
ID8K003069	J283-03	02:19	11/07/07	1.000
ID8K003070	J283-04	02:25	11/07/07	1.000
ID8K003071	J283-05	02:30	11/07/07	1.000
ID8K003072	BLANK	02:36	11/07/07	1.000
ID8K003073	CCV7	02:41	11/07/07	1.000
ID8K003074	CCB7	02:47	11/07/07	1.000
ID8K003075	J284-02A	02:52	11/07/07	1.000
ID8K003076	J284-02	02:58	11/07/07	1.000
ID8K003077	J284-02J	03:03	11/07/07	5.000
ID8K003078	J284-02M	03:09	11/07/07	1.000
ID8K003079	J284-02S	03:14	11/07/07	1.000
ID8K003080	J284-03	03:20	11/07/07	1.000
ID8K003081	J284-04	03:25	11/07/07	1.000
ID8K003082	BLANK	03:31	11/07/07	1.000
ID8K003083	CCV8	03:36	11/07/07	1.000
ID8K003084	CCB8	03:42	11/07/07	1.000
ID8K003085	IPJ067WB	03:47	11/07/07	1.000
ID8K003086	IPJ067WL	03:53	11/07/07	1.000
ID8K003087	IPJ067WC	03:58	11/07/07	1.000
ID8K003088	J347-01	04:03	11/07/07	1.000
ID8K003089	J347-02	04:09	11/07/07	1.000
ID8K003090	J347-03	04:14	11/07/07	1.000
ID8K003091	J347-04	04:20	11/07/07	1.000
ID8K003092	J347-05	04:25	11/07/07	1.000
ID8K003093	J347-06	04:31	11/07/07	1.000
ID8K003094	BLANK	04:36	11/07/07	1.000
ID8K003095	CCV9	04:42	11/07/07	1.000
ID8K003096	CCB9	04:47	11/07/07	1.000
ID8K003097	J347-07	04:53	11/07/07	1.000
ID8K003098	J347-08	04:58	11/07/07	1.000
ID8K003099	J347-09	05:04	11/07/07	1.000
ID8K003100	J347-10	05:10	11/07/07	1.000
ID8K003101	J347-11A	05:15	11/07/07	1.000
ID8K003102	J347-11	05:21	11/07/07	1.000
ID8K003103	J347-11J	05:27	11/07/07	5.000
ID8K003104	J347-11M	05:32	11/07/07	1.000
ID8K003105	J347-11S	05:38	11/07/07	1.000
ID8K003106	BLANK	05:44	11/07/07	1.000
ID8K003107	CCV10	05:49	11/07/07	1.000
ID8K003108	CCB10	05:54	11/07/07	1.000
ID8K003109	J347-12	06:00	11/07/07	1.000
ID8K003110	J347-13	06:05	11/07/07	1.000
ID8K003111	WTJ014SB	06:11	11/07/07	1.000
ID8K003112	J296-01A	06:17	11/07/07	1.000
ID8K003113	J296-01	06:22	11/07/07	1.000

ID8K003114	J296-01J	06:28	11/07/07	5.000
ID8K003115	BLANK	06:33	11/07/07	1.000
ID8K003116	ICSAF	06:39	11/07/07	1.000
ID8K003117	ICSABF	06:44	11/07/07	1.000
ID8K003118	CCV11	06:50	11/07/07	1.000
ID8K003119	CCB11	06:55	11/07/07	1.000
ID8K003120	BLANK	07:01	11/07/07	1.000

SDG : _____ UNIT : % SUMMARY of ICV and CCV : ID8K003 DATE : 11/06/07 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	99	101	104	99	102	108	100	102	98	99	93	102	99	99	97	102	98	98	103	97	100	95	102	104
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	96	----	----	----	----	----	----	96	----	----	----	96	----	98	----	----	----	----	----	----	----	----	----	----
ICSABI	96	107	109	105	100	108	102	95	98	98	90	97	96	97	95	107	96	103	108	108	105	91	103	103
CCV1	105	101	104	96	99	103	100	99	98	97	92	104	97	99	95	104	97	95	105	97	99	93	101	102
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK008SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK008SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK008SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	99	98	101	95	98	99	99	98	95	96	90	99	95	98	95	103	96	95	101	94	98	92	99	101
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J370-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	100	97	100	96	99	100	99	99	95	97	93	98	95	98	96	103	96	95	100	95	99	92	99	101
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J370-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J370-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J273-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	96	----	----	----	----	----	----	95	----	----	----	95	----	97	----	----	----	----	----	----	----	----	----	----
ICSABF	97	105	108	105	100	107	101	95	97	97	93	97	95	97	95	107	96	103	106	107	105	91	102	102
CCV4	103	100	103	96	100	103	100	100	98	97	97	102	96	99	97	104	97	95	103	97	100	93	101	101
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	101	99	101	94	97	100	98	97	96	95	90	99	94	97	94	102	95	93	101	95	97	92	99	99
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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J344-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	105	103	106	97	101	105	101	101	100	99	93	104	98	100	97	105	98	96	106	99	100	95	103	103
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ049SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ049SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ049SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J287-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J287-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	103	100	102	95	98	104	98	98	97	96	91	101	95	97	95	103	96	94	102	97	99	92	101	100
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	103	101	103	96	99	104	99	99	97	97	92	101	96	98	95	104	96	95	104	97	99	93	101	101
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ067WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ067WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ067WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	104	100	102	95	98	110	98	97	95	96	92	99	95	95	93	103	96	95	102	97	100	93	100	99
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	104	101	102	99	94	123*	98	95	96	97	100	100	95	89*	83*	103	96	103	103	97	112*	93	100	99
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTJ014SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J296-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	98	----	----	----	----	----	----	89	----	----	----	95	----	86	----	----	----	----	----	----	----	----	----	----
ICSABF	100	109	110	111	95	115	101	89	97	97	104	97	95	86	81	108	96	114	108	109	116	93	102	102
CCV11	107	102	103	100	93	108	98	92	95	96	104	101	95	87*	81*	104	96	106	103	96	108	94	99	100
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : _____ UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K003 (WATER) DATE : 11/06/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	1.24	.230	-.060	-.380	-.100	1.75	.170	12.1	.060	.110	-.170	.640	.720	-32.6	.760	.110	.430	81.9	3.52	.040	32.2	.130	.260	-.520
ICSAI	----	2.24	-4.71	-.850	-.290	.010	-2.36	----	.190	.230	3.08	----	-1.77	----	1.65	-1.61	.310	103	11.2	-.500	114	-.860	-.370	-5.18
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	49.9	.200	.310	-.240	-.100	1.92	.200	48.1	.000	.130	.130	19.1	.620	7.19	.560	.130	.510	124	3.90	.170	54.9	.230	-.030	-.570
IPK008SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK008SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK008SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	6.43	-.120	.870	-.540	-.060	1.39	.080	-4.62	-.080	-.130	-.520	-.420	.040	-72.6	.980	.020	.020	-14.4	2.97	-.180	-5.03	.660	-.230	-.840
K039-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J370-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	1.02	1.05	.410	-.780	-.110	2.10	.090	25.3	4.12	-.060	.350	16.7	1.08	-62.0	.320	.090	.380	98.5	2.16	.050	14.5	.580	.260	.420
J370-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J370-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J273-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	1.75	-5.14	-.480	-.290	11.6	-2.39	----	.250	.470	2.78	----	-2.67	----	2.53	-1.76	.140	213	7.62	-.700	406	-1.74	-.390	-2.98
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	28.0	.800	-.140	-.160	.460	7.58	.470	65.7	.160	.410	.010	26.0	.800	20.4	.380	.400	.880	140	4.20	-.040	179	1.000	.340	1.28
J333-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	-9.43	.200	1.14	-.180	-.040	.390	.100	-.550	-.340	.060	-.140	3.42	.380	-48.0	.310	.120	.370	86.2	2.51	-.360	34.7	.100	-.060	-.020
J344-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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J344-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-6.99	-1.33	-.400	-1.25	-.070	2.82	.150	9.47	-.040	.140	-.120	7.24	1.08	15.8	1.96	-.020	.490	115	2.34	-.270	58.6	.590	.260	.230
IPJ049SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ049SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ049SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J287-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J287-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-.810	-.140	1.13	-1.17	.060	10.3	.100	5.65	-.070	.170	.380	.640	1.57	-19.4	.950	.070	.910	128	2.35	-.080	161	.240	-.090	-.340
J284-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-1.89	1.16	-.360	-.800	-.200	9.41	.090	-6.03	-.240	.020	.070	1.80	.460	-10.4	-.240	.020	.350	120	3.74	-.030	145	.000	-.070	-.840
IPJ067WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ067WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ067WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	47.1	-1.31	1.76	-.300	-.010	34.2	.090	78.7	-.120	.050	.090	.330	.970	-40.8	2.40	.240	3.69	282	4.01	.140	29588	-.260	.240	23.4
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	5226	508	519	503	475	600	497	47517	480	488	511	5019	481	44791	423	524	485	52452	520	487	55423	474	503	504
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTJ014SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J296-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	3.90	-6.98	-.410	-.070	41.0	-1.14	----	-.130	-.060	3.44	----	-6.80	----	1.19	-1.65	.130	224	9.74	-.710	2091	-1.12	-.330	-6.06
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	39.2	.320	.690	-.290	.020	33.1	.120	69.9	-.310	.090	.780	27.6	-.040	15.5	1.000	.110	.690	109	3.14	-.130	844	1.11	-.050	1.97
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : _____ UNIT : UG/L SUMMARY of CALIBRATION BLANKS : IDBK003 (SOIL) DATE : 11/06/07 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	1.24	.230	-.060	-.380	-.100	1.75	.170	12.1	.060	.110	-.170	.640	.720	-32.6	.760	.110	.430	81.9	3.52	.040	32.2	.130	.260	-.520
ICSAI	----	2.24	-4.71	-.850	-.290	.010	-2.36	----	.190	.230	3.08	----	-1.77	----	1.65	-1.61	.310	103	11.2	-.500	114	-.860	-.370	-5.18
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	49.9	.200	.310	-.240	-.100	1.92	.200	48.1	.000	.130	.130	19.1	.620	7.19	.560	.130	.510	124	3.90	.170	54.9	.230	-.030	-.570
IPK008SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK008SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK008SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	6.43	-.120	.870	-.540	-.060	1.39	.080	-4.62	-.080	-.130	-.520	-.420	.040	-72.6	.980	.020	.020	-14.4	2.97	-.180	-5.03	.660	-.230	-.840
K039-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K039-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ063SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J370-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	1.02	1.05	.410	-.780	-.110	2.10	.090	25.3	4.12	-.060	.350	16.7	1.08	-62.0	.320	.090	.380	98.5	2.16	.050	14.5	.580	.260	.420
J370-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J370-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J273-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	1.75	-5.14	-.480	-.290	11.6	-2.39	----	.250	.470	2.78	----	-2.67	----	2.53	-1.76	.140	213	7.62	-.700	406	-1.74	-.390	-2.98
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	28.0	.800	-.140	-.160	.460	7.58	.470	65.7	.160	.410	.010	26.0	.800	20.4	.380	.400	.880	140	4.20	-.040	179	1.000	.340	1.28
J333-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	-9.43	.200	1.14	-.180	-.040	.390	.100	-.550	-.340	.060	-.140	3.42	.380	-48.0	.310	.120	.370	86.2	2.51	-.360	34.7	.100	-.060	-.020
J344-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J344-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-6.99	-1.33	-.400	-1.25	-.070	2.82	.150	9.47	-.040	.140	-.120	7.24	1.08	15.8	1.96	-.020	.490	115	2.34	-.270	58.6	.590	.260	.230
IPJ049SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ049SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ049SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J287-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J287-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J283-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-.810	-.140	1.13	-1.17	.060	10.3	.100	5.65	-.070	.170	.380	.640	1.57	-19.4	.950	.070	.910	128	2.35	-.080	161	.240	-.090	-.340
J284-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J284-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-1.89	1.16	-.360	-.800	-.200	9.41	.090	-6.03	-.240	.020	.070	1.80	.460	-10.4	-.240	.020	.350	120	3.74	-.030	145	.000	-.070	-.840
IPJ067WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ067WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ067WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	47.1	-1.31	1.76	-.300	-.010	34.2	.090	78.7	-.120	.050	.090	.330	.970	-40.8	2.40	.240	3.69	282	4.01	.140	29588	-.260	.240	23.4
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	5226	508	519	503	475	600	497	47517	480	488	511	5019	481	44791	423	524	485	52452	520	487	55423	474	503	504
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTJ014SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J296-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	3.90	-6.98	-.410	-.070	41.0	-1.14	----	-.130	-.060	3.44	----	-6.80	----	1.19	-1.65	.130	224	9.74	-.710	2091	-1.12	-.330	-6.06
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	39.2	.320	.690	-.290	.020	33.1	.120	69.9	-.310	.090	.780	27.6	-.040	15.5	1.000	.110	.690	109	3.14	-.130	844	1.11	-.050	1.97
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8K003001			1	☐		Continue
2	0	Unk	S2		ID8K003002			1	☐		Continue
3	0	Unk	S5		ID8K003003			1	☐		Continue
4	0	Unk	S8		ID8K003004			1	☐		Continue
5	1	QC	ICV		ID8K003005			1	☒	ICV	Continue
6	2	QC	ICB		ID8K003006			1	☒	CCB1	Continue
7	3	QC	ICSAI		ID8K003007			1	☒	ICSA	Continue
8	4	QC	ICSABI		ID8K003008			1	☒	ICSAB	Continue
9	5	QC	CCV1		ID8K003009			1	☒	CCV	Continue
10	6	QC	CCB1		ID8K003010			1	☒	CCB1	Continue
11	7	QC	IPK008SB		ID8K003011			1	☒	CCB1	Continue
12	8	QC	IPK008SL		ID8K003012			1	☒	LCS	Continue
13	9	QC	IPK008SC		ID8K003013			1	☒	LCS	Continue
14	10	Unk	K039-01A		ID8K003014			1	☐		Continue
15	11	Unk	K039-01		ID8K003015			1	☐		Continue
16	12	Unk	K039-01J		ID8K003016			1	☐		Continue
17	13	Unk	K039-02		ID8K003017			1	☐		Continue
18	14	Unk	K039-03		ID8K003018			1	☐		Continue
19	15	Unk	K039-04		ID8K003019			1	☐		Continue
20	16	Unk	BLANK		ID8K003020			1	☐		Continue
21	17	QC	CCV2		ID8K003021			1	☒	CCV	Continue
22	18	QC	CCB2		ID8K003022			1	☒	CCB1	Continue
23	19	Unk	K039-05		ID8K003023			1	☐		Continue
24	20	Unk	K039-06		ID8K003024			1	☐		Continue
25	21	Unk	K039-07		ID8K003025			1	☐		Continue
26	22	Unk	K039-08		ID8K003026			1	☐		Continue
27	23	Unk	K039-10		ID8K003027			1	☐		Continue
28	24	QC	IPJ063SB		ID8K003028			1	☒	CCB1	Continue
29	25	QC	IPJ063SL		ID8K003029			1	☒	LCS	Continue
30	26	QC	IPJ063SC		ID8K003030			1	☒	LCS	Continue
31	27	Unk	J370-01A		ID8K003031			1	☐		Continue
32	28	Unk	BLANK		ID8K003032			1	☐		Continue
33	29	QC	CCV3		ID8K003033			1	☒	CCV	Continue
34	30	QC	CCB3		ID8K003034			1	☒	CCB1	Continue
35	31	Unk	J370-01		ID8K003035			1	☐		Continue
36	32	Unk	J370-01J		ID8K003036			1	☐		Continue
37	33	Unk	J273-04	10X	ID8K003037			1	☐		Continue
38	34	QC	ICSAF		ID8K003038			1	☒	ICSA	Continue
39	35	QC	ICSABF		ID8K003039			1	☒	ICSAB	Continue
40	36	QC	CCV4		ID8K003040			1	☒	CCV	Continue
41	37	QC	CCB4		ID8K003041			1	☒	CCB1	Continue
42	38	Unk	J333-01		ID8K003042			1	☐		Continue
43	39	Unk	J333-02		ID8K003043			1	☐		Continue
44	40	Unk	J333-03		ID8K003044			1	☐		Continue
45	41	Unk	J344-03		ID8K003045			1	☐		Continue
46	42	Unk	J344-04		ID8K003046			1	☐		Continue

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Sequence Sample List (S_6010K07(v3))

11/07/07 09:45:35

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	Unk	J344-05		ID8K003047			1	☐		Continue
48	44	Unk	J344-06		ID8K003048			1	☐		Continue
49	45	Unk	BLANK		ID8K003049			1	☐		Continue
50	46	QC	CCV5		ID8K003050			1	☒	CCV	Continue
51	47	QC	CCB5		ID8K003051			1	☒	CCB1	Continue
52	48	Unk	J344-07		ID8K003052			1	☐		Continue
53	49	Unk	J344-07M		ID8K003053			1	☐		Continue
54	50	Unk	J344-07S		ID8K003054			1	☐		Continue
55	51	Unk	J344-08		ID8K003055			1	☐		Continue
56	52	Unk	J344-09		ID8K003056			1	☐		Continue
57	53	Unk	J344-10		ID8K003057			1	☐		Continue
58	54	Unk	J344-11		ID8K003058			1	☐		Continue
59	55	Unk	J344-12		ID8K003059			1	☐		Continue
60	56	Unk	BLANK		ID8K003060			1	☐		Continue
61	57	QC	CCV6		ID8K003061			1	☒	CCV	Continue
62	58	QC	CCB6		ID8K003062			1	☒	CCB1	Continue
63	59	QC	IPJ049SB		ID8K003063			1	☒	CCB1	Continue
64	60	QC	IPJ049SL		ID8K003064			1	☒	LCS	Continue
65	61	QC	IPJ049SC		ID8K003065			1	☒	LCS	Continue
66	62	Unk	J287-01		ID8K003066			1	☐		Continue
67	63	Unk	J287-02		ID8K003067			1	☐		Continue
68	64	Unk	J283-01		ID8K003068			1	☐		Continue
69	65	Unk	J283-03		ID8K003069			1	☐		Continue
70	66	Unk	J283-04		ID8K003070			1	☐		Continue
71	67	Unk	J283-05		ID8K003071			1	☐		Continue
72	68	Unk	BLANK		ID8K003072			1	☐		Continue
73	69	QC	CCV7		ID8K003073			1	☒	CCV	Continue
74	70	QC	CCB7		ID8K003074			1	☒	CCB1	Continue
75	71	Unk	J284-02A		ID8K003075			1	☐		Continue
76	72	Unk	J284-02		ID8K003076			1	☐		Continue
77	73	Unk	J284-02J		ID8K003077			1	☐		Continue
78	74	Unk	J284-02M		ID8K003078			1	☐		Continue
79	75	Unk	J284-02S		ID8K003079			1	☐		Continue
80	76	Unk	J284-03		ID8K003080			1	☐		Continue
81	77	Unk	J284-04		ID8K003081			1	☐		Continue
82	78	Unk	BLANK		ID8K003082			1	☐		Continue
83	79	QC	CCV8		ID8K003083			1	☒	CCV	Continue
84	80	QC	CCB8		ID8K003084			1	☒	CCB1	Continue
85	81	QC	IPJ067WB		ID8K003085			1	☒	CCB1	Continue
86	82	QC	IPJ067WL		ID8K003086			1	☒	LCS	Continue
87	83	QC	IPJ067WC		ID8K003087			1	☒	LCS	Continue
88	84	Unk	J347-01		ID8K003088			1	☐		Continue
89	85	Unk	J347-02		ID8K003089			1	☐		Continue
90	86	Unk	J347-03		ID8K003090			1	☐		Continue
91	87	Unk	J347-04		ID8K003091			1	☐		Continue
92	88	Unk	J347-05		ID8K003092			1	☐		Continue

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	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	Unk	J347-06		ID8K003093			1	☐		Continue
94	90	Unk	BLANK		ID8K003094			1	☐		Continue
95	91	QC	CCV9	↑. ok	ID8K003095			1	☒	CCV	Continue
96	92	QC	CCB9	↑B = 34ppb	ID8K003096			1	☒	CCB1	Continue
97	93	Unk	J347-07	↑Na	ID8K003097			1	☐		Continue
98	94	Unk	J347-08	↑Na	ID8K003098			1	☐		Continue
99	95	Unk	J347-09	↑Na	ID8K003099			1	☐		Continue
100	96	Unk	J347-10	↑Na	ID8K003100			1	☐		Continue
101	97	Unk	J347-11A		ID8K003101			1	☐		Continue
102	98	Unk	J347-11	↑Na	ID8K003102			1	☐		Continue
103	99	Unk	J347-11J		ID8K003103			1	☐		Continue
104	100	Unk	J347-11M		ID8K003104			1	☐		Continue
105	101	Unk	J347-11S		ID8K003105			1	☐		Continue
106	102	Unk	BLANK		ID8K003106			1	☐		Continue
107	103	QC	CCV10	↑B, ↓Mg, ↓Mn	ID8K003107			1	☒	CCV	Continue
108	104	QC	CCB10		ID8K003108			1	☒	CCB1	Continue
109	105	Unk	J347-12	↑Na	ID8K003109			1	☐		Continue
110	106	Unk	J347-13		ID8K003110			1	☐		Continue
111	107	QC	WTJ014SB		ID8K003111			1	☒	CCB1	Continue
112	108	Unk	J296-01A		ID8K003112			1	☐		Continue
113	109	Unk	J296-01		ID8K003113			1	☐		Continue
114	110	Unk	J296-01J		ID8K003114			1	☐		Continue
115	111	Unk	BLANK		ID8K003115			1	☐		Continue
116	112	QC	ICSAF	ok	ID8K003116			1	☒	ICSA	Continue
117	113	QC	ICSABF	ok	ID8K003117			1	☒	ICSAB	Continue
118	114	QC	CCV11	↓Mg ↓Mn	ID8K003118			1	☒	CCV	Continue
119	115	QC	CCB11		ID8K003119			1	☒	CCB1	Continue

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EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 19:14 11/13/07

End Date: 08:33 11/14/07

Comments:

ICV selected as CCB in check table.
Data File entered in Type* column while inputting the sequence.

Book #: AD8-003

Instrument No.: D8

Analytical Batch: ID8K011

Analytical Sequence: S-6010K08(V4)

Method File: 6010K08(V4)

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	~~SM1B10.93.01~~ B11.01.03 TH 11/13/07
S3	NA
S4	NA
S5	~~SM1B11.02.01~~ 01.06 TH 11/13/07
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B10.93.05
CCV	93.04
ICSA	93.03
ICSAB	95.05
CRI/MRL	

Analyzed By: TH / [illegible]

SEQUENCE FILE : ID8K011

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID9K011001	Blank	19:14	11/13/07	1.000
ID8K011002	S2	19:19	11/13/07	1.000
ID8K011003	S5	19:25	11/13/07	1.000
ID8K011004	S8	19:30	11/13/07	1.000
ID8K011005	ICV	19:36	11/13/07	1.000
ID8K011006	ICB	19:41	11/13/07	1.000
ID8K011007	ICSAI	19:47	11/13/07	1.000
ID8K011008	ICSABI	19:52	11/13/07	1.000
ID8K011009	CCV1	19:58	11/13/07	1.000
ID8K011010	CCB1	20:03	11/13/07	1.000
ID8K011011	IPK015SB	20:09	11/13/07	1.000
ID8K011012	IPK015SL	20:14	11/13/07	1.000
ID8K011013	IPK015SC	20:19	11/13/07	1.000
ID8K011014	K043-03	20:25	11/13/07	1.000
ID8K011015	K043-05	20:30	11/13/07	1.000
ID8K011016	K043-06M	20:36	11/13/07	1.000
ID8K011017	K043-06S	20:41	11/13/07	1.000
ID8K011018	K043-06A	20:46	11/13/07	1.000
ID8K011019	BLANK	20:51	11/13/07	1.000
ID8K011020	CCV2	20:57	11/13/07	1.000
ID8K011021	CCB2	21:02	11/13/07	1.000
ID8K011022	K043-06	21:08	11/13/07	1.000
ID8K011023	K043-06J	21:13	11/13/07	5.000
ID8K011024	K043-07	21:19	11/13/07	1.000
ID8K011025	K043-08	21:24	11/13/07	1.000
ID8K011026	K043-09	21:29	11/13/07	1.000
ID8K011027	K043-10	21:35	11/13/07	1.000
ID8K011028	K043-11	21:40	11/13/07	1.000
ID8K011029	K043-12	21:46	11/13/07	1.000
ID8K011030	K043-13	21:51	11/13/07	1.000
ID8K011031	BLANK	21:56	11/13/07	1.000
ID8K011032	CCV3	22:02	11/13/07	1.000
ID8K011033	CCB3	22:07	11/13/07	1.000
ID8K011034	K043-14	22:13	11/13/07	1.000
ID8K011035	K043-15	22:18	11/13/07	1.000
ID8K011036	K043-16	22:24	11/13/07	1.000
ID8K011037	K043-17	22:29	11/13/07	1.000
ID8K011038	K043-18	22:34	11/13/07	1.000
ID8K011039	K043-19	22:40	11/13/07	1.000
ID8K011040	K043-20	22:46	11/13/07	1.000
ID8K011041	BLANK	22:51	11/13/07	1.000
ID8K011042	CCV4	22:57	11/13/07	1.000
ID8K011043	CCB4	23:02	11/13/07	1.000
ID8K011044	IPK016SB	23:07	11/13/07	1.000
ID8K011045	IPK016SL	23:13	11/13/07	1.000
ID8K011046	IPK016SC	23:18	11/13/07	1.000
ID8K011047	K044-01	23:24	11/13/07	1.000
ID8K011048	K044-02M	23:29	11/13/07	1.000
ID8K011049	K044-02S	23:35	11/13/07	1.000
ID8K011050	K044-02A	23:40	11/13/07	1.000
ID8K011051	K044-02	23:46	11/13/07	1.000
ID8K011052	K044-02J	23:51	11/13/07	5.000
ID8K011053	BLANK	23:57	11/13/07	1.000

ID8K011054	CCV5	00:02	11/14/07	1.000
ID8K011055	CCB5	00:08	11/14/07	1.000
ID8K011056	BLANK	00:13	11/14/07	1.000
ID8K011057	K044-04	00:19	11/14/07	1.000
ID8K011058	K044-05	00:24	11/14/07	1.000
ID8K011059	K044-06	00:30	11/14/07	1.000
ID8K011060	K044-07	00:35	11/14/07	1.000
ID8K011061	K044-08	00:41	11/14/07	1.000
ID8K011062	K044-09	00:46	11/14/07	1.000
ID8K011063	K044-10	00:52	11/14/07	1.000
ID8K011064	K044-11	00:57	11/14/07	1.000
ID8K011065	BLANK	01:03	11/14/07	1.000
ID8K011066	CCV6	01:09	11/14/07	1.000
ID8K011067	CCB6	01:14	11/14/07	1.000
ID8K011068	K044-12	01:20	11/14/07	1.000
ID8K011069	K044-13	01:25	11/14/07	1.000
ID8K011070	K044-14	01:30	11/14/07	1.000
ID8K011071	K044-15	01:36	11/14/07	1.000
ID8K011072	BLANK	01:42	11/14/07	1.000
ID8K011073	K044-17	01:47	11/14/07	1.000
ID8K011074	K044-18	01:53	11/14/07	1.000
ID8K011075	K044-19	01:58	11/14/07	1.000
ID8K011076	K044-20	02:04	11/14/07	1.000
ID8K011077	BLANK	02:09	11/14/07	1.000
ID8K011078	CCV7	02:15	11/14/07	1.000
ID8K011079	CCB7	02:20	11/14/07	1.000
ID8K011080	K044-21	02:26	11/14/07	1.000
ID8K011081	K044-22	02:31	11/14/07	1.000
ID8K011082	IPJ062WB	02:37	11/14/07	1.000
ID8K011083	IPJ062WL	02:42	11/14/07	1.000
ID8K011084	IPJ062WC	02:48	11/14/07	1.000
ID8K011085	J348-03A	02:53	11/14/07	1.000
ID8K011086	J348-03	02:58	11/14/07	1.000
ID8K011087	J348-03J	03:04	11/14/07	5.000
ID8K011088	J348-04	03:09	11/14/07	1.000
ID8K011089	BLANK	03:15	11/14/07	1.000
ID8K011090	CCV8	03:20	11/14/07	1.000
ID8K011091	CCB8	03:26	11/14/07	1.000
ID8K011092	J333-04	03:31	11/14/07	1.000
ID8K011093	J333-04M	03:37	11/14/07	1.000
ID8K011094	J333-04S	03:42	11/14/07	1.000
ID8K011095	J333-05	03:47	11/14/07	1.000
ID8K011096	J333-06	03:53	11/14/07	1.000
ID8K011097	J333-07	03:58	11/14/07	1.000
ID8K011098	J333-08	04:04	11/14/07	1.000
ID8K011099	J333-09	04:09	11/14/07	1.000
ID8K011100	J333-10	04:15	11/14/07	1.000
ID8K011101	BLANK	04:21	11/14/07	1.000
ID8K011102	CCV9	04:26	11/14/07	1.000
ID8K011103	CCB9	04:31	11/14/07	1.000
ID8K011104	J333-11	04:37	11/14/07	1.000
ID8K011105	J333-12	04:43	11/14/07	1.000
ID8K011106	J331-01	04:48	11/14/07	1.000
ID8K011107	J344-02	04:54	11/14/07	1.000
ID8K011108	J345-02	04:59	11/14/07	1.000
ID8K011109	J366-02	05:05	11/14/07	1.000

ID8K011110	ICSAF	05:10	11/14/07	1.000
ID8K011111	ICSABF	05:16	11/14/07	1.000
ID8K011112	BLANK	05:22	11/14/07	1.000
ID8K011113	CCV10	05:27	11/14/07	1.000
ID8K011114	CCB10	05:33	11/14/07	1.000
ID8K011115	IPK018SB	05:38	11/14/07	1.000
ID8K011116	IPK018SL	05:44	11/14/07	1.000
ID8K011117	IPK018SC	05:49	11/14/07	1.000
ID8K011118	K075-01	05:54	11/14/07	1.000
ID8K011119	K075-02M	06:00	11/14/07	1.000
ID8K011120	K075-02S	06:05	11/14/07	1.000
ID8K011121	K075-02A	06:10	11/14/07	1.000
ID8K011122	K075-02	06:16	11/14/07	1.000
ID8K011123	K075-02J	06:21	11/14/07	5.000
ID8K011124	BLANK	06:27	11/14/07	1.000
ID8K011125	CCV11	06:32	11/14/07	1.000
ID8K011126	CCB11	06:38	11/14/07	1.000
ID8K011127	K075-03	06:43	11/14/07	1.000
ID8K011128	K075-04	06:49	11/14/07	1.000
ID8K011129	K075-05	06:54	11/14/07	1.000
ID8K011130	K075-06	07:00	11/14/07	1.000
ID8K011131	K075-07	07:05	11/14/07	1.000
ID8K011132	K075-08	07:10	11/14/07	1.000
ID8K011133	K075-09	07:16	11/14/07	1.000
ID8K011134	K075-10	07:21	11/14/07	1.000
ID8K011135	K075-11	07:27	11/14/07	1.000
ID8K011136	BLANK	07:32	11/14/07	1.000
ID8K011137	CCV12	07:38	11/14/07	1.000
ID8K011138	CCB12	07:43	11/14/07	1.000
ID8K011139	K075-12	07:49	11/14/07	1.000
ID8K011140	K075-13	07:54	11/14/07	1.000
ID8K011141	K075-14	08:00	11/14/07	1.000
ID8K011142	K091-01	08:05	11/14/07	1.000
ID8K011143	ICSAF	08:11	11/14/07	1.000
ID8K011144	ICSABF	08:16	11/14/07	1.000
ID8K011145	BLANK	08:22	11/14/07	1.000
ID8K011146	CCV13	08:27	11/14/07	1.000
ID8K011147	CCB13	08:33	11/14/07	1.000

SDG : _____ UNIT : % SUMMARY of ICV and CCV : ID8K011 DATE : 11/13/07 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	94	98	99	98	101	110	100	101	98	99	94	99	99	99	97	100	99	96	98	100	98	94	102	102
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	89	----	----	----	----	----	----	94	----	----	----	91	----	99	----	----	----	----	----	----	----	----	----	----
ICSABI	89	99	100	104	98	105	100	92	96	98	92	90	93	97	93	105	96	106	99	110	106	89	101	98
CCV1	95	94	96	97	98	101	100	98	95	98	91	94	95	98	96	103	98	95	96	97	96	93	99	98
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	95	96	97	99	99	103	101	100	97	100	93	96	97	100	97	104	100	96	98	99	98	95	102	101
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	96	96	98	99	100	102	102	100	96	100	94	96	97	100	97	105	100	97	98	98	98	95	101	101
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	95	94	96	98	98	101	100	98	95	99	95	95	96	99	97	104	99	96	96	97	97	94	99	99
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	94	93	94	97	96	99	100	96	93	99	95	93	95	98	96	104	98	94	94	96	96	94	97	98
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	97	95	94	101	98	103	100	100	95	99	102	94	96	100	99	104	99	99	96	99	99	94	100	98
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	96	95	95	101	98	103	100	99	95	100	104	94	96	100	100	105	99	99	96	99	100	95	99	98
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	97	96	96	100	98	103	100	100	95	100	105	94	96	99	99	104	99	100	97	99	100	94	100	98
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	95	95	95	100	98	102	100	100	94	99	103	93	96	99	99	104	99	99	96	98	100	94	99	98
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J345-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J366-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ICSAF	89	----	----	----	----	----	----	91	----	----	----	87	----	96	----	----	----	----	----	----	----	----	----	----
ICSABF	87	97	96	107	95	104	99	89	90	97	106	86	92	96	94	105	96	110	96	106	108	89	95	97
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	96	95	95	100	97	104	100	97	94	99	108	94	96	98	97	104	99	100	96	98	101	94	98	98
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK018SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK018SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	95	95	94	99	96	102	100	97	94	99	107	94	96	97	96	105	99	101	95	98	101	95	98	98
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	95	94	93	100	97	100	101	97	92	99	108	93	96	98	95	105	99	100	94	95	101	95	96	98
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K091-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	90	----	----	----	----	----	----	92	----	----	----	89	----	99	----	----	----	----	----	----	----	----	----	----
ICSABF	90	101	98	109	97	106	101	91	94	100	111	89	95	98	95	109	99	113	98	111	111	92	99	99
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	96	94	94	101	98	101	101	98	93	100	109	93	97	98	98	106	100	101	94	97	102	95	98	98
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : _____ UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K011 (WATER) DATE : 11/13/07 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	15.5	.190	.460	-.230	-.510	1.31	.100	57.5	-.090	-.100	-.410	-3.90	-.030	-81.8	-.040	.360	.290	32.2	-2.58	-.080	8.59	.970	.180	3.11
ICSAI	----	2.28	-5.45	.200	-.180	-7.78	3.58	----	.790	.230	2.37	----	-11.3	----	.010	-1.65	-.090	42.2	6.94	-.240	116	-1.17	-.020	-4.61
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	7.21	.220	1.52	.350	-.030	2.91	.110	47.0	-.110	.080	-.180	9.02	.690	27.0	-.750	.310	.280	30.4	-2.16	.020	54.3	1.59	.170	1.94
IPK015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	8.66	.150	.630	-.450	-.050	.960	.060	42.0	-.040	.010	-.240	-1.36	.350	55.1	.370	.340	.250	45.0	-2.16	.000	-5.32	1.02	.080	8.44
K043-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	9.16	-.430	1.50	.190	-.260	1.000	.080	36.4	-.060	-.020	-.060	-4.94	-.060	29.9	.600	.180	-.210	24.9	-1.92	.150	-9.12	.710	.270	1.55
K043-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	8.89	-.250	.790	-.780	-.160	1.62	.080	36.9	5.20	-.060	-.130	18.1	.630	-57.4	.170	.200	.160	63.9	-1.90	.030	12.1	1.42	.250	1.98
IPK016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	5.66	-.200	.840	-.350	-.100	1.14	.070	53.0	.090	.020	.120	-.410	.540	-54.8	1.92	.270	.300	67.7	-1.50	.050	9.89	1.10	.300	1.97
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	1.10	-.760	1.98	-.590	.020	3.00	.100	55.8	.090	.300	-.100	3.23	-.200	-8.31	-1.51	.300	.300	70.8	-1.85	-.130	29.4	.540	.270	1.54
K044-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	1.80	-.680	1.03	-.390	-.140	2.66	.060	34.0	-.170	.130	-.160	1.43	.600	-21.1	.500	.330	-.010	41.9	-1.31	-.230	-17.9	1.03	.140	1.12
K044-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-2.80	.310	.250	-.550	-.170	2.57	.110	76.8	-.140	.140	.330	.120	-.160	-80.6	-1.59	.350	.320	87.5	-1.62	.080	81.1	1.17	.280	3.74
J333-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-5.11	.700	-.960	-.560	-.080	.560	.060	21.5	-.150	.050	-.170	-7.70	.150	-14.5	-2.41	.460	.090	112	-.310	-.010	48.4	.950	.330	.100
J333-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J345-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J366-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ICSAF	----	1.43	-5.37	.000	-.190	17.6	5.84	----	.040	.070	2.91	----	-13.7	----	1.54	-1.51	-.030	417	6.63	-.220	1544	-1.00	-.250	-1.90
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	6.58	-.040	.300	-.720	.070	8.57	.040	38.0	-.080	-.090	.010	-4.20	-.030	-29.3	-1.12	.370	.150	160	-1.11	-.060	336	1.06	.480	-.150
IPK018SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK018SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-5.34	.250	.530	-.940	-.120	2.43	.120	29.5	-.130	.040	-.180	-4.87	.260	-6.39	-.700	.330	.320	102	-.630	-.120	118	1.44	.430	.440
K075-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-6.80	-.070	.990	-.920	.100	1.05	.080	17.6	-.170	.080	.040	-5.08	.600	6.84	-.050	.320	.130	59.1	-.570	.100	65.8	1.38	.380	-.180
K075-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K091-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	1.14	-5.08	.020	-.270	-2.07	6.34	----	.020	.160	2.89	----	-10.6	----	.810	-2.06	.490	141	7.16	-.250	210	-.280	-.090	-4.48
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	-4.83	-.120	.690	-.630	.070	.670	.090	10.4	-.070	.060	.080	-3.71	.710	-19.4	-.730	.380	.100	51.0	-1.47	-.220	81.3	1.28	.420	-.220

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : _____ UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K011 (SOIL) DATE : 11/13/07 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	15.5	.190	.460	-.230	-.510	1.31	.100	57.5	-.090	-.100	-.410	-3.90	-.030	-81.8	-.040	.360	.290	32.2	-2.58	-.080	8.59	.970	.180	3.11
ICSAI	----	2.28	-5.45	.200	-.180	-7.78	3.58	----	.790	.230	2.37	----	-11.3	----	.010	-1.65	-.090	42.2	6.94	-.240	116	-1.17	-.020	-4.61
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	7.21	.220	1.52	.350	-.030	2.91	.110	47.0	-.110	.080	-.180	9.02	.690	27.0	-.750	.310	.280	30.4	-2.16	.020	54.3	1.59	.170	1.94
IPK015SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK015SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK015SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	8.66	.150	.630	-.450	-.050	.960	.060	42.0	-.040	.010	-.240	-1.36	.350	55.1	.370	.340	.250	45.0	-2.16	.000	-5.32	1.02	.080	8.44
K043-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	9.16	-.430	1.50	.190	-.260	1.000	.080	36.4	-.060	-.020	-.060	-4.94	-.060	29.9	.600	.180	-.210	24.9	-1.92	.150	-9.12	.710	.270	1.55
K043-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K043-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	8.89	-.250	.790	-.780	-.160	1.62	.080	36.9	5.20	-.060	-.130	18.1	.630	-57.4	.170	.200	.160	63.9	-1.90	.030	12.1	1.42	.250	1.98
IPK016SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK016SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK016SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	5.66	-.200	.840	-.350	-.100	1.14	.070	53.0	.090	.020	.120	-.410	.540	-54.8	1.92	.270	.300	67.7	-1.50	.050	9.89	1.10	.300	1.97
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	1.10	-.760	1.98	-.590	.020	3.00	.100	55.8	.090	.300	-.100	3.23	-.200	-8.31	-1.51	.300	.300	70.8	-1.85	-.130	29.4	.540	.270	1.54
K044-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	1.80	-.680	1.03	-.390	-.140	2.66	.060	34.0	-.170	.130	-.160	1.43	.600	-21.1	.500	.330	-.010	41.9	-1.31	-.230	-17.9	1.03	.140	1.12
K044-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ062WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J348-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-2.80	.310	.250	-.550	-.170	2.57	.110	76.8	-.140	.140	.330	.120	-.160	-80.6	-1.59	.350	.320	87.5	-1.62	.080	81.1	1.17	.280	3.74
J333-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-04M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-04S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-5.11	.700	-.960	-.560	-.080	.560	.060	21.5	-.150	.050	-.170	-7.70	.150	-14.5	-2.41	.460	.090	112	-.310	-.010	48.4	.950	.330	.100
J333-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J333-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J344-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J345-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J366-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ICSAF	----	1.43	-5.37	.000	-.190	17.6	5.84	----	.040	.070	2.91	----	-13.7	----	1.54	-1.51	-.030	417	6.63	-.220	1544	-1.00	-.250	-1.90
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	6.58	-.040	.300	-.720	.070	8.57	.040	38.0	-.080	-.090	.010	-4.20	-.030	-29.3	-1.12	.370	.150	160	-1.11	-.060	336	1.06	.480	-.150
IPK018SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK018SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-5.34	.250	.530	-.940	-.120	2.43	.120	29.5	-.130	.040	-.180	-4.87	.260	-6.39	-.700	.330	.320	102	-.630	-.120	118	1.44	.430	.440
K075-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-6.80	-.070	.990	-.920	.100	1.05	.080	17.6	-.170	.080	.040	-5.08	.600	6.84	-.050	.320	.130	59.1	-.570	.100	65.8	1.38	.380	-.180
K075-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K075-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K091-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	1.14	-5.08	.020	-.270	-2.07	6.34	----	.020	.160	2.89	----	-10.6	----	.810	-2.06	.490	141	7.16	-.250	210	-.280	-.090	-4.48
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	-4.83	-.120	.690	-.630	.070	.670	.090	10.4	-.070	.060	.080	-3.71	.710	-19.4	-.730	.380	.100	51.0	-1.47	-.220	81.3	1.28	.420	-.220

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0			ID8K011001		1	☐		Continue
2	0	Unk	S2			ID8K011002		1	☐		Continue
3	0	Unk	S5			ID8K011003		1	☐		Continue
4	0	Unk	S8			ID8K011004		1	☐		Continue
5	1	QC	ICV			ID8K011005		1	☒	ICV	Continue
6	2	QC	ICB			ID8K011006		1	☒	CCB1	Continue
7	3	QC	ICSAI			ID8K011007		1	☒	ICSA	Continue
8	4	QC	ICSABI			ID8K011008		1	☒	ICSAB	Continue
9	5	QC	CCV1			ID8K011009		1	☒	CCV	Continue
10	6	QC	CCB1			ID8K011010		1	☒	CCB1	Continue
11	7	QC	IPK015SB			ID8K011011		1	☒	CCB1	Continue
12	8	QC	IPK015SL			ID8K011012		1	☒	LCS	Continue
13	9	QC	IPK015SC			ID8K011013		1	☒	LCS	Continue
14	10	Unk	K043-03			ID8K011014		1	☐		Continue
15	11	Unk	K043-05			ID8K011015		1	☐		Continue
16	12	Unk	K043-06M			ID8K011016		1	☐		Continue
17	13	Unk	K043-06S			ID8K011017		1	☐		Continue
18	14	Unk	K043-06A			ID8K011018		1	☐		Continue
19	15	Unk	BLANK			ID8K011019		1	☐		Continue
20	16	QC	CCV2			ID8K011020		1	☒	CCV	Continue
21	17	QC	CCB2			ID8K011021		1	☒	CCB1	Continue
22	18	Unk	K043-06			ID8K011022		1	☐		Continue
23	19	Unk	K043-06J			ID8K011023		1	☐		Continue
24	20	Unk	K043-07			ID8K011024		1	☐		Continue
25	21	Unk	K043-08			ID8K011025		1	☐		Continue
26	22	Unk	K043-09			ID8K011026		1	☐		Continue
27	23	Unk	K043-10			ID8K011027		1	☐		Continue
28	24	Unk	K043-11			ID8K011028		1	☐		Continue
29	25	Unk	K043-12			ID8K011029		1	☐		Continue
30	26	Unk	K043-13			ID8K011030		1	☐		Continue
31	27	Unk	BLANK			ID8K011031		1	☐		Continue
32	28	QC	CCV3			ID8K011032		1	☒	CCV	Continue
33	29	QC	CCB3			ID8K011033		1	☒	CCB1	Continue
34	30	Unk	K043-14			ID8K011034		1	☐		Continue
35	31	Unk	K043-15			ID8K011035		1	☐		Continue
36	32	Unk	K043-16			ID8K011036		1	☐		Continue
37	33	Unk	K043-17			ID8K011037		1	☐		Continue
38	34	Unk	K043-18			ID8K011038		1	☐		Continue
39	35	Unk	K043-19			ID8K011039		1	☐		Continue
40	36	Unk	K043-20			ID8K011040		1	☐		Continue
41	37	Unk	BLANK			ID8K011041		1	☐		Continue
42	38	QC	CCV4			ID8K011042		1	☒	CCV	Continue
43	39	QC	CCB4			ID8K011043		1	☒	CCB1	Continue
44	40	QC	IPK016SB			ID8K011044		1	☒	CCB1	Continue
45	41	QC	IPK016SL			ID8K011045		1	☒	LCS	Continue
46	42	QC	IPK016SC			ID8K011046		1	☒	LCS	Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	Unk	K044-01			ID8K011047		1	☐		Continue
48	44	Unk	K044-02M			ID8K011048		1	☐		Continue
49	45	Unk	K044-02S			ID8K011049		1	☐		Continue
50	46	Unk	K044-02A			ID8K011050		1	☐		Continue
51	47	Unk	K044-02			ID8K011051		1	☐		Continue
52	48	Unk	K044-02J			ID8K011052		1	☐		Continue
53	49	Unk	BLANK			ID8K011053		1	☐		Continue
54	50	QC	CCV5			ID8K011054		1	☒	CCV	Continue
55	51	QC	CCB5			ID8K011055		1	☒	CCB1	Continue
56	52	Unk	BLANK			ID8K011056		1	☐		Continue
57	53	Unk	K044-04			ID8K011057		1	☐		Continue
58	54	Unk	K044-05			ID8K011058		1	☐		Continue
59	55	Unk	K044-06			ID8K011059		1	☐		Continue
60	56	Unk	K044-07			ID8K011060		1	☐		Continue
61	57	Unk	K044-08			ID8K011061		1	☐		Continue
62	58	Unk	K044-09			ID8K011062		1	☐		Continue
63	59	Unk	K044-10			ID8K011063		1	☐		Continue
64	60	Unk	K044-11			ID8K011064		1	☐		Continue
65	61	Unk	BLANK			ID8K011065		1	☐		Continue
66	62	QC	CCV6			ID8K011066		1	☒	CCV	Continue
67	63	QC	CCB6			ID8K011067		1	☒	CCB1	Continue
68	64	Unk	K044-12			ID8K011068		1	☐		Continue
69	65	Unk	K044-13			ID8K011069		1	☐		Continue
70	66	Unk	K044-14			ID8K011070		1	☐		Continue
71	67	Unk	K044-15			ID8K011071		1	☐		Continue
72	68	Unk	BLANK			ID8K011072		1	☐		Continue
73	69	Unk	K044-17			ID8K011073		1	☐		Continue
74	70	Unk	K044-18			ID8K011074		1	☐		Continue
75	71	Unk	K044-19			ID8K011075		1	☐		Continue
76	72	Unk	K044-20			ID8K011076		1	☐		Continue
77	73	Unk	BLANK			ID8K011077		1	☐		Continue
78	74	QC	CCV7			ID8K011078		1	☒	CCV	Continue
79	75	QC	CCB7			ID8K011079		1	☒	CCB1	Continue
80	76	Unk	K044-21			ID8K011080		1	☐		Continue
81	77	Unk	K044-22			ID8K011081		1	☐		Continue
82	78	QC	IPJ062WB			ID8K011082		1	☒	CCB1	Continue
83	79	QC	IPJ062WL			ID8K011083		1	☒	LCS	Continue
84	80	QC	IPJ062WC			ID8K011084		1	☒	LCS	Continue
85	81	Unk	J348-03A			ID8K011085		1	☐		Continue
86	82	Unk	J348-03			ID8K011086		1	☐		Continue
87	83	Unk	J348-03J			ID8K011087		1	☐		Continue
88	84	Unk	J348-04			ID8K011088		1	☐		Continue
89	85	Unk	BLANK			ID8K011089		1	☐		Continue
90	86	QC	CCV8			ID8K011090		1	☒	CCV	Continue
91	87	QC	CCB8			ID8K011091		1	☒	CCB1	Continue
92	88	Unk	J333-04			ID8K011092		1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	Unk	J333-04M			ID8K011093		1	☐		Continue
94	90	Unk	J333-04S			ID8K011094		1	☐		Continue
95	91	Unk	J333-05			ID8K011095		1	☐		Continue
96	92	Unk	J333-06			ID8K011096		1	☐		Continue
97	93	Unk	J333-07			ID8K011097		1	☐		Continue
98	94	Unk	J333-08			ID8K011098		1	☐		Continue
99	95	Unk	J333-09			ID8K011099		1	☐		Continue
100	96	Unk	J333-10			ID8K011100		1	☐		Continue
101	97	Unk	BLANK			ID8K011101		1	☐		Continue
102	98	QC	CCV9			ID8K011102		1	☒	CCV	Continue
103	99	QC	CCB9			ID8K011103		1	☒	CCB1	Continue
104	100	Unk	J333-11			ID8K011104		1	☐		Continue
105	101	Unk	J333-12			ID8K011105		1	☐		Continue
106	102	Unk	J331-01	↑Mg ↑Na ↓K		ID8K011106		1	☐		Continue
107	103	Unk	J344-02			ID8K011107		1	☐		Continue
108	104	Unk	J345-02			ID8K011108		1	☐		Continue
109	105	Unk	J366-02			ID8K011109		1	☐		Continue
110	106	QC	ICSAF			ID8K011110		1	☒	ICSA	Continue
111	107	QC	ICSABF			ID8K011111		1	☒	ICSAB	Continue
112	108	Unk	BLANK			ID8K011112		1	☐		Continue
113	109	QC	CCV10			ID8K011113		1	☒	CCV	Continue
114	110	QC	CCB10			ID8K011114		1	☒	CCB1	Continue
115	111	QC	IPK018SB			ID8K011115		1	☒	CCB1	Continue
116	112	QC	IPK018SL			ID8K011116		1	☒	LCS	Continue
117	113	QC	IPK018SC			ID8K011117		1	☒	LCS	Continue
118	114	Unk	K075-01			ID8K011118		1	☐		Continue
119	115	Unk	K075-02M			ID8K011119		1	☐		Continue
120	116	Unk	K075-02S			ID8K011120		1	☐		Continue
121	117	Unk	K075-02A			ID8K011121		1	☐		Continue
122	118	Unk	K075-02			ID8K011122		1	☐		Continue
123	119	Unk	K075-02J			ID8K011123		1	☐		Continue
124	120	Unk	BLANK			ID8K011124		1	☐		Continue
125	121	QC	CCV11			ID8K011125		1	☒	CCV	Continue
126	122	QC	CCB11			ID8K011126		1	☒	CCB1	Continue
127	123	Unk	K075-03			ID8K011127		1	☐		Continue
128	124	Unk	K075-04			ID8K011128		1	☐		Continue
129	125	Unk	K075-05			ID8K011129		1	☐		Continue
130	126	Unk	K075-06			ID8K011130		1	☐		Continue
131	127	Unk	K075-07			ID8K011131		1	☐		Continue
132	128	Unk	K075-08			ID8K011132		1	☐		Continue
133	129	Unk	K075-09			ID8K011133		1	☐		Continue
134	130	Unk	K075-10			ID8K011134		1	☐		Continue
135	131	Unk	K075-11			ID8K011135		1	☐		Continue
136	132	Unk	BLANK			ID8K011136		1	☐		Continue
137	133	QC	CCV12			ID8K011137		1	☒	CCV	Continue
138	134	QC	CCB12			ID8K011138		1	☒	CCB1	Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
139	135	Unk	K075-12			ID8K011139		1	☐		Continue
140	136	Unk	K075-13			ID8K011140		1	☐		Continue
141	137	Unk	K075-14			ID8K011141		1	☐		Continue
142	138	Unk	K091-01			ID8K011142		1	☐		Continue
143	139	QC	ICSAF			ID8K011143		1	☒	ICSA	Continue
144	140	QC	ICSABF			ID8K011144		1	☒	ICSAB	Continue
145	141	Unk	BLANK			ID8K011145		1	☐		Continue
146	142	QC	CCV13			ID8K011146		1	☒	CCV	Continue
147	143	QC	CCB13			ID8K011147		1	☒	CCB1	Continue

	Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation
	Al 308.215 {109}	11/13/2007 19:36:08	Linear	1/Conc	0.001375	0.025446	0.000000	1.000000	1.000000
	Sb 206.833 {463}	11/13/2007 19:30:34	Linear	1/Conc	0.000027	0.008105	0.000000	1.000000	1.000000
	As 189.042 {478}	11/13/2007 19:30:34	Linear	1/Conc	-0.000027	0.005083	0.000000	1.000000	1.000000
	Ba 455.403 { 74}	11/13/2007 19:25:06	Linear	1/Conc	0.001399	0.843231	0.000000	1.000000	1.000000
	Be 313.042 {108}	11/13/2007 19:25:06	Linear	1/Conc	0.000132	0.727102	0.000000	1.000000	1.000000
	B 249.773 {135}	11/13/2007 19:25:06	Linear	1/Conc	0.000033	0.098285	0.000000	1.000000	1.000000
	Cd 226.502 {449}	11/13/2007 19:25:06	Linear	1/Conc	-0.000086	2.554725	0.000000	1.000000	1.000000
	Ca 317.933 {106}	11/13/2007 19:36:08	Linear	1/Conc	-0.000039	0.015073	0.000000	1.000000	1.000000
	Cr 267.716 {126}	11/13/2007 19:25:06	Linear	1/Conc	0.000163	0.171253	0.000000	1.000000	1.000000
	Co 228.616 {447}	11/13/2007 19:25:06	Linear	1/Conc	-0.000244	0.692632	0.000000	1.000000	1.000000
	Cu 324.754 {104}	11/13/2007 19:25:06	Linear	1/Conc	0.005680	3.008261	0.000000	1.000000	1.000000
	Fe 271.441 {124}	11/13/2007 19:36:08	Linear	1/Conc	0.000034	0.007705	0.000000	1.000000	1.000000
	Pb 220.353 {453}	11/13/2007 19:25:06	Linear	1/Conc	-0.000013	0.191950	0.000000	1.000000	1.000000
	Li 670.784 { 50}	2/2/2007 14:25:23	Linear	1/Conc	0.002046	0.234028	0.000000	1.000000	1.000000
	Mg 279.079 {121}	11/13/2007 19:36:08	Linear	1/Conc	0.000035	0.001549	0.000000	1.000000	1.000000
	Mn 257.610 {131}	11/13/2007 19:25:06	Linear	1/Conc	0.000036	0.055482	0.000000	1.000000	1.000000
	Mo 202.030 {467}	11/13/2007 19:30:34	Linear	1/Conc	-0.000039	0.713180	0.000000	1.000000	1.000000
	Ni 231.604 {446}	11/13/2007 19:25:06	Linear	1/Conc	-0.000449	0.640808	0.000000	1.000000	1.000000
	K 766.490 { 44}	11/13/2007 19:36:08	Linear	1/Conc	-0.002906	0.029265	0.000000	1.000000	1.000000
	Se 196.090 {472}	11/13/2007 19:30:34	Linear	1/Conc	0.000014	0.004941	0.000000	1.000000	1.000000
	Si 212.412 {459}	2/2/2007 14:25:23	Linear	1/Conc	0.006974	0.273496	0.000000	1.000000	1.000000
	Ag 328.068 {103}	11/13/2007 19:25:06	Linear	1/Conc	0.000193	0.195745	0.000000	1.000000	1.000000
	Na 589.592 { 57}	11/13/2007 19:36:08	Linear	1/Conc	0.001451	0.078942	0.000000	1.000000	1.000000
	Sr 421.552 { 80}	11/13/2007 19:25:06	Linear	1/Conc	-0.000937	0.934272	0.000000	1.000000	1.000000
	Tl 190.856 {477}	11/13/2007 19:25:06	Linear	1/Conc	-0.000595	0.140911	0.000000	1.000000	1.000000
	Sn 189.989 {477}	11/13/2007 19:25:06	Linear	1/Conc	0.000131	0.158934	0.000000	1.000000	1.000000
	Ti 334.941 {101}	11/13/2007 19:25:06	Linear	1/Conc	0.000051	0.065107	0.000000	1.000000	1.000000
	U 409.014 { 82}	2/2/2007 14:25:23	Linear	1/Conc	0.000061	0.011861	0.000000	1.000000	1.000000
	V 292.402 {115}	11/13/2007 19:25:06	Linear	1/Conc	-0.000198	0.153262	0.000000	1.000000	1.000000
	Zn 206.200 {463}	11/13/2007 19:30:34	Linear	1/Conc	0.001546	0.883751	0.000000	1.000000	1.000000
	Sc 227.318 {448}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
	Sc 361.384 { 93}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
	Sc 364.531 { 92}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000

	Element, Wavelength and Order	Std Error of Est	MDL	MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
	Al 308.215 {109}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Fe 271.441 {124}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ni 231.604 {446}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	K 766.490 { 44}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ag 328.068 {103}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	U 409.014 { 82}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sc 227.318 {448}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
	Sc 361.384 { 93}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
	Sc 364.531 { 92}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0

DIGESTION LOG FOR ICP METALS

Book # EIP-064

SOP ☐ EMAX-3005 Rev. No.4 ☑ EMAX-3010 Rev. No. 3 ☐ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐

Matrix: WATER Start Date: 10-30-07 Time: 13:00 Temp: 90 °C Ending Date: 10-30-07 Time: 17:00 Temp.: 90 °C

BATCH: IPJ062-W

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPJ062-WB					50	–	50		
02	-WL					50	–	50		
03	-WC					50	–	50		
04	J348-03					50	<2	50		
05	-04					50		50		
06	J333-04					50		50		
07	-04M					50		50		
08	-04S					50		50		
09	-05					50		50		
10	-06					50		50		
11	-07					50		50		
12	-08					50		50		
13	-09					50		50		
14	-10					50		50		
15	-11					50		50		
16	-12					50		50		
17	J331-01 *					50		50		
18	J344-02					50		50		
19	J345-02					50		50		
20	J366-02					50		50		
21										
22										
23										
24										
25										

10-30-07 [illegible]

Standards	ID	Amount Added (ml)
LCS -1	SMIA-10-99	0.5
LCS -2	SMIA-10-98	0.5
LCS -3	SMIA-10-97	0.5
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SWIA-03-605	~~0.5~~ 1.5+1.5
HCl	SWIA-03-612	2.5
H_2O_2	N/A	
HNO3 (1:1)		

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

* Filtered & Preserved 10/26/7

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 10/30/07

Checked By: CPC

Date Disposed: Disposed by:

7059

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No. 4 ☐ EMAX-3010 Rev. No. 3 ☑ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: SOIL Start Date: 10-30-07 Time: 13:10 Temp: 90 °C Ending Date: 10-30-07 Time: 17:10 Temp.: 90 °C

BATCH: IPJ063-S

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g ~~| ml~~)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPJ063-SB					—	N/A	100		
02	| -SL					—	|	100		
03	↓ -SC					—		100		
04	J333-01					1.003		100		
05	| -02					1.001		100		
06	↓ -03					1.003		100		
07	J344-03					1.002		100		
08	| -04					1.001		100		
09	| -05					1.002		100		
10	| -06					1.001		100		
11	| -07					1.000		100		
12	| -07M					1.003		100		
13	| -07S					1.003		100		
14	| -08					1.002		100		
15	| -09					1.001		100		
16	| -10					1.000		100		
17	| -11					1.002		100		
18	↓ -12					1.003	↓	100		
19	J370-01					1.002		100		
20										
21										
22										
23										
24										
25										

10-30-07 MC

Standards	ID	Amount Added (ml)
LCS -1	SM1A - 10 - 99	1.0
LCS -2	SM1A - 10 - 98	1.0
LCS -3	SM1A - 10 - 97	1.0
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SW1A -03 - 645	10.0
HCl	SW1A -03 - 612	10.0
H_2O_2	SW1A -03 - 573	10.0
HNO3 (1:1)	SM5B-02-69	10.0

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 10/30/07

Checked By: CPC

Date Disposed: Disposed by:

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J344

METHOD 7470A/7471A
MERCURY BY COLD VAPOR

One (1) water and ten (10) soil samples were received on 10/26/07 for Mercury analysis by Method 7470A/7471A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Serial Dilution/Post-Analytical Spike**

   Sample J344-07 and sample J347-05 from another SDG were analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. **Matrix Spike/Matrix Spike Duplicate**

   Sample J344-07 was spiked. All recoveries were within QC limit.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J344
Instrument ID : TI047

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGJ055SB	1	NA	10/31/0718:09	10/31/0714:00	M47J036041	M47J036032	HGJ055S	Method Blank
LCS1S	HGJ055SL	1	NA	10/31/0718:11	10/31/0714:00	M47J036042	M47J036032	HGJ055S	Lab Control Sample (LCS)
LCD1S	HGJ055SC	1	NA	10/31/0718:13	10/31/0714:00	M47J036043	M47J036032	HGJ055S	LCS Duplicate
SB1-35'AS	J344-07A	1	9.5	10/31/0718:19	10/31/0714:00	M47J036046	M47J036044	HGJ055S	Analytical Spike Sample
SB1-35'	J344-07	1	9.5	10/31/0718:21	10/31/0714:00	M47J036047	M47J036044	HGJ055S	Field Sample
SB1-35'DL	J344-07J	5	9.5	10/31/0718:23	10/31/0714:00	M47J036048	M47J036044	HGJ055S	Diluted Sample
SB1-35'MS	J344-07M	1	9.5	10/31/0718:25	10/31/0714:00	M47J036049	M47J036044	HGJ055S	Matrix Spike Sample (MS)
SB1-35'MSD	J344-07S	1	9.5	10/31/0718:27	10/31/0714:00	M47J036050	M47J036044	HGJ055S	MS Duplicate (MSD)
SB1-15'	J344-03	1	9.3	10/31/0718:29	10/31/0714:00	M47J036051	M47J036044	HGJ055S	Field Sample
SB1-15'DUP	J344-04	1	9.3	10/31/0718:31	10/31/0714:00	M47J036052	M47J036044	HGJ055S	Field Sample
SB1-18'	J344-05	1	9.0	10/31/0718:33	10/31/0714:00	M47J036053	M47J036044	HGJ055S	Field Sample
SB1-20'	J344-06	1	7.9	10/31/0718:35	10/31/0714:00	M47J036054	M47J036044	HGJ055S	Field Sample
SB1-40'	J344-08	1	9.8	10/31/0718:37	10/31/0714:00	M47J036055	M47J036044	HGJ055S	Field Sample
SB1-45'	J344-09	1	8.3	10/31/0718:43	10/31/0714:00	M47J036058	M47J036056	HGJ055S	Field Sample
SB1-50'	J344-10	1	8.0	10/31/0718:45	10/31/0714:00	M47J036059	M47J036056	HGJ055S	Field Sample
SB1-50'DUP	J344-11	1	9.0	10/31/0718:47	10/31/0714:00	M47J036060	M47J036056	HGJ055S	Field Sample
SB6-55'	J344-12	1	11.0	10/31/0718:49	10/31/0714:00	M47J036061	M47J036056	HGJ055S	Field Sample

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGK001WB	1	NA	11/01/0717:25	11/01/0713:00	M47J037010	M47J037008	HGK001W	Method Blank
LCS1W	HGK001WL	1	NA	11/01/0717:27	11/01/0713:00	M47J037011	M47J037008	HGK001W	Lab Control Sample (LCS)
LCD1W	HGK001WC	1	NA	11/01/0717:29	11/01/0713:00	M47J037012	M47J037008	HGK001W	LCS Duplicate
LEB-102607	J344-02	1	NA	11/01/0717:43	11/01/0713:00	M47J037019	M47J037008	HGK001W	Field Sample
MW1-2	J347-05	1	NA	11/01/0718:07	11/01/0713:00	M47J037031	M47J037020	HGK001W	Field Sample
MW1-2AS	J347-05A	1	NA	11/01/0719:43	11/01/0713:00	M47J037078	M47J037068	HGK001W	Analytical Spike Sample
MW1-2DL	J347-05J	5	NA	11/01/0719:45	11/01/0713:00	M47J037079	M47J037068	HGK001W	Diluted Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J344

Matrix : WATER
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGK001WB	ND	1	NA	0.500	0.100	11/01/0717:25	11/01/0713:00	M47J037010	M47J037008	HGK001W	NA	11/01/07
LCS1W	HGK001WL	4.50	1	NA	0.500	0.100	11/01/0717:27	11/01/0713:00	M47J037011	M47J037008	HGK001W	NA	11/01/07
LCD1W	HGK001WC	4.52	1	NA	0.500	0.100	11/01/0717:29	11/01/0713:00	M47J037012	M47J037008	HGK001W	NA	11/01/07
LEB-102607	J344-02	ND	1	NA	0.500	0.100	11/01/0717:43	11/01/0713:00	M47J037019	M47J037008	HGK001W	10/26/07	10/26/07

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EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGK001WB	HGK001WL	HGK001WC		
LAB FILE ID:	M47J037010	M47J037011	M47J037012		
DATIME EXTRCTD:	11/01/0713:00	11/01/0713:00	11/01/0713:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/01/0717:25	11/01/0717:27	11/01/0717:29	DATE RECEIVED:	11/01/07
PREP. BATCH:	HGK001W	HGK001W	HGK001W		
CALIB. REF:	M47J037008	M47J037008	M47J037008		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	4.50	90	5.00	4.52	90	0	80-120	20

7694

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EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	MW1-2	MW1-2DL		
EMAX SAMP ID:	J347-05	J347-05J		
LAB FILE ID:	M47J037031	M47J037079		
DATE EXTRACTED:	11/01/0713:00	11/01/0713:00	DATE COLLECTED:	10/24/07
DATE ANALYZED:	11/01/0718:07	11/01/0719:45	DATE RECEIVED:	10/26/07
PREP. BATCH:	HGK001W	HGK001W		
CALIB. REF:	M47J037020	M47J037068		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SERIAL DIL RSLT (ug/L)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

7665

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	MW1-2			
CONTROL NO.:	J347-05	J347-05A		
LAB FILE ID:	M47J037031	M47J037078		
DATIME EXTRCTD:	11/01/0713:00	11/01/0713:00	DATE COLLECTED:	10/24/07
DATIME ANALYZD:	11/01/0718:07	11/01/0719:43	DATE RECEIVED:	10/26/07
PREP. BATCH:	HGK001W	HGK001W		
CALIB. REF:	M47J037020	M47J037068		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	AS RSLT (ug/L)	AS % REC	QC LIMIT (%)
Mercury	ND	2.00	1.94	97	85-115

7066

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METHOD 7471A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J344

Matrix : SOIL
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGJ055SB	ND	1	NA	0.100	0.0330	10/31/0718:09	10/31/0714:00	M47J036041	M47J036032	HGJ055S	NA	10/31/07
LCS1S	HGJ055SL	0.852	1	NA	0.100	0.0330	10/31/0718:11	10/31/0714:00	M47J036042	M47J036032	HGJ055S	NA	10/31/07
LCD1S	HGJ055SC	0.848	1	NA	0.100	0.0330	10/31/0718:13	10/31/0714:00	M47J036043	M47J036032	HGJ055S	NA	10/31/07
SB1-35'AS	J344-07A	0.365	1	9.5	0.110	0.0365	10/31/0718:19	10/31/0714:00	M47J036046	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-35'	J344-07	ND	1	9.5	0.110	0.0365	10/31/0718:21	10/31/0714:00	M47J036047	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-35'DL	J344-07J	ND	5	9.5	0.552	0.182	10/31/0718:23	10/31/0714:00	M47J036048	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-35'MS	J344-07M	0.963	1	9.5	0.110	0.0365	10/31/0718:25	10/31/0714:00	M47J036049	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-35'MSD	J344-07S	0.948	1	9.5	0.110	0.0365	10/31/0718:27	10/31/0714:00	M47J036050	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-15'	J344-03	ND	1	9.3	0.110	0.0364	10/31/0718:29	10/31/0714:00	M47J036051	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-15'DUP	J344-04	ND	1	9.3	0.110	0.0364	10/31/0718:31	10/31/0714:00	M47J036052	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-18'	J344-05	ND	1	9.0	0.110	0.0363	10/31/0718:33	10/31/0714:00	M47J036053	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-20'	J344-06	ND	1	7.9	0.109	0.0358	10/31/0718:35	10/31/0714:00	M47J036054	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-40'	J344-08	ND	1	9.8	0.111	0.0366	10/31/0718:37	10/31/0714:00	M47J036055	M47J036044	HGJ055S	10/26/07	10/26/07
SB1-45'	J344-09	ND	1	8.3	0.109	0.0360	10/31/0718:43	10/31/0714:00	M47J036058	M47J036056	HGJ055S	10/26/07	10/26/07
SB1-50'	J344-10	ND	1	8.0	0.109	0.0359	10/31/0718:45	10/31/0714:00	M47J036059	M47J036056	HGJ055S	10/26/07	10/26/07
SB1-50'DUP	J344-11	ND	1	9.0	0.110	0.0363	10/31/0718:47	10/31/0714:00	M47J036060	M47J036056	HGJ055S	10/26/07	10/26/07
SB6-55'	J344-12	ND	1	11.0	0.112	0.0371	10/31/0718:49	10/31/0714:00	M47J036061	M47J036056	HGJ055S	10/26/07	10/26/07

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGJ055SB	HGJ055SL	HGJ055SC		
LAB FILE ID:	M47J036041	M47J036042	M47J036043		
DATIME EXTRCTD:	10/31/0714:00	10/31/0714:00	10/31/0714:00	DATE COLLECTED:	NA
DATIME ANALYZD:	10/31/0718:09	10/31/0718:11	10/31/0718:13	DATE RECEIVED:	10/31/07
PREP. BATCH:	HGJ055S	HGJ055S	HGJ055S		
CALIB. REF:	M47J036032	M47J036032	M47J036032		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.852	102	0.833	0.848	102	0	80-120	20

7068

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EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	9.5
DILTN FACTR:	1	1	1		
SAMPLE ID:	SB1-35'				
CONTROL NO.:	J344-07	J344-07M	J344-07S		
LAB FILE ID:	M47J036047	M47J036049	M47J036050		
DATIME EXTRCTD:	10/31/0714:00	10/31/0714:00	10/31/0714:00	DATE COLLECTED:	10/26/07
DATIME ANALYZD:	10/31/0718:21	10/31/0718:25	10/31/0718:27	DATE RECEIVED:	10/26/07
PREP. BATCH:	HGJ055S	HGJ055S	HGJ055S		
CALIB. REF:	M47J036044	M47J036044	M47J036044		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg'	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.920	0.963	105	0.920	0.948	103	2	75-125	20

7669

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	9.5
DILUTION FACTOR:	1	5		
SAMPLE ID:	SB1-35'	SB1-35'DL		
EMAX SAMP ID:	J344-07	J344-07J		
LAB FILE ID:	M47J036047	M47J036048		
DATE EXTRACTED:	10/31/0714:00	10/31/0714:00	DATE COLLECTED:	10/26/07
DATE ANALYZED:	10/31/0718:21	10/31/0718:23	DATE RECEIVED:	10/26/07
PREP. BATCH:	HGJ055S	HGJ055S		
CALIB. REF:	M47J036044	M47J036044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J344
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	9.5
DILTN FACTR:	1	1		
SAMPLE ID:	SB1-35'			
CONTROL NO.:	J344-07	J344-07A		
LAB FILE ID:	M47J036047	M47J036046		
DATIME EXTRCTD:	10/31/0714:00	10/31/0714:00	DATE COLLECTED:	10/26/07
DATIME ANALYZD:	10/31/0718:21	10/31/0718:19	DATE RECEIVED:	10/26/07
PREP. BATCH:	HGJ055S	HGJ055S		
CALIB. REF:	M47J036044	M47J036044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Mercury	ND	0.368	0.365	99	75-125

7071

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 10/31/07 **Start Time:** 16:45

End Date: 10/31/07 **End Time:** 19:42

Comments:

QC OK

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47J036

Method File: Hg

SOP #	Rev. #
☐ EMAX-7470	3
☑ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-701
S3	↓
S4	
S5	
S6	
ICV	SM3B-07-702
CCV	↓
LCS	
Analytical Spike	
	SM3B-07-685

Analyzed By: NT

Date: 10/31/07

7072

"M47J036"

EMAXlfid	EMAXlsid	conc	Raw_resp	rsd/rf	adatetime	DF
M47J036000	STD1REP1	0	1156		10/31/0716:45	1
M47J036001	STD2REP1	.2	17777		10/31/0716:47	1
M47J036002	STD3REP1	1	80394		10/31/0716:49	1
M47J036003	STD4REP1	2	158771		10/31/0716:51	1
M47J036004	STD5REP1	5	380158		10/31/0716:53	1
M47J036005	STD6REP1	10	733528		10/31/0716:55	1
M47J036006	ICV	2.12	161693	0	10/31/0716:58	1
M47J036007	ICB	-.017	5330	0	10/31/0717:00	1
M47J036008	CCV1	5.22	388376	0	10/31/0717:02	1
M47J036009	CCB1	-.023	4857	0	10/31/0717:04	1
M47J036010	HGJ054SB	-.009	5917	0	10/31/0717:06	1
M47J036011	HGJ054SL	5.16	384522	0	10/31/0717:08	1
M47J036012	HGJ054SC	5.15	383923	0	10/31/0717:10	1
M47J036013	J319-04A	2.28	173585	0	10/31/0717:12	1
M47J036014	J319-04	.32	30007	0	10/31/0717:14	1
M47J036015	J319-04J	.053	10425	0	10/31/0717:16	5
M47J036016	J319-04M	5.5	409005	0	10/31/0717:18	1
M47J036017	J319-04S	5.74	427139	0	10/31/0717:20	1
M47J036018	J319-05	.299	28482	0	10/31/0717:22	1
M47J036019	J319-06	.309	29196	0	10/31/0717:24	1
M47J036020	CCV2	5.23	389518	0	10/31/0717:26	1
M47J036021	CCB2	-.035	3978	0	10/31/0717:28	1
M47J036022	J319-07	.194	20745	0	10/31/0717:30	1
M47J036023	J319-08	.04	9502	0	10/31/0717:32	1
M47J036024	J319-09	.183	19948	0	10/31/0717:34	1
M47J036025	J319-10	.059	10891	0	10/31/0717:36	1
M47J036026	J319-11	.087	12890	0	10/31/0717:38	1
M47J036027	J319-12	.01	7274	0	10/31/0717:40	1
M47J036028	J319-13	.239	24045	0	10/31/0717:42	1
M47J036029	J319-14	.041	9579	0	10/31/0717:44	1
M47J036030	J319-15	.11	14636	0	10/31/0717:46	1
M47J036031	J319-16	.006	7020	0	10/31/0717:48	1
M47J036032	CCV3	5.23	389251	0	10/31/0717:51	1
M47J036033	CCB3	-.036	3903	0	10/31/0717:53	1
M47J036034	J319-17	.092	13300	0	10/31/0717:55	1
M47J036035	J319-18	.068	11526	0	10/31/0717:57	1
M47J036036	J319-20	1.35	105456	0	10/31/0717:59	1
M47J036037	J361-01	-.008	6007	0	10/31/0718:00	1
M47J036038	J361-02	-.008	5989	0	10/31/0718:03	1
M47J036039	J361-03	.382	34495	0	10/31/0718:05	1
M47J036040	J361-04	.363	33130	0	10/31/0718:07	1
M47J036041	HGJ055SB	-.035	4000	0	10/31/0718:09	1
M47J036042	HGJ055SL	5.11	380888	0	10/31/0718:11	1
M47J036043	HGJ055SC	5.09	378895	0	10/31/0718:13	1
M47J036044	CCV4	5.17	385384	0	10/31/0718:15	1
M47J036045	CCB4	-.03	4390	0	10/31/0718:17	1
M47J036046	J344-07A	1.98	151756	0	10/31/0718:19	1
M47J036047	J344-07	.046	9904	0	10/31/0718:21	1
M47J036048	J344-07J	.019	7953	0	10/31/0718:23	5
M47J036049	J344-07M	5.23	389432	0	10/31/0718:25	1
M47J036050	J344-07S	5.15	383595	0	10/31/0718:27	1
M47J036051	J344-03	.028	8577	0	10/31/0718:29	1
M47J036052	J344-04	.025	8392	0	10/31/0718:31	1
M47J036053	J344-05	.011	7379	0	10/31/0718:33	1
M47J036054	J344-06	.005	6911	0	10/31/0718:35	1
M47J036055	J344-08	.065	11292	0	10/31/0718:37	1
M47J036056	CCV5	5.11	380810	0	10/31/0718:39	1
M47J036057	CCB5	-.029	4465	0	10/31/0718:41	1
M47J036058	J344-09	.026	8458	0	10/31/0718:43	1
M47J036059	J344-10	.012	7460	0	10/31/0718:45	1
M47J036060	J344-11	.006	7010	0	10/31/0718:47	1
M47J036061	J344-12	-.016	5414	0	10/31/0718:49	1
M47J036062	J370-01	.004	6879	0	10/31/0718:52	1
M47J036063	HGJ056SB	-.029	4402	0	10/31/0718:54	1
M47J036064	HGJ056SL	5.03	375134	0	10/31/0718:56	1
M47J036065	HGJ056SC	5.02	373766	0	10/31/0718:58	1
M47J036066	J346-01A	1.87	143223	0	10/31/0719:00	1
M47J036067	J346-01	-.018	5221	0	10/31/0719:02	1
M47J036068	CCV6	5.09	379492	0	10/31/0719:04	1
M47J036069	CCB6	-.021	5011	0	10/31/0719:06	1
M47J036070	J346-01J	-.019	5195	0	10/31/0719:08	5
M47J036071	J346-02	.008	7148	0	10/31/0719:10	1
M47J036072	J346-03	-.001	6518	0	10/31/0719:12	1
M47J036073	J346-04	.007	7105	0	10/31/0719:15	1
M47J036074	J346-05	.025	8402	0	10/31/0719:17	1

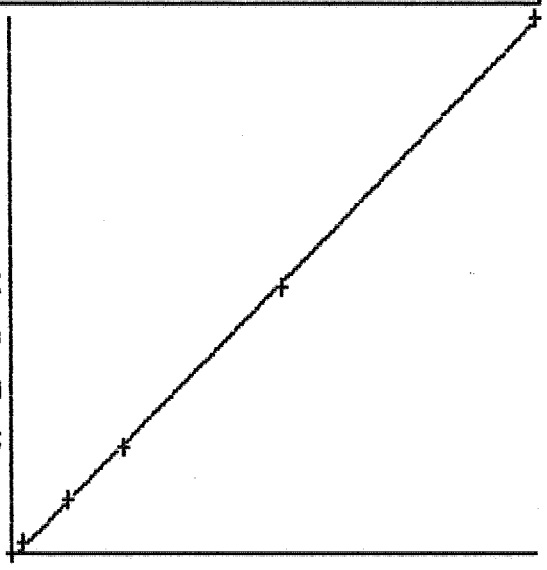
M47J036075	J346-06	.142	16975	0	10/31/0719:19	1
M47J036076	J346-07	.069	11613	0	10/31/0719:21	1
M47J036077	J346-08	.09	13137	0	10/31/0719:23	1
M47J036078	J346-09	.085	12790	0	10/31/0719:25	1
M47J036079	J346-10	.094	13472	0	10/31/0719:27	1
M47J036080	CCV7	5.01	373571	0	10/31/0719:29	1
M47J036081	CCB7	-.046	3182	0	10/31/0719:31	1
M47J036082	J346-11	.006	7000	0	10/31/0719:34	1
M47J036083	J346-12	.032	8931	0	10/31/0719:36	1
M47J036084	J346-13	.048	10055	0	10/31/0719:38	1
M47J036085	CCV8	5.04	375891	0	10/31/0719:40	1
M47J036086	CCB8	-.049	2968	0	10/31/0719:42	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47J036000	BLANK	-9.078731E-02	6644.034	.9998028	10/31/0719:42	1

RunProt: HGCOM
RunFold: M47J036 Seq: 6 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 16:56:28 31 Oct 2007 Xmit: Off Gas: 0.35 LPM
State: Idle User: MTNTH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	-.074	-.074	Quadratic
S2	.200	.153	-.047	Wtdlinear
S3	1.00	1.01	.009	C
S4	2.00	2.08	.079	Accept o
S5	5.00	5.10	.103	n
S6	10.0	9.93	-.070	c

A .0000000 r .999003
B 1.36591e-5 C -8.95553e-2



Relative Absorbance

	Mean		
S1	1156	0 SD	1156
S2	17777	0 %RSD	17777
S3	80394	0 %RSD	80394
S4	158771	0 %RSD	158771
S5	300158	0 %RSD	300158
S6	733528	0 %RSD	733528

New cal coefficients stored

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11 | 01 | 07 **Start Time:** 17:03

End Date: 11 | 01 | 07 **End Time:** 19:50

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47J037

Method File: Hg

Comments:

QC OK

J296-01 MS/MSD were out of QC limit (STLC)

J347-11 MS/MSD were out of QC limit due to matrix interference

J362-02 MS/MSD were out of QC limit due to matrix interference.

SOP #	Rev. #
☑ EMAX-7470	3
☐ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-705
S3	↓
S4	
S5	
S6	
ICV	SM3B-07-706
CCV	↓
LCS	
Analytical Spike	
	SM3B-07-686

Analyzed By: NT

Date: 11 | 01 | 07

7076

"M47J037"

EMAX1fid	EMAX1sid	conc	Raw_resp	rsd/rf	adatetime	DF
M47J037000	STD1REP1	0	3195		11/01/0717:03	1
M47J037001	STD2REP1	.2	13899		11/01/0717:05	1
M47J037002	STD3REP1	1	55937		11/01/0717:07	1
M47J037003	STD4REP1	2	109472		11/01/0717:09	1
M47J037004	STD5REP1	5	251380		11/01/0717:11	1
M47J037005	STD6REP1	10	503506		11/01/0717:13	1
M47J037006	ICV	2.11	110276	0	11/01/0717:17	1
M47J037007	ICB	-.04	3153	0	11/01/0717:19	1
M47J037008	CCV1	4.28	218307	0	11/01/0717:21	1
M47J037009	CCB1	-.068	1779	0	11/01/0717:23	1
M47J037010	HGK001WB	-.036	3392	0	11/01/0717:25	1
M47J037011	HGK001WL	4.5	229525	0	11/01/0717:27	1
M47J037012	HGK001WC	4.52	230308	0	11/01/0717:29	1
M47J037013	WTJ014SB	-.026	3879	0	11/01/0717:31	1
M47J037014	J296-01A	2.1	109585	0	11/01/0717:33	1
M47J037015	J296-01	-.057	2337	0	11/01/0717:35	1
M47J037016	J296-01J	-.076	1399	0	11/01/0717:37	5
M47J037017	J296-01M	3.28	168351	0	11/01/0717:39	1
M47J037018	J296-01S	3.33	171061	0	11/01/0717:41	1
M47J037019	J344-02	-.067	1810	0	11/01/0717:43	1
M47J037020	CCV2	4.86	247121	0	11/01/0717:45	1
M47J037021	CCB2	-.068	1795	0	11/01/0717:47	1
M47J037022	ZZZZ	.805	45243	0	11/01/0717:49	1
M47J037023	J347-11	-.069	1733	0	11/01/0717:51	1
M47J037024	ZZZZ	-.029	3710	0	11/01/0717:53	1
M47J037025	J347-11M	1.71	90552	0	11/01/0717:55	1
M47J037026	J347-11S	1.82	96038	0	11/01/0717:57	1
M47J037027	J347-01	-.085	925	0	11/01/0717:59	1
M47J037028	J347-02	-.05	2681	0	11/01/0718:01	1
M47J037029	J347-03	-.048	2787	0	11/01/0718:03	1
M47J037030	J347-04	-.036	3346	0	11/01/0718:05	1
M47J037031	J347-05	.031	6724	0	11/01/0718:07	1
M47J037032	CCV3	4.88	248282	0	11/01/0718:09	1
M47J037033	CCB3	-.082	1081	0	11/01/0718:11	1
M47J037034	J347-06	-.072	1568	0	11/01/0718:14	1
M47J037035	J347-07	-.069	1732	0	11/01/0718:16	1
M47J037036	J347-08	-.066	1882	0	11/01/0718:18	1
M47J037037	J347-09	-.071	1644	0	11/01/0718:20	1
M47J037038	J347-10	-.065	1920	0	11/01/0718:22	1
M47J037039	J347-12	-.062	2067	0	11/01/0718:24	1
M47J037040	J347-13	-.064	1950	0	11/01/0718:26	1
M47J037041	HGK002WB	-.046	2866	0	11/01/0718:28	1
M47J037042	HGK002WL	4.53	230830	0	11/01/0718:30	1
M47J037043	HGK002WC	4.49	228965	0	11/01/0718:31	1
M47J037044	CCV4	4.85	246738	0	11/01/0718:34	1
M47J037045	CCB4	-.036	3375	0	11/01/0718:36	1
M47J037046	J362-02A	1.68	88815	0	11/01/0718:38	1
M47J037047	J362-02	-.054	2481	0	11/01/0718:40	1
M47J037048	J362-02J	-.051	2623	0	11/01/0718:42	1
M47J037049	J362-02M	3.47	178147	0	11/01/0718:44	1
M47J037050	J362-02S	3.55	182036	0	11/01/0718:46	1
M47J037051	J362-01	-.082	1067	0	11/01/0718:48	1
M47J037052	J362-03	-.055	2410	0	11/01/0718:50	1
M47J037053	J362-04	-.041	3105	0	11/01/0718:52	1
M47J037054	J352-01	-.055	2400	0	11/01/0718:54	1
M47J037055	J352-02	-.056	2354	0	11/01/0718:56	1
M47J037056	CCV5	4.83	245661	0	11/01/0718:58	1
M47J037057	CCB5	-.061	2148	0	11/01/0719:01	1
M47J037058	J352-03	-.04	3167	0	11/01/0719:03	1
M47J037059	J352-04	-.072	1591	0	11/01/0719:05	1
M47J037060	J352-06	-.061	2128	0	11/01/0719:07	1
M47J037061	J352-07	-.054	2483	0	11/01/0719:09	1
M47J037062	J352-08	-.058	2284	0	11/01/0719:11	1
M47J037063	J352-09	-.056	2372	0	11/01/0719:13	1
M47J037064	J352-10	-.034	3445	0	11/01/0719:15	1
M47J037065	J375-01	-.022	4088	0	11/01/0719:17	1
M47J037066	J375-01M	4.88	248241	0	11/01/0719:19	1
M47J037067	J375-01S	4.78	243154	0	11/01/0719:21	1
M47J037068	CCV6	4.81	244666	0	11/01/0719:23	1
M47J037069	CCB6	-.06	2182	0	11/01/0719:25	1
M47J037070	J375-02	-.009	4731	0	11/01/0719:27	1
M47J037071	J375-03	.28	19116	0	11/01/0719:29	1
M47J037072	J375-04	.061	8217	0	11/01/0719:31	1
M47J037073	J375-05	3.52	180343	0	11/01/0719:33	1
M47J037074	J375-06	4.57	232824	0	11/01/0719:35	1

M47J037075	J375-07	.08	9141	0	11/01/0719:37	1
M47J037076	ZZZZ	2.03	106245	0	11/01/0719:39	1
M47J037077	ZZZZ	-.069	1722	0	11/01/0719:41	5
M47J037078	J347-05A	1.94	101812	0	11/01/0719:43	1
M47J037079	J347-05J	-.09	670	0	11/01/0719:45	5
M47J037080	CCV7	4.8	244165	0	11/01/0719:47	1
M47J037081	CCB7	-.055	2447	0	11/01/0719:50	1
**********	**********	**********	**********	**********	**********	***
EMAX1fid	EMAX1sid	Xint	Yint	rrf	adatetime	DF
M47J037000	BLANK	-.1042601	5191.465	.9999021	11/01/0719:50	1

RunProt: HGCOM

RunFold: M47J037 Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 17:15:11 01 Nov 2007 Xmit: Off Gas: 0.35 LPM

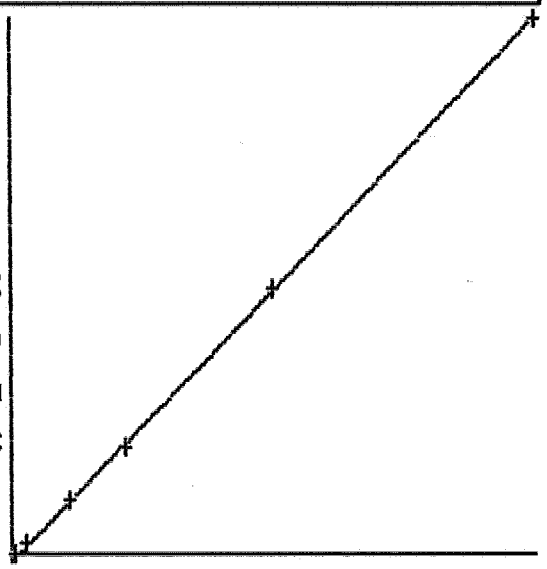
State: Idle User: NTNTH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	-.039	-.039	Quadratic
S2	.200	.175	-.025	Wtdlinear
S3	1.00	1.02	.020	C
S4	2.00	2.09	.094	Accept o
S5	5.00	4.94	-.056	n
S6	10.0	10.0	.006	c

A .0000000 r .999902

B 2.00790e-5 C -1.03645e-1



Relative Absorbance

	Mean		
S1	3195	0 SD	3195
S2	13899	0 %RSD	13899
S3	55937	0 %RSD	55937
S4	109472	0 %RSD	109472
S5	251380	0 %RSD	251380
S6	503506	0 %RSD	503506

New cal coefficients stored

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☑ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: SOIL Start Date: 10/31/07 Time: 14:00 Ending Date: 10/31/07 Time: 15:00 Book # E47-058

BATCH: HGJ0555

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g/ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	100	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGJ0555B				0.600 Dg					
12	SL				0.600					
13	SC				0.600					
14	J344-03	Bn	Fn		0.604					
15	04				0.601					
16	05				0.601					
17	06				0.603					
18	07				0.601					
19	07M				0.604					
20	07S				0.601					
21	08				0.600					
22	09				0.602					
23	10				0.604					
24	11				0.604					
25	12				0.602					
26	J370-01				0.602					
27										
28			NT	10/31/07						

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL SM	3B-07-701	100	0.2,1,2,5,10
ICV SM	3B-07-702		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3 / aqua	SW1A-03-601		
HCl / regia	SW1A-03-612		
H_2SO_4	N/A		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$	N/A		
$NH_2OH.HCl$	SM5B-02-75		
$SnCl_2$	68		

Temp of Digestion Bath: 95 °C

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7080

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/1/07 Time: 13:00 Ending Date: 11/1/07 Time: 15:30 Book # E47-058

BATCH: HGK001W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g/ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	75	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK001WB				50					
12	WL									
13	WC									
14	WT1014SB			STIC	5		<2			
15	J296-01	Yw					<2			
16	01M						<2			
17	01S						<2			
18	J344-02	Cr		N/A	50		<2			
19	J347-01						<2			
20	02						<2			
21	03						<2			
22	04						<2			
23	05						<2			
24	06						<2			
25	07						<2			
26	08						<2			
27	09						<2			
28	10						<2			

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL SM	BB-07-705	50	0.2, 1, 2, 5, 10
ICV SM	BB-07-706		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3	SWIA-03-601		
HCl	N/A		
H_2SO_4	SWIA-03-617		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$		76	
$NH_2OH.HCl$		75	
$SnCl_2$		68	
Temp of Digestion Bath:	95 °C		

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7081

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/1/07 Time: 13:00 Ending Date: 11/1/07 Time: 15:30 Book # E47-058

BATCH: HGK001W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g / ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	J347-11	Cr	Cr	N/A	50	N/A	<2	75	Cr	Cr
02	11M						<2			
03	11S						<2			
04	12						<2			
05	13						<2			
06										
07										
08										
09										
10										
11										
12										
13										
14						NT				
15						11/1/07				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL			
ICV			
CCV/MS			
LCS			
Reagent	Lot# / ID		
HNO_3			
HCl			
H_2SO_4			
$KMnO_4$			
$K_2S_2O_8$			
$NH_2OH.HCl$			
$SnCl_2$			
Temp of Digestion Bath:	°C		
Legend			

SAME AS PAGE 65

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7082

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 314.0
PERCHLORATE

SDG#: 07J344

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J344**

METHOD 314.0
PERCHLORATE

One (1) water and ten (10) soil samples were received on 10/26/07 for Perchlorate analysis by Method 314.0 in accordance with "Method for Determination of Perchlorate by Ion Chromatography", EPA 600/98-118.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at half of the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control sample results were within QC limits.

4. **Duplicate**

   Sample J344-07 was analyzed for duplicate. %RPD was within QC limit.

5. **Matrix Spike**

   Sample J344-07 was spiked. Recovery was within QC limit.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J344

Matrix : WATER
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCK003WB	ND	1	NA	2.00	0.500	11/06/0714:37	NA	JK06002	JK06001	PCK003W	NA	NA
LCS1W	PCK003WL	22.3	1	NA	2.00	0.500	11/06/0715:19	NA	JK06004	JK06001	PCK003W	NA	NA
LCD1W	PCK003WC	23.1	1	NA	2.00	0.500	11/06/0715:40	NA	JK06005	JK06001	PCK003W	NA	NA
LEB-102607	J344-02	ND	1	NA	2.00	0.500	11/06/0716:15	NA	JK06006	JK06001	PCK003W	10/26/0708:45	10/26/07

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J344

Matrix : SOIL
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PCK001SB	ND	1	NA	20.0	10.0	11/02/0718:44	11/01/0713:30	JK02002	JK02001	PCK001S	NA	11/01/07
LCS1S	PCK001SL	221	1	NA	20.0	10.0	11/02/0719:52	11/01/0713:30	JK02004	JK02001	PCK001S	NA	11/01/07
LCD1S	PCK001SC	220	1	NA	20.0	10.0	11/02/0720:13	11/01/0713:30	JK02005	JK02001	PCK001S	NA	11/01/07
SB1-15'	J344-03	51.0	1	9.3	22.1	11.0	11/02/0720:34	11/01/0713:30	JK02006	JK02001	PCK001S	10/26/0709:05	10/26/07
SB1-15'DUP	J344-04	56.9	1	9.3	22.1	11.0	11/02/0720:55	11/01/0713:30	JK02007	JK02001	PCK001S	10/26/0709:10	10/26/07
SB1-18'	J344-05	41.0	1	9.0	22.0	11.0	11/02/0721:16	11/01/0713:30	JK02008	JK02001	PCK001S	10/26/0709:12	10/26/07
SB1-20'	J344-06	108	1	7.9	21.7	10.9	11/02/0721:38	11/01/0713:30	JK02009	JK02001	PCK001S	10/26/0709:15	10/26/07
SB1-40'	J344-08	21400	100	9.8	2220	1110	11/08/0701:39	11/01/0713:30	JK06090	JK06083	PCK001S	10/26/0710:25	10/26/07
SB1-35'	J344-07	114000	500	9.5	11000	5520	11/08/0702:00	11/01/0713:30	JK06091	JK06083	PCK001S	10/26/0710:10	10/26/07
SB1-35'DUP	J344-07D	113000	500	9.5	11000	5520	11/08/0702:21	11/01/0713:30	JK06092	JK06083	PCK001S	10/26/0710:10	10/26/07
SB1-35'MS	J344-07M	160000	500	9.5	11000	5520	11/08/0702:42	11/01/0713:30	JK06093	JK06083	PCK001S	10/26/0710:10	10/26/07
SB1-45'	J344-09	11900	100	8.3	2180	1090	11/08/0703:24	11/01/0713:30	JK06095	JK06094	PCK001S	10/26/0710:40	10/26/07
SB1-50'	J344-10	223	1	8.0	21.7	10.9	11/03/0700:26	11/01/0713:30	JK02017	JK02012	PCK001S	10/26/0710:45	10/26/07
SB1-50'DUP	J344-11	299	1	9.0	22.0	11.0	11/03/0700:47	11/01/0713:30	JK02018	JK02012	PCK001S	10/26/0710:50	10/26/07
SB6-55'	J344-12	8640	50	11.0	1120	562	11/08/0703:46	11/01/0713:30	JK06096	JK06094	PCK001S	10/26/0712:52	10/26/07

QC SUMMARY

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	PCK003WB	PCK003WL	PCK003WC		
LAB FILE ID:	JK06002	JK06004	JK06005		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/06/0714:37	11/06/0715:19	11/06/0715:40	DATE RECEIVED:	NA
PREP. BATCH:	PCK003W	PCK003W	PCK003W		
CALIB. REF:	JK06001	JK06001	JK06001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	22.3	89	25.0	23.1	92	4	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: METHOD 314.0

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	PCK001SB	PCK001SL	PCK001SC		
LAB FILE ID:	JK02002	JK02004	JK02005		
DATE EXTRACTED:	11/01/0713:30	11/01/0713:30	11/01/0713:30	DATE COLLECTED:	NA
DATE ANALYZED:	11/02/0718:44	11/02/0719:52	11/02/0720:13	DATE RECEIVED:	11/01/07
PREP. BATCH:	PCK001S	PCK001S	PCK001S		
CALIB. REF:	JK02001	JK02001	JK02001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	250	221	88	250	220	88	0	85-115	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: METHOD 314.0

==========

MATRIX:	SOIL		% MOISTURE:	9.5
DILUTION FACTOR:	500	500		
SAMPLE ID:	SB1-35'			
LAB SAMP ID:	J344-07	J344-07M		
LAB FILE ID:	JK06091	JK06093		
DATE EXTRACTED:	11/01/0713:30	11/01/0713:30	DATE COLLECTED:	10/26/07 10:10
DATE ANALYZED:	11/08/0702:00	11/08/0702:42	DATE RECEIVED:	10/26/07
PREP. BATCH:	PCK001S	PCK001S		
CALIB. REF:	JK06083	JK06083		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	QC LIMIT (%)
Perchlorate	114000	55200	160000	84	80-120

8008

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J344
METHOD: METHOD 314.0

MATRIX:	SOIL		% MOISTURE:	9.5
DILUTION FACTOR:	500	500		
SAMPLE ID:	SB1-35'			
EMAX SAMP ID:	J344-07	J344-07D		
LAB FILE ID:	JK06091	JK06092		
DATE EXTRACTED:	11/01/0713:30	11/01/0713:30	DATE COLLECTED:	10/26/07 10:10
DATE ANALYZED:	11/08/0702:00	11/08/0702:21	DATE RECEIVED:	10/26/07
PREP. BATCH:	PCK001S	PCK001S		
CALIB. REF:	JK06083	JK06083		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	DUPL RSLT (ug/kg)	RPD RSLT %	QC LIMIT (%)
Perchlorate	114000	113000	1	20

8009

INITIAL CALIBRATION

IC SEQ FORM (ESD)

LFID	LSID	SELCOMP	METHOD	DateTime	DF
JI07001	IB	P	IC57I07	09/07/0712:02	1
JI07002	S-0.0	P	IC57I07	09/07/0712:23	1
JI07003	S-2.0	P	IC57I07	09/07/0712:44	1
JI07004	S-4.0	P	IC57I07	09/07/0713:06	1
JI07005	S-10.0	P	IC57I07	09/07/0713:27	1
JI07006	S-25.0	P	IC57I07	09/07/0713:48	1
JI07007	S-30.0	P	IC57I07	09/07/0714:09	1
JI07008	ICV	P	IC57I07	09/07/0714:30	1
JI07009	ICB	P	IC57I07	09/07/0715:14	1

RW 9-7-07

8011

Method : c:\ezchrom\methods\ic57i07.met
Printed : Sep 07, 2007 15:50:05
Channel : A
Peak : PERCHLORATE

* - Replicate Not Used

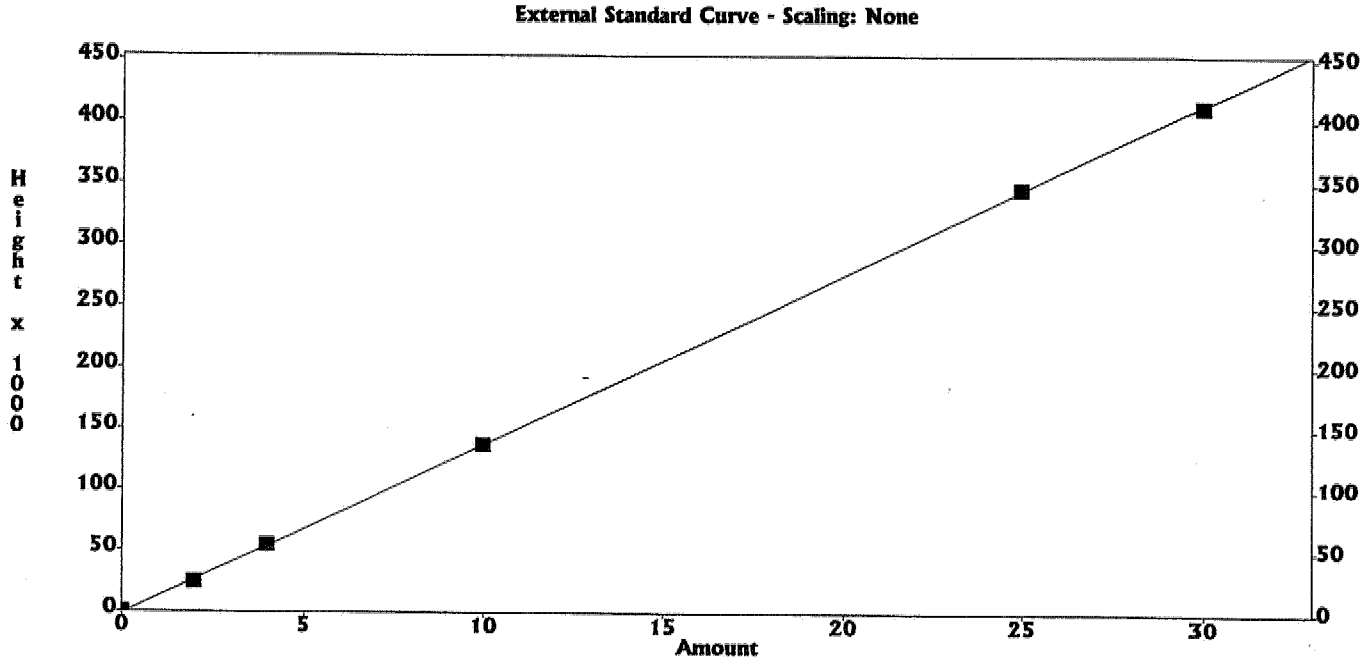
Level	Height	Amount	RF	Rep Hgt 1	Rep Hgt 2	Rep Hgt 3	Rep Hgt 4	Rep Hgt 5	Replic STD	Replic %RSD	Old Height
2	24283	2	12141.50	24283							0
3	54790	4	13697.50	54790							0
4	137022	10	13702.20	137022							0
5	345226	25	13809.04	345226							0
6	412192	30	13739.73	412192							0

Calib Flag: Replace

Average RF: 13418
RF StdDev: 714.977
RF %RSD: 5.328

RF Definition: Height / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 7.22736e-005 x Height + 0.128135
R^2 = 0.999945



RW 9-7-07

8012

SECOND SOURCE

IC RESULT FORM CalVersion: PCHLO314.I07/JI07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JI07001	IB	P	.000	09/07/0712:02	1
JI07002	S-0.0	P	.0000	09/07/0712:23	1
JI07003	S-2.0	P	2	09/07/0712:44	1
JI07004	S-4.0	P	4	09/07/0713:06	1
JI07005	S-10.0	P	10	09/07/0713:27	1
JI07006	S-25.0	P	25	09/07/0713:48	1
JI07007	S-30.0	P	30	09/07/0714:09	1
JI07008	ICV	P	95%	09/07/0714:30	1
JI07009	ICB	P	.000	09/07/0715:14	1

DAILY CALIBRATION

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK02001	IPCS	P	84.6%	11/02/0718:17	1
JK02002	PCK001SB	P	.000	11/02/0718:44	1
JK02003	MRL	P	102%	11/02/0719:12	1
JK02004	PCK001SL	P	22.1	11/02/0719:52	1
JK02005	PCK001SC	P	22	11/02/0720:13	1
JK02006	J344-03	P	4.63	11/02/0720:34	1
JK02007	J344-04	P	5.16	11/02/0720:55	1
JK02008	J344-05	P	3.73	11/02/0721:16	1
JK02009	J344-06	P	9.94	11/02/0721:38	1
JK02010	J344-08	*	.000	11/02/0721:59	1
JK02011	RINSE	P	.000	11/02/0722:20	1
JK02012	CCV44-30	P	86.3%*	11/02/0722:41	1
JK02013	J344-07	*	.000	11/02/0723:02	1
JK02014	J344-07D	*	.000	11/02/0723:23	1
JK02015	J344-07M	*	.000	11/02/0723:44	1
JK02016	J344-09	*	.000	11/03/0700:05	1
JK02017	J344-10	P	20.5	11/03/0700:26	1
JK02018	J344-11	P	27.2	11/03/0700:47	1
JK02019	J344-12	P	.000	11/03/0701:08	1
JK02020	J345-03	P	.000	11/03/0701:29	1
JK02021	J345-04	P	1.97	11/03/0701:50	1
JK02022	RINSE	P	.000	11/03/0702:11	1
JK02023	CCV45-15	P	87.7%*	11/03/0702:32	1
JK02024	J345-05	P	1.79	11/03/0702:53	1
JK02025	J345-06	*	.000	11/03/0703:14	1
JK02026	J345-07	*	.000	11/03/0703:35	1
JK02027	J345-08	*	.000	11/03/0703:56	1
JK02028	J345-09	*	.000	11/03/0704:17	1
JK02029	J345-10	*	.000	11/03/0704:38	1
JK02030	J345-11	P	2.67	11/03/0704:59	1
JK02031	J345-12	P	2.98	11/03/0705:20	1
JK02032	RINSE	P	.000	11/03/0705:41	1
JK02033	CCV46-30	P	86.1%*	11/03/0706:02	1
JK02034	IPCS	P	81.3%	11/03/0706:23	1
JK02035	PCK002SB	P	.000	11/03/0706:44	1
JK02036	MRL	P	101%	11/03/0707:05	1
JK02037	PCK002SL	P	22.4	11/03/0707:26	1
JK02038	PCK002SC	P	22.1	11/03/0707:47	1
JK02039	J345-13	P	28	11/03/0708:08	1
JK02040	J345-14	P	11.9	11/03/0708:29	1
JK02041	J345-15	*	.000	11/03/0708:51	1
JK02042	J345-16	*	61.6E	11/03/0709:12	1
JK02043	J345-17	*	.000	11/03/0709:33	1
JK02044	RINSE	P	.000	11/03/0709:54	1
JK02045	CCV47-15	P	87.9%*	11/03/0710:15	1
JK02046	J345-18	*	.000	11/03/0710:36	1
JK02047	J345-19	*	.000	11/03/0710:57	1
JK02048	J345-20	*	.000	11/03/0711:18	1
JK02049	J345-20D	*	.000	11/03/0711:39	1
JK02050	J345-20M	*	.000	11/03/0712:00	1
JK02051	J346-01	*	.000	11/03/0712:21	1
JK02052	J346-02	P	.000	11/03/0712:42	1
JK02053	RINSE	P	.000	11/03/0713:03	1
JK02054	CCV48-30	P	86.8%*	11/03/0713:24	1

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK06001	IPCS	P	84.5%	11/06/0714:16	1
JK06002	PCK003WB	P	.000	11/06/0714:37	1
JK06003	MRL	P	102%	11/06/0714:58	1
JK06004	PCK003WL	P	22.3	11/06/0715:19	1
JK06005	PCK003WC	P	23.1	11/06/0715:40	1
JK06006	J344-02	P	.000	11/06/0716:15	1
JK06007	J345-02	P	.000	11/06/0716:36	1
JK06008	K042-02	P	.000	11/06/0716:57	1
JK06009	K042-03	P	4.94	11/06/0717:18	1
JK06010	J385-02	P	3.53	11/06/0717:39	1
JK06011	K042-02	P	.000	11/06/0718:00	5
JK06012	CCV49-15	P	92%	11/06/0718:21	1
JK06013	J955-02	P	.000	11/06/0719:26	1
JK06014	J955-03	P	.000	11/06/0719:47	1
JK06015	K033-02	P	.000	11/06/0720:08	1
JK06016	K017-02	P	.000	11/06/0720:29	1
JK06017	K017-03	*	45.3E	11/06/0720:50	1
JK06018	J396-01	P	51.4	11/06/0721:11	5
JK06019	J396-02	P	2.42	11/06/0721:32	1
JK06020	RINSE	P	.000	11/06/0721:53	1
JK06021	J396-02R	P	2.65	11/06/0722:14	1
JK06022	RINSE	P	.000	11/06/0722:35	1
JK06023	CCV50-30	P	88.9%*	11/06/0722:56	1
JK06024	J396-03	P	2.23	11/06/0723:17	1
JK06025	RINSE	P	.000	11/06/0723:38	1
JK06026	J396-03R	P	2.42	11/06/0723:59	1
JK06027	RINSE	P	.000	11/07/0700:20	1
JK06028	J396-01D	P	51	11/07/0700:41	5
JK06029	J396-01M	P	95	11/07/0701:02	5
JK06030	J955-04	P	.000	11/07/0701:23	5
JK06031	K042-03R	P	6.13	11/07/0701:44	1
JK06032	J344-08	*	1990E	11/07/0702:05	50
JK06033	J344-07	*	10400E	11/07/0702:26	200
JK06034	CCV51-15	P	89.8%*	11/07/0702:47	1
JK06035	J344-07D	*	10400E	11/07/0703:08	200
JK06036	J344-07M	*	12100E	11/07/0703:29	200
JK06037	J344-09	*	1090E	11/07/0703:50	20
JK06038	J344-12	*	802E	11/07/0704:11	20
JK06039	J345-06	*	763E	11/07/0704:32	20
JK06040	J345-07	P	486	11/07/0704:53	20
JK06041	J345-08	P	588	11/07/0705:15	20
JK06042	J345-09	P	412	11/07/0705:36	20
JK06043	J345-10	P	409	11/07/0705:57	20
JK06044	J345-15	P	254	11/07/0706:18	20
JK06045	CCV52-30	P	87.6%*	11/07/0706:39	1
JK06046	J345-16	P	69.4	11/07/0707:00	10
JK06047	J345-17	P	255	11/07/0707:21	20
JK06048	J345-18	P	265	11/07/0707:42	20
JK06049	J345-19	P	583	11/07/0708:03	20
JK06050	J345-20	*	766E	11/07/0708:24	20
JK06051	J345-20D	*	768E	11/07/0708:45	20
JK06052	J345-20M	*	965E	11/07/0709:06	20
JK06053	J346-01	*	1510E	11/07/0709:27	50
JK06054	CCV53-15	P	89.8%*	11/07/0709:48	1
JK06055	IPCS	P	84.7%	11/07/0712:06	1
JK06056	PCK004SB	P	.000	11/07/0712:27	1
JK06057	MRL	P	112%	11/07/0712:48	1
JK06058	PCK004SL	P	22	11/07/0713:09	1
JK06059	PCK004SC	P	21.7	11/07/0713:30	1
JK06060	J346-03	P	1.39	11/07/0713:51	1
JK06061	J346-04	P	.000	11/07/0714:12	1
JK06062	J346-05	P	.000	11/07/0714:33	1
JK06063	J346-06	P	.000	11/07/0714:54	1
JK06064	J346-07	P	.000	11/07/0715:15	1
JK06065	RINSE	P	1.22	11/07/0715:36	1
JK06066	CCV54-30	P	86.5%*	11/07/0715:57	1
JK06067	J346-08	P	.000	11/07/0716:18	1
JK06068	J346-09	P	.000	11/07/0716:39	1
JK06069	J346-10	P	.000	11/07/0717:00	1
JK06070	J346-11	P	1.55	11/07/0717:22	1
JK06071	J346-12	*	63.8E	11/07/0717:43	1
JK06072	J346-13	*	.000	11/07/0718:11	1
JK06073	J385-03	*	.000	11/07/0718:47	1
JK06074	J385-04	*	.000	11/07/0719:09	1

JK06075	J385-05	P	2.65	11/07/0720:24	1
JK06076	RINSE	P	.000	11/07/0720:45	1
JK06077	CCV55-15	P	85.8%*	11/07/0721:06	1
JK06078	J385-06	P	6.65	11/07/0721:27	1
JK06079	J385-06D	P	7.09	11/07/0721:48	1
JK06080	J385-06M	P	15.7	11/07/0722:09	1
JK06081	RINSE	P	.000	11/07/0722:30	1
JK06082	CCV56-30	P	87.3%*	11/07/0722:51	1
JK06083	IPCS	P	86.9%	11/07/0723:12	1
JK06084	PCK005WB	P	.000	11/07/0723:33	1
JK06085	MRL	P	108%	11/07/0723:54	1
JK06086	PCK005WL	P	21.9	11/08/0700:15	1
JK06087	PCK005WC	P	22	11/08/0700:36	1
JK06088	K017-03	*	3030E	11/08/0700:57	100
JK06089	J955-04	P	.000	11/08/0701:18	2000
JK06090	J344-08	P	1930	11/08/0701:39	100
JK06091	J344-07	P	10300	11/08/0702:00	500
JK06092	J344-07D	P	10200	11/08/0702:21	500
JK06093	J344-07M	P	14500	11/08/0702:42	500
JK06094	CCV57-15	P	93.8%	11/08/0703:03	1
JK06095	J344-09	P	1090	11/08/0703:24	100
JK06096	J344-12	P	769	11/08/0703:46	50
JK06097	J345-06	P	737	11/08/0704:07	40
JK06098	J345-20	P	762	11/08/0704:28	50
JK06099	J345-20D	P	756	11/08/0704:49	50
JK06100	J345-20M	P	1180	11/08/0705:10	50
JK06101	J346-01	P	1520	11/08/0708:30	100
JK06102	J346-12	P	82.5	11/08/0708:57	10
JK06103	J346-13	P	134	11/08/0709:18	20
JK06104	J385-03	P	916	11/08/0709:39	100
JK06105	CCV58-30	P	85.9%*	11/08/0710:00	1
JK06106	J385-04	P	1850	11/08/0710:21	100
JK06107	CCV59-15	P	86.7%*	11/08/0710:42	1

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG *for* ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A - 02 - 18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK02

Method File: IC57I07.met

Analytical Batch: ~~JK02~~ PCK0018 + PCK0028
ad 11/02/07

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B - 02 - 987
ICV	988
CCV	N/A
CCV-15	SW8B - 02 - 1009
CCV-30	1010
LCS	1011
MS	999
IPC	1012
CMC	SW3B - 02 - 951
MRL	SW8B - 02 - 1013

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
1411	(±) 30	20°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: ad

Date: 11/02/07

8020

Method: Ic57i07.met Batch: Jk02.seq Data: Jk02.003 - [Batch: jk02.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | STOP | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4950 µS/cm	ic57i07.met	JK02.001	1	
2	PCK001SB *BAH	ic57i07.met	JK02.002	1	
3	MRL	ic57i07.met	JK02.003	1	
4	PCK001SL *BAH	ic57i07.met	JK02.004	1	
5	PCK001SC	ic57i07.met	JK02.005	1	
6	J344-03 87.9 µS/cm	ic57i07.met	JK02.006	1	
7	J344-04 79.2	ic57i07.met	JK02.007	1	
8	J344-05 98.1	ic57i07.met	JK02.008	1	
9	J344-06 136.5	ic57i07.met	JK02.009	1	
10	J344-08 ~~226~~ 140 µS/cm 11/02/07	ic57i07.met	JK02.010	1	
11	RINSE	ic57i07.met	JK02.011	1	
12	CCU44-30	ic57i07.met	JK02.012	1	
13	J344-07 226 µS/cm *BAH	ic57i07.met	JK02.013	1	
14	J344-07D	ic57i07.met	JK02.014	1	
15	J344-07M	ic57i07.met	JK02.015	1	
16	J344-09 134 µS/cm	ic57i07.met	JK02.016	1	
17	J344-10 80.8	ic57i07.met	JK02.017	1	
18	J344-11 119.2	ic57i07.met	JK02.018	1	
19	J344-12 81.5	ic57i07.met	JK02.019	1	
20	J345-03 274	ic57i07.met	JK02.020	1	
21	J345-04 380	ic57i07.met	JK02.021	1	
22	RINSE	ic57i07.met	JK02.022	1	
23	CCU45-15	ic57i07.met	JK02.023	1	
24	J345-05 404 µS/cm *BAH	ic57i07.met	JK02.024	1	
25	J345-06	ic57i07.met	JK02.025	1	

Instrument 1 (T057) – Running MRL (Run 3)...

Start | EZChrom Chromatography... | Method: Ic57i07.met... | Method: Ic57i07.met Bat...

Friday, November 02, 2007
7:33 PM

8021

Method: Ic57i07.met Batch: Jk02.seq Data: Jk02.003 - [Batch: jk02.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Reslib Analyze Reports

Run	Sample ID		Method	Filename	Mult.	Description
25	J345-06	296 µS/cm *BAH	ic57i07.met	JK02.025	1	
26	J345-07	217	ic57i07.met	JK02.026	1	
27	J345-08	214	ic57i07.met	JK02.027	1	
28	J345-09	193	ic57i07.met	JK02.028	1	
29	J345-10	54.9	ic57i07.met	JK02.029	1	
30	J345-11	67.0	ic57i07.met	JK02.030	1	
31	J345-12	66.4	ic57i07.met	JK02.031	1	
32	RINSE		ic57i07.met	JK02.032	1	
33	CCV46-30		ic57i07.met	JK02.033	1	
34	IPCS		ic57i07.met	JK02.034	1	
35	PCK002SB	*BAH	ic57i07.met	JK02.035	1	
36	MRL	4950 µS/cm	ic57i07.met	JK02.036	1	
37	PCK002SL	*BAH	ic57i07.met	JK02.037	1	
38	PCK002SC		ic57i07.met	JK02.038	1	
39	J345-13	83.4 µS/cm	ic57i07.met	JK02.039	1	
40	J345-14	11.12	ic57i07.met	JK02.040	1	
41	J345-15	260	ic57i07.met	JK02.041	1	
42	J345-16	412	ic57i07.met	JK02.042	1	
43	J345-17	538	ic57i07.met	JK02.043	1	
44	RINSE		ic57i07.met	JK02.044	1	
45	CCV47-15		ic57i07.met	JK02.045	1	
46	J345-18	467 µS/cm *BAH	ic57i07.met	JK02.046	1	
47	J345-19	313	ic57i07.met	JK02.047	1	
48	J345-20	283	ic57i07.met	JK02.048	1	
49	J345-20D		ic57i07.met	JK02.049	1	

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method: Ic57i07.met Bat... | untitled - Paint | Friday, November 02, 2007 7:34 PM

8022

Method: Ic57i07.met Batch: Jk02.seq Data: Jk02.003 - [Batch: jk02.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyse | Reports

Run	Sample ID	Method	Filename	Mult.	Description
49	J345-20D *BAH	ic57i07.met	JK02.049	1	
50	J345-20M	ic57i07.met	JK02.050	1	
51	J346-01 198 µS/cm	ic57i07.met	JK02.051	1	
52	J346-02 830	ic57i07.met	JK02.052	1	
53	RINSE	ic57i07.met	JK02.053	1	
54	CCV48-30	ic57i07.met	JK02.054	1	
55	B	ic57i07.met	JK02.055	1	
56	B	ic57i07.met	JK02.056	1	
57	B	ic57i07.met	JK02.057	1	
58	B	ic57i07.met	JK02.058	1	
59	B	ic57i07.met	JK02.059	1	
60	B	ic57i07.met	JK02.060	1	
61	B	ic57i07.met	JK02.061	1	
62	B	ic57i07.met	JK02.062	1	
63	B	ic57i07.met	JK02.063	1	
64	B	ic57i07.met	JK02.064	1	
65	B	ic57i07.met	JK02.065	1	
66	B	ic57i07.met	JK02.066	1	
67	B	ic57i07.met	JK02.067	1	
68	B	ic57i07.met	JK02.068	1	
69	B	ic57i07.met	JK02.069	1	
70	B	ic57i07.met	JK02.070	1	
71	B	ic57i07.met	JK02.071	1	
72	B	ic57i07.met	JK02.072	1	
73	B	ic57i07.met	JK02.073	1	

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method: Ic57i07.met Bat... | untitled - Paint | Friday, November 02, 2007 | 7:34 PM

80023

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK06

Method File: IC57I07

Analytical Batch: PCK003W, PCK004WS & PCK005W ad 11/06/07

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	↓ 988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1017 ad 11/06/07
LCS	1018
MS	999
IPC	1014
CMC	SW8B-02-1027
MRL	SW8B-02-1015 ad 11/06/07

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
145.8 µS/cm	(±) 30	25°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: ad

Date: 11/06/07

Method: Ic57i07.met Batch: Jk06.seq Data: Jk02.054 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4880 µS/cm	ic57i07.met	JK06.001	1	
2	PCK003WB *BAH	ic57i07.met	JK06.002	1	
3	MRL	ic57i07.met	JK06.003	1	
4	PCK003WL *BAH	ic57i07.met	JK06.004	1	
5	PCK003WC	ic57i07.met	JK06.005	1	
6	J344-02 3.10 µS/cm	ic57i07.met	JK06.006	1	
7	J345-02 2.80 µS/cm	ic57i07.met	JK06.007	1	
8	K042-02 1158 µS/cm	ic57i07.met	JK06.008	1	Rec; not used.
9	K042-03 518	ic57i07.met	JK06.009	1	Rec.
10	J385-02 al 11/06/07 3.60 µS/cm	ic57i07.met	JK06.010	1	
11	~~RINSE~~ K042-02 DF=5	ic57i07.met	JK06.011	5 1	al 11/06/07
12	CCV49-15	ic57i07.met	JK06.012	1	
13	J955-02 2.05 µS/cm *BAH	ic57i07.met	JK06.013	1	
14	J955-03 2.070 al 11/06/07	ic57i07.met	JK06.014	1	
15	K033-02 3.01 µS/cm	ic57i07.met	JK06.015	1	
16	K017-02 3.35 µS/cm	ic57i07.met	JK06.016	1	
17	K017-03 572	ic57i07.met	JK06.017	1	
18	J396-01 DF=5 358 µS/cm *DF1	ic57i07.met	JK06.018	5	
19	J396-02 355 µS/cm	ic57i07.met	JK06.019	1	
20	RINSE	ic57i07.met	JK06.020	1	
21	J396-02R *BAH	ic57i07.met	JK06.021	1	RE-ANALYSIS (FOR CONFIRMATION)
22	RINSE	ic57i07.met	JK06.022	1	
23	CCV50-30	ic57i07.met	JK06.023	1	
24	J396-03 335 µS/cm *BAH	ic57i07.met	JK06.024	1	
25	RINSE	ic57i07.met	JK06.025	1	

Instrument 1: T057 Tuesday, November 06, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | 12:42 PM

8025

Method: Ic57i07.met Batch: Jk06.seq Data: Jk02.054 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
25	RINSE	ic57i07.met	JK06.025	1	
26	J396-03R *BAH	ic57i07.met	JK06.026	1	RE-ANALYSIS (FOR CONFIRMATION)
27	RINSE	ic57i07.met	JK06.027	1	
28	J396-01D DF=5 *BAH	ic57i07.met	JK06.028	5	
29	J396-01M DF=5	ic57i07.met	JK06.029	5	al 11/06/07
30	J955-04 DF=5 2960 uS/cm at DF1 al 11/06/07	ic57i07.met	JK06.030	5x	High conductivity.
31	~~RINSE~~ K042-03R	ic57i07.met	JK06.031	1	
32	J344-08 DF=50	ic57i07.met	JK06.032	50	
33	J344-07 DF=200	ic57i07.met	JK06.033	200	al 11/06/07
34	CCV51-15 al 11/06/07	ic57i07.met	JK06.034	1	
35	J344-07D DF=200 *BAH	ic57i07.met	JK06.035	200	
36	J344-07M DF=200	ic57i07.met	JK06.036	200	
37	J344-09 DF=20	ic57i07.met	JK06.037	20	
38	J344-12 DF=20	ic57i07.met	JK06.038	20	
39	J345-06 DF=20	ic57i07.met	JK06.039	20	
40	J345-07 DF=20	ic57i07.met	JK06.040	20	
41	J345-08 DF=20	ic57i07.met	JK06.041	20	
42	J345-09 DF=20	ic57i07.met	JK06.042	20	
43	J345-10 DF=20	ic57i07.met	JK06.043	20	
44	J345-15 DF=20	ic57i07.met	JK06.044	20	
45	CCV52-30	ic57i07.met	JK06.045	1	
46	J345-16 DF=10 *BAH	ic57i07.met	JK06.046	10	
47	J345-17 DF=20	ic57i07.met	JK06.047	20	
48	J345-18 DF=20	ic57i07.met	JK06.048	20	
49	J345-19 DF=20	ic57i07.met	JK06.049	20	

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | untitled - Paint | Tuesday, November 06, 2007 | 12:43 PM

8026

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.003 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single STOP Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
49	J345-19 DF=20 *BAH	ic57i07.met	JK06.049	20	
50	J345-20 DF=20	ic57i07.met	JK06.050	20	
51	J345-20D DF=20	ic57i07.met	JK06.051	20	
52	J345-20M DF=20	ic57i07.met	JK06.052	20	
53	J346-01 DF=50	ic57i07.met	JK06.053	50	
54	CCV53-15	ic57i07.met	JK06.054	1	
55	IPCS 482 ug/L	ic57i07.met	JK06.055	1	
56	PCK004SB *BAH	ic57i07.met	JK06.056	1	
57	MRL	ic57i07.met	JK06.057	1	
58	PCK004SL *BAH	ic57i07.met	JK06.058	1	
59	PCK004SC	ic57i07.met	JK06.059	1	
60	J346-03	ic57i07.met	JK06.060	1	
61	J346-04	ic57i07.met	JK06.061	1	
62	J346-05	ic57i07.met	JK06.062	1	
63	J346-06	ic57i07.met	JK06.063	1	
64	J346-07	ic57i07.met	JK06.064	1	
65	RINSE	ic57i07.met	JK06.065	1	
66	CCV54-30	ic57i07.met	JK06.066	1	
67	J346-08 *BAH	ic57i07.met	JK06.067	1	
68	J346-09	ic57i07.met	JK06.068	1	
69	J346-10	ic57i07.met	JK06.069	1	
70	J346-11	ic57i07.met	JK06.070	1	
71	J346-12	ic57i07.met	JK06.071	1	
72	J346-13	ic57i07.met	JK06.072	1	
73	J285-02	ic57i07.met	JK06.073	1	

Instrument 1 (T057) – Running MRL (Run 3)...

Tuesday, November 06, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method: Ic57i07.met Bat... | untitled - Paint | 3:14 PM

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.074 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
73	J385-03 *B	AH ic57i07.met	JK06.073	1	
74	J385-04	ic57i07.met	JK06.074	1	
75	J385-05	ic57i07.met	JK06.075	1	
76	RINSE	ic57i07.met	JK06.076	1	
77	CCV55-15	ic57i07.met	JK06.077	1	
78	J385-06 *BAH	ic57i07.met	JK06.078	1	
79	J385-06D	ic57i07.met	JK06.079	1	
80	J385-06M	ic57i07.met	JK06.080	1	
81	RINSE	ic57i07.met	JK06.081	1	
82	CCV56-30	ic57i07.met	JK06.082	1	
83	IPCS 4820 µS/cm	ic57i07.met	JK06.083	1	
84	PCK005WB *BAH	ic57i07.met	JK06.084	1	
85	MRL	ic57i07.met	JK06.085	1	
86	PCK005WL *BAH	ic57i07.met	JK06.086	1	
87	PCK005WC	ic57i07.met	JK06.087	1	
88	K017-03 DF=100	ic57i07.met	JK06.088	100	
89	J955-04 DF=2000	ic57i07.met	JK06.089	2000	
90	J344-08 DF=100	ic57i07.met	JK06.090	100	
91	J344-07 DF=500	ic57i07.met	JK06.091	500	
92	J344-07D DF=500	ic57i07.met	JK06.092	500	
93	J344-07M DF=500	ic57i07.met	JK06.093	500	
94	CCV57-15	ic57i07.met	JK06.094	1	
95	J344-09 DF=100	*BAH ic57i07.met	JK06.095	100	
96	J344-12 DF=50	ic57i07.met	JK06.096	50	
97	J345-06 DF=40	ic57i07.met	JK06.097	40	

Instrument 1: T057

Wednesday, November 07, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method Development | 7:57 PM

8928

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.074 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
97	J345-06 DF=40 *	ic57i07.met	JK06.097	40	
98	J345-20 DF=50	ic57i07.met	JK06.098	50	
99	J345-20D DF=50	ic57i07.met	JK06.099	~~100~~	ed 11/07/07
100	J345-20M DF=50	ic57i07.met	JK06.100	~~10~~	
101	J346-01 DF=100	ic57i07.met	JK06.100	20	
102	J346-12 DF=10	ic57i07.met	JK06.100	100	
103	J346-13 DF=20	ic57i07.met	JK06.100	100	
104	J385-03 DF=100	ic57i07.met	JK06.100	1	
105	CCV58-30	ic57i07.met	JK06.100	1	
106	J385-04 DF=100	ic57i07.met	JK06.100	1	
107	CCV59-15	ic57i07.met	JK06.100	1	
108	B	ic57i07.met	JK06.100	1	
109	B	ic57i07.met	JK06.100	1	
110	B	ic57i07.met	JK06.100	1	
111	B	ic57i07.met	JK06.100	1	
112	B	ic57i07.met	JK06.100	1	
113	B	ic57i07.met	JK06.100	1	
114	B	ic57i07.met	JK06.100	1	
115	B	ic57i07.met	JK06.100	1	
116	B	ic57i07.met	JK06.100	1	
117					
118					
119					
120					
121					

Instrument 1: T057

Wednesday, November 07, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method Development | untitled - Paint | 7:57 PM

8029

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * No OH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JI07

Method File: ICS7107

Analytical Batch: N/A

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	-988
CCV	N/A
CCV-15	N/A
CCV-30	N/A
LCS	N/A
MS	N/A
IPC	N/A
CMC	N/A
MRL	N/A

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
N/A	(±) 30	N/A

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: SA

Date: 9/7/2007

8030

Method: Ic57i07.met Batch: Ji07.seq Data: Ji06.010 - [Batch: ji07.seq]

File Edit Method Batch Options Analysis Control Window Help

Run	Sample ID	Method	Filename	Mult.	Description
1	IB	ic57i07.met	JI07.001	1	
2	S-0.0	ic57i07.met	JI07.002	1	
3	S-2.0	ic57i07.met	JI07.003	1	
4	S-4.0	ic57i07.met	JI07.004	1	
5	S-10.0	ic57i07.met	JI07.005	1	
6	S-25.0	ic57i07.met	JI07.006	1	
7	S-30.0	ic57i07.met	JI07.007	1	
8	ICV	ic57i07.met	JI07.008	1	
9	ICB	ic57i07.met	JI07.009	1	
10	B	ic57i07.met	JI07.010	1	
11	B	ic57i07.met	JI07.011	1	
12	B	ic57i07.met	JI07.012	1	
13	B	ic57i07.met	JI07.013	1	
14	B	ic57i07.met	JI07.014	1	
15	B	ic57i07.met	JI07.015	1	
16	B	ic57i07.met	JI07.016	1	
17	B	ic57i07.met	JI07.017	1	
18	B	ic57i07.met	JI07.018	1	
19	B	ic57i07.met	JI07.019	1	
20	B	ic57i07.met	JI07.020	1	
21	B	ic57i07.met	JI07.021	1	
22	B	ic57i07.met	JI07.022	1	
23	B	ic57i07.met	JI07.023	1	
24	B	ic57i07.met	JI07.024	1	
25	B	ic57i07.met	JI07.025	1	

Instrument 1: T057

Friday, September 07, 2007

Start | EZChrom Chromatography... | Method: Ic57i07.met | Method: Ic57i05.met Bat... | 12:01 PM

TABLE OF CONTENTS

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J346**

SECTION		PAGE
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GC/MS-VOA	METHOD 5035/8260B	2000 – 2053
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3050B/6010B METHOD 7471A	7000 – 7049 7050 – 7060
WET	METHOD 314.0	8000 – 8032
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-29-2007
EMAX Batch No.: 07J346

Attn: Michael Wilson

Tetra Tech, Inc.
348 W Hospitality Lane, Ste 100
San Bernardino CA 92408

Subject: Laboratory Report
Project: LMC Beaumont Site 2

Enclosed is the Laboratory report for samples received on 10/26/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
SB5-50'	J346-01	10/25/07	SOIL	PERCHLORATE BY IC VOLATILE ORGANICS BY GC/MS METALS CAM MERCURY
SB4-0.5'	J346-02	10/25/07	SOIL	PERCHLORATE BY IC VOLATILE ORGANICS BY GC/MS METALS CAM MERCURY
SB4-5'	J346-03	10/25/07	SOIL	PERCHLORATE BY IC VOLATILE ORGANICS BY GC/MS METALS CAM MERCURY
SB4-5'-DUP	J346-04	10/25/07	SOIL	PERCHLORATE BY IC VOLATILE ORGANICS BY GC/MS METALS CAM MERCURY
SB4-10'	J346-05	10/25/07	SOIL	PERCHLORATE BY IC VOLATILE ORGANICS BY GC/MS METALS CAM

Sample ID	Control #	Col Date	Matrix	Analysis
				MERCURY
SB4-15'	J346-06	10/25/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-20'	J346-07	10/25/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-25'	J346-08	10/25/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-30'	J346-09	10/25/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-35'	J346-10	10/25/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-40'	J346-11	10/25/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-45'	J346-12	10/25/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-50'	J346-13	10/25/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Acting Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

07 J 346

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: EMAX Labs
1835 W. 205th St.
Torrance, CA 90501
310-618-8889

DATE 10/25/2007 PAGE 3 OF 4

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: David Bertolacci
TC #: 19892-03
SAMPLERS (Signatures)

TURN-AROUND TIME: 10-Day Rush

OBSERVATIONS/COMMENTS: email results to David.Bertolacci@tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs + oxygenates (SW8260B)	Perchlorate (SW4.0)	CAM17 metals (6000/7000 series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
1.	SB5-50'	10/25/2007	1403	X	X	X	N/A	S	G	4	See bottle
2.	SB4-0.5'	↓	1448	X	X	X	↓	↓	↓	↓	↓
3.	SB4-5'	↓	1452	X	X	X	↓	↓	↓	↓	↓
4.	SB4-5'-Dup	↓	1453	X	X	X	↓	↓	↓	↓	↓
5.	SB4-10'	↓	1500	X	X	X	↓	↓	↓	↓	↓
6.	SB4-15'	↓	1508	X	X	X	↓	↓	↓	↓	↓
7.	SB4-20'	↓	1518	X	X	X	↓	↓	↓	↓	↓
8.	SB4-25'	↓	1523	X	X	X	↓	↓	↓	↓	↓
9.	SB4-30'	↓	1530	X	X	X	↓	↓	↓	↓	↓
10.	SB4-35'	↓	1537	X	X	X	↓	↓	↓	↓	↓

FILTERING:
☐ FILTERED ☐ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 139
David Bertolacci		TETRA TECH, INC.	10/25/2007	2000	
RECEIVED BY: Bolden Eckford	SIGNATURE: Bolden Eckford	COMPANY: Top Line / EMAX	DATE: 10/26/07	TIME: 150	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY: Bolden Eckford	SIGNATURE: Bolden Eckford	COMPANY: Top Line	DATE: 10/26/07	TIME: 1730	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: INDRA PATEL	SIGNATURE:	COMPANY: EMAX	DATE: 10/26/07	TIME: 1730	T-RT No Fee Preservation

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

1002

X:\GIS\ATT-MISC\COCR.CDR

07J346

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: EMAX Labs
1835 W. 205th St.
Torrance, CA 90501
310-618-8889

DATE 10/25/2007 PAGE 4 OF 4

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: David Bertolacci
TC #: 19892-03
SAMPLERS (Signatures)

TURN-AROUND TIME: 10-Day Rush

OBSERVATIONS/COMMENTS: email results to David.Bertolacci@tetratech.com thanks

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs + oxygenates (SW 8260B)	Perchlorate (314.0)	CAM 17 metals (6000/7000 series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
1.	SB4-40'	10/25/2007	1548	X	X	X	N/A	S	G	4	Cool bottle
2.	SB4-45'	↓	1600	X	X	X	↓	↓	↓	↓	↓
3.	SB4-50'	↓	1602	X	X	X	↓	↓	↓	↓	↓
4.											
5.											
6.											
7.											
8.											
9.											
10.											

10/25/2007

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
David Bertolacci		TETRA TECH, INC.	10/25/2007	2000	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 139
RECEIVED BY: Golden Eckford	SIGNATURE: Golden Eckford	COMPANY: Top Line / EMAX	DATE: 10/26/07	TIME: 1505	METHOD OF SHIPMENT/SHIPMENT NO.: Courier
RELINQUISHED BY: Golden Eckford	SIGNATURE: Golden Eckford	COMPANY: Top Line	DATE: 10/26/07	TIME: 1730	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: INDRA PATEL	SIGNATURE: [illegible]	COMPANY: EMAX	DATE: 10/26/07	TIME: 1730	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

1003

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 07J346
☐ Client Delivery		Recepient I PATEL
☑ Third Party Top Line Courier		Date 10-26-07
		Time 1730

COC Inspection

☑ Client Name ☐ Client PM/FC ☑ Sampler Name ☑ Sampling Date/Time/Location ☑ Sample ID ☑ Matrix
☑ Address ☑ Tel # / Fax # ☑ Courier Signature ☑ Analysis Required ☑ Preservative (i.f any) ☑ TAT

Safety issues

☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures	☑ Cooler 1 RT °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
			Rec'd AT Room Temp	R5, R6
			No Ice Preservative	

REVIEWS

Sample Labeling _____ Date 10-26-07

SRF _____ Date 10/26/07

PM _____ Date 10/30/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	proceed with analyses
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	Discuss in case narrative.
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1			
C3	Leaking container	H2			
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07J346

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J346**

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Thirteen (13) soil samples were received on 10/26/07 for Volatile Organic analysis by Method 5035/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

   Samples were received at room temperature. Samples were analyzed as per client's instruction.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J346
Instrument ID : T-006

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	V006K08Q	1	NA	11/04/0701:09	11/04/0701:09	RKW086	RKW007	V006K08	Method Blank
LCS1S	V006K08L	1	NA	11/03/0723:12	11/03/0723:12	RKW083	RKW007	V006K08	Lab Control Sample (LCS)
LCD1S	V006K08C	1	NA	11/03/0723:51	11/03/0723:51	RKW084	RKW007	V006K08	LCS Duplicate
SB5-50'	J346-01	.93	8.6	11/04/0703:09	11/04/0703:09	RKW089	RKW007	V006K08	Field Sample
SB4-0.5'	J346-02	.96	3.1	11/04/0703:49	11/04/0703:49	RKW090	RKW007	V006K08	Field Sample
SB4-5'	J346-03	.93	5.2	11/04/0704:29	11/04/0704:29	RKW091	RKW007	V006K08	Field Sample
SB4-5'-DUP	J346-04	.89	5.1	11/04/0705:08	11/04/0705:08	RKW092	RKW007	V006K08	Field Sample
SB4-10'	J346-05	1.0	10.5	11/04/0705:47	11/04/0705:47	RKW093	RKW007	V006K08	Field Sample
SB4-15'	J346-06	.83	7.4	11/04/0706:25	11/04/0706:25	RKW094	RKW007	V006K08	Field Sample
SB4-20'	J346-07	.85	6.7	11/04/0707:03	11/04/0707:03	RKW095	RKW007	V006K08	Field Sample
SB4-25'	J346-08	.96	7.3	11/04/0707:42	11/04/0707:42	RKW096	RKW007	V006K08	Field Sample
SB4-30'	J346-09	.79	6.2	11/04/0708:21	11/04/0708:21	RKW097	RKW007	V006K08	Field Sample
SB4-35'	J346-10	.83	9.5	11/04/0708:59	11/04/0708:59	RKW098	RKW007	V006K08	Field Sample
SB4-40'	J346-11	.98	6.7	11/04/0709:39	11/04/0709:39	RKW099	RKW007	V006K08	Field Sample
MBLK2S	V006K16B	1	NA	11/06/0712:16	11/06/0712:16	RKW175	RKW007	V006K16	Method Blank
LCS2S	V006K16L	1	NA	11/06/0710:57	11/06/0710:57	RKW173	RKW007	V006K16	Lab Control Sample (LCS)
LCD2S	V006K16C	1	NA	11/06/0711:36	11/06/0711:36	RKW174	RKW007	V006K16	LCS Duplicate
SB4-50'	J346-13	.91	9.5	11/06/0712:54	11/06/0712:54	RKW176	RKW007	V006K16	Field Sample
SB4-45'	J346-12R	1.0	7.2	11/06/0718:46	11/06/0718:46	RKW183	RKW007	V006K16	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 03:09
Sample ID:	SB5-50'	Date Analyzed:	11/04/07 03:09
Lab Samp ID:	J346-01	Dilution Factor:	.93
Lab File ID:	RKW089	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	8.6
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.1	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	2.0
1,1,2-TRICHLOROETHANE	ND	5.1	2.0
1,1-DICHLOROETHANE	ND	5.1	2.0
1,1-DICHLOROETHENE	ND	5.1	2.0
1,2-DICHLOROETHANE	ND	5.1	2.0
1,2-DICHLOROPROPANE	ND	5.1	2.0
2-BUTANONE	ND	10	5.1
2-HEXANONE	ND	10	5.1
4-METHYL-2-PENTANONE	ND	10	5.1
ACETONE	ND	10	5.1
BENZENE	ND	5.1	2.0
BROMODICHLOROMETHANE	ND	5.1	2.0
BROMOFORM	ND	5.1	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.1	2.0
CARBON TETRACHLORIDE	ND	5.1	2.0
CHLOROBENZENE	ND	5.1	2.0
CHLOROETHANE	ND	5.1	2.0
CHLOROFORM	ND	5.1	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.1	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	2.0
DIBROMOCHLOROMETHANE	ND	5.1	2.0
ETHYLBENZENE	ND	5.1	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.1	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.1	2.0
STYRENE	ND	5.1	2.0
TETRACHLOROETHENE	ND	5.1	2.0
TOLUENE	ND	5.1	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	2.0
TRICHLOROETHENE	2.8J	5.1	2.0
VINYL CHLORIDE	ND	5.1	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.1	2.0
ETBE	ND	5.1	2.0
TAME	ND	5.1	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	110	60-160
4-BROMOFLUOROBENZENE	108	70-150
TOLUENE-D8	109	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 03:49
Sample ID:	SB4-0.5'	Date Analyzed:	11/04/07 03:49
Lab Samp ID:	J346-02	Dilution Factor:	.96
Lab File ID:	RKW090	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	3.1
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	9.9	5.0
2-HEXANONE	ND	9.9	5.0
4-METHYL-2-PENTANONE	ND	9.9	5.0
ACETONE	ND	9.9	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	9.9	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	9.9	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	9.9	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	9.9	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	9.9
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	118	60-160
4-BROMOFLUOROBENZENE	119	70-150
TOLUENE-D8	110	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 04:29
Sample ID:	SB4-5'	Date Analyzed:	11/04/07 04:29
Lab Samp ID:	J346-03	Dilution Factor:	.93
Lab File ID:	RKW091	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	5.2
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.9	2.0
1,1,2,2-TETRACHLOROETHANE	ND	4.9	2.0
1,1,2-TRICHLOROETHANE	ND	4.9	2.0
1,1-DICHLOROETHANE	ND	4.9	2.0
1,1-DICHLOROETHENE	ND	4.9	2.0
1,2-DICHLOROETHANE	ND	4.9	2.0
1,2-DICHLOROPROPANE	ND	4.9	2.0
2-BUTANONE	ND	9.8	4.9
2-HEXANONE	ND	9.8	4.9
4-METHYL-2-PENTANONE	ND	9.8	4.9
ACETONE	ND	9.8	4.9
BENZENE	ND	4.9	2.0
BROMODICHLOROMETHANE	ND	4.9	2.0
BROMOFORM	ND	4.9	2.0
BROMOMETHANE	ND	9.8	2.0
CARBON DISULFIDE	ND	4.9	2.0
CARBON TETRACHLORIDE	ND	4.9	2.0
CHLOROBENZENE	ND	4.9	2.0
CHLOROETHANE	ND	4.9	2.0
CHLOROFORM	ND	4.9	2.0
CHLOROMETHANE	ND	9.8	2.0
CIS-1,2-DICHLOROETHENE	ND	4.9	2.0
CIS-1,3-DICHLOROPROPENE	ND	4.9	2.0
DIBROMOCHLOROMETHANE	ND	4.9	2.0
ETHYLBENZENE	ND	4.9	2.0
M/P-XYLENES	ND	9.8	2.0
MTBE	ND	4.9	2.0
METHYLENE CHLORIDE	ND	9.8	2.0
O-XYLENE	ND	4.9	2.0
STYRENE	ND	4.9	2.0
TETRACHLOROETHENE	ND	4.9	2.0
TOLUENE	ND	4.9	2.0
TRANS-1,2-DICHLOROETHENE	ND	4.9	2.0
TRANS-1,3-DICHLOROPROPENE	ND	4.9	2.0
TRICHLOROETHENE	ND	4.9	2.0
VINYL CHLORIDE	ND	4.9	2.0
TERT-BUTANOL	ND	20	9.8
DIPE	ND	4.9	2.0
ETBE	ND	4.9	2.0
TAME	ND	4.9	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	113	60-160
4-BROMOFLUOROBENZENE	117	70-150
TOLUENE-D8	108	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 05:08
Sample ID:	SB4-5'-DUP	Date Analyzed:	11/04/07 05:08
Lab Samp ID:	J346-04	Dilution Factor:	.89
Lab File ID:	RKW092	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	5.1
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.4	4.7
2-HEXANONE	ND	9.4	4.7
4-METHYL-2-PENTANONE	ND	9.4	4.7
ACETONE	ND	9.4	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.4	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.4	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.4	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	ND	9.4	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	ND	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9
TERT-BUTANOL	ND	19	9.4
DIPE	ND	4.7	1.9
ETBE	ND	4.7	1.9
TAME	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	115	60-160
4-BROMOFLUOROBENZENE	114	70-150
TOLUENE-D8	110	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 05:47
Sample ID:	SB4-10'	Date Analyzed:	11/04/07 05:47
Lab Samp ID:	J346-05	Dilution Factor:	1.0
Lab File ID:	RKW093	Matrix :	SOIL
Ext Btch ID:	VO06K08	% Moisture :	10.5
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.6	2.2
1,1,2,2-TETRACHLOROETHANE	ND	5.6	2.2
1,1,2-TRICHLOROETHANE	ND	5.6	2.2
1,1-DICHLOROETHANE	ND	5.6	2.2
1,1-DICHLOROETHENE	ND	5.6	2.2
1,2-DICHLOROETHANE	ND	5.6	2.2
1,2-DICHLOROPROPANE	ND	5.6	2.2
2-BUTANONE	ND	11	5.6
2-HEXANONE	ND	11	5.6
4-METHYL-2-PENTANONE	ND	11	5.6
ACETONE	6.5J	11	5.6
BENZENE	ND	5.6	2.2
BROMODICHLOROMETHANE	ND	5.6	2.2
BROMOFORM	ND	5.6	2.2
BROMOMETHANE	ND	11	2.2
CARBON DISULFIDE	ND	5.6	2.2
CARBON TETRACHLORIDE	ND	5.6	2.2
CHLOROBENZENE	ND	5.6	2.2
CHLOROETHANE	ND	5.6	2.2
CHLOROFORM	ND	5.6	2.2
CHLOROMETHANE	ND	11	2.2
CIS-1,2-DICHLOROETHENE	ND	5.6	2.2
CIS-1,3-DICHLOROPROPENE	ND	5.6	2.2
DIBROMOCHLOROMETHANE	ND	5.6	2.2
ETHYLBENZENE	ND	5.6	2.2
M/P-XYLENES	ND	11	2.2
MTBE	ND	5.6	2.2
METHYLENE CHLORIDE	3.4J	11	2.2
O-XYLENE	ND	5.6	2.2
STYRENE	ND	5.6	2.2
TETRACHLOROETHENE	ND	5.6	2.2
TOLUENE	ND	5.6	2.2
TRANS-1,2-DICHLOROETHENE	ND	5.6	2.2
TRANS-1,3-DICHLOROPROPENE	ND	5.6	2.2
TRICHLOROETHENE	ND	5.6	2.2
VINYL CHLORIDE	ND	5.6	2.2
TERT-BUTANOL	ND	22	11
DIPE	ND	5.6	2.2
ETBE	ND	5.6	2.2
TAME	ND	5.6	2.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	115	60-160
4-BROMOFLUOROBENZENE	119	70-150
TOLUENE-D8	109	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 06:25
Sample ID:	SB4-15'	Date Analyzed:	11/04/07 06:25
Lab Samp ID:	J346-06	Dilution Factor:	.83
Lab File ID:	RKW094	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	7.4
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.5	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.5	1.8
1,1,2-TRICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHENE	ND	4.5	1.8
1,2-DICHLOROETHANE	ND	4.5	1.8
1,2-DICHLOROPROPANE	ND	4.5	1.8
2-BUTANONE	ND	9.0	4.5
2-HEXANONE	ND	9.0	4.5
4-METHYL-2-PENTANONE	ND	9.0	4.5
ACETONE	ND	9.0	4.5
BENZENE	ND	4.5	1.8
BROMODICHLOROMETHANE	ND	4.5	1.8
BROMOFORM	ND	4.5	1.8
BROMOMETHANE	ND	9.0	1.8
CARBON DISULFIDE	ND	4.5	1.8
CARBON TETRACHLORIDE	ND	4.5	1.8
CHLOROBENZENE	ND	4.5	1.8
CHLOROETHANE	ND	4.5	1.8
CHLOROFORM	ND	4.5	1.8
CHLOROMETHANE	ND	9.0	1.8
CIS-1,2-DICHLOROETHENE	ND	4.5	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.5	1.8
DIBROMOCHLOROMETHANE	ND	4.5	1.8
ETHYLBENZENE	ND	4.5	1.8
M/P-XYLENES	ND	9.0	1.8
MTBE	ND	4.5	1.8
METHYLENE CHLORIDE	ND	9.0	1.8
O-XYLENE	ND	4.5	1.8
STYRENE	ND	4.5	1.8
TETRACHLOROETHENE	ND	4.5	1.8
TOLUENE	ND	4.5	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.5	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.5	1.8
TRICHLOROETHENE	ND	4.5	1.8
VINYL CHLORIDE	ND	4.5	1.8
TERT-BUTANOL	ND	18	9.0
DIPE	ND	4.5	1.8
ETBE	ND	4.5	1.8
TAME	ND	4.5	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	116	60-160
4-BROMOFLUOROBENZENE	112	70-150
TOLUENE-D8	108	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 07:03
Sample ID:	SB4-20'	Date Analyzed:	11/04/07 07:03
Lab Samp ID:	J346-07	Dilution Factor:	.85
Lab File ID:	RKW095	Matrix :	SOIL
Ext Btch ID:	VO06K08	% Moisture :	6.7
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.6	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.6	1.8
1,1,2-TRICHLOROETHANE	ND	4.6	1.8
1,1-DICHLOROETHANE	ND	4.6	1.8
1,1-DICHLOROETHENE	ND	4.6	1.8
1,2-DICHLOROETHANE	ND	4.6	1.8
1,2-DICHLOROPROPANE	ND	4.6	1.8
2-BUTANONE	ND	9.1	4.6
2-HEXANONE	ND	9.1	4.6
4-METHYL-2-PENTANONE	ND	9.1	4.6
ACETONE	ND	9.1	4.6
BENZENE	ND	4.6	1.8
BROMODICHLOROMETHANE	ND	4.6	1.8
BROMOFORM	ND	4.6	1.8
BROMOMETHANE	ND	9.1	1.8
CARBON DISULFIDE	ND	4.6	1.8
CARBON TETRACHLORIDE	ND	4.6	1.8
CHLOROBENZENE	ND	4.6	1.8
CHLOROETHANE	ND	4.6	1.8
CHLOROFORM	ND	4.6	1.8
CHLOROMETHANE	ND	9.1	1.8
CIS-1,2-DICHLOROETHENE	ND	4.6	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.6	1.8
DIBROMOCHLOROMETHANE	ND	4.6	1.8
ETHYLBENZENE	ND	4.6	1.8
M/P-XYLENES	ND	9.1	1.8
MTBE	ND	4.6	1.8
METHYLENE CHLORIDE	ND	9.1	1.8
O-XYLENE	ND	4.6	1.8
STYRENE	ND	4.6	1.8
TETRACHLOROETHENE	ND	4.6	1.8
TOLUENE	ND	4.6	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.6	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.6	1.8
TRICHLOROETHENE	ND	4.6	1.8
VINYL CHLORIDE	ND	4.6	1.8
TERT-BUTANOL	ND	18	9.1
DIPE	ND	4.6	1.8
ETBE	ND	4.6	1.8
TAME	ND	4.6	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	116	60-160
4-BROMOFLUOROBENZENE	112	70-150
TOLUENE-D8	108	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 07:42
Sample ID:	SB4-25'	Date Analyzed:	11/04/07 07:42
Lab Samp ID:	J346-08	Dilution Factor:	.96
Lab File ID:	RKW096	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	7.3
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.2	2.1
1,1,2,2-TETRACHLOROETHANE	ND	5.2	2.1
1,1,2-TRICHLOROETHANE	ND	5.2	2.1
1,1-DICHLOROETHANE	ND	5.2	2.1
1,1-DICHLOROETHENE	ND	5.2	2.1
1,2-DICHLOROETHANE	ND	5.2	2.1
1,2-DICHLOROPROPANE	ND	5.2	2.1
2-BUTANONE	ND	10	5.2
2-HEXANONE	ND	10	5.2
4-METHYL-2-PENTANONE	ND	10	5.2
ACETONE	ND	10	5.2
BENZENE	ND	5.2	2.1
BROMODICHLOROMETHANE	ND	5.2	2.1
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	ND	10	2.1
CARBON DISULFIDE	ND	5.2	2.1
CARBON TETRACHLORIDE	ND	5.2	2.1
CHLOROBENZENE	ND	5.2	2.1
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	2.1
CHLOROMETHANE	ND	10	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	2.1
CIS-1,3-DICHLOROPROPENE	ND	5.2	2.1
DIBROMOCHLOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	2.1
M/P-XYLENES	ND	10	2.1
MTBE	ND	5.2	2.1
METHYLENE CHLORIDE	ND	10	2.1
O-XYLENE	ND	5.2	2.1
STYRENE	ND	5.2	2.1
TETRACHLOROETHENE	ND	5.2	2.1
TOLUENE	ND	5.2	2.1
TRANS-1,2-DICHLOROETHENE	ND	5.2	2.1
TRANS-1,3-DICHLOROPROPENE	ND	5.2	2.1
TRICHLOROETHENE	ND	5.2	2.1
VINYL CHLORIDE	ND	5.2	2.1
TERT-BUTANOL	ND	21	10
DIPE	ND	5.2	2.1
ETBE	ND	5.2	2.1
TAME	ND	5.2	2.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	119	60-160
4-BROMOFLUOROBENZENE	111	70-150
TOLUENE-D8	106	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 08:21
Sample ID:	SB4-30'	Date Analyzed:	11/04/07 08:21
Lab Samp ID:	J346-09	Dilution Factor:	.79
Lab File ID:	RKW097	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	6.2
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.2	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.2	1.7
1,1,2-TRICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHENE	1.7J	4.2	1.7
1,2-DICHLOROETHANE	ND	4.2	1.7
1,2-DICHLOROPROPANE	ND	4.2	1.7
2-BUTANONE	ND	8.4	4.2
2-HEXANONE	ND	8.4	4.2
4-METHYL-2-PENTANONE	ND	8.4	4.2
ACETONE	ND	8.4	4.2
BENZENE	ND	4.2	1.7
BROMODICHLOROMETHANE	ND	4.2	1.7
BROMOFORM	ND	4.2	1.7
BROMOMETHANE	ND	8.4	1.7
CARBON DISULFIDE	ND	4.2	1.7
CARBON TETRACHLORIDE	ND	4.2	1.7
CHLOROBENZENE	ND	4.2	1.7
CHLOROETHANE	ND	4.2	1.7
CHLOROFORM	ND	4.2	1.7
CHLOROMETHANE	ND	8.4	1.7
CIS-1,2-DICHLOROETHENE	ND	4.2	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.2	1.7
DIBROMOCHLOROMETHANE	ND	4.2	1.7
ETHYLBENZENE	ND	4.2	1.7
M/P-XYLENES	ND	8.4	1.7
MTBE	ND	4.2	1.7
METHYLENE CHLORIDE	ND	8.4	1.7
O-XYLENE	ND	4.2	1.7
STYRENE	ND	4.2	1.7
TETRACHLOROETHENE	ND	4.2	1.7
TOLUENE	ND	4.2	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.2	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.2	1.7
TRICHLOROETHENE	9.8	4.2	1.7
VINYL CHLORIDE	ND	4.2	1.7
TERT-BUTANOL	ND	17	8.4
DIPE	ND	4.2	1.7
ETBE	ND	4.2	1.7
TAME	ND	4.2	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	115	60-160
4-BROMOFLUOROBENZENE	110	70-150
TOLUENE-D8	106	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 08:59
Sample ID:	SB4-35'	Date Analyzed:	11/04/07 08:59
Lab Samp ID:	J346-10	Dilution Factor:	.83
Lab File ID:	RKW098	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	9.5
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.6	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.6	1.8
1,1,2-TRICHLOROETHANE	ND	4.6	1.8
1,1-DICHLOROETHANE	ND	4.6	1.8
1,1-DICHLOROETHENE	ND	4.6	1.8
1,2-DICHLOROETHANE	ND	4.6	1.8
1,2-DICHLOROPROPANE	ND	4.6	1.8
2-BUTANONE	ND	9.2	4.6
2-HEXANONE	ND	9.2	4.6
4-METHYL-2-PENTANONE	ND	9.2	4.6
ACETONE	ND	9.2	4.6
BENZENE	ND	4.6	1.8
BROMODICHLOROMETHANE	ND	4.6	1.8
BROMOFORM	ND	4.6	1.8
BROMOMETHANE	ND	9.2	1.8
CARBON DISULFIDE	ND	4.6	1.8
CARBON TETRACHLORIDE	ND	4.6	1.8
CHLOROBENZENE	ND	4.6	1.8
CHLOROETHANE	ND	4.6	1.8
CHLOROFORM	ND	4.6	1.8
CHLOROMETHANE	ND	9.2	1.8
CIS-1,2-DICHLOROETHENE	ND	4.6	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.6	1.8
DIBROMOCHLOROMETHANE	ND	4.6	1.8
ETHYLBENZENE	ND	4.6	1.8
M/P-XYLENES	ND	9.2	1.8
MTBE	ND	4.6	1.8
METHYLENE CHLORIDE	ND	9.2	1.8
O-XYLENE	ND	4.6	1.8
STYRENE	ND	4.6	1.8
TETRACHLOROETHENE	ND	4.6	1.8
TOLUENE	ND	4.6	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.6	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.6	1.8
TRICHLOROETHENE	7.8	4.6	1.8
VINYL CHLORIDE	ND	4.6	1.8
TERT-BUTANOL	ND	18	9.2
DIPE	ND	4.6	1.8
ETBE	ND	4.6	1.8
TAME	ND	4.6	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	117	60-160
4-BROMOFLUOROBENZENE	110	70-150
TOLUENE-D8	108	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/04/07 09:39
Sample ID:	SB4-40'	Date Analyzed:	11/04/07 09:39
Lab Samp ID:	J346-11	Dilution Factor:	.98
Lab File ID:	RKW099	Matrix :	SOIL
Ext Btch ID:	VO06K08	% Moisture :	6.7
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.3	2.1
1,1,2,2-TETRACHLOROETHANE	ND	5.3	2.1
1,1,2-TRICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHENE	ND	5.3	2.1
1,2-DICHLOROETHANE	ND	5.3	2.1
1,2-DICHLOROPROPANE	ND	5.3	2.1
2-BUTANONE	ND	11	5.3
2-HEXANONE	ND	11	5.3
4-METHYL-2-PENTANONE	ND	11	5.3
ACETONE	ND	11	5.3
BENZENE	ND	5.3	2.1
BROMODICHLOROMETHANE	ND	5.3	2.1
BROMOFORM	ND	5.3	2.1
BROMOMETHANE	ND	11	2.1
CARBON DISULFIDE	ND	5.3	2.1
CARBON TETRACHLORIDE	ND	5.3	2.1
CHLOROBENZENE	ND	5.3	2.1
CHLOROETHANE	ND	5.3	2.1
CHLOROFORM	ND	5.3	2.1
CHLOROMETHANE	ND	11	2.1
CIS-1,2-DICHLOROETHENE	ND	5.3	2.1
CIS-1,3-DICHLOROPROPENE	ND	5.3	2.1
DIBROMOCHLOROMETHANE	ND	5.3	2.1
ETHYLBENZENE	ND	5.3	2.1
M/P-XYLENES	ND	11	2.1
MTBE	ND	5.3	2.1
METHYLENE CHLORIDE	ND	11	2.1
O-XYLENE	ND	5.3	2.1
STYRENE	ND	5.3	2.1
TETRACHLOROETHENE	ND	5.3	2.1
TOLUENE	ND	5.3	2.1
TRANS-1,2-DICHLOROETHENE	ND	5.3	2.1
TRANS-1,3-DICHLOROPROPENE	ND	5.3	2.1
TRICHLOROETHENE	2.4J	5.3	2.1
VINYL CHLORIDE	ND	5.3	2.1
TERT-BUTANOL	ND	21	11
DIPE	ND	5.3	2.1
ETBE	ND	5.3	2.1
TAME	ND	5.3	2.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	117	60-160
4-BROMOFLUOROBENZENE	110	70-150
TOLUENE-D8	107	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/06/07 18:46
Sample ID:	SB4-45'	Date Analyzed:	11/06/07 18:46
Lab Samp ID:	J346-12R	Dilution Factor:	1.0
Lab File ID:	RKW183	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	7.2
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	2.2
1,1,2,2-TETRACHLOROETHANE	ND	5.4	2.2
1,1,2-TRICHLOROETHANE	ND	5.4	2.2
1,1-DICHLOROETHANE	ND	5.4	2.2
1,1-DICHLOROETHENE	ND	5.4	2.2
1,2-DICHLOROETHANE	ND	5.4	2.2
1,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	ND	11	5.4
2-HEXANONE	ND	11	5.4
4-METHYL-2-PENTANONE	ND	11	5.4
ACETONE	26	11	5.4
BENZENE	ND	5.4	2.2
BROMODICHLOROMETHANE	ND	5.4	2.2
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	11	2.2
CARBON DISULFIDE	ND	5.4	2.2
CARBON TETRACHLORIDE	ND	5.4	2.2
CHLOROBENZENE	ND	5.4	2.2
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	2.2
CHLOROMETHANE	ND	11	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	2.2
CIS-1,3-DICHLOROPROPENE	ND	5.4	2.2
DIBROMOCHLOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	2.2
M/P-XYLENES	ND	11	2.2
MTBE	ND	5.4	2.2
METHYLENE CHLORIDE	ND	11	2.2
O-XYLENE	ND	5.4	2.2
STYRENE	ND	5.4	2.2
TETRACHLOROETHENE	ND	5.4	2.2
TOLUENE	ND	5.4	2.2
TRANS-1,2-DICHLOROETHENE	ND	5.4	2.2
TRANS-1,3-DICHLOROPROPENE	ND	5.4	2.2
TRICHLOROETHENE	11	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2
TERT-BUTANOL	ND	22	11
DIPE	ND	5.4	2.2
ETBE	ND	5.4	2.2
TAME	ND	5.4	2.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	109	60-160
4-BROMOFLUOROBENZENE	110	70-150
TOLUENE-D8	105	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/25/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
Batch No.	: 07J346	Date Extracted:	11/06/07 12:54
Sample ID:	SB4-50'	Date Analyzed:	11/06/07 12:54
Lab Samp ID:	J346-13	Dilution Factor:	.91
Lab File ID:	RKW176	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	9.5
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	31	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	44	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	129	60-160
4-BROMOFLUOROBENZENE	110	70-150
TOLUENE-D8	105	70-140

QC SUMMARIES

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/04/07
Batch No.	: 07J346	Date Extracted:	11/04/07 01:09
Sample ID:	MBLK1S	Date Analyzed:	11/04/07 01:09
Lab Samp ID:	V006K08Q	Dilution Factor:	1
Lab File ID:	RKW086	Matrix :	SOIL
Ext Btch ID:	V006K08	% Moisture :	NA
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	70-140
4-BROMOFLUOROBENZENE	112	70-130
TOLUENE-D8	107	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J346
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	V006K08Q	V006K08L	V006K08C		
LAB FILE ID:	RKW086	RKW083	RKW084		
DATE EXTRACTED:	11/04/0701:09	11/03/0723:12	11/03/0723:51	DATE COLLECTED:	NA
DATE ANALYZED:	11/04/0701:09	11/03/0723:12	11/03/0723:51	DATE RECEIVED:	11/03/07
PREP. BATCH:	V006K08	V006K08	V006K08		
CALIB. REF:	RKW007	RKW007	RKW007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	19.6	98	20.0	22.9	115	15	60-130	50
Benzene	ND	20.0	21.2	106	20.0	24.0	120	13	70-130	50
Chlorobenzene	ND	20.0	20.7	104	20.0	23.8	119	14	70-130	50
Toluene	ND	20.0	21.0	105	20.0	24.1	120	14	70-130	50
Trichloroethene	ND	20.0	19.8	99	20.0	23.4	117	17	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	52.3	105	50.0	51.9	104	70-140
4-Bromofluorobenzene	50.0	54.1	108	50.0	51.9	104	70-130
Toluene-d8	50.0	53.0	106	50.0	53.8	108	70-130

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/06/07
Batch No.	: 07J346	Date Extracted:	11/06/07 12:16
Sample ID:	MBLK2S	Date Analyzed:	11/06/07 12:16
Lab Samp ID:	V006K16B	Dilution Factor:	1
Lab File ID:	RKW175	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	NA
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	70-140
4-BROMOFLUOROBENZENE	111	70-130
TOLUENE-D8	105	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J346
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	V006K16B	V006K16L	V006K16C		
LAB FILE ID:	RKW175	RKW173	RKW174		
DATE EXTRACTED:	11/06/0712:16	11/06/0710:57	11/06/0711:36	DATE COLLECTED:	NA
DATE ANALYZED:	11/06/0712:16	11/06/0710:57	11/06/0711:36	DATE RECEIVED:	11/06/07
PREP. BATCH:	V006K16	V006K16	V006K16		
CALIB. REF:	RKW007	RKW007	RKW007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	19.5	97	20.0	19.9	100	2	60-130	50
Benzene	ND	20.0	21.0	105	20.0	21.2	106	1	70-130	50
Chlorobenzene	ND	20.0	21.3	106	20.0	21.5	107	1	70-130	50
Toluene	ND	20.0	20.7	103	20.0	21.5	108	4	70-130	50
Trichloroethene	ND	20.0	20.8	104	20.0	21.5	108	4	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	49.8	100	50.0	50.4	101	70-140
4-Bromofluorobenzene	50.0	52.2	104	50.0	53.2	106	70-130
Toluene-d8	50.0	52.3	105	50.0	52.5	105	70-130

INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW001
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J346
BFB Injection Date : 11/01/07
BFB Injection Time : 17:10
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.65
75	30.0 - 60.0% of mass 95	44.73
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.13
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	82.55
175	5.0 - 9.0% of mass 174	6.07(7.3)1
176	95.0 - 101.0% of mass 174	82.62(100.1)1
177	5.0 - 9.0% of mass 176	4.96(6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD02	V006K011	RKW002	11/01/07	17:58
2	VSTD010	V006K013	RKW004	11/01/07	19:15
3	VSTD020	V006K014	RKW005	11/01/07	19:53
4	VSTD05	V006K015	RKW006	11/01/07	20:32
5	VSTD050	V006K016	RKW007	11/01/07	21:11
6	VSTD080	V006K017	RKW008	11/01/07	21:51
7	VSTD100	V006K018	RKW009	11/01/07	22:29
8	VSTD200	V006K019	RKW010	11/01/07	23:08
9	VSTD300	V006K0110	RKW011	11/01/07	23:47
10	VSTD050	IV006K0101	RKW014	11/02/07	01:44

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :TO06
Beginning DateTime :11/01/07 19:15
Spike Units :PPB
IC File :RKW007

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :11/01/07 23:47
HPChem Method :VO06K01

M	IDX	Parameters	2 17:58 RKW002	5 20:32 RKW006	10 19:15 RKW004	20 19:53 RKW005	50 21:11 RKW007	80 21:51 RKW008	100 22:29 RKW009	200 23:08 RKW010	300 23:47 RKW011	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	11.1907
	2	Dichlorodifluoromethane	0.440	0.427	0.395	0.429	0.379	0.326	0.325	0.333	0.326	0.375	13.09	3.5042
	3	Chloromethane	0.449	0.425	0.364	0.416	0.386	0.353	0.357	0.363	0.365	0.387	9.02	3.9420
	4	Vinyl chloride	0.345	0.390	0.336	0.365	0.337	0.296	0.293	0.267	0.260	0.321	13.91	4.1535
	5	Bromomethane	0.300	0.310	0.247	0.266	0.233	0.227	0.237	0.236	0.247	0.256	11.80	4.9596
	6	Chloroethane	0.176	0.211	0.197	0.213	0.198	0.185	0.188	0.186	0.184	0.193	6.50	5.0901
	7	Dichlorofluoromethane	0.532	0.715	0.654	0.670	0.594	0.591	0.586	0.580	0.580	0.611	9.25	5.1446
	8	Trichlorofluoromethane	0.593	0.600	0.545	0.610	0.538	0.468	0.470	0.482	0.477	0.531	11.16	5.5345
4	9	Acrolein	0.031	0.034	0.027	0.034	0.027	0.030	0.030	0.029	0.029	0.030	8.00	6.1830
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.241	0.270	0.270	0.244	0.221	0.219	0.220	0.220	0.223	0.236	8.98	6.2276
4	11	Acetone	0.130	0.125	0.096	0.124	0.094	0.095	0.091	0.088	0.090	0.104	16.62	6.2736
	12	1,1-Dichloroethene	0.491	0.625	0.572	0.577	0.507	0.495	0.495	0.481	0.481	0.525	9.99	6.5197
5	13	tert-Butyl alcohol	0.035	0.040	0.038	0.046	0.038	0.036	0.035	0.035	0.036	0.038	9.36	6.5864
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	------	0.236	0.200	0.235	0.275	0.291	0.299	0.307	0.283	0.266	14.21	7.0338
	17	Methylene chloride	0.700	0.651	0.528	0.524	0.447	0.434	0.433	0.426	0.422	0.507	20.55	7.2265
	18	Carbon disulfide	0.936	1.226	1.142	1.148	1.010	1.005	1.000	0.973	0.954	1.044	9.77	7.3449
5	19	Acrylonitrile	0.101	0.123	0.098	0.124	0.097	0.100	0.099	0.096	0.096	0.104	10.78	7.3709
	20	tert-Butyl methyl ether (MTBE)	0.734	0.896	0.834	0.878	0.782	0.748	0.735	0.743	0.717	0.785	8.56	7.4309
	21	trans-1,2-Dichloroethene	0.473	0.599	0.549	0.551	0.497	0.476	0.473	0.463	0.457	0.504	9.90	7.6780
	22	Isopropyl ether (DIPE)	0.975	1.213	1.189	1.232	1.102	1.069	1.072	1.057	1.008	1.102	8.24	8.0578
	23	Vinyl acetate	0.557	0.753	0.695	0.734	0.663	0.640	0.642	0.618	0.591	0.655	9.79	8.2083
	24	1,1-Dichloroethane	0.561	0.692	0.670	0.674	0.609	0.594	0.589	0.580	0.565	0.615	8.18	8.2836
	25	tert-Butyl ethyl ether (ETBE)	0.826	1.068	1.036	1.065	0.938	0.889	0.889	0.887	0.833	0.937	10.24	8.6392
4	26	2-Butanone	0.166	0.195	0.147	0.187	0.145	0.150	0.149	0.144	0.145	0.159	12.42	8.8299
	27	2,2-Dichloropropane	0.411	0.510	0.493	0.495	0.435	0.412	0.402	0.392	0.381	0.437	11.33	9.1067
	28	cis-1,2-Dichloroethene	0.527	0.634	0.605	0.615	0.540	0.516	0.514	0.500	0.487	0.549	9.95	9.1674
	29	Chloroform	0.571	0.712	0.675	0.683	0.609	0.583	0.576	0.571	0.556	0.615	9.53	9.4179
	30	Bromochloromethane	0.263	0.340	0.317	0.331	0.301	0.286	0.289	0.284	0.275	0.298	8.74	9.6940
	31	1,1,1-Trichloroethane	0.438	0.570	0.546	0.557	0.496	0.475	0.467	0.462	0.455	0.496	9.86	10.0819
	32	Cyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	tert-Amyl methyl ether (TAME)	0.691	0.884	0.926	0.903	0.858	0.821	0.810	0.800	0.723	0.824	9.62	10.4442
	34	1,2-Dichloroethane-d4	0.417	0.366	0.348	0.421	0.362	0.346	------	------	------	0.377	8.92	10.5777
	35	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	17.4102
	36	1,1-Dichloropropene	0.158	0.189	0.173	0.167	0.152	0.151	0.150	0.150	0.149	0.160	8.56	10.3323
	37	Carbon tetrachloride	0.354	0.480	0.454	0.449	0.404	0.386	0.380	0.377	0.373	0.406	10.78	10.5430
	38	1,2-Dichloroethane	0.422	0.537	0.538	0.533	0.477	0.448	0.437	0.433	0.420	0.472	10.81	10.7402
	39	Benzene	1.190	1.527	1.421	1.411	1.243	1.238	1.216	1.175	1.143	1.285	10.41	10.8232
	40	Trichloroethene	0.356	0.436	0.401	0.402	0.359	0.356	0.347	0.343	0.340	0.371	9.02	11.8722
	41	Methylcyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	42	1,2-Dichloropropane	0.265	0.387	0.364	0.376	0.338	0.333	0.329	0.319	0.315	0.336	10.91	12.1735
	43	Bromodichloromethane	0.376	0.502	0.493	0.492	0.453	0.449	0.437	0.436	0.423	0.451	8.91	12.6222
	44	Dibromomethane	0.188	0.219	0.219	0.227	0.200	0.192	0.185	0.184	0.179	0.199	8.94	12.7548
	45	2-Chloroethyl vinyl ether	------	0.096	0.094	0.109	0.105	0.105	0.106	0.118	0.124	0.107	9.24	13.0468
4	46	4-Methyl-2-pentanone	0.559	0.450	0.365	0.446	0.345	0.350	0.338	0.323	0.317	0.388	20.76	13.1103
	47	cis-1,3-Dichloropropene	0.393	0.493	0.486	0.518	0.481	0.463	0.466	0.474	0.459	0.470	7.23	13.6042
	48	Toluene-d8	1.160	1.150	1.067	1.236	1.076	1.063	------	------	------	1.125	6.14	14.1524
	49	Toluene	1.257	1.597	1.482	1.431	1.272	1.235	1.222	1.152	1.117	1.307	12.28	14.3154
	50	Ethyl methacrylate	0.305	0.450	0.420	0.466	0.426	0.411	0.408	0.411	0.406	0.412	10.89	14.4576
	51	trans-1,3-Dichloropropene	0.276	0.382	0.394	0.425	0.409	0.403	0.399	0.415	0.410	0.390	11.48	14.5831
4	52	2-Hexanone	0.185	0.274	0.199	0.275	0.220	0.231	0.226	0.219	0.218	0.228	13.31	14.8625
	53	1,1,2-Trichloroethane	0.245	0.320	0.316	0.304	0.277	0.269	0.268	0.264	0.256	0.280	9.64	14.9483
	54	1,3-Dichloropropane	0.443	0.574	0.529	0.535	0.480	0.460	0.457	0.454	0.439	0.486	9.95	15.4721
	55	Tetrachloroethene	0.289	0.397	0.346	0.334	0.294	0.294	0.289	0.279	0.277	0.311	12.90	15.7099
	56	Dibromochloromethane	0.235	0.317	0.302	0.329	0.314	0.300	0.299	0.310	0.301	0.301	8.75	16.1354
	57	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	58	1,2-Dibromoethane	0.201	0.274	0.240	0.255	0.204	0.205	0.201	0.208	0.204	0.221	12.48	16.5897

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	59	1-Chlorohexane	0.516	0.611	0.540	0.500	0.452	0.438	0.433	0.430	0.436	0.484	12.95	16.7888
	60	Chlorobenzene	0.858	1.097	0.969	0.982	0.861	0.851	0.832	0.795	0.775	0.891	11.65	17.5010
	61	1,1,1,2-Tetrachloroethane	0.259	0.343	0.319	0.338	0.308	0.300	0.290	0.290	0.278	0.303	9.03	17.5564
	62	Ethylbenzene	1.462	1.829	1.662	1.641	1.441	1.403	1.348	1.283	1.234	1.478	13.21	17.5665
2	63	m-Xylene & p-Xylene	1.146	1.463	1.296	1.267	1.096	1.060	1.018	0.954	------	1.162	14.47	17.7336
	64	o-Xylene	1.116	1.450	1.333	1.347	1.181	1.146	1.115	1.074	1.030	1.199	11.93	18.7513
	65	Styrene	0.744	1.059	1.009	1.026	0.926	0.914	0.891	0.874	0.846	0.921	10.72	18.8195
	66	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	0	23.9518
	67	Isopropylbenzene	3.006	3.727	3.352	3.296	2.871	2.822	2.781	2.683	2.615	3.017	12.19	19.5503
	68	Bromoform	0.255	0.384	0.399	0.428	0.412	0.394	0.400	0.420	0.423	0.391	13.53	19.6793
	69	1,1,2,2-Tetrachloroethane	0.759	0.976	0.872	0.934	0.830	0.809	0.812	0.791	0.788	0.841	8.62	19.9295
	70	4-Bromofluorobenzene	1.153	1.046	0.917	1.085	0.938	0.941	------	------	------	1.013	9.43	20.1748
	71	1,2,3-Trichloropropane	0.133	0.191	0.169	0.191	0.159	0.149	0.149	0.141	0.140	0.158	13.59	20.2874
	72	trans-1,4-Dichloro-2-butene	------	0.111	0.104	0.122	0.126	0.122	0.131	0.144	0.158	0.127	13.67	20.4020
	73	n-Propylbenzene	3.740	4.685	4.290	4.117	3.676	3.591	3.514	3.322	3.178	3.790	12.80	20.4927
	74	Bromobenzene	0.693	0.974	0.892	0.870	0.798	0.773	0.775	0.768	0.760	0.811	10.46	20.6905
	75	1,3,5-Trimethylbenzene	2.455	3.101	2.825	2.741	2.451	2.384	2.350	2.285	2.232	2.536	11.42	20.8575
	76	2-Chlorotoluene	2.328	2.823	2.477	2.401	2.144	2.084	2.024	1.930	1.919	2.237	13.32	20.9767
	77	4-Chlorotoluene	2.262	2.696	2.425	2.413	2.102	1.992	2.023	1.929	1.933	2.197	12.19	21.0692
	78	tert-Butylbenzene	2.289	2.998	2.805	2.531	2.420	2.378	2.340	2.223	2.199	2.465	11.02	21.7200
	79	1,2,4-Trimethylbenzene	2.246	2.950	2.734	2.737	2.456	2.379	2.351	2.258	2.221	2.481	10.57	21.8175
	80	sec-Butylbenzene	3.160	4.197	3.790	3.745	3.327	3.197	3.162	2.968	2.923	3.386	12.70	22.2314
	81	p-Isopropyltoluene	2.336	3.082	2.705	2.854	2.564	2.523	2.449	2.395	2.372	2.587	9.66	22.5408
	82	1,3-Dichlorobenzene	1.442	1.846	1.613	1.617	1.439	1.377	1.378	1.344	1.326	1.487	11.56	22.8544
	83	1,4-Dichlorobenzene	1.414	1.798	1.620	1.574	1.412	1.371	1.379	1.326	1.320	1.468	10.99	23.1019
	84	n-Butylbenzene	2.092	2.622	2.484	2.541	2.356	2.296	2.307	2.227	2.214	2.349	7.27	23.5319
	85	1,2-Dichlorobenzene	1.303	1.721	1.483	1.496	1.327	1.277	1.271	1.245	1.227	1.372	11.88	24.0180
	86	1,2-Dibromo-3-chloropropane	------	0.143	0.119	0.144	0.123	0.119	0.113	0.125	0.130	0.127	8.91	25.8936
	87	1,2,4-Trichlorobenzene	0.541	0.804	0.759	0.774	0.756	0.750	0.788	0.798	0.822	0.755	11.07	28.0546
	88	Hexachlorobutadiene	0.363	0.574	0.501	0.511	0.481	0.483	0.470	0.471	0.495	0.483	11.37	28.3622
	89	Naphthalene	------	1.550	1.258	1.510	1.499	1.540	1.567	1.590	1.609	1.515	7.28	28.7216
	90	1,2,3-Trichlorobenzene	0.466	0.790	0.673	0.686	0.675	0.672	0.687	0.709	0.703	0.674	12.76	29.3132

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.9 Max_%RSD : 20.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
11	Acetone	0.01085	0.09017	0.9982
17	Methylene chloride	0.01665	0.42380	0.9994
46	4-Methyl-2-pentanone	0.05079	0.32469	0.9983

2025

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SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKW014.D Vial: 14
Acq On : 2 Nov 2007 1:44 am Operator: DN
Sample : IVO06K0101 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	50.000	44.267	11.5	84	0.00
3	P,T	Chloromethane	50.000	44.747	10.5	86	0.00
4	C,T	Vinyl chloride	50.000	45.145	9.7	83	0.00
5	T	Bromomethane	50.000	47.599	4.8	101	-0.01
6	T	Chloroethane	50.000	48.016	4.0	90	0.00
7	T	Dichlorofluoromethane	50.000	47.649	4.7	94	0.00
8	T	Trichlorofluoromethane	50.000	44.892	10.2	85	0.00
9	T	Acrolein	200.000	200.904	-0.5	106	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	44.069	11.9	91	0.00
11	T	Acetone	200.000	218.762	-9.4	104	0.00
12	CMT	1,1-Dichloroethene	50.000	45.855	8.3	91	0.00
13	T	tert-Butyl alcohol	250.000	237.275	5.1	90	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	50.000	0.000	100.0#	0	0.00
16	T	Iodomethane	50.000	48.226	3.5	90	0.00
17	T	Methylene chloride	50.000	51.611	-3.2	98	0.00
18	T	Carbon disulfide	50.000	46.736	6.5	93	0.00
19	T	Acrylonitrile	250.000	260.835	-4.3	107	0.00
20	T	tert-Butyl methyl ether (MT	50.000	49.608	0.8	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.254	7.5	90	0.00
22	T	Isopropyl ether (DIPE)	50.000	51.095	-2.2	98	0.00
23	T	Vinyl acetate	50.000	48.857	2.3	93	0.00
24	P,T	1,1-Dichloroethane	50.000	48.908	2.2	95	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	50.573	-1.1	97	0.00
26	T	2-Butanone	200.000	202.221	-1.1	106	0.00
27	T	2,2-Dichloropropane	50.000	45.063	9.9	87	0.00
28	T	cis-1,2-Dichloroethene	50.000	47.351	5.3	93	0.00
29	C,T	Chloroform	50.000	48.347	3.3	94	0.00
30	T	Bromochloromethane	50.000	50.195	-0.4	96	0.00
31	T	1,1,1-Trichloroethane	50.000	45.898	8.2	88	0.00
32	T	Cyclohexane	50.000	0.000	100.0#	0	0.00
33	T	tert-Amyl methyl ether (TAM	50.000	52.636	-5.3	97	0.00
34	S	1,2-Dichloroethane-d4	50.000	50.171	-0.3	100	0.00
35	I	CHLOROBENZENE-D5	50.000	50.000	0.0	97	0.00
36	T	1,1-Dichloropropene	50.000	46.306	7.4	94	0.00
37	T	Carbon tetrachloride	50.000	44.708	10.6	87	0.00
38	T	1,2-Dichloroethane	50.000	48.281	3.4	93	0.00
39	TM	Benzene	50.000	47.580	4.8	95	0.00
40	TM	Trichloroethene	50.000	46.743	6.5	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKW014.D Vial: 14
Acq On : 2 Nov 2007 1:44 am Operator: DN
Sample : IVO06K0101 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	50.000	0.000	100.0#	0	0.00
42	C,T	1,2-Dichloropropane	50.000	50.361	-0.7	97	0.00
43	T	Bromodichloromethane	50.000	49.338	1.3	95	0.00
44	T	Dibromomethane	50.000	48.827	2.3	94	0.00
45	T	2-Chloroethyl vinyl ether	50.000	49.800	0.4	98	-0.01
46	T	4-Methyl-2-pentanone	200.000	225.023	-12.5	106	0.00
47	T	cis-1,3-Dichloropropene	50.000	49.053	1.9	93	0.00
48	S	Toluene-d8	50.000	50.750	-1.5	103	0.00
49	CMT	Toluene	50.000	47.723	4.6	95	0.00
50	T	Ethyl methacrylate	50.000	50.293	-0.6	94	0.00
51	T	trans-1,3-Dichloropropene	50.000	50.014	-0.0	92	0.00
52	T	2-Hexanone	200.000	204.523	-2.3	103	0.00
53	T	1,1,2-Trichloroethane	50.000	48.628	2.7	95	0.00
54	T	1,3-Dichloropropane	50.000	47.532	4.9	93	0.00
55	T	Tetrachloroethene	50.000	44.817	10.4	92	0.00
56	T	Dibromochloromethane	50.000	50.367	-0.7	94	0.00
57	T	2-Ethyl-1-butanol	50.000	0.000	100.0#	0	0.00
58	T	1,2-Dibromoethane	50.000	45.000	10.0	95	0.00
59	T	1-Chlorohexane	50.000	42.181	15.6	87	0.00
60	PM	Chlorobenzene	50.000	47.755	4.5	96	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	49.126	1.7	93	0.00
62	C,T	Ethylbenzene	50.000	46.850	6.3	93	0.00
63	T	m-Xylene & p-Xylene	100.000	90.011	10.0	92	0.00
64	T	o-Xylene	50.000	47.567	4.9	93	0.00
65	T	Styrene	50.000	49.138	1.7	95	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	96	0.00
67	T	Isopropylbenzene	50.000	45.690	8.6	92	0.00
68	P,T	Bromoform	50.000	51.380	-2.8	94	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	48.724	2.6	95	0.00
70	S	4-Bromofluorobenzene	50.000	48.816	2.4	101	0.00
71	T	1,2,3-Trichloropropane	50.000	47.993	4.0	92	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	44.581	10.8	86	0.00
73	T	n-Propylbenzene	50.000	45.040	9.9	89	0.00
74	T	Bromobenzene	50.000	48.849	2.3	95	0.00
75	T	1,3,5-Trimethylbenzene	50.000	45.579	8.8	91	0.00
76	T	2-Chlorotoluene	50.000	45.077	9.8	90	-0.01
77	T	4-Chlorotoluene	50.000	45.088	9.8	91	0.00
78	T	tert-Butylbenzene	50.000	45.588	8.8	89	0.00
79	T	1,2,4-Trimethylbenzene	50.000	46.430	7.1	90	0.00
80	T	sec-Butylbenzene	50.000	43.945	12.1	86	0.00

(#) = Out of Range

2028

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKW014.D Vial: 14
Acq On : 2 Nov 2007 1:44 am Operator: DN
Sample : IVO06K0101 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	44.142	11.7	86	0.00
82	T	1,3-Dichlorobenzene	50.000	45.769	8.5	91	0.00
83	T	1,4-Dichlorobenzene	50.000	45.874	8.3	92	0.00
84	T	n-Butylbenzene	50.000	43.669	12.7	84	0.00
85	T	1,2-Dichlorobenzene	50.000	46.476	7.0	92	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	47.117	5.8	93	0.00
87	T	1,2,4-Trichlorobenzene	50.000	45.421	9.2	87	0.00
88	T	Hexachlorobutadiene	50.000	43.172	13.7	83	0.00
89	T	Naphthalene	50.000	45.751	8.5	89	0.00
90	T	1,2,3-Trichlorobenzene	50.000	45.734	8.5	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

11/8/07

2029

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW081
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J346
BFB Injection Date : 11/03/07
BFB Injection Time : 21:54
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.21
75	30.0 - 60.0% of mass 95	47.36
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.50
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	79.36
175	5.0 - 9.0% of mass 174	6.12(7.7)1
176	95.0 - 101.0% of mass 174	76.42(96.3)1
177	5.0 - 9.0% of mass 176	4.92(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV006K0108	RKW082	11/03/07	22:33
2	MBLK1S	V006K08Q	RKW086	11/04/07	01:09
3	LCS1S	V006K08L	RKW083	11/03/07	23:12
4	LCD1S	V006K08C	RKW084	11/03/07	23:51
5	SB5-50'	J346-01	RKW089	11/04/07	03:09
6	SB4-0.5'	J346-02	RKW090	11/04/07	03:49
7	SB4-5'	J346-03	RKW091	11/04/07	04:29
8	SB4-5'-DUP	J346-04	RKW092	11/04/07	05:08
9	SB4-10'	J346-05	RKW093	11/04/07	05:47
10	SB4-15'	J346-06	RKW094	11/04/07	06:25
11	SB4-20'	J346-07	RKW095	11/04/07	07:03
12	SB4-25'	J346-08	RKW096	11/04/07	07:42
13	SB4-30'	J346-09	RKW097	11/04/07	08:21
14	SB4-35'	J346-10	RKW098	11/04/07	08:59
15	SB4-40'	J346-11	RKW099	11/04/07	09:39

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RKW007
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J346
Date Analyzed: 11/01/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2880578	11.19	2782519	17.41	1331088	23.95
	UPPER LIMIT	5761156	11.69	5565038	17.91	2662176	24.45
	LOWER LIMIT	1440289	10.69	1391260	16.91	665544	23.45
	SAMPLE ID						
1	VSTD050	3034662	11.18	2892892	17.40	1404326	23.94
2	MBLK1S	3296828	11.19	3079531	17.40	1264479	23.94
3	LCS1S	2952097	11.18	2772193	17.41	1252020	23.93
4	LCD1S	2823033	11.18	2639174	17.40	1220060	23.94
5	SB5-50'	2582496	11.18	2418189	17.41	1053399	23.95
6	SB4-0.5'	2543367	11.18	2295805	17.41	877597	23.95
7	SB4-5'	2522894	11.19	2363195	17.40	935593	23.94
8	SB4-5'-DUP	2325445	11.20	2156320	17.41	875543	23.95
9	SB4-10'	2482100	11.18	2273456	17.41	878222	23.95
10	SB4-15'	2486508	11.18	2329779	17.41	973341	23.94
11	SB4-20'	2539560	11.18	2391627	17.40	990119	23.94
12	SB4-25'	2535166	11.18	2421732	17.40	1003943	23.94
13	SB4-30'	2618490	11.18	2472888	17.39	1050179	23.94
14	SB4-35'	2555508	11.18	2397680	17.40	1007565	23.94
15	SB4-40'	2600065	11.18	2462507	17.39	1067320	23.94

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKW082.D Vial: 4
Acq On : 3 Nov 2007 10:33 pm Operator: DN
Sample : CVO06K0108 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	105	-0.01
2	T	Dichlorodifluoromethane	50.000	42.180	15.6	88	0.00
3	P,T	Chloromethane	50.000	45.746	8.5	96	0.00
4	C,T	Vinyl chloride	50.000	44.475	11.0	89	0.00
5	T	Bromomethane	50.000	44.401	11.2	103	-0.01
6	T	Chloroethane	50.000	45.852	8.3	94	0.00
7	T	Dichlorofluoromethane	50.000	47.925	4.2	104	0.00
8	T	Trichlorofluoromethane	50.000	42.848	14.3	89	0.00
9	T	Acrolein	200.000	163.370	18.3	95	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	44.699	10.6	101	0.00
11	T	Acetone	200.000	198.163	0.9	103	0.00
12	CMT	1,1-Dichloroethene	50.000	45.973	8.1	100	0.00
13	T	tert-Butyl alcohol	250.000	256.867	-2.7	107	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	50.000	0.000	100.0#	0	0.00
16	T	Iodomethane	50.000	58.344	-16.7	119	0.00
17	T	Methylene chloride	50.000	52.734	-5.5	109	0.00
18	T	Carbon disulfide	50.000	46.549	6.9	101	0.00
19	T	Acrylonitrile	250.000	240.072	4.0	108	0.00
20	T	tert-Butyl methyl ether (MT	50.000	49.692	0.6	105	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.250	5.5	101	0.00
22	T	Isopropyl ether (DIPE)	50.000	51.160	-2.3	108	0.00
23	T	Vinyl acetate	50.000	44.135	11.7	92	0.00
24	P,T	1,1-Dichloroethane	50.000	49.848	0.3	106	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	50.534	-1.1	106	0.00
26	T	2-Butanone	200.000	182.651	8.7	105	0.00
27	T	2,2-Dichloropropane	50.000	45.314	9.4	96	0.00
28	T	cis-1,2-Dichloroethene	50.000	49.059	1.9	105	0.00
29	C,T	Chloroform	50.000	50.064	-0.1	107	0.00
30	T	Bromochloromethane	50.000	50.660	-1.3	106	-0.01
31	T	1,1,1-Trichloroethane	50.000	47.754	4.5	101	0.00
32	T	Cyclohexane	50.000	0.000	100.0#	0	0.00
33	T	tert-Amyl methyl ether (TAM	50.000	53.694	-7.4	109	0.00
34	S	1,2-Dichloroethane-d4	50.000	52.112	-4.2	114	0.00
35	I	CHLOROBENZENE-D5	50.000	50.000	0.0	104	-0.01
36	T	1,1-Dichloropropene	50.000	46.764	6.5	102	0.00
37	T	Carbon tetrachloride	50.000	46.853	6.3	98	0.00
38	T	1,2-Dichloroethane	50.000	51.720	-3.4	106	0.00
39	TM	Benzene	50.000	49.598	0.8	107	0.00
40	TM	Trichloroethene	50.000	49.087	1.8	105	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKW082.D Vial: 4
Acq On : 3 Nov 2007 10:33 pm Operator: DN
Sample : CVO06K0108 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	50.000	0.000	100.0#	0	0.00
42	C,T	1,2-Dichloropropane	50.000	51.342	-2.7	106	0.00
43	T	Bromodichloromethane	50.000	52.082	-4.2	108	0.00
44	T	Dibromomethane	50.000	51.376	-2.8	106	0.00
45	T	2-Chloroethyl vinyl ether	50.000	53.348	-6.7	113	-0.01
46	T	4-Methyl-2-pentanone	200.000	214.186	-7.1	109	0.00
47	T	cis-1,3-Dichloropropene	50.000	52.596	-5.2	107	0.00
48	S	Toluene-d8	50.000	52.713	-5.4	115	0.00
49	CMT	Toluene	50.000	49.555	0.9	106	0.00
50	T	Ethyl methacrylate	50.000	52.961	-5.9	106	0.00
51	T	trans-1,3-Dichloropropene	50.000	53.760	-7.5	107	0.00
52	T	2-Hexanone	200.000	196.965	1.5	106	0.00
53	T	1,1,2-Trichloroethane	50.000	50.813	-1.6	107	0.00
54	T	1,3-Dichloropropane	50.000	51.115	-2.2	107	0.00
55	T	Tetrachloroethene	50.000	47.206	5.6	104	0.00
56	T	Dibromochloromethane	50.000	53.973	-7.9	108	0.00
57	T	2-Ethyl-1-butanol	50.000	0.000	100.0#	0	0.00
58	T	1,2-Dibromoethane	50.000	49.088	1.8	111	0.00
59	T	1-Chlorohexane	50.000	46.123	7.8	103	0.00
60	PM	Chlorobenzene	50.000	49.494	1.0	107	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	52.741	-5.5	108	0.00
62	C,T	Ethylbenzene	50.000	48.786	2.4	104	0.00
63	T	m-Xylene & p-Xylene	100.000	96.844	3.2	107	0.00
64	T	o-Xylene	50.000	50.558	-1.1	107	0.00
65	T	Styrene	50.000	52.877	-5.8	109	-0.01
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	106	-0.01
67	T	Isopropylbenzene	50.000	48.458	3.1	107	0.00
68	P,T	Bromoform	50.000	54.787	-9.6	110	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	51.265	-2.5	110	0.00
70	S	4-Bromofluorobenzene	50.000	51.927	-3.9	118	0.00
71	T	1,2,3-Trichloropropane	50.000	51.323	-2.6	107	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	51.323	-2.6	109	-0.01
73	T	n-Propylbenzene	50.000	48.780	2.4	106	0.00
74	T	Bromobenzene	50.000	50.728	-1.5	109	0.00
75	T	1,3,5-Trimethylbenzene	50.000	48.474	3.1	106	0.00
76	T	2-Chlorotoluene	50.000	46.899	6.2	103	-0.01
77	T	4-Chlorotoluene	50.000	51.298	-2.6	113	-0.01
78	T	tert-Butylbenzene	50.000	49.774	0.5	107	-0.01
79	T	1,2,4-Trimethylbenzene	50.000	49.300	1.4	105	0.00
80	T	sec-Butylbenzene	50.000	48.019	4.0	103	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKW082.D Vial: 4
Acq On : 3 Nov 2007 10:33 pm Operator: DN
Sample : CVO06K0108 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	49.087	1.8	104	0.00
82	T	1,3-Dichlorobenzene	50.000	50.258	-0.5	110	0.00
83	T	1,4-Dichlorobenzene	50.000	50.914	-1.8	112	0.00
84	T	n-Butylbenzene	50.000	49.123	1.8	103	0.00
85	T	1,2-Dichlorobenzene	50.000	50.363	-0.7	110	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	56.237	-12.5	122	0.00
87	T	1,2,4-Trichlorobenzene	50.000	51.891	-3.8	109	0.00
88	T	Hexachlorobutadiene	50.000	48.529	2.9	103	0.00
89	T	Naphthalene	50.000	51.605	-3.2	110	0.00
90	T	1,2,3-Trichlorobenzene	50.000	52.318	-4.6	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKW082.D Vial: 4
Acq On : 3 Nov 2007 10:33 pm Operator: DN
Sample : CVO06K0108 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	105	-0.01
2	T	Dichlorodifluoromethane	0.375	0.317	15.5	88	0.00
3	P,T	Chloromethane	0.387	0.354	8.5	96	0.00
4	C,T	Vinyl chloride	0.321	0.285	11.2	89	0.00
5	T	Bromomethane	0.256	0.227	11.3	103	-0.01
6	T	Chloroethane	0.193	0.177	8.3	94	0.00
7	T	Dichlorofluoromethane	0.611	0.586	4.1	104	0.00
8	T	Trichlorofluoromethane	0.531	0.455	14.3	89	0.00
9	T	Acrolein	0.030	0.025	16.7	95	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.236	0.211	10.6	101	0.00
11	T	Acetone	0.104	0.092	11.5	103	0.00
12	CMT	1,1-Dichloroethene	0.525	0.483	8.0	100	0.00
13	T	tert-Butyl alcohol	0.038	0.039	-2.6	107	0.00
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.266	0.310	-16.5	119	0.00
17	T	Methylene chloride	0.507	0.464	8.5	109	0.00
18	T	Carbon disulfide	1.044	0.972	6.9	101	0.00
19	T	Acrylonitrile	0.104	0.100	3.8	108	0.00
20	T	tert-Butyl methyl ether (MT	0.785	0.780	0.6	105	0.00
21	T	trans-1,2-Dichloroethene	0.504	0.476	5.6	101	0.00
22	T	Isopropyl ether (DIPE)	1.102	1.127	-2.3	108	0.00
23	T	Vinyl acetate	0.655	0.578	11.8	92	0.00
24	P,T	1,1-Dichloroethane	0.615	0.613	0.3	106	0.00
25	T	tert-Butyl ethyl ether (ETB	0.937	0.947	-1.1	106	0.00
26	T	2-Butanone	0.159	0.145	8.8	105	0.00
27	T	2,2-Dichloropropane	0.437	0.396	9.4	96	0.00
28	T	cis-1,2-Dichloroethene	0.549	0.538	2.0	105	0.00
29	C,T	Chloroform	0.615	0.616	-0.2	107	0.00
30	T	Bromochloromethane	0.298	0.302	-1.3	106	-0.01
31	T	1,1,1-Trichloroethane	0.496	0.474	4.4	101	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.824	0.885	-7.4	109	0.00
34	S	1,2-Dichloroethane-d4	0.377	0.392	-4.0	114	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	104	-0.01
36	T	1,1-Dichloropropene	0.160	0.150	6.3	102	0.00
37	T	Carbon tetrachloride	0.406	0.381	6.2	98	0.00
38	T	1,2-Dichloroethane	0.472	0.488	-3.4	106	0.00
39	TM	Benzene	1.285	1.275	0.8	107	0.00
40	TM	Trichloroethene	0.371	0.365	1.6	105	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKW082.D Vial: 4
Acq On : 3 Nov 2007 10:33 pm Operator: DN
Sample : CVO06K0108 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.336	0.345	-2.7	106	0.00
43	T	Bromodichloromethane	0.451	0.470	-4.2	108	0.00
44	T	Dibromomethane	0.199	0.205	-3.0	106	0.00
45	T	2-Chloroethyl vinyl ether	0.107	0.114	-6.5	113	-0.01
46	T	4-Methyl-2-pentanone	0.388	0.360	7.2	109	0.00
47	T	cis-1,3-Dichloropropene	0.470	0.495	-5.3	107	0.00
48	S	Toluene-d8	1.125	1.186	-5.4	115	0.00
49	CMT	Toluene	1.307	1.296	0.8	106	0.00
50	T	Ethyl methacrylate	0.412	0.436	-5.8	106	0.00
51	T	trans-1,3-Dichloropropene	0.390	0.420	-7.7	107	0.00
52	T	2-Hexanone	0.228	0.224	1.8	106	0.00
53	T	1,1,2-Trichloroethane	0.280	0.284	-1.4	107	0.00
54	T	1,3-Dichloropropane	0.486	0.496	-2.1	107	0.00
55	T	Tetrachloroethene	0.311	0.294	5.5	104	0.00
56	T	Dibromochloromethane	0.301	0.325	-8.0	108	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.221	0.217	1.8	111	0.00
59	T	1-Chlorohexane	0.484	0.446	7.9	103	0.00
60	PM	Chlorobenzene	0.891	0.882	1.0	107	0.00
61	T	1,1,1,2-Tetrachloroethane	0.303	0.319	-5.3	108	0.00
62	C,T	Ethylbenzene	1.478	1.442	2.4	104	0.00
63	T	m-Xylene & p-Xylene	1.162	1.126	3.1	107	0.00
64	T	o-Xylene	1.199	1.212	-1.1	107	0.00
65	T	Styrene	0.921	0.974	-5.8	109	-0.01
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	106	-0.01
67	T	Isopropylbenzene	3.017	2.924	3.1	107	0.00
68	P,T	Bromoform	0.391	0.428	-9.5	110	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.841	0.862	-2.5	110	0.00
70	S	4-Bromofluorobenzene	1.013	1.052	-3.8	118	0.00
71	T	1,2,3-Trichloropropane	0.158	0.162	-2.5	107	0.00
72	T	trans-1,4-Dichloro-2-butene	0.127	0.131	-3.1	109	-0.01
73	T	n-Propylbenzene	3.790	3.698	2.4	106	0.00
74	T	Bromobenzene	0.811	0.823	-1.5	109	0.00
75	T	1,3,5-Trimethylbenzene	2.536	2.459	3.0	106	0.00
76	T	2-Chlorotoluene	2.237	2.098	6.2	103	-0.01
77	T	4-Chlorotoluene	2.197	2.254	-2.6	113	-0.01
78	T	tert-Butylbenzene	2.465	2.454	0.4	107	-0.01
79	T	1,2,4-Trimethylbenzene	2.481	2.446	1.4	105	0.00
80	T	sec-Butylbenzene	3.386	3.251	4.0	103	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K02\RKW082.D Vial: 4
Acq On : 3 Nov 2007 10:33 pm Operator: DN
Sample : CVO06K0108 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	2.587	2.539	1.9	104	0.00
82	T	1,3-Dichlorobenzene	1.487	1.495	-0.5	110	0.00
83	T	1,4-Dichlorobenzene	1.468	1.495	-1.8	112	0.00
84	T	n-Butylbenzene	2.349	2.308	1.7	103	0.00
85	T	1,2-Dichlorobenzene	1.372	1.382	-0.7	110	0.00
86	T	1,2-Dibromo-3-chloropropane	0.127	0.143	-12.6	122	0.00
87	T	1,2,4-Trichlorobenzene	0.755	0.783	-3.7	109	0.00
88	T	Hexachlorobutadiene	0.483	0.469	2.9	103	0.00
89	T	Naphthalene	1.515	1.564	-3.2	110	0.00
90	T	1,2,3-Trichlorobenzene	0.674	0.705	-4.6	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.1.07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A06 -030

BATCH VOO6K01 6

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW001	BFB06K01 ✓	2ml	NA	NA	NA	5:10 pm
02	2	VOO6K01 1 ✓	.6/.2/.04ml				Ket/A 8 / 8X0 2 / TBA 10 ppb
03	3	2	.4/.5/.1ml				20 / 5 / 25
04	4	3 ✓	.8/.1/.2ml				40 / 10 / 50
05	5	4 ✓	1.6/.2/.4ml				80 / 20 / 100
06	6	5 ✓	.4/.5/.1ml				20 / 5 / 25
07	7	6 ✓	4/5/1ml				200 / 50 / 250
08	8	7 ✓	6.4/8/1.6ml				320 / 80 / 400
09	9	8 ✓	8/10/2ml				400 / 100 / 500
10	10	9 ✓	16/20/4ml				800 / 200 / 1000
11	11	10 ✓	24/30/6ml				1200 / 300 / 1500
12	12	IS/SS	5.0ml				
13	13	VOO6K01B					
14	14	IVOO6K01 01 ✓	4/5/1ml				200 / 50 / 250
15	15	02					200 / 50 / 250
16							7:24pm
17							
18							
19							
20					DN		11.2.07
21							
22							
23							
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	11/1/07
ICAL ID	VOO6K01

STANDARDS

NAME	ID	CONC. (mg/L)
DCC 8260	SV1.13.10.3	10/250
DCC Ket-AA	.11.3	250
DCC Bases	.10.1	250
BFB	.5.3	50
IS/SURR. IS / SS	SMC.11.99.2 / .100.1	250 / 250
LCS 8260	SV1.13.12.3	50/250
LCS Ket-AA	.13.3	250
LCS Bases	.2.1	250

SOLVENT	ID
METHANOL	
DATA FILE	07K01

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DN

Date Disposed: 11/2/07

Disposed By: DN

2039

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW171
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J346
BFB Injection Date : 11/06/07
BFB Injection Time : 09:38
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.38
75	30.0 - 60.0% of mass 95	46.42
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.39
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	87.01
175	5.0 - 9.0% of mass 174	6.01(6.9)1
176	95.0 - 101.0% of mass 174	84.99(97.7)1
177	5.0 - 9.0% of mass 176	5.61(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV006K0117	RKW172	11/06/07	10:18
2	MBLK2S	V006K16B	RKW175	11/06/07	12:16
3	LCS2S	V006K16L	RKW173	11/06/07	10:57
4	LCD2S	V006K16C	RKW174	11/06/07	11:36
5	SB4-50'	J346-13	RKW176	11/06/07	12:54
6	SB4-45'	J346-12R	RKW183	11/06/07	18:46

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RKW007
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J346
Date Analyzed: 11/01/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2880578	11.19	2782519	17.41	1331088	23.95
	UPPER LIMIT	5761156	11.69	5565038	17.91	2662176	24.45
	LOWER LIMIT	1440289	10.69	1391260	16.91	665544	23.45
	SAMPLE ID						
1	VSTD050	2773592	11.19	2737504	17.41	1295526	23.95
2	MBLK2S	3749956	11.19	3517578	17.42	1490042	23.97
3	LCS2S	3448714	11.19	3200732	17.41	1517611	23.95
4	LCD2S	3413877	11.20	3189876	17.41	1474283	23.95
5	SB4-50'	2316364	11.20	2211447	17.42	873793	23.96
6	SB4-45'	2941995	11.20	2798944	17.41	1232271	23.95

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	50.000	45.148	9.7	86	0.00
3	P,T	Chloromethane	50.000	48.051	3.9	93	0.00
4	C,T	Vinyl chloride	50.000	49.469	1.1	91	0.01
5	T	Bromomethane	50.000	45.479	9.0	96	0.00
6	T	Chloroethane	50.000	48.609	2.8	91	0.01
7	T	Dichlorofluoromethane	50.000	54.334	-8.7	108	0.00
8	T	Trichlorofluoromethane	50.000	46.891	6.2	89	0.00
9	T	Acrolein	200.000	195.313	2.3	103	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	51.934	-3.9	107	0.00
11	T	Acetone	200.000	234.380	-17.2	111	0.00
12	CMT	1,1-Dichloroethene	50.000	54.079	-8.2	108	0.00
13	T	tert-Butyl alcohol	250.000	281.162	-12.5	107	0.01
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	50.000	0.000	100.0#	0	0.00
16	T	Iodomethane	50.000	78.037	-56.1#	145	0.00
17	T	Methylene chloride	50.000	56.213	-12.4	106	0.00
18	T	Carbon disulfide	50.000	51.290	-2.6	102	0.00
19	T	Acrylonitrile	250.000	272.657	-9.1	112	0.00
20	T	tert-Butyl methyl ether (MT	50.000	56.372	-12.7	109	0.00
21	T	trans-1,2-Dichloroethene	50.000	54.367	-8.7	106	0.00
22	T	Isopropyl ether (DIPE)	50.000	56.635	-13.3	109	0.00
23	T	Vinyl acetate	50.000	55.899	-11.8	106	0.00
24	P,T	1,1-Dichloroethane	50.000	56.163	-12.3	109	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	57.217	-14.4	110	0.00
26	T	2-Butanone	200.000	211.694	-5.8	111	0.00
27	T	2,2-Dichloropropane	50.000	57.627	-15.3	111	0.00
28	T	cis-1,2-Dichloroethene	50.000	56.288	-12.6	110	0.00
29	C,T	Chloroform	50.000	56.255	-12.5	109	0.00
30	T	Bromochloromethane	50.000	56.649	-13.3	108	0.00
31	T	1,1,1-Trichloroethane	50.000	56.391	-12.8	109	0.00
32	T	Cyclohexane	50.000	0.000	100.0#	0	0.00
33	T	tert-Amyl methyl ether (TAM	50.000	55.199	-10.4	102	0.00
34	S	1,2-Dichloroethane-d4	50.000	52.613	-5.2	105	0.00
35	I	CHLOROBENZENE-D5	50.000	50.000	0.0	98	0.00
36	T	1,1-Dichloropropene	50.000	52.733	-5.5	109	0.00
37	T	Carbon tetrachloride	50.000	53.821	-7.6	107	0.00
38	T	1,2-Dichloroethane	50.000	56.398	-12.8	110	0.00
39	TM	Benzene	50.000	54.231	-8.5	110	0.00
40	TM	Trichloroethene	50.000	54.082	-8.2	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	50.000	0.000	100.0#	0	0.00
42	C,T	1,2-Dichloropropane	50.000	56.639	-13.3	111	0.00
43	T	Bromodichloromethane	50.000	57.194	-14.4	112	0.00
44	T	Dibromomethane	50.000	55.752	-11.5	109	0.00
45	T	2-Chloroethyl vinyl ether	50.000	57.736	-15.5	116	-0.01
46	T	4-Methyl-2-pentanone	200.000	234.896	-17.4	112	0.00
47	T	cis-1,3-Dichloropropene	50.000	60.569	-21.1#	117	0.00
48	S	Toluene-d8	50.000	51.306	-2.6	106	0.00
49	CMT	Toluene	50.000	54.682	-9.4	111	0.00
50	T	Ethyl methacrylate	50.000	57.284	-14.6	109	0.00
51	T	trans-1,3-Dichloropropene	50.000	61.292	-22.6#	115	0.00
52	T	2-Hexanone	200.000	215.783	-7.9	110	0.00
53	T	1,1,2-Trichloroethane	50.000	57.293	-14.6	114	0.00
54	T	1,3-Dichloropropane	50.000	57.425	-14.8	114	0.00
55	T	Tetrachloroethene	50.000	52.885	-5.8	110	0.00
56	T	Dibromochloromethane	50.000	58.387	-16.8	110	0.00
57	T	2-Ethyl-1-butanol	50.000	0.000	100.0#	0	0.00
58	T	1,2-Dibromoethane	50.000	56.984	-14.0	122	0.00
59	T	1-Chlorohexane	50.000	53.680	-7.4	113	0.00
60	PM	Chlorobenzene	50.000	55.767	-11.5	114	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	57.211	-14.4	111	0.00
62	C,T	Ethylbenzene	50.000	55.044	-10.1	111	0.00
63	T	m-Xylene & p-Xylene	100.000	106.809	-6.8	111	0.00
64	T	o-Xylene	50.000	55.844	-11.7	112	0.00
65	T	Styrene	50.000	58.421	-16.8	114	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	97	0.00
67	T	Isopropylbenzene	50.000	54.839	-9.7	112	0.00
68	P,T	Bromoform	50.000	60.116	-20.2#	111	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	56.914	-13.8	112	0.00
70	S	4-Bromofluorobenzene	50.000	51.291	-2.6	108	0.00
71	T	1,2,3-Trichloropropane	50.000	55.516	-11.0	107	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	62.357	-24.7#	122	0.00
73	T	n-Propylbenzene	50.000	56.098	-12.2	113	0.01
74	T	Bromobenzene	50.000	56.494	-13.0	112	0.00
75	T	1,3,5-Trimethylbenzene	50.000	55.648	-11.3	112	0.00
76	T	2-Chlorotoluene	50.000	52.956	-5.9	108	0.00
77	T	4-Chlorotoluene	50.000	55.828	-11.7	114	0.00
78	T	tert-Butylbenzene	50.000	56.669	-13.3	112	0.00
79	T	1,2,4-Trimethylbenzene	50.000	56.130	-12.3	110	0.00
80	T	sec-Butylbenzene	50.000	56.160	-12.3	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	56.728	-13.5	111	0.00
82	T	1,3-Dichlorobenzene	50.000	55.522	-11.0	112	0.00
83	T	1,4-Dichlorobenzene	50.000	56.066	-12.1	113	0.00
84	T	n-Butylbenzene	50.000	56.274	-12.5	109	0.00
85	T	1,2-Dichlorobenzene	50.000	56.102	-12.2	113	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	66.676	-33.4#	134	0.00
87	T	1,2,4-Trichlorobenzene	50.000	57.790	-15.6	112	0.00
88	T	Hexachlorobutadiene	50.000	54.997	-10.0	108	0.00
89	T	Naphthalene	50.000	54.116	-8.2	107	0.00
90	T	1,2,3-Trichlorobenzene	50.000	56.379	-12.8	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	0.375	0.339	9.6	86	0.00
3	P,T	Chloromethane	0.387	0.372	3.9	93	0.00
4	C,T	Vinyl chloride	0.321	0.318	0.9	91	0.01
5	T	Bromomethane	0.256	0.233	9.0	96	0.00
6	T	Chloroethane	0.193	0.188	2.6	91	0.01
7	T	Dichlorofluoromethane	0.611	0.664	-8.7	108	0.00
8	T	Trichlorofluoromethane	0.531	0.498	6.2	89	0.00
9	T	Acrolein	0.030	0.029	3.3	103	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.236	0.246	-4.2	107	0.00
11	T	Acetone	0.104	0.108	-3.8	111	0.00
12	CMT	1,1-Dichloroethene	0.525	0.568	-8.2	108	0.00
13	T	tert-Butyl alcohol	0.038	0.042	-10.5	107	0.01
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.266	0.415	-56.0#	145	0.00
17	T	Methylene chloride	0.507	0.493	2.8	106	0.00
18	T	Carbon disulfide	1.044	1.071	-2.6	102	0.00
19	T	Acrylonitrile	0.104	0.113	-8.7	112	0.00
20	T	tert-Butyl methyl ether (MT	0.785	0.885	-12.7	109	0.00
21	T	trans-1,2-Dichloroethene	0.504	0.548	-8.7	106	0.00
22	T	Isopropyl ether (DIPE)	1.102	1.248	-13.2	109	0.00
23	T	Vinyl acetate	0.655	0.732	-11.8	106	0.00
24	P,T	1,1-Dichloroethane	0.615	0.691	-12.4	109	0.00
25	T	tert-Butyl ethyl ether (ETB	0.937	1.072	-14.4	110	0.00
26	T	2-Butanone	0.159	0.168	-5.7	111	0.00
27	T	2,2-Dichloropropane	0.437	0.503	-15.1	111	0.00
28	T	cis-1,2-Dichloroethene	0.549	0.618	-12.6	110	0.00
29	C,T	Chloroform	0.615	0.692	-12.5	109	0.00
30	T	Bromochloromethane	0.298	0.338	-13.4	108	0.00
31	T	1,1,1-Trichloroethane	0.496	0.560	-12.9	109	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.824	0.910	-10.4	102	0.00
34	S	1,2-Dichloroethane-d4	0.377	0.396	-5.0	105	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00
36	T	1,1-Dichloropropene	0.160	0.169	-5.6	109	0.00
37	T	Carbon tetrachloride	0.406	0.437	-7.6	107	0.00
38	T	1,2-Dichloroethane	0.472	0.532	-12.7	110	0.00
39	TM	Benzene	1.285	1.394	-8.5	110	0.00
40	TM	Trichloroethene	0.371	0.402	-8.4	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.336	0.381	-13.4	111	0.00
43	T	Bromodichloromethane	0.451	0.516	-14.4	112	0.00
44	T	Dibromomethane	0.199	0.222	-11.6	109	0.00
45	T	2-Chloroethyl vinyl ether	0.107	0.124	-15.9	116	-0.01
46	T	4-Methyl-2-pentanone	0.388	0.394	-1.5	112	0.00
47	T	cis-1,3-Dichloropropene	0.470	0.570	-21.3#	117	0.00
48	S	Toluene-d8	1.125	1.155	-2.7	106	0.00
49	CMT	Toluene	1.307	1.430	-9.4	111	0.00
50	T	Ethyl methacrylate	0.412	0.471	-14.3	109	0.00
51	T	trans-1,3-Dichloropropene	0.390	0.478	-22.6#	115	0.00
52	T	2-Hexanone	0.228	0.245	-7.5	110	0.00
53	T	1,1,2-Trichloroethane	0.280	0.321	-14.6	114	0.00
54	T	1,3-Dichloropropane	0.486	0.558	-14.8	114	0.00
55	T	Tetrachloroethene	0.311	0.329	-5.8	110	0.00
56	T	Dibromochloromethane	0.301	0.351	-16.6	110	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.221	0.252	-14.0	122	0.00
59	T	1-Chlorohexane	0.484	0.520	-7.4	113	0.00
60	PM	Chlorobenzene	0.891	0.994	-11.6	114	0.00
61	T	1,1,1,2-Tetrachloroethane	0.303	0.347	-14.5	111	0.00
62	C,T	Ethylbenzene	1.478	1.627	-10.1	111	0.00
63	T	m-Xylene & p-Xylene	1.162	1.242	-6.9	111	0.00
64	T	o-Xylene	1.199	1.339	-11.7	112	0.00
65	T	Styrene	0.921	1.076	-16.8	114	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	97	0.00
67	T	Isopropylbenzene	3.017	3.309	-9.7	112	0.00
68	P,T	Bromoform	0.391	0.470	-20.2#	111	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.841	0.957	-13.8	112	0.00
70	S	4-Bromofluorobenzene	1.013	1.040	-2.7	108	0.00
71	T	1,2,3-Trichloropropane	0.158	0.175	-10.8	107	0.00
72	T	trans-1,4-Dichloro-2-butene	0.127	0.159	-25.2#	122	0.00
73	T	n-Propylbenzene	3.790	4.253	-12.2	113	0.01
74	T	Bromobenzene	0.811	0.917	-13.1	112	0.00
75	T	1,3,5-Trimethylbenzene	2.536	2.822	-11.3	112	0.00
76	T	2-Chlorotoluene	2.237	2.369	-5.9	108	0.00
77	T	4-Chlorotoluene	2.197	2.453	-11.7	114	0.00
78	T	tert-Butylbenzene	2.465	2.794	-13.3	112	0.00
79	T	1,2,4-Trimethylbenzene	2.481	2.785	-12.3	110	0.00
80	T	sec-Butylbenzene	3.386	3.803	-12.3	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	2.587	2.935	-13.5	111	0.00
82	T	1,3-Dichlorobenzene	1.487	1.651	-11.0	112	0.00
83	T	1,4-Dichlorobenzene	1.468	1.646	-12.1	113	0.00
84	T	n-Butylbenzene	2.349	2.644	-12.6	109	0.00
85	T	1,2-Dichlorobenzene	1.372	1.540	-12.2	113	0.00
86	T	1,2-Dibromo-3-chloropropane	0.127	0.170	-33.9#	134	0.00
87	T	1,2,4-Trichlorobenzene	0.755	0.872	-15.5	112	0.00
88	T	Hexachlorobutadiene	0.483	0.531	-9.9	108	0.00
89	T	Naphthalene	1.515	1.640	-8.3	107	0.00
90	T	1,2,3-Trichlorobenzene	0.674	0.760	-12.8	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.3.07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A06 -030

BATCH V06K01 07

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW079	BFB06K07	2µl				
02	080	↓ 08	↓				3 passed
03	81	V06K01 07 ✓	1/4/5µl				Used as BFB (9:54 pm)
04	82	↓ 08 ✓	↓				
05	83	V06K08L ✓	.4/6/10µl				
06	84	C ✓	↓				
07	85	B	5.0g				
08	86	↓ Q ✓	↓	1.0			
09	87	VPJ033SQ ✗ ✓	4.9g	1.0		✓	
10	88	07J370-01 ✓	5.3g	.94		✓	
11	89	07J346-01 ✓	5.4g	.93		✓	
12	90	-02 ✓	5.2g	.96		✓	
13	91	-03	5.4g	~~.87~~ .93		✓	
14	92	-04 ✓	5.6g	~~1.0~~ .89		✓	
15	93	-05 ✓	5.0g	~~.83~~ 1.0		✓	
16	94	-06 ✓	6.0g	~~.85~~ .83		✓	
17	95	-07 ✓	5.9g	~~.96~~ .85		✓	
18	96	-08 ✓	5.2g	~~.79~~ .96		✓	
19	97	-09 ✓	6.2g	~~.83~~ .79		✓	
20	98	-10 ✓	6.0g	.83		✓	
21	99	-11 ✓	5.1g	.98		✓	
22	100	RINSE	5.0g				9:39 am
23							
24				DN	11.5.07		
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	11.1.07
ICAL ID	V06K01

STANDARDS

NAME	ID	CONC. (mg/L)
DCC	Std .13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.5.1	50/50
LCS	.12.3	
LCS	.13.3	
LCS	.2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K02

Electronic Data Archival

Location	Date
HPCHEM_VOA/T006	

Comments:

Analyzed By: DN

Date Disposed: 11/5/07

Disposed By: DN

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ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.6.07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A06 -031

BATCH 07K0601

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW171	PTB 06K16 ✓	2ml				9:38 am
02	172	V06K01 17 ✓	1.4/2ml				
03	173	V06K16 L ✓	.4/1.6/2ml				
04	174	C ✓	↓				
05	175	D ✓	5.0g	1.0		✓	
06	176	07J346-13 ✓	5.5g	.91			
07	177	07J955-08R ✓	6.4g	.78			
08	178	-08V ✓	6.9g	.72			
09	179	-08V ✓	4.8g	1.0			
10	180	-22 ✓	6.1g	.82			
11	181	-06R ✓	5.6g	.89			
12	182	-07R ✓	5.7g	.88			
13	183	07J346-12R ✓	5.0g	1.0			
14	184	07J955-14R ✓	6.4g	.78			
15	185	-15R ✓	6.0g	.83			
16	186	-10R ✓	6.7g	.75			
17	187	-11R ✓	5.5g	.91		↓	9:21 pm
18							
19							
20							
21				DN 11.7.07			
22							
23							
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	11.1.07
ICAL ID	V06K01

STANDARDS NAME	ID	CONC. (mg/L)
DCC	Std. 13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.5.1	50/250
LCS	.12.3	
LCS	.13.3	
LCS	.2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K06

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DN

Date Disposed: 11/7/07

Disposed By: DN

2059

EXTRACTION LOGS

PRESERVATION LOG FOR VOLATILES

METHOD [X] 5035 **Book #** E02-018

Matrix: SOIL STARTING DATE 11/3/07 11:15 Ending Date 11/3/07 12:15

Lab Sample ID	W1 (g)	Wf (g)	Ws(g)	D.F.
BLANK	30.0	35.0	5.0	1.00
07J346-01	31.9	37.3	5.4	0.93
07J346-02	32.1	37.3	5.2	0.96
07J346-03	31.8	37.2	5.4	0.93
07J346-04	31.9	37.5	5.6	0.89
07J346-05	31.7	36.7	5.0	1.00
07J346-06	31.9	37.9	6.0	0.83
07J346-07	32.0	37.9	5.9	0.85
07J346-08	32.1	37.3	5.2	0.96
07J346-09	31.9	38.2	6.3	0.79
07J346-10	31.9	37.9	6.0	0.83
07J346-11	31.8	36.9	5.1	0.98
07J346-12	32.1	38.3	6.2	0.81
07J346-13	31.8	37.3	5.5	0.91

Standards / Reagents	ID / Lot#	Amount Added (ml)
SURROGATE		
LCS/MS		
REAGENT (WATER)		5.0 ML
NaHS04 H20		
SAND	SW1A-03-331	5.0G

DISPENSER CHECK WITH 5.0 ML
VOLUMETRIC FLASK.
J346 ARE PRE-WEIGHED VIALS.

Prepared By: MH / CR

Standard Added By:

Witnessed By:

Checked By: DN

Extract Received By: DN

Extract Location VS05

PRESERVATION LOG FOR VOLATILES

METHOD [X] 5035 **Book #** E02-018

Matrix: SOIL STARTING DATE 11/3/07 11:30 Ending Date 11/3/07 12:30

Lab Sample ID	W1 (g)	Wf (g)	Ws(g)	D.F.
BLANK	30.0	35.0	5.0	1.00
07J346-01R	32.0	37.5	5.5	0.91
07J346-02R	32.0	36.6	4.6	1.09
07J346-03R	31.9	37.1	5.2	0.96
07J346-04R	32.0	37.6	5.6	0.89
07J346-05R	31.6	36.8	5.2	0.96
07J346-06R	31.8	37.8	6.0	0.83
07J346-07R	31.9	36.9	5.0	1.00
07J346-08R	31.8	37.9	6.1	0.82
07J346-09R	31.8	37.8	6.0	0.83
07J346-10R	32.0	37.9	5.9	0.85
07J346-11R	32.0	38.2	6.2	0.81
07J346-12R	31.9	36.9	5.0	1.00
07J346-13R	31.8	37.7	5.9	0.85

Standards / Reagents	ID / Lot#	Amount Added (ml)
SURROGATE		
LCS/MS		
REAGENT (WATER)		5.0 ML
NaHS04 H20		
SAND	SW-1A-03-331	5.0gm

J346 ARE PRE-WEIGHED VIALS.

Prepared By: GL / CR

Standard Added By:

Witnessed By:

Checked By: DN

Extract Received By: DN

Extract Location VS05

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METALS / MERCURY

SDG#: 07J346

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J346**

METHOD 3050B/6010B
METALS BY ICP

Thirteen (13) soil samples were received on 10/26/07 for Metals analysis by Method 3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution/Post-Analytical Spike

Sample J346-02 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample J346-02 was spiked. All recoveries were within QC limit except Antimony in both MS/MSD was out the limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception.

All samples were received out of cooler temperature requirement. Samples were analyzed as per Client's instruction.

LAB CHRONICLE
METALS BY ICP

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J346
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPJ066SB	1	NA	11/14/0720:11	10/31/0713:00	ID8K012061	ID8K012059	IPJ066S	Method Blank
LCS1S	IPJ066SL	1	NA	11/14/0720:17	10/31/0713:00	ID8K012062	ID8K012059	IPJ066S	Lab Control Sample (LCS)
LCD1S	IPJ066SC	1	NA	11/14/0720:22	10/31/0713:00	ID8K012063	ID8K012059	IPJ066S	LCS Duplicate
SB4-0.5'MS	J346-02M	1	3.1	11/14/0720:27	10/31/0713:00	ID8K012064	ID8K012059	IPJ066S	Matrix Spike Sample (MS)
SB4-0.5'MSD	J346-02S	1	3.1	11/14/0720:33	10/31/0713:00	ID8K012065	ID8K012059	IPJ066S	MS Duplicate (MSD)
SB4-0.5'AS	J346-02A	1	3.1	11/14/0720:38	10/31/0713:00	ID8K012066	ID8K012059	IPJ066S	Analytical Spike Sample
SB4-0.5'	J346-02	1	3.1	11/14/0720:44	10/31/0713:00	ID8K012067	ID8K012059	IPJ066S	Field Sample
SB4-0.5'DL	J346-02J	5	3.1	11/14/0720:49	10/31/0713:00	ID8K012068	ID8K012059	IPJ066S	Diluted Sample
SB5-50'	J346-01	1	8.6	11/14/0720:55	10/31/0713:00	ID8K012069	ID8K012059	IPJ066S	Field Sample
SB4-5'	J346-03	1	5.2	11/14/0721:17	10/31/0713:00	ID8K012073	ID8K012071	IPJ066S	Field Sample
SB4-5'-DUP	J346-04	1	5.1	11/14/0721:22	10/31/0713:00	ID8K012074	ID8K012071	IPJ066S	Field Sample
SB4-10'	J346-05	1	10.5	11/14/0721:28	10/31/0713:00	ID8K012075	ID8K012071	IPJ066S	Field Sample
SB4-15'	J346-06	1	7.4	11/14/0721:33	10/31/0713:00	ID8K012076	ID8K012071	IPJ066S	Field Sample
SB4-20'	J346-07	1	6.7	11/14/0721:39	10/31/0713:00	ID8K012077	ID8K012071	IPJ066S	Field Sample
SB4-25'	J346-08	1	7.3	11/14/0721:44	10/31/0713:00	ID8K012078	ID8K012071	IPJ066S	Field Sample
SB4-30'	J346-09	1	6.2	11/14/0721:50	10/31/0713:00	ID8K012079	ID8K012071	IPJ066S	Field Sample
SB4-35'	J346-10	1	9.5	11/14/0721:56	10/31/0713:00	ID8K012080	ID8K012071	IPJ066S	Field Sample
SB4-40'	J346-11	1	6.7	11/14/0722:01	10/31/0713:00	ID8K012081	ID8K012071	IPJ066S	Field Sample
SB4-45'	J346-12	1	7.2	11/14/0722:23	10/31/0713:00	ID8K012085	ID8K012083	IPJ066S	Field Sample
SB4-50'	J346-13	1	9.5	11/14/0722:28	10/31/0713:00	ID8K012086	ID8K012083	IPJ066S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 14:03
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB5-50'	Date Analyzed:	11/14/07 20:55
Lab Samp ID:	J346-01	Dilution Factor:	1
Lab File ID:	ID8K012069	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	8.6
Calib. Ref.:	ID8K012059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.19
Arsenic	3.11	1.09	0.438
Barium	64.8	1.09	0.219
Beryllium	0.708J	1.09	0.219
Cadmium	0.551J	1.09	0.547
Chromium	18.5	2.19	1.09
Cobalt	7.92	2.19	1.09
Copper	13.0	2.19	0.547
Lead	3.79	1.09	0.219
Molybdenum	ND	5.47	0.547
Nickel	13.7	2.19	1.09
Selenium	1.10	1.09	0.547
Silver	ND	2.19	0.547
Thallium	0.875J	1.09	0.547
Vanadium	43.1	2.19	0.547
Zinc	43.0	1.09	0.547

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 14:48
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-0.5'	Date Analyzed:	11/14/07 20:44
Lab Samp ID:	J346-02	Dilution Factor:	1
Lab File ID:	ID8K012067	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	3.1
Calib. Ref.:	ID8K012059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.3	2.06
Arsenic	2.08	1.03	0.413
Barium	113	1.03	0.206
Beryllium	0.538J	1.03	0.206
Cadmium	ND	1.03	0.516
Chromium	17.8	2.06	1.03
Cobalt	9.54	2.06	1.03
Copper	20.5	2.06	0.516
Lead	4.66	1.03	0.206
Molybdenum	ND	5.16	0.516
Nickel	15.5	2.06	1.03
Selenium	0.991J	1.03	0.516
Silver	ND	2.06	0.516
Thallium	0.876J	1.03	0.516
Vanadium	38.5	2.06	0.516
Zinc	46.8	1.03	0.516

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 14:52
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-5'	Date Analyzed:	11/14/07 21:17
Lab Samp ID:	J346-03	Dilution Factor:	1
Lab File ID:	ID8K012073	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	5.2
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.5	2.11
Arsenic	2.26	1.05	0.422
Barium	115	1.05	0.211
Beryllium	0.483J	1.05	0.211
Cadmium	ND	1.05	0.527
Chromium	17.1	2.11	1.05
Cobalt	9.01	2.11	1.05
Copper	18.7	2.11	0.527
Lead	4.44	1.05	0.211
Molybdenum	ND	5.27	0.527
Nickel	14.7	2.11	1.05
Selenium	0.633J	1.05	0.527
Silver	ND	2.11	0.527
Thallium	0.888J	1.05	0.527
Vanadium	37.0	2.11	0.527
Zinc	43.7	1.05	0.527

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 14:53
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-5'-DUP	Date Analyzed:	11/14/07 21:22
Lab Samp ID:	J346-04	Dilution Factor:	1
Lab File ID:	ID8K012074	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	5.1
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.5	2.11
Arsenic	2.43	1.05	0.421
Barium	129	1.05	0.211
Beryllium	0.567J	1.05	0.211
Cadmium	ND	1.05	0.527
Chromium	19.8	2.11	1.05
Cobalt	10.6	2.11	1.05
Copper	22.6	2.11	0.527
Lead	5.09	1.05	0.211
Molybdenum	ND	5.27	0.527
Nickel	17.6	2.11	1.05
Selenium	0.874J	1.05	0.527
Silver	ND	2.11	0.527
Thallium	0.883J	1.05	0.527
Vanadium	42.8	2.11	0.527
Zinc	52.5	1.05	0.527

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 15:00
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-10'	Date Analyzed:	11/14/07 21:28
Lab Samp ID:	J346-05	Dilution Factor:	1
Lab File ID:	ID8K012075	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	10.5
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.2	2.23
Arsenic	5.03	1.12	0.447
Barium	185	1.12	0.223
Beryllium	0.657J	1.12	0.223
Cadmium	0.631J	1.12	0.559
Chromium	31.5	2.23	1.12
Cobalt	12.5	2.23	1.12
Copper	26.4	2.23	0.559
Lead	6.18	1.12	0.223
Molybdenum	ND	5.59	0.559
Nickel	21.2	2.23	1.12
Selenium	0.978J	1.12	0.559
Silver	ND	2.23	0.559
Thallium	0.859J	1.12	0.559
Vanadium	57.2	2.23	0.559
Zinc	57.8	1.12	0.559

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 15:08
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-15'	Date Analyzed:	11/14/07 21:33
Lab Samp ID:	J346-06	Dilution Factor:	1
Lab File ID:	ID8K012076	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	7.4
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.8	2.16
Arsenic	10.2	1.08	0.432
Barium	170	1.08	0.216
Beryllium	0.610J	1.08	0.216
Cadmium	0.783J	1.08	0.540
Chromium	33.9	2.16	1.08
Cobalt	14.6	2.16	1.08
Copper	29.9	2.16	0.540
Lead	6.34	1.08	0.216
Molybdenum	ND	5.40	0.540
Nickel	24.0	2.16	1.08
Selenium	1.13	1.08	0.540
Silver	ND	2.16	0.540
Thallium	0.850J	1.08	0.540
Vanadium	54.3	2.16	0.540
Zinc	56.7	1.08	0.540

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 15:18
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-20'	Date Analyzed:	11/14/07 21:39
Lab Samp ID:	J346-07	Dilution Factor:	1
Lab File ID:	ID8K012077	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	6.7
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.7	2.14
Arsenic	8.07	1.07	0.429
Barium	94.3	1.07	0.214
Beryllium	0.518J	1.07	0.214
Cadmium	1.20	1.07	0.536
Chromium	52.2	2.14	1.07
Cobalt	12.5	2.14	1.07
Copper	30.0	2.14	0.536
Lead	9.41	1.07	0.214
Molybdenum	ND	5.36	0.536
Nickel	19.0	2.14	1.07
Selenium	ND	1.07	0.536
Silver	ND	2.14	0.536
Thallium	0.642J	1.07	0.536
Vanadium	60.9	2.14	0.536
Zinc	57.7	1.07	0.536

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 15:23
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-25'	Date Analyzed:	11/14/07 21:44
Lab Samp ID:	J346-08	Dilution Factor:	1
Lab File ID:	ID8K012078	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	7.3
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.8	2.16
Arsenic	5.13	1.08	0.431
Barium	174	1.08	0.216
Beryllium	0.961J	1.08	0.216
Cadmium	1.05J	1.08	0.539
Chromium	30.0	2.16	1.08
Cobalt	14.9	2.16	1.08
Copper	35.6	2.16	0.539
Lead	12.2	1.08	0.216
Molybdenum	ND	5.39	0.539
Nickel	22.4	2.16	1.08
Selenium	0.973J	1.08	0.539
Silver	ND	2.16	0.539
Thallium	1.26	1.08	0.539
Vanadium	55.5	2.16	0.539
Zinc	73.5	1.08	0.539

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 15:30
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-30'	Date Analyzed:	11/14/07 21:50
Lab Samp ID:	J346-09	Dilution Factor:	1
Lab File ID:	ID8K012079	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	6.2
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.7	2.13
Arsenic	3.52	1.07	0.426
Barium	143	1.07	0.213
Beryllium	0.623J	1.07	0.213
Cadmium	ND	1.07	0.533
Chromium	32.6	2.13	1.07
Cobalt	10.6	2.13	1.07
Copper	18.6	2.13	0.533
Lead	5.57	1.07	0.213
Molybdenum	ND	5.33	0.533
Nickel	16.5	2.13	1.07
Selenium	1.09	1.07	0.533
Silver	ND	2.13	0.533
Thallium	0.698J	1.07	0.533
Vanadium	55.7	2.13	0.533
Zinc	47.2	1.07	0.533

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 15:37
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-35'	Date Analyzed:	11/14/07 21:56
Lab Samp ID:	J346-10	Dilution Factor:	1
Lab File ID:	ID8K012080	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	9.5
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.21
Arsenic	7.77	1.10	0.442
Barium	145	1.10	0.221
Beryllium	1.14	1.10	0.221
Cadmium	1.03J	1.10	0.552
Chromium	43.5	2.21	1.10
Cobalt	17.5	2.21	1.10
Copper	45.3	2.21	0.552
Lead	14.0	1.10	0.221
Molybdenum	ND	5.52	0.552
Nickel	30.1	2.21	1.10
Selenium	1.84	1.10	0.552
Silver	ND	2.21	0.552
Thallium	0.850J	1.10	0.552
Vanadium	95.1	2.21	0.552
Zinc	94.8	1.10	0.552

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 15:48
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-40'	Date Analyzed:	11/14/07 22:01
Lab Samp ID:	J346-11	Dilution Factor:	1
Lab File ID:	ID8K012081	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	6.7
Calib. Ref.:	ID8K012071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.7	2.14
Arsenic	3.48	1.07	0.429
Barium	83.7	1.07	0.214
Beryllium	0.400J	1.07	0.214
Cadmium	ND	1.07	0.536
Chromium	12.9	2.14	1.07
Cobalt	6.96	2.14	1.07
Copper	17.2	2.14	0.536
Lead	7.54	1.07	0.214
Molybdenum	ND	5.36	0.536
Nickel	11.4	2.14	1.07
Selenium	0.688J	1.07	0.536
Silver	ND	2.14	0.536
Thallium	0.717J	1.07	0.536
Vanadium	27.2	2.14	0.536
Zinc	34.6	1.07	0.536

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 16:00
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-45'	Date Analyzed:	11/14/07 22:23
Lab Samp ID:	J346-12	Dilution Factor:	1
Lab File ID:	ID8K012085	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	7.2
Calib. Ref.:	ID8K012083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.8	2.16
Arsenic	4.76	1.08	0.431
Barium	79.1	1.08	0.216
Beryllium	0.708J	1.08	0.216
Cadmium	ND	1.08	0.539
Chromium	32.8	2.16	1.08
Cobalt	9.72	2.16	1.08
Copper	21.2	2.16	0.539
Lead	8.89	1.08	0.216
Molybdenum	ND	5.39	0.539
Nickel	17.9	2.16	1.08
Selenium	1.07J	1.08	0.539
Silver	ND	2.16	0.539
Thallium	0.616J	1.08	0.539
Vanadium	44.4	2.16	0.539
Zinc	57.4	1.08	0.539

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/25/07 16:02
Project	: LMC BEAUMONT SITE 2	Date Received:	10/26/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	SB4-50'	Date Analyzed:	11/14/07 22:28
Lab Samp ID:	J346-13	Dilution Factor:	1
Lab File ID:	ID8K012086	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	9.5
Calib. Ref.:	ID8K012083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.21
Arsenic	3.83	1.10	0.442
Barium	115	1.10	0.221
Beryllium	0.710J	1.10	0.221
Cadmium	ND	1.10	0.552
Chromium	29.4	2.21	1.10
Cobalt	12.1	2.21	1.10
Copper	27.4	2.21	0.552
Lead	6.32	1.10	0.221
Molybdenum	ND	5.52	0.552
Nickel	21.8	2.21	1.10
Selenium	1.08J	1.10	0.552
Silver	ND	2.21	0.552
Thallium	0.787J	1.10	0.552
Vanadium	42.6	2.21	0.552
Zinc	72.5	1.10	0.552

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J346	Date Extracted:	10/31/07 13:00
Sample ID:	MBLK1S	Date Analyzed:	11/14/07 20:11
Lab Samp ID:	IPJ066SB	Dilution Factor:	1
Lab File ID:	ID8K012061	Matrix :	SOIL
Ext Btch ID:	IPJ066S	% Moisture :	NA
Calib. Ref.:	ID8K012059	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	2.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.500
Chromium	ND	2.00	1.00
Cobalt	ND	2.00	1.00
Copper	ND	2.00	0.500
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	2.00	1.00
Selenium	ND	1.00	0.500
Silver	ND	2.00	0.500
Thallium	ND	1.00	0.500
Vanadium	ND	2.00	0.500
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J346
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPJ066SB	IPJ066SL	IPJ066SC		
LAB FILE ID:	ID8K012061	ID8K012062	ID8K012063		
DATIME EXTRCTD:	10/31/0713:00	10/31/0713:00	10/31/0713:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/14/0720:11	11/14/0720:17	11/14/0720:22	DATE RECEIVED:	10/31/07
PREP. BATCH:	IPJ066S	IPJ066S	IPJ066S		
CALIB. REF:	ID8K012059	ID8K012059	ID8K012059		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	500	484	97	500	496	99	2	80-120	20
Arsenic	ND	100	95.1	95	100	96.4	96	1	80-120	20
Barium	ND	100	91.8	92	100	92.7	93	1	80-120	20
Beryllium	ND	100	99.3	99	100	100	100	1	80-120	20
Cadmium	ND	100	98	98	100	98.2	98	0	80-120	20
Chromium	ND	100	92.3	92	100	96.1	96	4	80-120	20
Cobalt	ND	100	95.8	96	100	97	97	1	80-120	20
Copper	ND	100	98	98	100	100	100	2	80-120	20
Lead	ND	100	96.2	96	100	96.9	97	1	80-120	20
Molybdenum	ND	100	99.5	99	100	101	101	1	80-120	20
Nickel	ND	100	95.9	96	100	96.7	97	1	80-120	20
Selenium	ND	100	94	94	100	95.2	95	1	80-120	20
Silver	ND	100	92.6	93	100	96.7	97	4	80-120	20
Thallium	ND	100	94.1	94	100	94.7	95	1	80-120	20
Vanadium	ND	100	94	94	100	97.6	98	4	80-120	20
Zinc	ND	100	100	100	100	101	101	0	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J346
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	3.1
DILTN FACTR:	1	1	1		
SAMPLE ID:	SB4-0.5'				
CONTROL NO.:	J346-02	J346-02M	J346-02S		
LAB FILE ID:	ID8K012067	ID8K012064	ID8K012065		
DATIME EXTRCTD:	10/31/0713:00	10/31/0713:00	10/31/0713:00	DATE COLLECTED:	10/25/07 14:48
DATIME ANALYZD:	11/14/0720:44	11/14/0720:27	11/14/0720:33	DATE RECEIVED:	10/26/07
PREP. BATCH:	IPJ066S	IPJ066S	IPJ066S		
CALIB. REF:	ID8K012059	ID8K012059	ID8K012059		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	516	139	27*	516	150	29*	8	75-125	20
Arsenic	2.08	103	90.8	86	103	90.7	86	0	75-125	20
Barium	113	103	195	80	103	192	77	2	75-125	20
Beryllium	.538J	103	93	90	103	93.1	90	0	75-125	20
Cadmium	ND	103	92.7	90	103	93.3	90	1	75-125	20
Chromium	17.8	103	102	82	103	99.5	79	3	75-125	20
Cobalt	9.54	103	99.9	88	103	99.4	87	0	75-125	20
Copper	20.5	103	113	89	103	109	86	3	75-125	20
Lead	4.66	103	93.8	86	103	93.7	86	0	75-125	20
Molybdenum	ND	103	91.8	89	103	91.9	89	0	75-125	20
Nickel	15.5	103	105	87	103	105	86	0	75-125	20
Selenium	.991J	103	85.9	82	103	85.7	82	0	75-125	20
Silver	ND	103	90.6	88	103	88.4	86	3	75-125	20
Thallium	.876J	103	86.6	83	103	86.4	83	0	75-125	20
Vanadium	38.5	103	124	83	103	120	79	3	75-125	20
Zinc	46.8	103	139	89	103	138	88	1	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J346
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	3.1
DILUTION FACTOR:	1	5		
SAMPLE ID:	SB4-0.5'	SB4-0.5'DL		
EMAX SAMP ID:	J346-02	J346-02J		
LAB FILE ID:	ID8K012067	ID8K012068		
DATE EXTRACTED:	10/31/0713:00	10/31/0713:00	DATE COLLECTED:	10/25/07 14:48
DATE ANALYZED:	11/14/0720:44	11/14/0720:49	DATE RECEIVED:	10/26/07
PREP. BATCH:	IPJ066S	IPJ066S		
CALIB. REF:	ID8K012059	ID8K012059		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	2.08	2.42J	NA	10
Barium	113	113	0	10
Beryllium	0.538J	ND	NA	10
Cadmium	ND	ND	0	10
Chromium	17.8	18.6	5	10
Cobalt	9.54	9.44J	NA	10
Copper	20.5	20.8	2	10
Lead	4.66	3.95J	NA	10
Molybdenum	ND	ND	0	10
Nickel	15.5	15.4	0	10
Selenium	0.991J	ND	NA	10
Silver	ND	ND	0	10
Thallium	0.876J	ND	NA	10
Vanadium	38.5	39.3	2	10
Zinc	46.8	45.7	2	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J346
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	3.1
DILTN FACTR:	1	1		
SAMPLE ID:	SB4-0.5'			
CONTROL NO.:	J346-02	J346-02A		
LAB FILE ID:	ID8K012067	ID8K012066		
DATIME EXTRCTD:	10/31/0713:00	10/31/0713:00	DATE COLLECTED:	10/25/07 14:48
DATIME ANALYZD:	11/14/0720:44	11/14/0720:38	DATE RECEIVED:	10/26/07
PREP. BATCH:	IPJ066S	IPJ066S		
CALIB. REF:	ID8K012059	ID8K012059		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Antimony	ND	516	500	97	75-125
Arsenic	2.08	103	102	97	75-125
Barium	113	103	206	90	75-125
Beryllium	.538J	103	102	98	75-125
Cadmium	ND	103	103	100	75-125
Chromium	17.8	103	111	90	75-125
Cobalt	9.54	103	109	97	75-125
Copper	20.5	103	120	96	75-125
Lead	4.66	103	103	96	75-125
Molybdenum	ND	103	106	102	75-125
Nickel	15.5	103	114	95	75-125
Selenium	.991J	103	99.2	95	75-125
Silver	ND	103	98.1	95	75-125
Thallium	.876J	103	95	91	75-125
Vanadium	38.5	103	133	91	75-125
Zinc	46.8	103	148	98	75-125

TRACE-LOW ICP QC CHECK TABLE

QC	ICV HIGH	ICV	CCV	ICSAB	ICSA
Limit%	95-105	90-110	90-110	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg/L
Al	10	5	5	500	500
Sb	1	0.5	0.5	1	0
As	1	0.5	0.5	1	0
Ba	1	0.5	0.5	0.5	0
Be	1	0.5	0.5	0.5	0
B	1	0.5	0.5	0.5	0
Cd	1	0.5	0.5	1	0
Ca	100	50	50	500	500
Cr	1	0.5	0.5	0.5	0
Co	1	0.5	0.5	0.5	0
Cu	1	0.5	0.5	0.5	0
Fe	10	5	5	200	200
Pb	1	0.5	0.5	1	0
Li	1	0.5	0.5	0.5	0
Mg	100	50	50	500	500
Mn	1	0.5	0.5	0.5	0
Mo	1	0.5	0.5	1	0
Ni	1	0.5	0.5	1	0
K	100	50	50	75	0
Se	1	0.5	0.5	1	0
Si	1	0.5	0.5	1	0
Ag	1	0.5	0.5	1	0
Na	100	50	50	75	0
Sr	1	0.5	0.5	0.5	0
Tl	1	0.5	0.5	1	0
Sn	1	0.5	0.5	1	0
Ti	1	0.5	0.5	1	0
U	10	5	5	1	0
V	1	0.5	0.5	0.5	0
Zn	1	0.5	0.5	1	0

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/14/07 14:39

End Date: 11/15/07 02:43

Comments:

ICV B↑

IPK029SB ↑Se

K191-01A ↑Se

Book #: AD8-003

Instrument No.: D8

Analytical Batch: ID8K012

Analytical Sequence: S_6010107 (V8)

Method File: 6010107 (V8)

SOP #	Rev. #
☑ EMAX-6010	5
☑ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	SM1B11.01.03
S3	NA
S4	NA
S5	SM1B11.01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B10.93.05
CCV	10-93.04
ICSA	10.93.03
ICSAB	10.95.05
CRI/MRL	

Analyzed By: CPC

Date: 11/15/07

ID8K012056	BLANK	19:44	11/14/07	1.000
ID8K012057	ICSAF	19:49	11/14/07	1.000
ID8K012058	ICSABF	19:55	11/14/07	1.000
ID8K012059	CCV5	20:00	11/14/07	1.000
ID8K012060	CCB5	20:06	11/14/07	1.000
ID8K012061	IPJ066SB	20:11	11/14/07	1.000
ID8K012062	IPJ066SL	20:17	11/14/07	1.000
ID8K012063	IPJ066SC	20:22	11/14/07	1.000
ID8K012064	J346-02M	20:27	11/14/07	1.000
ID8K012065	J346-02S	20:33	11/14/07	1.000
ID8K012066	J346-02A	20:38	11/14/07	1.000
ID8K012067	J346-02	20:44	11/14/07	1.000
ID8K012068	J346-02J	20:49	11/14/07	5.000
ID8K012069	J346-01	20:55	11/14/07	1.000
ID8K012070	BLANK	21:00	11/14/07	1.000
ID8K012071	CCV6	21:06	11/14/07	1.000
ID8K012072	CCB6	21:11	11/14/07	1.000
ID8K012073	J346-03	21:17	11/14/07	1.000
ID8K012074	J346-04	21:22	11/14/07	1.000
ID8K012075	J346-05	21:28	11/14/07	1.000
ID8K012076	J346-06	21:33	11/14/07	1.000
ID8K012077	J346-07	21:39	11/14/07	1.000
ID8K012078	J346-08	21:44	11/14/07	1.000
ID8K012079	J346-09	21:50	11/14/07	1.000
ID8K012080	J346-10	21:56	11/14/07	1.000
ID8K012081	J346-11	22:01	11/14/07	1.000
ID8K012082	BLANK	22:06	11/14/07	1.000
ID8K012083	CCV7	22:12	11/14/07	1.000
ID8K012084	CCB7	22:17	11/14/07	1.000
ID8K012085	J346-12	22:23	11/14/07	1.000
ID8K012086	J346-13	22:28	11/14/07	1.000
ID8K012087	K044-03	22:34	11/14/07	1.000
ID8K012088	K044-16	22:40	11/14/07	1.000
ID8K012089	BLANK	22:45	11/14/07	1.000
ID8K012090	CCV8	22:51	11/14/07	1.000
ID8K012091	CCB8	22:56	11/14/07	1.000
ID8K012092	IPK029SB	23:02	11/14/07	1.000
ID8K012093	IPK029SL	23:07	11/14/07	1.000
ID8K012094	IPK029SC	23:13	11/14/07	1.000
ID8K012095	K191-01A	23:18	11/14/07	1.000
ID8K012096	K191-01	23:24	11/14/07	1.000
ID8K012097	K191-01J	23:29	11/14/07	5.000
ID8K012098	K191-02	23:35	11/14/07	1.000
ID8K012099	K191-03	23:40	11/14/07	1.000
ID8K012100	BLANK	23:46	11/14/07	1.000
ID8K012101	CCV9	23:52	11/14/07	1.000
ID8K012102	CCB9	23:57	11/14/07	1.000
ID8K012103	IPK025WB	00:02	11/15/07	1.000
ID8K012104	WTK001SB	00:08	11/15/07	1.000
ID8K012105	IPK025WL	00:14	11/15/07	1.000
ID8K012106	IPK025WC	00:19	11/15/07	1.000
ID8K012107	J951-01A	00:24	11/15/07	1.000
ID8K012108	J951-01	00:30	11/15/07	1.000
ID8K012109	J951-01J	00:35	11/15/07	5.000
ID8K012110	J951-02	00:41	11/15/07	1.000
ID8K012111	BLANK	00:46	11/15/07	1.000
ID8K012112	CCV10	00:52	11/15/07	1.000
ID8K012113	CCB10	00:57	11/15/07	1.000

ID8K012114	J331-01	01:03	11/15/07	10.000
ID8K012115	J347-04	01:09	11/15/07	10.000
ID8K012116	J347-06	01:14	11/15/07	20.000
ID8K012117	J347-11M	01:20	11/15/07	20.000
ID8K012118	J347-11S	01:25	11/15/07	20.000
ID8K012119	J347-11A	01:31	11/15/07	20.000
ID8K012120	J347-11	01:36	11/15/07	20.000
ID8K012121	J347-11J	01:42	11/15/07	100.000
ID8K012122	J347-07	01:47	11/15/07	20.000
ID8K012123	BLANK	01:53	11/15/07	1.000
ID8K012124	CCV11	01:59	11/15/07	1.000
ID8K012125	CCB11	02:04	11/15/07	1.000
ID8K012126	J347-08	02:10	11/15/07	20.000
ID8K012127	J347-09	02:15	11/15/07	20.000
ID8K012128	J347-10	02:21	11/15/07	20.000
ID8K012129	J347-12	02:26	11/15/07	20.000
ID8K012130	BLANK	02:32	11/15/07	1.000
ID8K012131	CCV12	02:37	11/15/07	1.000
ID8K012132	CCB12	02:43	11/15/07	1.000

SEQUENCE FILE : ID8K012

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K012001	Blank	14:39	11/14/07	1.000
ID8K012002	S2	14:45	11/14/07	1.000
ID8K012003	S5	14:50	11/14/07	1.000
ID8K012004	S8	14:56	11/14/07	1.000
ID8K012005	ICV	15:01	11/14/07	1.000
ID8K012006	ICB	15:07	11/14/07	1.000
ID8K012007	CCV	15:12	11/14/07	1.000
ID8K012008	CCB	15:18	11/14/07	1.000
ID8K012009	ICSAI	15:23	11/14/07	1.000
ID8K012010	ICSABI	15:29	11/14/07	1.000
ID8K012011	CCV1	15:34	11/14/07	1.000
ID8K012012	CCB1	15:40	11/14/07	1.000
ID8K012013	J254-01	15:45	11/14/07	1.000
ID8K012014	J254-01D	15:51	11/14/07	1.000
ID8K012015	J254-01J	15:56	11/14/07	5.000
ID8K012016	J254-01	16:02	11/14/07	1.000
ID8K012017	IPK000WB	16:07	11/14/07	1.000
ID8K012018	IPK000WL	16:13	11/14/07	1.000
ID8K012019	IPK000WC	16:18	11/14/07	1.000
ID8K012020	BLANK	16:23	11/14/07	1.000
ID8K012021	ICSAF	16:29	11/14/07	1.000
ID8K012022	ICSABF	16:34	11/14/07	1.000
ID8K012023	CCV2	16:40	11/14/07	1.000
ID8K012024	CCB2	16:45	11/14/07	1.000
ID8K012025	G144-01	16:51	11/14/07	1.000
ID8K012026	G144-01D	16:56	11/14/07	1.000
ID8K012027	BLANK	17:02	11/14/07	1.000
ID8K012028	B	17:07	11/14/07	1.000
ID8K012029	Fe	17:13	11/14/07	1.000
ID8K012030	Mn	17:18	11/14/07	1.000
ID8K012031	V	17:24	11/14/07	1.000
ID8K012032	BLANK	17:29	11/14/07	1.000
ID8K012033	J254-01	17:37	11/14/07	1.000
ID8K012034	J254-01D	17:42	11/14/07	1.000
ID8K012035	CCV3	17:48	11/14/07	1.000
ID8K012036	CCB3	17:53	11/14/07	1.000
ID8K012037	IPK010WB	17:59	11/14/07	1.000
ID8K012038	IPK010WL	18:04	11/14/07	1.000
ID8K012039	IPK010WC	18:10	11/14/07	1.000
ID8K012040	J393-02A	18:15	11/14/07	1.000
ID8K012041	J393-02	18:20	11/14/07	1.000
ID8K012042	J393-02J	18:26	11/14/07	5.000
ID8K012043	J393-03	18:31	11/14/07	1.000
ID8K012044	J393-04	18:37	11/14/07	1.000
ID8K012045	K008-03	18:43	11/14/07	1.000
ID8K012046	BLANK	18:48	11/14/07	1.000
ID8K012047	CCV4	18:54	11/14/07	1.000
ID8K012048	CCB4	18:59	11/14/07	1.000
ID8K012049	K008-04	19:05	11/14/07	1.000
ID8K012050	J549-01	19:10	11/14/07	1.000
ID8K012051	K017-02	19:16	11/14/07	1.000
ID8K012052	K017-03	19:21	11/14/07	1.000
ID8K012053	J955-02	19:27	11/14/07	1.000
ID8K012054	J955-03	19:32	11/14/07	1.000
ID8K012055	J955-04	19:38	11/14/07	1.000

SDG : _____ UNIT : % SUMMARY of ICV and CCV : ID8K012 DATE : 11/14/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	96	100	100	97	100	111*	100	100	99	99	94	102	99	98	97	101	99	98	99	101	98	94	102	102
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV	96	97	98	97	99	102	102	99	96	99	92	97	97	98	95	103	99	96	99	98	97	94	100	101
CCB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	90	----	----	----	----	----	----	94	----	----	----	93	----	100	----	----	----	----	----	----	----	----	----	----
ICSABI	91	104	104	105	100	99	104	94	98	100	95	94	95	100	94	107	99	109	103	111	108	91	102	102
CCV1	98	98	98	96	99	103	101	99	97	99	93	98	97	99	96	103	98	97	99	99	97	94	100	100
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	90	----	----	----	----	----	----	93	----	----	----	91	----	100	----	----	----	----	----	----	----	----	----	----
ICSABF	90	104	103	104	100	98	103	93	97	99	95	93	95	100	95	107	98	108	102	111	107	91	100	102
CCV2	100	100	100	97	100	105	103	100	99	100	95	101	98	101	97	105	100	98	100	101	98	95	102	102
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	98	99	99	96	100	105	102	99	98	100	96	100	98	100	96	105	100	97	100	99	98	95	100	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	101	99	96	100	107	102	98	98	99	99	101	98	100	95	105	99	98	100	101	98	96	99	101
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J549-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	93	----	----	----	----	----	----	93	----	----	----	94	----	102	----	----	----	----	----	----	----	----	----	----
ICSABF	93	105	103	103	100	99	103	91	95	98	99	94	95	100	93	107	98	108	103	109	106	92	97	104
CCV5	104	101	99	94	99	106	99	96	97	97	99	101	97	99	94	103	97	97	100	100	97	95	98	100
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	100	101	98	93	99	104	100	96	96	97	99	101	97	100	94	103	97	97	99	97	96	95	97	102
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	101	101	99	94	99	103	101	95	95	98	99	100	97	100	94	104	98	96	100	97	96	96	97	101
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	101	101	98	93	98	105	100	95	97	97	100	102	98	100	93	103	97	97	99	99	96	96	97	102
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	103	103	100	94	98	107	101	95	98	98	103	103	99	100	93	104	98	98	101	100	97	97	98	102
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	102	102	99	94	98	106	100	94	97	98	102	102	98	98	92	103	98	98	101	99	97	96	97	101
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	103	104	100	95	99	108	101	96	98	99	105	103	99	99	92	104	99	100	102	100	99	97	99	103
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	102	102	99	94	97	106	100	94	97	97	104	102	98	97	91	103	97	99	100	99	98	95	97	101
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : _____ UNIT : UG/L

SUMMARY of CALIBRATION BLANKS : ID8K012 (WATER)

DATE : 11/14/07 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-4.57	.810	1.61	-.920	-.080	-.960	.030	-313	.270	-.030	-.350	2.18	-.240	-127	-1.19	.050	-.200	-49.8	-1.34	.420	-629	.450	.080	-1.12
CCV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB	-4.74	1.25	-.300	-.740	.080	-.650	.070	-297	.060	.120	-.270	1.49	-.080	-173	-1.67	.010	.230	-51.8	-.300	.230	-646	.950	.060	-1.19
ICSAI	----	1.72	-6.84	-1.55	-.260	-48.9	3.77	----	.370	.310	2.63	----	-17.7	----	-1.01	-2.05	-.090	5.96	4.36	.030	-507	-.650	.160	5.76
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.04	.530	1.53	-1.07	.050	-.870	.090	-297	.220	.040	-.300	4.50	-.190	-85.1	-1.40	.020	-.020	10.6	.250	.130	-634	.520	.080	-1.18
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	4.51	-9.65	-.580	-.340	-48.8	3.91	----	.430	.450	2.34	----	-18.1	----	-2.57	-1.97	-.340	-46.9	5.90	5.45	-527	-.990	.110	-5.93
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.26	2.34	-.390	-.160	-.080	-.480	.110	-293	.250	-.050	-.240	5.80	.430	-129	-2.26	.150	.110	-9.94	-1.82	.340	-635	.610	.160	-.980
G144-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-9.85	.730	-.330	-1.07	.320	.490	.060	-307	.220	-.040	-.160	-.020	-.610	-147	-2.29	.080	-.090	-57.0	-1.35	.280	-663	.590	.240	-.830
IPK010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-8.99	1.14	-.370	-.910	.010	.480	.040	-304	.110	-.020	.140	-1.59	-.040	-183	-1.76	.050	-.180	-28.1	-.840	.190	-543	.830	-.060	-.210
K008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J549-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	2.84	-5.64	-2.14	-.040	-43.2	5.37	----	.180	.260	2.74	----	-17.7	----	-3.99	-1.98	-.050	71.2	6.64	-.340	-320	-.760	-.300	-6.09
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	2.95	.940	-.020	-.870	.210	-.640	.040	-308	-.020	.050	.010	1.62	.220	-192	-.780	.070	-.050	16.3	-.160	.270	-589	.810	-.030	-1.53
IPJ066SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-9.63	1.61	-1.76	-1.06	.120	-.400	.080	-288	.030	.040	-.040	-1.48	.170	-132	-.780	.110	.010	-67.2	-.550	.380	-651	1.000	-.120	-1.11
J346-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-9.64	1.26	-.310	-1.60	.180	-.660	.040	-305	.030	-.120	-.030	1.57	-.580	-140	-2.45	.070	-.130	-7.09	.050	.260	-678	.540	-.040	-.210
J346-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-2.14	1.26	.070	-1.48	.180	-.130	.030	-293	.150	.080	-.090	2.03	-.730	-125	-2.64	.110	-.030	-21.0	-.260	.150	-697	.270	.080	5.63
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-8.57	1.35	-.810	-1.31	.170	-.780	.100	-311	.130	-.110	.210	2.36	.000	-113	-1.62	-.040	-.230	-16.1	-.790	.300	-543	.770	-.010	-1.59
IPK025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-9.93	1.000	.060	-1.90	-.230	-.710	.030	-314	.080	.000	-.030	-.130	.230	-133	-.890	.130	.080	-9.35	.260	.000	-395	1.04	-.160	-1.84

J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-12.4	1.20	-.910	-1.03	-.130	1.10	.100	-317	.270	-.070	-.110	-1.25	.320	-176	-1.61	.090	.100	-28.0	-.730	.070	-492	.990	-.090	-1.79
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-11.8	.990	-.670	-.720	.300	.780	.050	-312	.160	-.070	.150	-2.27	-.160	-167	-1.86	.070	.230	-19.6	.680	.270	-551	.930	.050	-1.39

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : _____ UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K012 (SOIL) DATE : 11/14/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-4.57	.810	1.61	-.920	-.080	-.960	.030	-313	.270	-.030	-.350	2.18	-.240	-127	-1.19	.050	-.200	-49.8	-1.34	.420	-629	.450	.080	-1.12
CCV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB	-4.74	1.25	-.300	-.740	.080	-.650	.070	-297	.060	.120	-.270	1.49	-.080	-173	-1.67	.010	.230	-51.8	-.300	.230	-646	.950	.060	-1.19
ICSAI	----	1.72	-6.84	-1.55	-.260	-48.9	3.77	----	.370	.310	2.63	----	-17.7	----	-1.01	-2.05	-.090	5.96	4.36	.030	-507	-.650	.160	5.76
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.04	.530	1.53	-1.07	.050	-.870	.090	-297	.220	.040	-.300	4.50	-.190	-85.1	-1.40	.020	-.020	10.6	.250	.130	-634	.520	.080	-1.18
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	4.51	-9.65	-.580	-.340	-48.8	3.91	----	.430	.450	2.34	----	-18.1	----	-2.57	-1.97	-.340	-46.9	5.90	5.45	-527	-.990	.110	-5.93
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.26	2.34	-.390	-.160	-.080	-.480	.110	-293	.250	-.050	-.240	5.80	.430	-129	-2.26	.150	.110	-9.94	-1.82	.340	-635	.610	.160	-.980
G144-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-9.85	.730	-.330	-1.07	.320	.490	.060	-307	.220	-.040	-.160	-.020	-.610	-147	-2.29	.080	-.090	-57.0	-1.35	.280	-663	.590	.240	-.830
IPK010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-8.99	1.14	-.370	-.910	.010	.480	.040	-304	.110	-.020	.140	-1.59	-.040	-183	-1.76	.050	-.180	-28.1	-.840	.190	-543	.830	-.060	-.210
K008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J549-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	2.84	-5.64	-2.14	-.040	-43.2	5.37	----	.180	.260	2.74	----	-17.7	----	-3.99	-1.98	-.050	71.2	6.64	-.340	-320	-.760	-.300	-6.09
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	2.95	.940	-.020	-.870	.210	-.640	.040	-308	-.020	.050	.010	1.62	.220	-192	-.780	.070	-.050	16.3	-.160	.270	-589	.810	-.030	-1.53
IPJ066SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-9.63	1.61	-1.76	-1.06	.120	-.400	.080	-288	.030	.040	-.040	-1.48	.170	-132	-.780	.110	.010	-67.2	-.550	.380	-651	1.000	-.120	-1.11
J346-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-9.64	1.26	-.310	-1.60	.180	-.660	.040	-305	.030	-.120	-.030	1.57	-.580	-140	-2.45	.070	-.130	-7.09	.050	.260	-678	.540	-.040	-.210
J346-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-2.14	1.26	.070	-1.48	.180	-.130	.030	-293	.150	.080	-.090	2.03	-.730	-125	-2.64	.110	-.030	-21.0	-.260	.150	-697	.270	.080	5.63
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-8.57	1.35	-.810	-1.31	.170	-.780	.100	-311	.130	-.110	.210	2.36	.000	-113	-1.62	-.040	-.230	-16.1	-.790	.300	-543	.770	-.010	-1.59
IPK025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-9.93	1.000	.060	-1.90	-.230	-.710	.030	-314	.080	.000	-.030	-.130	.230	-133	-.890	.130	.080	-9.35	.260	.000	-395	1.04	-.160	-1.84

J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-12.4	1.20	-.910	-1.03	-.130	1.10	.100	-317	.270	-.070	-.110	-1.25	.320	-176	-1.61	.090	.100	-28.0	-.730	.070	-492	.990	-.090	-1.79
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-11.8	.990	-.670	-.720	.300	.780	.050	-312	.160	-.070	.150	-2.27	-.160	-167	-1.86	.070	.230	-19.6	.680	.270	-551	.930	.050	-1.39

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	QC	CCV4		ID8K012047			1	☒	CCV	Continue
48	44	QC	CCB4		ID8K012048			1	☒	CCB1	Continue
49	45	Unk	K008-04		ID8K012049			1	☐		Continue
50	46	Unk	J549-01		ID8K012050			1	☐		Continue
51	47	Unk	K017-02		ID8K012051			1	☐		Continue
52	48	Unk	K017-03		ID8K012052			1	☐		Continue
53	49	Unk	J955-02		ID8K012053			1	☐		Continue
54	50	Unk	J955-03		ID8K012054			1	☐		Continue
55	51	Unk	J955-04		ID8K012055			1	☐		Continue
56	52	Unk	BLANK		ID8K012056			1	☐		Continue
57	53	QC	ICSAF		ID8K012057			1	☒	ICSA	Continue
58	54	QC	ICSABF		ID8K012058			1	☒	ICSAB	Continue
59	55	QC	CCV5		ID8K012059			1	☒	CCV	Continue
60	56	QC	CCB5		ID8K012060			1	☒	CCB1	Continue
61	57	QC	IPJ066SB		ID8K012061			1	☒	CCB1	Continue
62	58	QC	IPJ066SL		ID8K012062			1	☒	LCS	Continue
63	59	QC	IPJ066SC		ID8K012063			1	☒	LCS	Continue
64	60	Unk	J346-02M		ID8K012064			1	☐		Continue
65	61	Unk	J346-02S		ID8K012065			1	☐		Continue
66	62	Unk	J346-02A		ID8K012066			1	☐		Continue
67	63	Unk	J346-02		ID8K012067			1	☐		Continue
68	64	Unk	J346-02J		ID8K012068			1	☐		Continue
69	65	Unk	J346-01		ID8K012069			1	☐		Continue
70	66	Unk	BLANK		ID8K012070			1	☐		Continue
71	67	QC	CCV6		ID8K012071			1	☒	CCV	Continue
72	68	QC	CCB6		ID8K012072			1	☒	CCB1	Continue
73	69	Unk	J346-03		ID8K012073			1	☐		Continue
74	70	Unk	J346-04		ID8K012074			1	☐		Continue
75	71	Unk	J346-05		ID8K012075			1	☐		Continue
76	72	Unk	J346-06		ID8K012076			1	☐		Continue
77	73	Unk	J346-07		ID8K012077			1	☐		Continue
78	74	Unk	J346-08		ID8K012078			1	☐		Continue
79	75	Unk	J346-09		ID8K012079			1	☐		Continue
80	76	Unk	J346-10		ID8K012080			1	☐		Continue
81	77	Unk	J346-11		ID8K012081			1	☐		Continue
82	78	Unk	BLANK		ID8K012082			1	☐		Continue
83	79	QC	CCV7		ID8K012083			1	☒	CCV	Continue
84	80	QC	CCB7		ID8K012084			1	☒	CCB1	Continue
85	81	Unk	J346-12		ID8K012085			1	☐		Continue
86	82	Unk	J346-13		ID8K012086			1	☐		Continue
87	83	Unk	K044-03	IPK015S	ID8K012087			1	☐		Continue
88	84	Unk	K044-16	↑Sn	ID8K012088			1	☐		Continue
89	85	Unk	BLANK		ID8K012089			1	☐		Continue
90	86	QC	CCV8		ID8K012090			1	☒	CCV	Continue
91	87	QC	CCB8		ID8K012091			1	☒	CCB1	Continue
92	88	QC	IPK029SB	↑Se	ID8K012092			1	☒	CCB1	Continue

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	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	QC	IPK029SL		ID8K012093			1	☒	LCS	Continue
94	90	QC	IPK029SC		ID8K012094			1	☒	LCS	Continue
95	91	Unk	K191-01A	Je	ID8K012095			1	☐		Continue
96	92	Unk	K191-01		ID8K012096			1	☐		Continue
97	93	Unk	K191-01J		ID8K012097			1	☐		Continue
98	94	Unk	K191-02		ID8K012098			1	☐		Continue
99	95	Unk	K191-03		ID8K012099			1	☐		Continue
100	96	Unk	BLANK		ID8K012100			1	☐		Continue
101	97	QC	CCV9		ID8K012101			1	☒	CCV	Continue
102	98	QC	CCB9		ID8K012102			1	☒	CCB1	Continue
103	99	QC	IPK025WB		ID8K012103			1	☒	CCB1	Continue
104	100	QC	WTK001SB		ID8K012104			1	☒	CCB1	Continue
105	101	QC	IPK025WL		ID8K012105			1	☒	LCS	Continue
106	102	QC	IPK025WC		ID8K012106			1	☒	LCS	Continue
107	103	Unk	J951-01A		ID8K012107			1	☐		Continue
108	104	Unk	J951-01		ID8K012108			1	☐		Continue
109	105	Unk	J951-01J		ID8K012109			1	☐		Continue
110	106	Unk	J951-02		ID8K012110			1	☐		Continue
111	107	Unk	BLANK		ID8K012111			1	☐		Continue
112	108	QC	CCV10		ID8K012112			1	☒	CCV	Continue
113	109	QC	CCB10		ID8K012113			1	☒	CCB1	Continue
114	110	Unk	J331-01	10X, IPJ062W ↑Na	ID8K012114			1	☐		Continue
115	111	Unk	J347-04	10X	ID8K012115			1	☐		Continue
116	112	Unk	J347-06	20X	ID8K012116			1	☐		Continue
117	113	Unk	J347-11M	20X	ID8K012117			1	☐		Continue
118	114	Unk	J347-11S	20X	ID8K012118			1	☐		Continue
119	115	Unk	J347-11A	20X	ID8K012119			1	☐		Continue
120	116	Unk	J347-11	20X	ID8K012120			1	☐		Continue
121	117	Unk	J347-11J	100X	ID8K012121			1	☐		Continue
122	118	Unk	J347-07	20X	ID8K012122			1	☐		Continue
123	119	Unk	BLANK		ID8K012123			1	☐		Continue
124	120	QC	CCV11		ID8K012124			1	☒	CCV	Continue
125	121	QC	CCB11		ID8K012125			1	☒	CCB1	Continue
126	122	Unk	J347-08	20X	ID8K012126			1	☐		Continue
127	123	Unk	J347-09	20X	ID8K012127			1	☐		Continue
128	124	Unk	J347-10	20X	ID8K012128			1	☐		Continue
129	125	Unk	J347-12	20X	ID8K012129			1	☐		Continue
130	126	Unk	BLANK		ID8K012130			1	☐		Continue
131	127	QC	CCV12		ID8K012131			1	☒	CCV	Continue
132	128	QC	CCB12		ID8K012132			1	☒	CCB1	Continue

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	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8K012001			1	☐		Continue
2	0	Unk	S2		ID8K012002			1	☐		Continue
3	0	Unk	S5		ID8K012003			1	☐		Continue
4	0	Unk	S8		ID8K012004			1	☐		Continue
5	1	QC	ICV	B failed	ID8K012005			1	☒	ICV	Continue
6	2	QC	ICB	↓Ca, ↓Mg, ↓Na	ID8K012006			1	☒	CCB1	Continue
7	3	QC	CCV		ID8K012007			1	☒	CCV	Continue
8	4	QC	CCB		ID8K012008			1	☒	CCB1	Continue
9	5	QC	ICSAI		ID8K012009			1	☒	ICSA	Continue
10	6	QC	ICSABI		ID8K012010			1	☒	ICSAB	Continue
11	7	QC	CCV1		ID8K012011			1	☒	CCV	Continue
12	8	QC	CCB1		ID8K012012			1	☒	CCB1	Continue
13	12	Unk	J254-01		ID8K012013			1	☐		Continue
14	13	Unk	J254-01D		ID8K012014			1	☐		Continue
15	14	Unk	J254-01J		ID8K012015			1	☐		Continue
16	15	Unk	J254-01	undigested	ID8K012016			1	☐		Continue
17	9	QC	IPK000WB		ID8K012017			1	☒	CCB1	Continue
18	10	QC	IPK000WL		ID8K012018			1	☒	LCS	Continue
19	11	QC	IPK000WC		ID8K012019			1	☒	LCS	Continue
20	16	Unk	BLANK		ID8K012020			1	☐		Continue
21	17	QC	ICSAF		ID8K012021			1	☒	ICSA	Continue
22	18	QC	ICSABF		ID8K012022			1	☒	ICSAB	Continue
23	19	QC	CCV2		ID8K012023			1	☒	CCV	Continue
24	20	QC	CCB2		ID8K012024			1	☒	CCB1	Continue
25	21	Unk	G144-01	undigested	ID8K012025			1	☐		Continue
26	22	Unk	G144-01D	undigested	ID8K012026			1	☐		Continue
27	23	Unk	BLANK		ID8K012027			1	☐		Continue
28	24	Unk	B	2.16ppm	ID8K012028			1	☐		Continue
29	25	Unk	Fe	1.6ppm	ID8K012029			1	☐		Continue
30	26	Unk	Mn	0.326ppm	ID8K012030			1	☐		Continue
31	27	Unk	V	0.560ppm	ID8K012031			1	☐		Continue
32	28	Unk	BLANK		ID8K012032			1	☐		Continue
33	29	QC	J254-01		ID8K012033			1	☒	CCV	Continue
34	30	QC	J254-01D		ID8K012034			1	☒	CCB1	Continue
35	31	QC	CCV3		ID8K012035			1	☒	CCV	Continue
36	32	QC	CCB3		ID8K012036			1	☒	CCB1	Continue
37	33	QC	IPK010WB		ID8K012037			1	☒	CCB1	Continue
38	34	QC	IPK010WL		ID8K012038			1	☒	LCS	Continue
39	35	QC	IPK010WC		ID8K012039			1	☒	LCS	Continue
40	36	Unk	J393-02A		ID8K012040			1	☐		Continue
41	37	Unk	J393-02		ID8K012041			1	☐		Continue
42	38	Unk	J693-02J		ID8K012042			1	☐		Continue
43	39	Unk	J393-03		ID8K012043			1	☐		Continue
44	40	Unk	J393-04		ID8K012044			1	☐		Continue
45	41	Unk	K008-03		ID8K012045			1	☐		Continue
46	42	Unk	BLANK		ID8K012046			1	☐		Continue

ID8K012 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00169	.00002	-.00002	.00198	.00004	.00010	-.00006	.00486	.00012	-.00022	Blank
2	S2				.91829	.72186	.09727	2.5440		.16897	.70987	S2
3	S5		.00771	.00489								S5
4	S8	.25757							1.5714			S8
5	ICV	4.8139	.50070	.49954	.48460	.50190	.55577*	.50045	50.029	.49687	.49657	ICV
6	ICB	-.00457	.00081	.00161	-.00092	-.00008	-.00096	.00003	-.31313*	.00027	-.00003	ICB
7	CCV	4.8191	.48622	.49154	.48556	.49426	.51026	.50760	49.517	.48106	.49447	CCV
8	CCB	-.00474	.00125	-.00030	-.00074	.00008	-.00065	.00007	-.29668*	.00006	.00012	CCB
9	ICSAI	451.55	.00172	-.00684	-.00155	-.00026	-.04893	.00377	471.34	.00037	.00031	ICSAI
10	ICSABI	453.38	1.0393	1.0381	.52629	.49915	.49386	1.0354	471.74	.48994	.49971	ICSABI
11	CCV1	4.8812	.48803	.49077	.48049	.49273	.51563	.50538	49.590	.48635	.49390	CCV1
12	CCB1	.00504	.00053	.00153	-.00107	.00005	-.00087	.00009	-.29738*	.00022	.00004	CCB1
13	J254-01	.56073	.04962	.05104	2.6272	.00860	1.9197	.02925	-.26247	.01618	-.00021	J254-01
14	J254-01D	.56367	.05107	.05302	2.6359	.00847	1.9937	.02904	-.31369	.01636	-.00021	J254-01D
15	J254-01J	.10542	.01076	.00997	.52289	.00154	.37424	.00579	-.30116	.00344	-.00007	J254-01J
16	J254-01	.53235	.04701	.05157	2.5518	.00844	1.8945	.02832	-.30462	.01579	-.00024	J254-01
17	IPK000WB	.00157	.00058	-.00108	-.00105	-.00005	.00128	-.00001	-.30653*	.00021	-.00006	IPK000WB
18	IPK000WL	10.366	5.3418	1.0764	.98903	1.0508	1.2085*	1.0324	50.314	1.0234	.99665	IPK000WL
19	IPK000WC	10.578	5.4443	1.0919	1.0157	1.0763	1.2211*	1.0614	51.510	1.0243	1.0242	IPK000WC
20	BLANK	.00693	.00711	.00145	-.00141	.00003	.00233	.00012	-.26900	.00019	-.00006	BLANK
21	ICSAF	448.31	.00451	-.00965	-.00058	-.00034	-.04884	.00391	466.39	.00043	.00045	ICSAF
22	ICSABF	452.21	1.0389	1.0277	.52233	.49891	.49207	1.0346	467.38	.48527	.49715	ICSABF
23	CCV2	4.9888	.49846	.49962	.48389	.49999	.52705	.51262	50.018	.49594	.49994	CCV2
24	CCB2	-.00126	.00234	-.00039	-.00016	-.00008	-.00048	.00011	-.29312*	.00025	-.00005	CCB2
25	G144-01	2.0442	.04514	.03674	1.9984	.00654	2.3931	.03429	-.24028	.19662	.00006	G144-01
26	G144-01D	2.0395	.04649	.03614	1.9998	.00649	2.4372	.03419	-.30153	.20003	-.00013	G144-01D
27	BLANK	-.00175	.00190	.00063	-.00055	-.00002	.00265	.00000	-.27763	.00024	.00001	BLANK
28	B	-.00011	.00175	.00016	-.00126	.00003	2.1956	.00000	-.29145	.00013	-.00019	B
29	Fe	-.00395	.00104	-.00103	-.00081	.00004	.00122	.00001	-.30706	.00014	-.00017	Fe
30	Mn	-.00303	.00108	.00033	-.00086	.00008	.00065	.00005	-.30082	.00023	-.00001	Mn
31	V	-.01567	.00057	.00007	-.00127	-.00003	-.00041	-.00002	-.30432	.00009	-.00022	V
32	BLANK	.00040	.00064	-.00025	-.00061	.00004	.00063	.00004	-.27939	.00013	-.00005	BLANK
33	J254-01	.53882*	.04966*	.05128*	2.5225*	.00850*	1.9043*	.02835*	-.29364*	.01560*	-.00034*	J254-01
34	J254-01D	.53463*	.04992	.04979*	2.4960*	.00841	1.9074*	.02799*	-.27827*	.01574*	-.00020	J254-01D
35	CCV3	4.9065	.49719	.49729	.48054	.49862	.52276	.51162	49.447	.48777	.49891	CCV3
36	CCB3	-.00985	.00073	-.00033	-.00107	.00032	.00049	.00006	-.30718*	.00022	-.00004	CCB3
37	IPK010WB	-.01016	.00069	-.00079	-.00085	-.00001	-.00022	.00006	-.29110*	.00013	-.00003	IPK010WB
38	IPK010WL	9.4720	5.0101	.99489	.96099	1.0256	1.0678	1.0272	49.718	.98483	1.0142	IPK010WL
39	IPK010WC	9.2521	4.8749	.96984	.94715	.99883	1.0279	1.0077	48.495	.94151	.98976	IPK010WC
40	J393-02A	9.6428	5.1811	1.2044	1.1754	.98582	3.3881	1.0046	85.354	.93271	.96627	J393-02A
41	J393-02	.00486	.00253	.15740	.23921	-.00016	2.3331	.00024	39.508	.00075	-.00007	J393-02
42	J393-02J	.00493	.00218	.02845	.04708	-.00010	.45720	.00006	7.6914	.00018	-.00006	J393-02J
43	J393-03	.02092	.00028	.13920	.21957	-.00025	3.0785	.00014	30.982	.00038	-.00035	J393-03
44	J393-04	.01208	-.00105	.15454	.06889	-.00048	3.4297	.00010	16.723	.00051	-.00023	J393-04
45	K008-03	.01232	.00028	.07028	.11052	-.00005	3.1407	.00002	15.590	.00071	-.00021	K008-03
46	BLANK	-.00085	.00188	.00105	-.00093	-.00017	.00719	.00009	-.23055	.00023	.00000	BLANK
47	CCV4	5.1763	.50562	.49447	.47998	.49753	.53486	.50801	48.927	.48831	.49678	CCV4
48	CCB4	-.00899	.00114	-.00037	-.00091	.00001	.00048	.00004	-.30382*	.00011	-.00002	CCB4
49	K008-04	.01671	.00016	.00410	.03661	-.00004	1.3284	.00008	41.649	.00342	-.00030	K008-04
50	J549-01	1.5665	.01422	-.00137	.04663	-.00023	.56998	.01103	31.942	.04436	.00326	J549-01
51	K017-02	.02726	.00045	.00153	-.00081	.00017	.00693	.00013	-.14134	.00142	.00003	K017-02
52	K017-03	2.1397	-.00009	.00422	.08389	.00031	.27455	.00007	15.010	.00120	.00124	K017-03
53	J955-02	.00508	.00005	.00181	-.00170	.00006	.00066	.00000	-.24474	.00037	-.00003	J955-02
54	J955-03	.01250	.00031	.00041	-.00108	-.00004	.00643	.00006	-.18044	.00032	-.00012	J955-03
55	J955-04	15.166	.00015	.01147	1.4133	.00870	.68659	.00054	348.64	.01220	.01888	J955-04

7033

56	BLANK	.00418	.00083	-.00031	-.00099	.00003	.00165	.00002	-.24445	.00033	.00008	BLANK
57	ICSAF	467.48	.00284	-.00564	-.00214	-.00004	-.04316	.00537	465.72	.00018	.00026	ICSAF
58	ICSABF	463.27	1.0502	1.0256	.51572	.49805	.49703	1.0339	455.35	.47409	.49226	ICSABF
59	CCV5	5.2172	.50650	.49289	.47019	.49437	.53166	.49724	48.182	.48704	.48737	CCV5
60	CCB5	.00295	.00094	-.00002	-.00087	.00021	-.00064	.00004	-.30779*	-.00002	.00005	CCB5
61	IPJ066SB	-.00441	.00077	-.00026	-.00121	.00010	-.00104	.00001	-.29977*	.00019	-.00018	IPJ066SB
62	IPJ066SL	9.5443	4.8429	.95071	.91806	.99264	1.0186	.97997	46.198	.92298	.95802	IPJ066SL
63	IPJ066SC	9.7526	4.9610	.96360	.92683	1.0019	1.0561	.98180	47.052	.96072	.96971	IPJ066SC
64	J346-02M	138.99	1.3459	.87960	1.8943	.90097	.84854	.89797	247.71	.99100	.96777	J346-02M
65	J346-02S	129.58	1.4518	.87924	1.8639	.90205	.83347	.90396	259.82	.96462	.96338	J346-02S
66	J346-02A	137.79	4.8459	.99316	1.9967	.98702	1.0023	.99744	245.41	1.0730	1.0592	J346-02A
67	J346-02	133.24	-.00661	.02019	1.0955	.00521	-.02146	.00458	208.11	.17205	.09246	J346-02
68	J346-02J	28.226	-.00151	.00469	.21899	.00112	-.00552	.00064	42.357	.03602	.01830	J346-02J
69	J346-01	115.90	-.00462	.02840	.59251	.00647	-.02351	.00504	58.824	.16928	.07239	J346-01
70	BLANK	.00939	.00101	.00149	-.00096	-.00015	.00236	.00007	-.24221	.00031	.00016	BLANK
71	CCV6	5.0134	.50269	.49007	.46733	.49448	.51915	.50085	47.948	.48150	.48611	CCV6
72	CCB6	-.00963	.00161	-.00176	-.00106	.00012	-.00040	.00008	-.28821*	.00003	.00004	CCB6
73	J346-03	125.47	-.00902	.02145	1.0905	.00458	-.02545	.00460	320.28	.16173	.08539	J346-03
74	J346-04	147.47	-.01032	.02304	1.2195	.00538	-.02417	.00487	216.28	.18779	.10016	J346-04
75	J346-05	162.99	-.01196	.04499	1.6516	.00588	-.01184	.00565	351.13	.28165	.11222	J346-05
76	J346-06	161.23	-.01099	.09425	1.5722	.00565	-.02847	.00725	1051.1	.31412	.13492	J346-06
77	J346-07	166.61	-.00790	.07529	.87964	.00483	-.02384	.01117	1568.3	.48749	.11621	J346-07
78	J346-08	229.14	-.01316	.04758	1.6134	.00891	-.02213	.00974	800.77	.27849	.13825	J346-08
79	J346-09	160.53	-.00965	.03303	1.3420	.00584	-.02355	.00421	66.255	.30542	.09989	J346-09
80	J346-10	265.16	-.01207	.07031	1.3140	.01031	-.04271	.00930	172.43	.39378	.15798	J346-10
81	J346-11	90.515	-.00784	.03250	.78135	.00373	-.01970	.00224	41.780	.12051	.06490	J346-11
82	BLANK	.00743	.00109	.00018	-.00130	-.00009	.00140	.00005	-.24972	.00158	-.00023	BLANK
83	CCV7	5.0383	.50311	.49279	.47046	.49251	.51568	.50422	47.664	.47678	.48958	CCV7
84	CCB7	-.00964	.00126	-.00031	-.00160	.00018	-.00066	.00004	-.30545*	.00003	-.00012	CCB7
85	J346-12	143.28	-.00868	.04416	.73443	.00657	-.02951	.00426	67.176	.30477	.09022	J346-12
86	J346-13	160.43	-.00960	.03470	1.0430	.00643	-.03398	.00444	111.03	.26624	.10920	J346-13
87	K044-03	6.5436	-.00993	.08328	.06089	.00001	.05872	.01755	1082.4	.85054	.11380	K044-03
88	K044-16	3.8313	.01070	.01777	.02375	-.00007	-.06523	.05320	1046.6	1.0826	.09155	K044-16
89	BLANK	-.00300	.00048	.00071	-.00099	.00008	.68530	.00004	-.22295	.00015	-.00010	BLANK
90	CCV8	5.0559	.50459	.48835	.46620	.49128	.52732	.50012	47.507	.48379	.48749	CCV8
91	CCB8	-.00214	.00126	.00007	-.00148	.00018	-.00013	.00003	-.29252*	.00015	.00008	CCB8
92	IPK029SB	.00250	-.00365	.00330	.00110	-.00003	.00286	.00009	-.21736*	.00279	-.00023	IPK029SB
93	IPK029SL	9.7229	5.0017	.98255	.95091	1.0114	1.0412	1.0245	47.919	.94791	1.0021	IPK029SL
94	IPK029SC	9.6238	4.9863	.97534	.93685	.99831	1.0436	1.0073	47.268	.94055	.98331	IPK029SC
95	K191-01A	9.4402	5.3661	1.2104	.96356	.95208	1.1924	1.0404	45.978	.97577	1.0046	K191-01A
96	K191-01	.15074	-.00649	.05033	.03807	.00000	.05311	.00146	1.8939	.02570	.00465	K191-01
97	K191-01J	.03216	-.00004	.00877	.00588	-.00009	.00962	.00026	.16281	.00514	.00074	K191-01J
98	K191-02	207.59	-.03473	.03982	2.6645	.00676	-.04066	1.1304	55.270	.44990	.16747	K191-02
99	K191-03	124.07	-.03775	.04087	2.3690	.00279	.03753	1.0190	21.710	3.9563	.09399	K191-03
100	BLANK	.00485	.00078	.00089	-.00120	.00003	.00150	.00011	-.25037	.00029	.00003	BLANK
101	CCV9	5.1596	.51321	.49757	.47008	.49237	.53426	.50271	47.416	.48867	.49019	CCV9
102	CCB9	-.00857	.00135	-.00081	-.00131	.00017	-.00078	.00010	-.31062*	.00013	-.00011	CCB9
103	IPK025WB	-.01029	.00055	.00011	-.00108	-.00008	-.00104	.00004	-.30083*	.00003	-.00015	IPK025WB
104	WTK001SB	-.00463	.00051	.00005	-.00159	-.00009	-.00110	.00002	-.32685*	.00012	-.00002	WTK001SB
105	IPK025WL	9.4897	4.9276	.95386	.90854	.98409	1.0245	.97640	45.431	.92592	.95678	IPK025WL
106	IPK025WC	9.7445	5.0218	.97280	.92775	1.0036	1.0498	.99683	46.053	.94893	.97754	IPK025WC
107	J951-01A	200.09	4.8190	.98737	3.2105	.97926	.98204	1.0742	103.70	1.5260	1.1432	J951-01A
108	J951-01	194.50	-.02835	.04291	2.3447	.00643	-.03350	.08221	60.006	.62382	.17224	J951-01
109	J951-01J	41.557	-.00645	.00912	.46936	.00114	-.01131	.01526	12.262	.13061	.03374	J951-01J
110	J951-02	.39288	-.00423	.06284	.18758	.00010	.02823	.00301	8.2677	.00789	.00328	J951-02
111	BLANK	.00157	.00131	.00001	-.00087	-.00008	.00076	.00017	-.28334	.00028	.00004	BLANK
112	CCV10	5.1163	.51189	.49627	.46757	.48890	.52968	.50157	47.189	.48318	.48761	CCV10
113	CCB10	-.00993	.00100	.00006	-.00190	-.00023	-.00071	.00003	-.31403*	.00008	.00000	CCB10

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
114	J331-01	.00411	.00158	-.00121	.00073	-.00072	7.9362	.00003	34.663	.00092	-.00023	J331-01
115	J347-04	.00618	.00014	-.00028	-.00045	-.00015	1.2355	.00000	45.009	.00382	.00061	J347-04
116	J347-06	-.00027	.00081	-.00049	-.00042	-.00014	1.4945	.00005	23.024	.00788	-.00001	J347-06
117	J347-11M	.52628	.28472	.05631	.00350	.05109	3.1148	.05476	25.465	.06350	.05258	J347-11M
118	J347-11S	.51390	.28265	.05547	.01298	.05077	3.1101	.05357	25.309	.06338	.05163	J347-11S
119	J347-11A	9.8038	5.3180	1.0664	.93395	.96194	4.1195	1.0080	68.218	.96327	.98115	J347-11A
120	J347-11	.00245	.00259	-.00192	-.00002	-.00035	3.0597	.00004	22.629	.01304	-.00015	J347-11
121	J347-11J	-.00389	.00272	-.00091	-.00095	.00010	.58716	.00007	4.3712	.00257	-.00004	J347-11J
122	J347-07	.00032	.00052	.00054	-.00078	.00001	1.4908	.00000	23.028	.00788	.00002	J347-07
123	BLANK	-.00320	.00102	.00072	-.00061	.00013	.00493	.00005	-.27740	.00023	.00007	BLANK
124	CCV11	5.1567	.51824	.50140	.47620	.49337	.53966	.50736	47.904	.49170	.49404	CCV11
125	CCB11	-.01240	.00120	-.00091	-.00103	-.00013	.00110	.00010	-.31671*	.00027	-.00007	CCB11
126	J347-08	-.00086	.00036	.00021	-.00083	-.00004	1.0653	.00004	22.555	.00542	.00001	J347-08
127	J347-09	-.00307	.00058	-.00036	-.00080	-.00018	2.3152	.00003	21.174	.00587	-.00019	J347-09
128	J347-10	-.00416	.00042	.00017	-.00009	-.00010	2.1884	.00007	19.056	.00273	-.00018	J347-10
129	J347-12	-.00484	.00045	-.00136	-.00053	.00009	.57465	.00002	32.117	.00611	-.00014	J347-12
130	BLANK	-.00764	-.00005	.00024	-.00179	.00004	.00169	.00001	-.30954	.00023	-.00014	BLANK
131	CCV12	5.0855	.50956	.49469	.46980	.48642	.52989	.50014	47.167	.48488	.48713	CCV12
132	CCB12	-.01180	.00099	-.00067	-.00072	.00030	.00078	.00005	-.31171*	.00016	-.00007	CCB12

ID8K012 Section 1 of 3

ID8K012 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID
1	Blank	.00576	.00000	.00008	.00019	.00012	.00002	-.00043	-.00052	.00001	.00015	Blank
2	S2	3.3318		.18911		.05667		.65285			.20206	S2
3	S5						.71968			.00481		S5
4	S8		.07098		.15084				3.1389			SB
5	ICV	.47208	5.0830	.49733	48.775	.48481	.50272	.49429	48.884	.49584	.50274	ICV
6	ICB	-.00035	.00218	-.00024	-.12720*	-.00119	.00005	-.00020	-.04979	-.00134	.00042	ICB
7	CCV	.45844	4.8736	.48480	49.014	.47632	.51735	.49506	48.205	.49507	.48800	CCV
8	CCB	-.00027	.00149	-.00008	-.17345*	-.00167	.00001	.00023	-.05180	-.00030	.00023	CCB
9	ICSAI	.00263	186.08	-.01772	498.41	-.00101	-.00205	-.00009	.00596	.00436	.00003	ICSAI
10	ICSABI	.47363	187.28	.94975	497.55	.47030	1.0733	.98751	81.849	1.0320	1.1137	ICSABI
11	CCV1	.46493	4.9198	.48357	49.329	.47830	.51555	.49231	48.286	.49327	.49343	CCV1
12	CCB1	-.00030	.00450	-.00019	-.08508	-.00140	.00002	-.00002	.01064	.00025	.00013	CCB1
13	J254-01	.63087	1.8242	.01600	-.00612	.13729	.07378	.21535	-.09624	.09538	.07513	J254-01
14	J254-01D	.64928	1.8574	.01658	-.13021	.13672	.07375	.21633	-.11528	.09752	.07780	J254-01D
15	J254-01J	.12966	.36020	.00351	-.13868	.02362	.01533	.04356	-.09144	.01609	.01486	J254-01J
16	J254-01	.61450	1.7750	.01599	-.03462	.13334	.07084	.20999	-.13090	.09391	.07427	J254-01
17	IPK000WB	-.00029	.00136	-.00038	-.19179*	-.00373	.00001	-.00005	-.09958	-.00215	.00013	IPK000WB
18	IPK000WL	.96806	10.576	1.0027	50.128	.99178	1.0002	.99999	50.165	1.1187	.70886*	IPK000WL
19	IPK000WC	1.0011	10.697	1.0296	51.818	1.0174	1.0391	1.0290	51.563	1.1265	.73297*	IPK000WC
20	BLANK	-.00013	.00824	-.00002	-.13257	-.00017	.00015	.00020	-.04363	-.00064	.04217	BLANK
21	ICSAF	.00234	182.98	-.01812	499.51	-.00257	-.00197	-.00034	-.04691	.00590	.00545	ICSAF
22	ICSABF	.47674	186.30	.94930	499.30	.47511	1.0723	.98335	80.992	1.0236	1.1051	ICSABF
23	CCV2	.47528	5.0306	.49025	50.433	.48583	.52349	.49813	48.923	.50097	.50340	CCV2
24	CCB2	-.00024	.00580	.00043	-.12863*	-.00226	.00015	.00011	-.00994	-.00182	.00034	CCB2
25	G144-01	.93027	1.7831	.05067	-.04149	.32221	.03890	.11109	-.06005	.07256	.12073	G144-01
26	G144-01D	.95990	1.8071	.05153	-.13047	.32204	.03928	.11125	-.07051	.07248	.12290	G144-01D
27	BLANK	.00008	.00283	-.00013	-.12374	-.00168	-.00002	.00002	-.07577	-.00167	.00002	BLANK
28	B	-.00015	.00629	.00029	-.12410	-.00153	-.00009	.00011	-.06864	-.00092	.00004	B
29	Fe	-.00008	1.6225	-.00031	-.12324	-.00047	.00001	-.00011	-.10771	-.00109	.00020	Fe
30	Mn	-.00043	-.00185	.00014	-.14127	.32829	.00002	.00001	-.09642	.00081	.00011	Mn
31	V	-.00072	.06308	.00021	-.07817	-.00247	-.00019	-.00005	-.09978	-.00295	-.00412	V
32	BLANK	-.00020	.00545	-.00019	-.13227	-.00242	-.00008	.00009	-.06894	-.00131	.00018	BLANK
33	J254-01	.64305*	1.8104*	.01597*	-.17263*	.13281*	.07208*	.21004*	-.06636*	.09279*	.07381*	J254-01
34	J254-01D	.63744*	1.7974*	.01647*	-.13725*	.13103*	.07196*	.20856*	-.05324	.09045*	.07416*	J254-01D
35	CCV3	.47887	4.9887	.48985	49.953	.48090	.52348	.49806	48.643	.50053	.49460	CCV3
36	CCB3	-.00016	-.00002	-.00061	-.14728*	-.00229	.00008	-.00009	-.05696	-.00135	.00028	CCB3
37	IPK010WB	-.00040	-.00281	.00025	-.12974*	-.00202	-.00001	.00001	-.06078	.00067	.00007	IPK010WB
38	IPK010WL	.98686	10.185	1.0013	49.765	.97488	1.0371	1.0052	48.630	.97565	.97453	IPK010WL
39	IPK010WC	.95734	9.8905	.97958	48.350	.96194	1.0221	.98534	46.949	.94295	.93283	IPK010WC
40	J393-02A	.89486	14.559	.96314	94.077	1.0796	1.0616	.96299	78.050	1.0582	.95833	J393-02A
41	J393-02	.00051	5.0221	-.00073	46.143	.15122	.05945	.00181	27.540	-.00119	.00042	J393-02
42	J393-02J	.00079	1.0273	.00025	9.0700	.02599	.01161	.00156	5.0236	-.00059	.00013	J393-02J
43	J393-03	.00079	2.2152	-.00047	26.994	.09337	.08576	.00141	22.328	-.00034	.00006	J393-03
44	J393-04	.00053	2.1996	-.00098	20.793	.03473	.12157	.00318	22.408	-.00076	.00022	J393-04
45	K008-03	.00038	.82674	-.00058	16.548	.05287	.08684	.00116	19.286	-.00093	.00012	K008-03
46	BLANK	.00009	.00794	.00005	-.16316	-.00229	.00003	.00014	.06030	-.00138	.00003	BLANK
47	CCV4	.49501	5.0370	.49145	49.960	.47724	.52362	.49411	49.113	.50234	.50317	CCV4
48	CCB4	.00014	-.00159	-.00004	-.18284*	-.00176	.00005	-.00018	-.02809	-.00084	.00019	CCB4
49	K008-04	.00136	-.00885	-.00053	48.697	-.00158	.01554	.00087	25.057	.00730	.00022	K008-04
50	J549-01	1.8192	2.0928	.05883	26.607	.06676	.01958	.06832	698.07	.00681	.00111	J549-01
51	K017-02	.00214	.15260	-.00046	-.14407	.00452	.00007	.00035	.32832	-.00075	.00027	K017-02
52	K017-03	.00360	2.1218	.00137	.44398	.05605	.02677	.00382	2.0078	-.00185	-.00005	K017-03
53	J955-02	.00024	.00509	-.00056	-.19310	-.00368	-.00004	.00062	.06818	-.00107	.00013	J955-02
54	J955-03	.00033	.08183	-.00022	-.10691	-.00111	.00004	.00026	.05641	-.00146	.00015	J955-03
55	J955-04	.04933	6.2372	.01951	15.755	1.1518	.00131	.01637	10.416	.00491	-.00027	J955-04

56	BLANK	.00022	.02882	-.00007	-.12061	.00001	-.00018	.00025	.08114	-.00074	-.00020	BLANK
57	ICSAF	.00274	188.99	-.01771	508.58	-.00399	-.00198	-.00005	.07123	.00664	-.00034	ICSAF
58	ICSABF	.49723	187.28	.95203	500.76	.46696	1.0723	.97692	80.971	1.0256	1.0866	ICSABF
59	CCV5	.49672	5.0359	.48690	49.726	.46930	.51363	.48550	48.733	.49760	.50130	CCV5
60	CCB5	.00001	.00162	.00022	-.19234*	-.00078	.00007	-.00005	.01631	-.00016	.00027	CCB5
61	IPJ066SB	-.00019	-.00086	-.00009	-.12594*	-.00176	.00009	-.00002	-.01947	-.00044	.00022	IPJ066SB
62	IPJ066SL	.98022	9.8225	.96189	47.650	.91941	.99491	.95905	45.358	.93957	.92608	IPJ066SL
63	IPJ066SC	1.0005	10.076	.96877	47.832	.93910	1.0057	.96737	46.722	.95218	.96697	IPJ066SC
64	J346-02M	1.0905	181.51	.90917	119.08	4.2155	.88929	1.0188	69.706	.83276	.87790	J346-02M
65	J346-02S	1.0588	169.43	.90835	115.79	4.0629	.89005	1.0152	67.218	.83044	.85612	J346-02S
66	J346-02A	1.1601	182.76	1.0024	121.79	4.3008	1.0248	1.1052	76.048	.96137	.95087	J346-02A
67	J346-02	.19830	182.40	.04517	77.211	3.5319	.00031	.15033	28.884	.00960	-.00330	J346-02
68	J346-02J	.04036	38.349	.00766	15.581	.72232	.00002	.02992	5.5145	.00068	-.00075	J346-02J
69	J346-01	.11862	154.31	.03464	56.020	1.8590	.00229	.12477	17.134	.01005	-.00118	J346-01
70	BLANK	.00025	.02355	-.00032	-.06546	-.00219	.00005	.00025	-.03636	-.00076	.00002	BLANK
71	CCV6	.49622	5.0272	.48708	50.060	.46894	.51500	.48606	48.313	.49538	.48742	CCV6
72	CCB6	-.00004	-.00148	.00017	-.13181*	-.00078	.00011	.00001	-.06716	-.00055	.00038	CCB6
73	J346-03	.17735	168.10	.04205	73.030	3.4256	.00041	.13890	22.245	.00600	-.00319	J346-03
74	J346-04	.21437	200.60	.04834	84.729	3.8168	.00007	.16729	25.412	.00829	-.00355	J346-04
75	J346-05	.23646	219.40	.05531	89.730	4.1830	-.00055	.18999	27.780	.00875	-.00451	J346-05
76	J346-06	.27687	230.95	.05871	112.36	4.1027	-.00057	.22235	19.732	.01051	-.00473	J346-06
77	J346-07	.28001	203.86	.08783	104.17	4.3647	-.00018	.17698	27.815	.00391	-.00605	J346-07
78	J346-08	.32992	267.58	.11308	136.23	6.8153	-.00136	.20747	45.046	.00902	-.00485	J346-08
79	J346-09	.17409	206.00	.05228	96.309	2.7420	-.00107	.15474	21.816	.01020	-.00429	J346-09
80	J346-10	.41012	318.82	.12711	151.95	5.5285	-.00112	.27265	29.348	.01669	-.00729	J346-10
81	J346-11	.16093	117.49	.07033	49.739	2.8699	.00107	.10668	17.755	.00642	-.00219	J346-11
82	BLANK	.00010	.02492	.00008	-.13893	.00070	-.00005	.00017	-.04595	-.00010	.00015	BLANK
83	CCV7	.49457	5.0023	.48703	50.031	.46805	.52003	.48928	47.871	.49904	.48549	CCV7
84	CCB7	-.00003	.00157	-.00058	-.13965*	-.00245	.00007	-.00013	-.00709	.00005	.00026	CCB7
85	J346-12	.19635	195.92	.08246	81.389	2.6655	-.00057	.16651	24.290	.00995	-.00336	J346-12
86	J346-13	.24836	196.16	.05719	88.988	3.9343	-.00027	.19756	27.610	.00981	-.00332	J346-13
87	K044-03	.33010	554.71	.18665	10.901	4.1954	.06827	.13907	1.3043	.02874	.00009	K044-03
88	K044-16	.18747	442.68	.25012	5.8345	4.2350	.00163	.21203	1.1525	.02261	-.00114	K044-16
89	BLANK	.00010	.02443	.00003	-.15930	-.00011	.00004	-.00002	-.04669	.00001	-.00007	BLANK
90	CCV8	.50227	5.0948	.48858	49.934	.46476	.51581	.48682	48.306	.49622	.49295	CCV8
91	CCB8	-.00009	.00203	-.00073	-.12504*	-.00264	.00011	-.00003	-.02098	-.00026	.00015	CCB8
92	IPK029SB	.00018	.00863	.00035	-.10031*	.00035	.00013	.00160	.99788*	.01386*	.00034	IPK029SB
93	IPK029SL	1.0223	10.101	1.0027	49.417	.93752	1.0384	.99736	48.234	.96378	.94497	IPK029SL
94	IPK029SC	1.0152	10.042	.98900	49.108	.92907	1.0214	.97963	47.493	.95670	.93670	IPK029SC
95	K191-01A	1.0293	109.89	.98385	46.022	1.2088	1.0773	1.0187	62.947	1.3041	1.0617	K191-01A
96	K191-01	.16737	105.80	.02346	.09447	.31990	.00340	.02571	2.0895	.02228	.00029	K191-01
97	K191-01J	.03746	20.846	.00450	-.08237	.06381	.00055	.00503	.56589	.00352	.00010	K191-01J
98	K191-02	1.2704	290.33	.05248	113.37	4.9466	.00327	.50847	76.418	.01816	-.00394	K191-02
99	K191-03	1.0979	280.83	.50952	81.632	2.2973	.01763	.51544	73.096	.01675	.00262	K191-03
100	BLANK	.00017	.02988	.00024	-.14372	-.00242	.00007	.00013	.01990	-.00067	.00011	BLANK
101	CCV9	.51383	5.1421	.49404	49.927	.46341	.51992	.48968	48.998	.50260	.49850	CCV9
102	CCB9	.00021	.00236	.00000	-.11299*	-.00162	-.00004	-.00023	-.01607	-.00079	.00030	CCB9
103	IPK025WB	.00007	-.00054	-.00023	-.14081*	-.00241	.00003	-.00001	-.03721	-.00036	.00021	IPK025WB
104	WTK001SB	-.00021	.00317	-.00028	-.18104*	-.00290	.00008	-.00010	-.05014	-.00112	.00002	WTK001SB
105	IPK025WL	1.0098	9.9221	.96155	46.725	.90219	1.0044	.95767	45.720	.94047	.92840	IPK025WL
106	IPK025WC	1.0379	10.177	.98271	47.702	.92020	1.0242	.97855	46.631	.96226	.95215	IPK025WC
107	J951-01A	2.2990	283.69	1.0283	156.36	5.7687	1.0391	1.2096	115.00	.93633	.95214	J951-01A
108	J951-01	1.3280	281.84	.05755	111.48	5.0139	.00392	.24982	66.939	.01337	-.00450	J951-01
109	J951-01J	.26866	59.593	.01039	22.680	1.0264	.00073	.04916	12.940	.00211	-.00091	J951-01J
110	J951-02	.12881	2.4571	.17717	.62079	.24423	.00147	.02178	2.4079	.01635	.00027	J951-02
111	BLANK	.00033	.01250	.00007	-.12997	-.00184	.00008	.00019	.08571	.00077	.00029	BLANK
112	CCV10	.51179	5.0859	.48951	49.044	.45817	.51716	.48782	49.171	.50467	.49388	CCV10
113	CCB10	-.00003	-.00013	.00023	-.13336*	-.00089	.00013	.00008	-.00935	.00026	.00000	CCB10

114	J331-01	-.00024	.08217	-.00137	478.38	.05152	.00715	.00068	66.426	-.00079	.00019	J331-01
115	J347-04	.00017	.00041	.00000	5.5835	.00154	.02039	.00028	.41207	.00135	-.00013	J347-04
116	J347-06	.00049	-.00539	-.00016	26.351	-.00111	.01600	.00020	.33471	.00533	-.00005	J347-06
117	J347-11M	.05225	.53488	.04036	83.305	.04604	.08895	.05319	3.6936	.06959	.02244	J347-11M
118	J347-11S	.05186	.53109	.04202	82.393	.04665	.08696	.05207	3.6699	.06842	.03657	J347-11S
119	J347-11A	.95284	10.161	.97227	125.50	.89201	1.0490	.97928	56.746	1.0808	1.0189	J347-11A
120	J347-11	.00034	-.02506	-.00058	78.409	-.00343	.03376	.00008	.63965	.01211	.00020	J347-11
121	J347-11J	-.00012	-.00186	-.00054	15.616	-.00164	.00646	.00007	.12683	.00242	.00007	J347-11J
122	J347-07	.00122	-.00591	.00039	26.183	-.00135	.01571	.00121	.25932	.00692	.00024	J347-07
123	BLANK	.00019	.01218	.00034	-.11295	-.00130	-.00009	.00016	-.04065	-.00015	.00005	BLANK
124	CCV11	.52372	5.1479	.49500	49.537	.46021	.52199	.49356	50.174	.51093	.50090	CCV11
125	CCB11	-.00011	-.00125	.00032	-.17593*	-.00161	.00009	.00010	-.02801	-.00073	.00007	CCB11
126	J347-08	.00015	-.01007	-.00034	18.554	-.00197	.01898	.00030	.18522	.00366	-.00024	J347-08
127	J347-09	.00041	-.00631	-.00046	19.733	-.00159	.03299	.00011	.23807	.00627	.00011	J347-09
128	J347-10	.00017	-.00115	-.00011	7.7323	-.00180	.02819	.00012	.14777	-.00022	.00010	J347-10
129	J347-12	.00000	-.00479	.00048	14.614	-.00154	.01255	-.00001	.05133	.00318	-.00010	J347-12
130	BLANK	-.00002	-.00061	-.00046	-.17159	-.00300	.00017	.00001	-.05250	-.00082	-.00014	BLANK
131	CCV12	.51914	5.0801	.48865	48.573	.45451	.51507	.48638	49.563	.50236	.49455	CCV12
132	CCB12	.00015	-.00227	-.00016	-.16733*	-.00186	.00007	.00023	-.01959	.00068	.00027	CCB12
INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID

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INDX	LSID	Na	Tl	V	Zn	LSID
1	Blank	.06080	-.00057	-.00015	.00227	Blank
2	S2		.13985	.15944		S2
3	S5				.84593	S5
4	S8	8.4974				S8
5	ICV	48.932	.47162	.50991	.51238	ICV
6	ICB	-.62943*	.00045	.00008	-.00112	ICB
7	CCV	48.611	.46915	.49834	.50321	CCV
8	CCB	-.64566*	.00095	.00006	-.00119	CCB
9	ICSAI	-.50653	-.00065	.00016	.00576	ICSAI
10	ICSABI	80.790	.91329	.50828	1.0179	ICSABI
11	CCV1	48.519	.46845	.50165	.50127	CCV1
12	CCB1	-.63373*	.00052	.00008	-.00118	CCB1
13	J254-01	-.62032	.01171	.81756	1.3005	J254-01
14	J254-01D	-.64367	.01176	.83540	1.3032	J254-01D
15	J254-01J	-.63564	.00271	.16650	.25729	J254-01J
16	J254-01	-.65229	.01026	.79957	1.2674	J254-01
17	IPK000WB	-.64034*	.00066	.00028	-.00100	IPK000WB
18	IPK000WL	49.451	.98328	1.0502	1.0548	IPK000WL
19	IPK000WC	50.886	1.0139	1.0547	1.0829	IPK000WC
20	BLANK	-.59723	.00071	.00017	.00052	BLANK
21	ICSAF	-.52734	-.00099	.00011	-.00593	ICSAF
22	ICSABF	80.085	.91371	.50142	1.0193	ICSABF
23	CCV2	49.038	.47514	.50906	.50896	CCV2
24	CCB2	-.63465*	.00061	.00016	-.00098	CCB2
25	G144-01	-.63450	.00698	.55522	1.8543	G144-01
26	G144-01D	-.63974	.00731	.56160	1.8456	G144-01D
27	BLANK	-.64625	.00048	-.00004	-.00013	BLANK
28	B	-.64912	.00105	.00012	-.00096	B
29	Fe	-.67642	.00062	.00008	-.00170	Fe
30	Mn	-.66695	.00085	-.00010	-.00133	Mn
31	V	-.65907	-.00026	.56342	-.00147	V
32	BLANK	-.66328	.00112	.00010	.00009	BLANK
33	J254-01	-.64472*	.01134*	.79288*	1.2719*	J254-01
34	J254-01D	-.63908*	.01102*	.79056*	1.2599*	J254-01D
35	CCV3	48.801	.47620	.49952	.52889	CCV3
36	CCB3	-.66328*	.00059	.00024	-.00083	CCB3
37	IPK010WB	-.64979*	.00044	.00002	-.00026	IPK010WB
38	IPK010WL	48.984	.96182	1.0042	1.0438	IPK010WL
39	IPK010WC	47.473	.94395	.96126	1.0310	IPK010WC
40	J393-02A	462.21	.89735	.95904	1.0271	J393-02A
41	J393-02	425.04	.00183	-.00005	.00132	J393-02
42	J393-02J	87.470	.00043	.00005	.00125	J393-02J
43	J393-03	509.32	.00118	.00013	.00445	J393-03
44	J393-04	541.38	.00159	.00085	.00190	J393-04
45	K008-03	539.85	.00070	.00161	.02230	K008-03
46	BLANK	2.0470	.00046	.00008	.00461	BLANK
47	CCV4	49.221	.48142	.49740	.50655	CCV4
48	CCB4	-.54290*	.00083	-.00006	-.00021	CCB4
49	K008-04	269.01	.00085	.00691	.00739	K008-04
50	J549-01	433.47	-.00355	.00463	.58555	J549-01
51	K017-02	-.30543	.00147	.00037	.00492	K017-02
52	K017-03	125.82	.00114	.03900	.03195	K017-03
53	J955-02	-.51676	.00113	-.00003	.00291	J955-02
54	J955-03	-.57177	.00118	.00006	.00053	J955-03
55	J955-04	670.89	.00074	.12814	.19775	J955-04

56	BLANK	-.22254	.00034	.00017	.00106	BLANK
57	ICSAF	-.32010	-.00076	-.00030	-.00609	ICSAF
58	ICSABF	79.572	.92272	.48509	1.0437	ICSABF
59	CCV5	48.566	.47542	.49232	.49987	CCV5
60	CCB5	-.58933*	.00081	-.00003	-.00153	CCB5
61	IPJ066SB	-.60405*	.00020	.00010	-.00152	IPJ066SB
62	IPJ066SL	46.174	.94069	.94001	1.0036	IPJ066SL
63	IPJ066SC	47.352	.94718	.97586	1.0079	IPJ066SC
64	J346-02M	45.751	.83947	1.1992	1.3488	J346-02M
65	J346-02S	44.943	.83686	1.1663	1.3359	J346-02S
66	J346-02A	49.221	.92071	1.2869	1.4371	J346-02A
67	J346-02	.36278	.00849	.37354	.45387	J346-02
68	J346-02J	-.47452	.00144	.07624	.08851	J346-02J
69	J346-01	9.2062	.00800	.39382	.39273	J346-01
70	BLANK	-.28514	.00125	.00007	.00164	BLANK
71	CCV6	48.075	.47558	.48410	.50767	CCV6
72	CCB6	-.65137*	.00100	-.00012	-.00111	CCB6
73	J346-03	.44891	.00842	.35113	.41387	J346-03
74	J346-04	.45649	.00838	.40590	.49857	J346-04
75	J346-05	1.6056	.00769	.51201	.51739	J346-05
76	J346-06	1.9406	.00787	.50322	.52535	J346-06
77	J346-07	2.8441	.00599	.56833	.53869	J346-07
78	J346-08	6.8036	.01168	.51472	.68111	J346-08
79	J346-09	6.2343	.00655	.52219	.44254	J346-09
80	J346-10	11.837	.00769	.86039	.85813	J346-10
81	J346-11	4.3339	.00669	.25346	.32242	J346-11
82	BLANK	-.67475	.00002	.00002	.00140	BLANK
83	CCV7	47.775	.47882	.48310	.50521	CCV7
84	CCB7	-.67790*	.00054	-.00004	-.00021	CCB7
85	J346-12	5.3727	.00572	.41208	.53243	J346-12
86	J346-13	6.5869	.00712	.38518	.65614	J346-13
87	K044-03	.20116	.00229	.03570	7.1226	K044-03
88	K044-16	.02402	.00288	.04019	66.270	K044-16
89	BLANK	-.70586	-.00004	-.00006	.00171	BLANK
90	CCV8	47.876	.47791	.48425	.50788	CCV8
91	CCB8	-.69688*	.00027	.00008	.00563	CCB8
92	IPK029SB	2289.4*	-.01304*	.00040	.01896*	IPK029SB
93	IPK029SL	49.935	.97426	.95952	1.0439	IPK029SL
94	IPK029SC	47.453	.95692	.94972	1.0328	IPK029SC
95	K191-01A	2335.4	.88410	.96675	1.7587	K191-01A
96	K191-01	2364.6	-.01233	.00428	.69383	K191-01
97	K191-01J	546.36	-.00169	.00084	.13505	K191-01J
98	K191-02	24.752	.02293	.56340	3.0964	K191-02
99	K191-03	16.849	.02806	.57959	2.4592	K191-03
100	BLANK	-.51011	.00098	-.00006	.00442	BLANK
101	CCV9	48.557	.48330	.48938	.51048	CCV9
102	CCB9	-.54262*	.00077	-.00001	-.00159	CCB9
103	IPK025WB	-.57734*	.00042	-.00002	-.00120	IPK025WB
104	WTK001SB	-.58200*	.00102	-.00017	-.00157	WTK001SB
105	IPK025WL	46.175	.94369	.93738	1.0088	IPK025WL
106	IPK025WC	47.065	.96204	.95749	1.0306	IPK025WC
107	J951-01A	62.195	.93984	1.4610	3.8956	J951-01A
108	J951-01	13.395	.02111	.55031	2.9639	J951-01
109	J951-01J	2.0464	.00440	.11406	.58030	J951-01J
110	J951-02	2210.5	-.01577	.01080	.97481	J951-02
111	BLANK	.08510	.00064	.00024	.00029	BLANK
112	CCV10	48.599	.48003	.48484	.50711	CCV10
113	CCB10	-.39466*	.00104	-.00016	-.00184	CCB10

114	J331-01	1736.6	-.00056	-.00034	.00665	J331-01
115	J347-04	113.31	.00084	.00026	.00292	J347-04
116	J347-06	243.52	.00045	-.00018	.00009	J347-06
117	J347-11M	751.77	.04831	.05164	.05861	J347-11M
118	J347-11S	749.98	.04747	.05141	.05698	J347-11S
119	J347-11A	771.97	.89207	.96771	1.0688	J347-11A
120	J347-11	747.92	-.00037	-.00014	.00020	J347-11
121	J347-11J	157.37	.00093	-.00005	-.00063	J347-11J
122	J347-07	244.60	.00060	.00010	.00013	J347-07
123	BLANK	-.35377	.00100	-.00003	.00183	BLANK
124	CCV11	49.607	.48442	.49272	.51433	CCV11
125	CCB11	-.49176*	.00099	-.00009	-.00179	CCB11
126	J347-08	159.90	.00033	-.00001	-.00034	J347-08
127	J347-09	271.09	.00062	.00000	.00153	J347-09
128	J347-10	189.63	.00047	.00002	.00029	J347-10
129	J347-12	126.08	.00080	-.00004	-.00077	J347-12
130	BLANK	-.48591	.00047	-.00013	-.00108	BLANK
131	CCV12	48.845	.47673	.48543	.50681	CCV12
132	CCB12	-.55055*	.00093	.00005	-.00139	CCB12
INDX	LSID	Na	Tl	V	Zn	LSID

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Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation
Al 308.215 {109}	11/15/2007 10:10:59	Linear	1/Conc	0.001693	0.025588	0.000000	1.000000	1.000000
Sb 206.833 {463}	11/15/2007 10:10:59	Linear	1/Conc	0.000020	0.007688	0.000000	1.000000	1.000000
As 189.042 {478}	11/15/2007 10:10:59	Linear	1/Conc	-0.000022	0.004911	0.000000	1.000000	1.000000
Ba 455.403 { 74}	11/15/2007 10:10:59	Linear	1/Conc	0.001985	0.916309	0.000000	1.000000	1.000000
Be 313.042 {108}	11/15/2007 10:10:59	Linear	1/Conc	0.000036	0.721217	0.000000	1.000000	1.000000
B 249.773 {135}	11/15/2007 10:10:59	Linear	1/Conc	0.000104	0.097187	0.000000	1.000000	1.000000
Cd 226.502 {449}	11/15/2007 10:10:59	Linear	1/Conc	-0.000065	2.543757	0.000000	1.000000	1.000000
Ca 317.933 {106}	11/15/2007 10:10:59	Linear	1/Conc	0.004858	0.015665	0.000000	1.000000	1.000000
Cr 267.716 {126}	11/15/2007 10:10:59	Linear	1/Conc	0.000119	0.168733	0.000000	1.000000	1.000000
Co 228.616 {447}	11/15/2007 10:10:59	Linear	1/Conc	-0.000221	0.708850	0.000000	1.000000	1.000000
Cu 324.754 {104}	11/15/2007 10:10:59	Linear	1/Conc	0.005756	3.326001	0.000000	1.000000	1.000000
Fe 271.441 {124}	11/15/2007 10:10:59	Linear	1/Conc	-0.000002	0.007098	0.000000	1.000000	1.000000
Pb 220.353 {453}	11/15/2007 10:10:59	Linear	1/Conc	0.000077	0.188919	0.000000	1.000000	1.000000
Li 670.784 { 50}	2/2/2007 14:25:23	Linear	1/Conc	0.002046	0.234028	0.000000	1.000000	1.000000
Mg 279.079 {121}	11/15/2007 10:10:59	Linear	1/Conc	0.000191	0.001506	0.000000	1.000000	1.000000
Mn 257.610 {131}	11/15/2007 10:10:59	Linear	1/Conc	0.000124	0.056534	0.000000	1.000000	1.000000
Mo 202.030 {467}	11/15/2007 10:10:59	Linear	1/Conc	0.000024	0.719659	0.000000	1.000000	1.000000
Ni 231.604 {446}	11/15/2007 10:10:59	Linear	1/Conc	-0.000431	0.653023	0.000000	1.000000	1.000000
K 766.490 { 44}	11/15/2007 10:10:59	Linear	1/Conc	-0.000516	0.031397	0.000000	1.000000	1.000000
Se 196.090 {472}	11/15/2007 10:10:59	Linear	1/Conc	0.000013	0.004796	0.000000	1.000000	1.000000
Si 212.412 {459}	2/2/2007 14:25:23	Linear	1/Conc	0.006974	0.273496	0.000000	1.000000	1.000000
Ag 328.068 {103}	11/15/2007 10:10:59	Linear	1/Conc	0.000150	0.201379	0.000000	1.000000	1.000000
Na 589.592 { 57}	11/15/2007 10:10:59	Linear	1/Conc	0.060799	0.084366	0.000000	1.000000	1.000000
Sr 421.552 { 80}	11/15/2007 10:10:59	Linear	1/Conc	0.003896	1.012272	0.000000	1.000000	1.000000
Tl 190.856 {477}	11/15/2007 10:10:59	Linear	1/Conc	-0.000570	0.140233	0.000000	1.000000	1.000000
Sn 189.989 {477}	11/15/2007 10:10:59	Linear	1/Conc	0.000089	0.147032	0.000000	1.000000	1.000000
Ti 334.941 {101}	11/15/2007 10:10:59	Linear	1/Conc	-0.000066	0.064737	0.000000	1.000000	1.000000
U 409.014 { 82}	2/2/2007 14:25:23	Linear	1/Conc	0.000061	0.011861	0.000000	1.000000	1.000000
V 292.402 {115}	11/15/2007 10:10:59	Linear	1/Conc	-0.000154	0.159518	0.000000	1.000000	1.000000
Zn 206.200 {463}	11/15/2007 10:10:59	Linear	1/Conc	0.002271	0.843658	0.000000	1.000000	1.000000
Sc 227.318 {448}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
Sc 361.384 { 93}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
Sc 364.531 { 92}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000

	Element, Wavelength and Order	Std Error of Est	MDL	MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
	Al 308.215 {109}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Fe 271.441 {124}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ni 231.604 {446}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	K 766.490 { 44}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ag 328.068 {103}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	U 409.014 { 82}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sc 227.318 {448}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
	Sc 361.384 { 93}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
	Sc 364.531 { 92}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No.4 ☐ EMAX-3010 Rev. No. 3 ☑ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: SOIL Start Date: 10-31-07 Time: 13:00 Temp: 90 °C Ending Date: 10-31-07 Time: 17:00 Temp.: 90 °C

BATCH: IPJ066-S

Sample Prep ID	Lab Sample ID (10 mc)	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | mL)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPJ066-SB					–	N/A	100		
02	-SL					–		100		
03	-SC					–		100		
04	J346-01					1.001		100		
05	-02					1.002		100		
06	-02M					1.003		100		
07	-02S					1.003		100		
08	-03					1.000		100		
09	-04					1.001		100		
10	-05					1.002		100		
11	-06					1.000		100		
12	-07					1.001		100		
13	-08					1.002		100		
14	-09					1.003		100		
15	-10					1.002		100		
16	-11					1.003		100		
17	-12					1.002		100		
18	-13					1.001		100		
19										
20										
21										
22										
23										
24										
25										

10-31-07 MC

Standards	ID	Amount Added (ml)
LCS -1	SMIA-10-99	1.0
LCS -2	SMIA-10-98	1.0
LCS -3	SMIA-10-97	1.0
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SWIA-03-645	10.0
HCl	SWIA-03-612	10.0
H_2O_2	SWIA-03-573	10.0
HNO3 (1:1)	SMSB-02-69	10.0

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 10/31/07

Checked By: CPC

Date Disposed: Disposed by:

7049

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J346**

METHOD 7471A
MERCURY BY COLD VAPOR

Thirteen (13) soil samples were received on 10/26/07 for Mercury analysis by Method 7471A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution/Post-Analytical Spike

Sample J346-01 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

MS/MSD sample was not designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

All samples were received out of cooler temperature requirement. Samples were analyzed as per Client's instruction.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J346
Instrument ID : TI047

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGJ056SB	1	NA	10/31/0718:54	10/31/0714:00	M47J036063	M47J036056	HGJ056S	Method Blank
LCS1S	HGJ056SL	1	NA	10/31/0718:56	10/31/0714:00	M47J036064	M47J036056	HGJ056S	Lab Control Sample (LCS)
LCD1S	HGJ056SC	1	NA	10/31/0718:58	10/31/0714:00	M47J036065	M47J036056	HGJ056S	LCS Duplicate
SB5-50'AS	J346-01A	1	8.6	10/31/0719:00	10/31/0714:00	M47J036066	M47J036056	HGJ056S	Analytical Spike Sample
SB5-50'	J346-01	1	8.6	10/31/0719:02	10/31/0714:00	M47J036067	M47J036056	HGJ056S	Field Sample
SB5-50'DL	J346-01J	5	8.6	10/31/0719:08	10/31/0714:00	M47J036070	M47J036068	HGJ056S	Diluted Sample
SB4-0.5'	J346-02	1	3.1	10/31/0719:10	10/31/0714:00	M47J036071	M47J036068	HGJ056S	Field Sample
SB4-5'	J346-03	1	5.2	10/31/0719:12	10/31/0714:00	M47J036072	M47J036068	HGJ056S	Field Sample
SB4-5'-DUP	J346-04	1	5.1	10/31/0719:15	10/31/0714:00	M47J036073	M47J036068	HGJ056S	Field Sample
SB4-10'	J346-05	1	10.5	10/31/0719:17	10/31/0714:00	M47J036074	M47J036068	HGJ056S	Field Sample
SB4-15'	J346-06	1	7.4	10/31/0719:19	10/31/0714:00	M47J036075	M47J036068	HGJ056S	Field Sample
SB4-20'	J346-07	1	6.7	10/31/0719:21	10/31/0714:00	M47J036076	M47J036068	HGJ056S	Field Sample
SB4-25'	J346-08	1	7.3	10/31/0719:23	10/31/0714:00	M47J036077	M47J036068	HGJ056S	Field Sample
SB4-30'	J346-09	1	6.2	10/31/0719:25	10/31/0714:00	M47J036078	M47J036068	HGJ056S	Field Sample
SB4-35'	J346-10	1	9.5	10/31/0719:27	10/31/0714:00	M47J036079	M47J036068	HGJ056S	Field Sample
SB4-40'	J346-11	1	6.7	10/31/0719:34	10/31/0714:00	M47J036082	M47J036080	HGJ056S	Field Sample
SB4-45'	J346-12	1	7.2	10/31/0719:36	10/31/0714:00	M47J036083	M47J036080	HGJ056S	Field Sample
SB4-50'	J346-13	1	9.5	10/31/0719:38	10/31/0714:00	M47J036084	M47J036080	HGJ056S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7471A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J346

Matrix : SOIL
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGJ056SB	ND	1	NA	0.100	0.0330	10/31/0718:54	10/31/0714:00	M47J036063	M47J036056	HGJ056S	NA	10/31/07
LCS1S	HGJ056SL	0.838	1	NA	0.100	0.0330	10/31/0718:56	10/31/0714:00	M47J036064	M47J036056	HGJ056S	NA	10/31/07
LCD1S	HGJ056SC	0.837	1	NA	0.100	0.0330	10/31/0718:58	10/31/0714:00	M47J036065	M47J036056	HGJ056S	NA	10/31/07
SB5-50'AS	J346-01A	0.341	1	8.6	0.109	0.0361	10/31/0719:00	10/31/0714:00	M47J036066	M47J036056	HGJ056S	10/25/07	10/26/07
SB5-50'	J346-01	ND	1	8.6	0.109	0.0361	10/31/0719:02	10/31/0714:00	M47J036067	M47J036056	HGJ056S	10/25/07	10/26/07
SB5-50'DL	J346-01J	ND	5	8.6	0.547	0.181	10/31/0719:08	10/31/0714:00	M47J036070	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-0.5'	J346-02	ND	1	3.1	0.103	0.0341	10/31/0719:10	10/31/0714:00	M47J036071	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-5'	J346-03	ND	1	5.2	0.105	0.0348	10/31/0719:12	10/31/0714:00	M47J036072	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-5'-DUP	J346-04	ND	1	5.1	0.105	0.0348	10/31/0719:15	10/31/0714:00	M47J036073	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-10'	J346-05	ND	1	10.5	0.112	0.0369	10/31/0719:17	10/31/0714:00	M47J036074	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-15'	J346-06	ND	1	7.4	0.108	0.0356	10/31/0719:19	10/31/0714:00	M47J036075	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-20'	J346-07	ND	1	6.7	0.107	0.0354	10/31/0719:21	10/31/0714:00	M47J036076	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-25'	J346-08	ND	1	7.3	0.108	0.0356	10/31/0719:23	10/31/0714:00	M47J036077	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-30'	J346-09	ND	1	6.2	0.107	0.0352	10/31/0719:25	10/31/0714:00	M47J036078	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-35'	J346-10	ND	1	9.5	0.110	0.0365	10/31/0719:27	10/31/0714:00	M47J036079	M47J036068	HGJ056S	10/25/07	10/26/07
SB4-40'	J346-11	ND	1	6.7	0.107	0.0354	10/31/0719:34	10/31/0714:00	M47J036082	M47J036080	HGJ056S	10/25/07	10/26/07
SB4-45'	J346-12	ND	1	7.2	0.108	0.0356	10/31/0719:36	10/31/0714:00	M47J036083	M47J036080	HGJ056S	10/25/07	10/26/07
SB4-50'	J346-13	ND	1	9.5	0.110	0.0365	10/31/0719:38	10/31/0714:00	M47J036084	M47J036080	HGJ056S	10/25/07	10/26/07

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J346
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGJ056SB	HGJ056SL	HGJ056SC		
LAB FILE ID:	M47J036063	M47J036064	M47J036065		
DATIME EXTRCTD:	10/31/0714:00	10/31/0714:00	10/31/0714:00	DATE COLLECTED:	NA
DATIME ANALYZD:	10/31/0718:54	10/31/0718:56	10/31/0718:58	DATE RECEIVED:	10/31/07
PREP. BATCH:	HGJ056S	HGJ056S	HGJ056S		
CALIB. REF:	M47J036056	M47J036056	M47J036056		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.838	101	0.833	0.837	100	0	80-120	20

7053

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J346
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	8.6
DILUTION FACTOR:	1	5		
SAMPLE ID:	SB5-50'	SB5-50'DL		
EMAX SAMP ID:	J346-01	J346-01J		
LAB FILE ID:	M47J036067	M47J036070		
DATE EXTRACTED:	10/31/0714:00	10/31/0714:00	DATE COLLECTED:	10/25/07
DATE ANALYZED:	10/31/0719:02	10/31/0719:08	DATE RECEIVED:	10/26/07
PREP. BATCH:	HGJ056S	HGJ056S		
CALIB. REF:	M47J036056	M47J036068		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

7051

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J346
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	8.6
DILTN FACTR:	1	1		
SAMPLE ID:	SB5-50'			
CONTROL NO.:	J346-01	J346-01A		
LAB FILE ID:	M47J036067	M47J036066		
DATIME EXTRCTD:	10/31/0714:00	10/31/0714:00	DATE COLLECTED:	10/25/07
DATIME ANALYZD:	10/31/0719:02	10/31/0719:00	DATE RECEIVED:	10/26/07
PREP. BATCH:	HGJ056S	HGJ056S		
CALIB. REF:	M47J036056	M47J036056		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Mercury	ND	0.364	0.341	94	85-115

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 10/31/07 **Start Time:** 16:45

End Date: 10/31/07 **End Time:** 19:42

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47J036

Method File: Hg

Comments:

QC OK

SOP #	Rev. #
☐ EMAX-7470	3
☑ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-701
S3	↓
S4	
S5	
S6	
ICV	SM3B-07-702
CCV	↓
LCS	
Analytical Spike	
	SM3B-07-685

Analyzed By: NT

Date: 10/31/07

"M47J036"

EMAX1fid	EMAX1sid	conc	Raw_resp	rsd/rf	adatetime	DF
M47J036000	STD1REP1	0	1156		10/31/0716:45	1
M47J036001	STD2REP1	.2	17777		10/31/0716:47	1
M47J036002	STD3REP1	1	80394		10/31/0716:49	1
M47J036003	STD4REP1	2	158771		10/31/0716:51	1
M47J036004	STD5REP1	5	380158		10/31/0716:53	1
M47J036005	STD6REP1	10	733528		10/31/0716:55	1
M47J036006	ICV	2.12	161693	0	10/31/0716:58	1
M47J036007	ICB	-.017	5330	0	10/31/0717:00	1
M47J036008	CCV1	5.22	388376	0	10/31/0717:02	1
M47J036009	CCB1	-.023	4857	0	10/31/0717:04	1
M47J036010	HGJ054SB	-.009	5917	0	10/31/0717:06	1
M47J036011	HGJ054SL	5.16	384522	0	10/31/0717:08	1
M47J036012	HGJ054SC	5.15	383923	0	10/31/0717:10	1
M47J036013	J319-04A	2.28	173585	0	10/31/0717:12	1
M47J036014	J319-04	.32	30007	0	10/31/0717:14	1
M47J036015	J319-04J	.053	10425	0	10/31/0717:16	5
M47J036016	J319-04M	5.5	409005	0	10/31/0717:18	1
M47J036017	J319-04S	5.74	427139	0	10/31/0717:20	1
M47J036018	J319-05	.299	28482	0	10/31/0717:22	1
M47J036019	J319-06	.309	29196	0	10/31/0717:24	1
M47J036020	CCV2	5.23	389518	0	10/31/0717:26	1
M47J036021	CCB2	-.035	3978	0	10/31/0717:28	1
M47J036022	J319-07	.194	20745	0	10/31/0717:30	1
M47J036023	J319-08	.04	9502	0	10/31/0717:32	1
M47J036024	J319-09	.183	19948	0	10/31/0717:34	1
M47J036025	J319-10	.059	10891	0	10/31/0717:36	1
M47J036026	J319-11	.087	12890	0	10/31/0717:38	1
M47J036027	J319-12	.01	7274	0	10/31/0717:40	1
M47J036028	J319-13	.239	24045	0	10/31/0717:42	1
M47J036029	J319-14	.041	9579	0	10/31/0717:44	1
M47J036030	J319-15	.11	14636	0	10/31/0717:46	1
M47J036031	J319-16	.006	7020	0	10/31/0717:48	1
M47J036032	CCV3	5.23	389251	0	10/31/0717:51	1
M47J036033	CCB3	-.036	3903	0	10/31/0717:53	1
M47J036034	J319-17	.092	13300	0	10/31/0717:55	1
M47J036035	J319-18	.068	11526	0	10/31/0717:57	1
M47J036036	J319-20	1.35	105456	0	10/31/0717:59	1
M47J036037	J361-01	-.008	6007	0	10/31/0718:00	1
M47J036038	J361-02	-.008	5989	0	10/31/0718:03	1
M47J036039	J361-03	.382	34495	0	10/31/0718:05	1
M47J036040	J361-04	.363	33130	0	10/31/0718:07	1
M47J036041	HGJ055SB	-.035	4000	0	10/31/0718:09	1
M47J036042	HGJ055SL	5.11	380888	0	10/31/0718:11	1
M47J036043	HGJ055SC	5.09	378895	0	10/31/0718:13	1
M47J036044	CCV4	5.17	385384	0	10/31/0718:15	1
M47J036045	CCB4	-.03	4390	0	10/31/0718:17	1
M47J036046	J344-07A	1.98	151756	0	10/31/0718:19	1
M47J036047	J344-07	.046	9904	0	10/31/0718:21	1
M47J036048	J344-07J	.019	7953	0	10/31/0718:23	5
M47J036049	J344-07M	5.23	389432	0	10/31/0718:25	1
M47J036050	J344-07S	5.15	383595	0	10/31/0718:27	1
M47J036051	J344-03	.028	8577	0	10/31/0718:29	1
M47J036052	J344-04	.025	8392	0	10/31/0718:31	1
M47J036053	J344-05	.011	7379	0	10/31/0718:33	1
M47J036054	J344-06	.005	6911	0	10/31/0718:35	1
M47J036055	J344-08	.065	11292	0	10/31/0718:37	1
M47J036056	CCV5	5.11	380810	0	10/31/0718:39	1
M47J036057	CCB5	-.029	4465	0	10/31/0718:41	1
M47J036058	J344-09	.026	8458	0	10/31/0718:43	1
M47J036059	J344-10	.012	7460	0	10/31/0718:45	1
M47J036060	J344-11	.006	7010	0	10/31/0718:47	1
M47J036061	J344-12	-.016	5414	0	10/31/0718:49	1
M47J036062	J370-01	.004	6879	0	10/31/0718:52	1
M47J036063	HGJ056SB	-.029	4402	0	10/31/0718:54	1
M47J036064	HGJ056SL	5.03	375134	0	10/31/0718:56	1
M47J036065	HGJ056SC	5.02	373766	0	10/31/0718:58	1
M47J036066	J346-01A	1.87	143223	0	10/31/0719:00	1
M47J036067	J346-01	-.018	5221	0	10/31/0719:02	1
M47J036068	CCV6	5.09	379492	0	10/31/0719:04	1
M47J036069	CCB6	-.021	5011	0	10/31/0719:06	1
M47J036070	J346-01J	-.019	5195	0	10/31/0719:08	5
M47J036071	J346-02	.008	7148	0	10/31/0719:10	1
M47J036072	J346-03	-.001	6518	0	10/31/0719:12	1
M47J036073	J346-04	.007	7105	0	10/31/0719:15	1
M47J036074	J346-05	.025	8402	0	10/31/0719:17	1

M47J036075	J346-06	.142	16975	0	10/31/0719:19	1
M47J036076	J346-07	.069	11613	0	10/31/0719:21	1
M47J036077	J346-08	.09	13137	0	10/31/0719:23	1
M47J036078	J346-09	.085	12790	0	10/31/0719:25	1
M47J036079	J346-10	.094	13472	0	10/31/0719:27	1
M47J036080	CCV7	5.01	373571	0	10/31/0719:29	1
M47J036081	CCB7	-.046	3182	0	10/31/0719:31	1
M47J036082	J346-11	.006	7000	0	10/31/0719:34	1
M47J036083	J346-12	.032	8931	0	10/31/0719:36	1
M47J036084	J346-13	.048	10055	0	10/31/0719:38	1
M47J036085	CCV8	5.04	375891	0	10/31/0719:40	1
M47J036086	CCB8	-.049	2968	0	10/31/0719:42	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47J036000	BLANK	-9.078731E-02	6644.034	.9998028	10/31/0719:42	1

RunProt: HGCOM

RunFold: M47J036 Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 16:56:28 31 Oct 2007 Xmit: Off Gas: 0.35 LPM

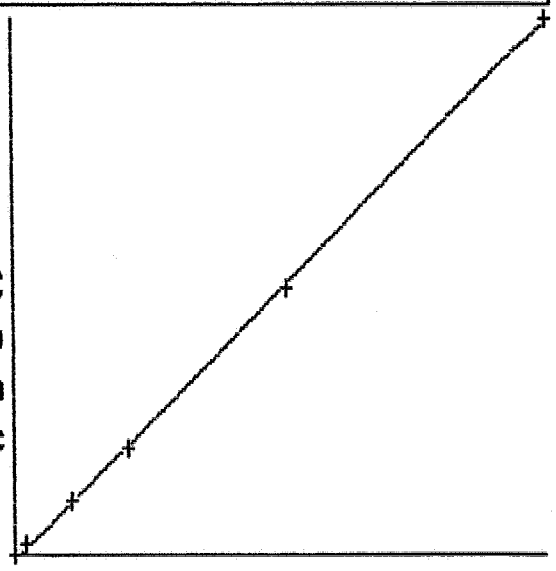
State: Idle User: MTNTH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	-.074	-.074	Quadratic
S2	.200	.153	-.047	Wtdlinear
S3	1.00	1.01	.009	C
S4	2.00	2.08	.079	Accept o
S5	5.00	5.10	.103	n
S6	10.0	9.93	-.070	c

A .0000000 r .999803

B 1.36591e-5 C -8.95553e-2



Relative Absorbance

	Mean		
S1	1156	0 SD	1156
S2	17777	0 %RSD	17777
S3	80394	0 %RSD	80394
S4	158771	0 %RSD	158771
S5	300158	0 %RSD	300158
S6	733528	0 %RSD	733528

New cal coefficients stored

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☑ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Soil Start Date: 10/31/07 Time: 14:00 Ending Date: 10/31/07 Time: 15:00 Book # E47-058

BATCH: HGJ0565

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g / ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	100	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGJ0565B				0.600g					
12	SL				0.600					
13	SC				0.600					
14	J346-01	Bn	Fn		0.603					
15	02				0.602					
16	03				0.600					
17	04				0.603					
18	05				0.603					
19	06				0.602					
20	07				0.601					
21	08				0.601					
22	09				0.604					
23	10				0.601					
24	11				0.600					
25	12				0.600					
26	13				0.603					
27										
28			NT	10/31/07						

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL	SMBB-07-701	100	0.2, 1, 2, 5, 10
ICV	SMBB-07-702		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3 / aqua	SWIA-03-601		
HCl / regia	SWIA-03-612		
H_2SO_4	N/A		
$KMnO_4$	SMSB-02-74		
$K_2S_2O_8$	N/A		
$NH_2OH.HCl$	SMSB-02-75		
$SnCl_2$	68		

Temp of Digestion Bath: 95 °C

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7999

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 314.0
PERCHLORATE

SDG#: 07J346

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J346**

METHOD 314.0
PERCHLORATE

Thirteen (13) soil samples were received on 10/26/07 for Perchlorate analysis by Method 314.0 in accordance with "Method for Determination of Perchlorate by Ion Chromatography", EPA 600/98-118.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at half of the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control sample results were within QC limits.

4. Duplicate

Duplicate sample was not designated in this SDG.

5. Matrix Spike

MS sample was not designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

All samples were received out of cooler temperature requirement. Samples were analyzed as per Client's instruction.

SAMPLE

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J346

Matrix : SOIL
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PCK002SB	ND	1	NA	20.0	10.0	11/03/0706:44	11/01/0713:30	JK02035	JK02034	PCK002S	NA	11/01/07
LCS1S	PCK002SL	224	1	NA	20.0	10.0	11/03/0707:26	11/01/0713:30	JK02037	JK02034	PCK002S	NA	11/01/07
LCD1S	PCK002SC	221	1	NA	20.0	10.0	11/03/0707:47	11/01/0713:30	JK02038	JK02034	PCK002S	NA	11/01/07
SB4-0.5'	J346-02	ND	1	3.1	20.6	10.3	11/03/0712:42	11/01/0713:30	JK02052	JK02045	PCK002S	10/25/0714:48	10/26/07
MBLK2S	PCK004SB	ND	1	NA	20.0	10.0	11/07/0712:27	11/06/0713:30	JK06056	JK06055	PCK004S	NA	11/06/07
LCS2S	PCK004SL	220	1	NA	20.0	10.0	11/07/0713:09	11/06/0713:30	JK06058	JK06055	PCK004S	NA	11/06/07
LCD2S	PCK004SC	217	1	NA	20.0	10.0	11/07/0713:30	11/06/0713:30	JK06059	JK06055	PCK004S	NA	11/06/07
SB4-5'	J346-03	14.7J	1	5.2	21.1	10.5	11/07/0713:51	11/06/0713:30	JK06060	JK06055	PCK004S	10/25/0714:52	10/26/07
SB4-5'-DUP	J346-04	ND	1	5.1	21.1	10.5	11/07/0714:12	11/06/0713:30	JK06061	JK06055	PCK004S	10/25/0714:53	10/26/07
SB4-10'	J346-05	ND	1	10.5	22.3	11.2	11/07/0714:33	11/06/0713:30	JK06062	JK06055	PCK004S	10/25/0715:00	10/26/07
SB4-15'	J346-06	ND	1	7.4	21.6	10.8	11/07/0714:54	11/06/0713:30	JK06063	JK06055	PCK004S	10/25/0715:08	10/26/07
SB4-20'	J346-07	ND	1	6.7	21.4	10.7	11/07/0715:15	11/06/0713:30	JK06064	JK06055	PCK004S	10/25/0715:18	10/26/07
SB4-25'	J346-08	ND	1	7.3	21.6	10.8	11/07/0716:18	11/06/0713:30	JK06067	JK06066	PCK004S	10/25/0715:23	10/26/07
SB4-30'	J346-09	ND	1	6.2	21.3	10.7	11/07/0716:39	11/06/0713:30	JK06068	JK06066	PCK004S	10/25/0715:30	10/26/07
SB4-35'	J346-10	ND	1	9.5	22.1	11.0	11/07/0717:00	11/06/0713:30	JK06069	JK06066	PCK004S	10/25/0715:37	10/26/07
SB4-40'	J346-11	16.6J	1	6.7	21.4	10.7	11/07/0717:22	11/06/0713:30	JK06070	JK06066	PCK004S	10/25/0715:48	10/26/07
SB5-50'	J346-01	16600	100	8.6	2190	1090	11/08/0708:30	11/01/0713:30	JK06101	JK06094	PCK002S	10/25/0714:03	10/26/07
SB4-45'	J346-12	889	10	7.2	216	108	11/08/0708:57	11/06/0713:30	JK06102	JK06094	PCK004S	10/25/0716:00	10/26/07
SB4-50'	J346-13	1480	20	9.5	442	221	11/08/0709:18	11/06/0713:30	JK06103	JK06094	PCK004S	10/25/0716:02	10/26/07

QC SUMMARY

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J346
METHOD: METHOD 314.0

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	PCK002SB	PCK002SL	PCK002SC		
LAB FILE ID:	JK02035	JK02037	JK02038		
DATE EXTRACTED:	11/01/0713:30	11/01/0713:30	11/01/0713:30	DATE COLLECTED:	NA
DATE ANALYZED:	11/03/0706:44	11/03/0707:26	11/03/0707:47	DATE RECEIVED:	11/01/07
PREP. BATCH:	PCK002S	PCK002S	PCK002S		
CALIB. REF:	JK02034	JK02034	JK02034		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	250	224	90	250	221	88	1	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J346
METHOD: METHOD 314.0

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	PCK004SB	PCK004SL	PCK004SC		
LAB FILE ID:	JK06056	JK06058	JK06059		
DATE EXTRACTED:	11/06/0713:30	11/06/0713:30	11/06/0713:30	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0712:27	11/07/0713:09	11/07/0713:30	DATE RECEIVED:	11/06/07
PREP. BATCH:	PCK004S	PCK004S	PCK004S		
CALIB. REF:	JK06055	JK06055	JK06055		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	250	220	88	250	217	87	1	85-115	20

INITIAL CALIBRATION

IC SEQ FORM (ESD)

LFID	LSID	SELCOMP	METHOD	DateTime	DF
JI07001	IB	P	IC57I07	09/07/0712:02	1
JI07002	S-0.0	P	IC57I07	09/07/0712:23	1
JI07003	S-2.0	P	IC57I07	09/07/0712:44	1
JI07004	S-4.0	P	IC57I07	09/07/0713:06	1
JI07005	S-10.0	P	IC57I07	09/07/0713:27	1
JI07006	S-25.0	P	IC57I07	09/07/0713:48	1
JI07007	S-30.0	P	IC57I07	09/07/0714:09	1
JI07008	ICV	P	IC57I07	09/07/0714:30	1
JI07009	ICB	P	IC57I07	09/07/0715:14	1

pw 9-7-07

8008

Method : c:\ezchrom\methods\ic57i07.met
Printed : Sep 07, 2007 15:50:05
Channel : A
Peak : PERCHLORATE

* - Replicate Not Used

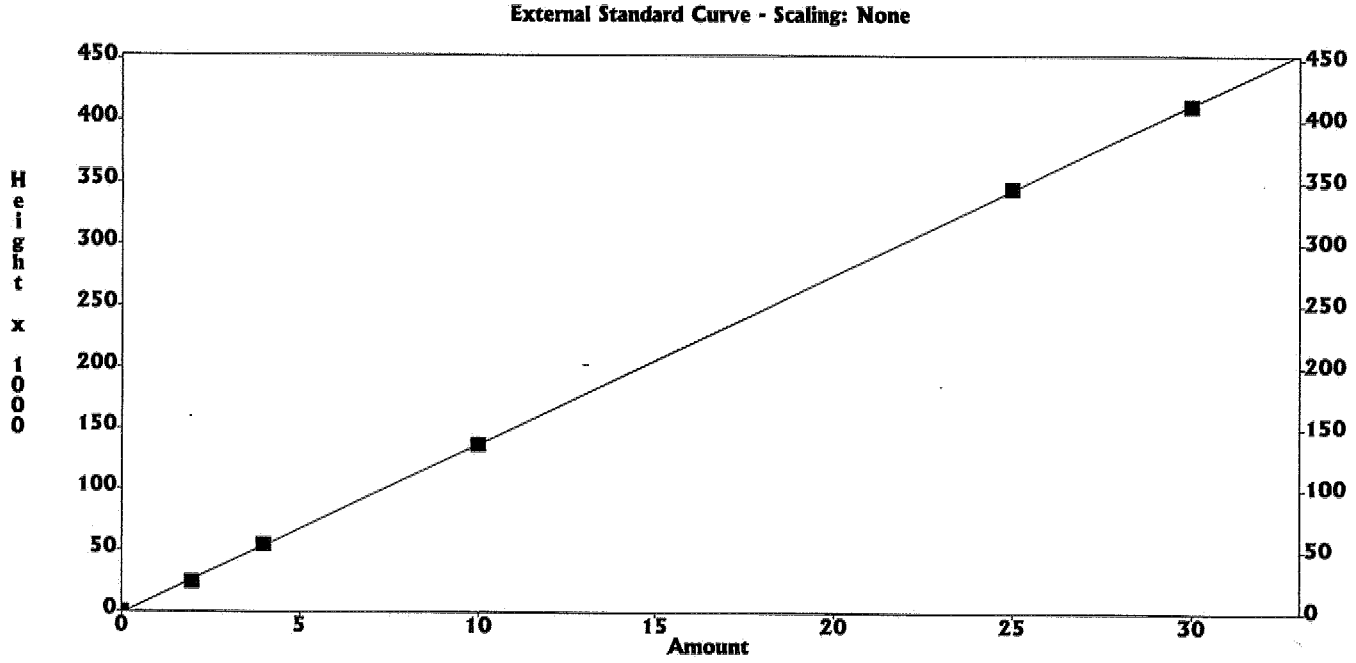
Level	Height	Amount	RF	Rep Hgt 1	Rep Hgt 2	Rep Hgt 3	Rep Hgt 4	Rep Hgt 5	Replic STD	Replic %RSD	Old Height
2	24283	2	12141.50	24283							0
3	54790	4	13697.50	54790							0
4	137022	10	13702.20	137022							0
5	345226	25	13809.04	345226							0
6	412192	30	13739.73	412192							0

Calib Flag: Replace

Average RF: 13418
RF StdDev: 714.977
RF %RSD: 5.328

RF Definition: Height / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 7.22736e-005 x Height + 0.128135
R^2 = 0.999945



RW 9-7-07

8009

SECOND SOURCE

IC RESULT FORM CalVersion: PCHLO314.I07/JI07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JI07001	IB	P	.000	09/07/0712:02	1
JI07002	S-0.0	P	.0000	09/07/0712:23	1
JI07003	S-2.0	P	2	09/07/0712:44	1
JI07004	S-4.0	P	4	09/07/0713:06	1
JI07005	S-10.0	P	10	09/07/0713:27	1
JI07006	S-25.0	P	25	09/07/0713:48	1
JI07007	S-30.0	P	30	09/07/0714:09	1
JI07008	ICV	P	95%	09/07/0714:30	1
JI07009	ICB	P	.000	09/07/0715:14	1

DAILY CALIBRATION

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK02001	IPCS	P	84.6%	11/02/0718:17	1
JK02002	PCK001SB	P	.000	11/02/0718:44	1
JK02003	MRL	P	102%	11/02/0719:12	1
JK02004	PCK001SL	P	22.1	11/02/0719:52	1
JK02005	PCK001SC	P	22	11/02/0720:13	1
JK02006	J344-03	P	4.63	11/02/0720:34	1
JK02007	J344-04	P	5.16	11/02/0720:55	1
JK02008	J344-05	P	3.73	11/02/0721:16	1
JK02009	J344-06	P	9.94	11/02/0721:38	1
JK02010	J344-08	*	.000	11/02/0721:59	1
JK02011	RINSE	P	.000	11/02/0722:20	1
JK02012	CCV44-30	P	86.3%*	11/02/0722:41	1
JK02013	J344-07	*	.000	11/02/0723:02	1
JK02014	J344-07D	*	.000	11/02/0723:23	1
JK02015	J344-07M	*	.000	11/02/0723:44	1
JK02016	J344-09	*	.000	11/03/0700:05	1
JK02017	J344-10	P	20.5	11/03/0700:26	1
JK02018	J344-11	P	27.2	11/03/0700:47	1
JK02019	J344-12	P	.000	11/03/0701:08	1
JK02020	J345-03	P	.000	11/03/0701:29	1
JK02021	J345-04	P	1.97	11/03/0701:50	1
JK02022	RINSE	P	.000	11/03/0702:11	1
JK02023	CCV45-15	P	87.7%*	11/03/0702:32	1
JK02024	J345-05	P	1.79	11/03/0702:53	1
JK02025	J345-06	*	.000	11/03/0703:14	1
JK02026	J345-07	*	.000	11/03/0703:35	1
JK02027	J345-08	*	.000	11/03/0703:56	1
JK02028	J345-09	*	.000	11/03/0704:17	1
JK02029	J345-10	*	.000	11/03/0704:38	1
JK02030	J345-11	P	2.67	11/03/0704:59	1
JK02031	J345-12	P	2.98	11/03/0705:20	1
JK02032	RINSE	P	.000	11/03/0705:41	1
JK02033	CCV46-30	P	86.1%*	11/03/0706:02	1
JK02034	IPCS	P	81.3%	11/03/0706:23	1
JK02035	PCK002SB	P	.000	11/03/0706:44	1
JK02036	MRL	P	101%	11/03/0707:05	1
JK02037	PCK002SL	P	22.4	11/03/0707:26	1
JK02038	PCK002SC	P	22.1	11/03/0707:47	1
JK02039	J345-13	P	28	11/03/0708:08	1
JK02040	J345-14	P	11.9	11/03/0708:29	1
JK02041	J345-15	*	.000	11/03/0708:51	1
JK02042	J345-16	*	61.6E	11/03/0709:12	1
JK02043	J345-17	*	.000	11/03/0709:33	1
JK02044	RINSE	P	.000	11/03/0709:54	1
JK02045	CCV47-15	P	87.9%*	11/03/0710:15	1
JK02046	J345-18	*	.000	11/03/0710:36	1
JK02047	J345-19	*	.000	11/03/0710:57	1
JK02048	J345-20	*	.000	11/03/0711:18	1
JK02049	J345-20D	*	.000	11/03/0711:39	1
JK02050	J345-20M	*	.000	11/03/0712:00	1
JK02051	J346-01	*	.000	11/03/0712:21	1
JK02052	J346-02	P	.000	11/03/0712:42	1
JK02053	RINSE	P	.000	11/03/0713:03	1
JK02054	CCV48-30	P	86.8%*	11/03/0713:24	1

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK06001	IPCS	P	84.5%	11/06/0714:16	1
JK06002	PCK003WB	P	.000	11/06/0714:37	1
JK06003	MRL	P	102%	11/06/0714:58	1
JK06004	PCK003WL	P	22.3	11/06/0715:19	1
JK06005	PCK003WC	P	23.1	11/06/0715:40	1
JK06006	J344-02	P	.000	11/06/0716:15	1
JK06007	J345-02	P	.000	11/06/0716:36	1
JK06008	K042-02	P	.000	11/06/0716:57	1
JK06009	K042-03	P	4.94	11/06/0717:18	1
JK06010	J385-02	P	3.53	11/06/0717:39	1
JK06011	K042-02	P	.000	11/06/0718:00	5
JK06012	CCV49-15	P	92%	11/06/0718:21	1
JK06013	J955-02	P	.000	11/06/0719:26	1
JK06014	J955-03	P	.000	11/06/0719:47	1
JK06015	K033-02	P	.000	11/06/0720:08	1
JK06016	K017-02	P	.000	11/06/0720:29	1
JK06017	K017-03	*	45.3E	11/06/0720:50	1
JK06018	J396-01	P	51.4	11/06/0721:11	5
JK06019	J396-02	P	2.42	11/06/0721:32	1
JK06020	RINSE	P	.000	11/06/0721:53	1
JK06021	J396-02R	P	2.65	11/06/0722:14	1
JK06022	RINSE	P	.000	11/06/0722:35	1
JK06023	CCV50-30	P	88.9%*	11/06/0722:56	1
JK06024	J396-03	P	2.23	11/06/0723:17	1
JK06025	RINSE	P	.000	11/06/0723:38	1
JK06026	J396-03R	P	2.42	11/06/0723:59	1
JK06027	RINSE	P	.000	11/07/0700:20	1
JK06028	J396-01D	P	51	11/07/0700:41	5
JK06029	J396-01M	P	95	11/07/0701:02	5
JK06030	J955-04	*	.000	11/07/0701:23	5
JK06031	K042-03R	P	6.13	11/07/0701:44	1
JK06032	J344-08	*	1990E	11/07/0702:05	50
JK06033	J344-07	*	10400E	11/07/0702:26	200
JK06034	CCV51-15	P	89.8%*	11/07/0702:47	1
JK06035	J344-07D	*	10400E	11/07/0703:08	200
JK06036	J344-07M	*	12100E	11/07/0703:29	200
JK06037	J344-09	*	1090E	11/07/0703:50	20
JK06038	J344-12	*	802E	11/07/0704:11	20
JK06039	J345-06	*	763E	11/07/0704:32	20
JK06040	J345-07	P	486	11/07/0704:53	20
JK06041	J345-08	P	588	11/07/0705:15	20
JK06042	J345-09	P	412	11/07/0705:36	20
JK06043	J345-10	P	409	11/07/0705:57	20
JK06044	J345-15	P	254	11/07/0706:18	20
JK06045	CCV52-30	P	87.6%*	11/07/0706:39	1
JK06046	J345-16	P	69.4	11/07/0707:00	10
JK06047	J345-17	P	255	11/07/0707:21	20
JK06048	J345-18	P	265	11/07/0707:42	20
JK06049	J345-19	P	583	11/07/0708:03	20
JK06050	J345-20	*	766E	11/07/0708:24	20
JK06051	J345-20D	*	768E	11/07/0708:45	20
JK06052	J345-20M	*	965E	11/07/0709:06	20
JK06053	J346-01	*	1510E	11/07/0709:27	50
JK06054	CCV53-15	P	89.8%*	11/07/0709:48	1
JK06055	IPCS	P	84.7%	11/07/0712:06	1
JK06056	PCK004SB	P	.000	11/07/0712:27	1
JK06057	MRL	P	112%	11/07/0712:48	1
JK06058	PCK004SL	P	22	11/07/0713:09	1
JK06059	PCK004SC	P	21.7	11/07/0713:30	1
JK06060	J346-03	P	1.39	11/07/0713:51	1
JK06061	J346-04	P	.000	11/07/0714:12	1
JK06062	J346-05	P	.000	11/07/0714:33	1
JK06063	J346-06	P	.000	11/07/0714:54	1
JK06064	J346-07	P	.000	11/07/0715:15	1
JK06065	RINSE	P	1.22	11/07/0715:36	1
JK06066	CCV54-30	P	86.5%*	11/07/0715:57	1
JK06067	J346-08	P	.000	11/07/0716:18	1
JK06068	J346-09	P	.000	11/07/0716:39	1
JK06069	J346-10	P	.000	11/07/0717:00	1
JK06070	J346-11	P	1.55	11/07/0717:22	1
JK06071	J346-12	*	63.8E	11/07/0717:43	1
JK06072	J346-13	*	.000	11/07/0718:11	1
JK06073	J385-03	*	.000	11/07/0718:47	1
JK06074	J385-04	*	.000	11/07/0719:09	1

JK06075	J385-05	P	2.65	11/07/0720:24	1
JK06076	RINSE	P	.000	11/07/0720:45	1
JK06077	CCV55-15	P	85.8%*	11/07/0721:06	1
JK06078	J385-06	P	6.65	11/07/0721:27	1
JK06079	J385-06D	P	7.09	11/07/0721:48	1
JK06080	J385-06M	P	15.7	11/07/0722:09	1
JK06081	RINSE	P	.000	11/07/0722:30	1
JK06082	CCV56-30	P	87.3%*	11/07/0722:51	1
JK06083	IPCS	P	86.9%	11/07/0723:12	1
JK06084	PCK005WB	P	.000	11/07/0723:33	1
JK06085	MRL	P	108%	11/07/0723:54	1
JK06086	PCK005WL	P	21.9	11/08/0700:15	1
JK06087	PCK005WC	P	22	11/08/0700:36	1
JK06088	K017-03	*	3030E	11/08/0700:57	100
JK06089	J955-04	*	.000	11/08/0701:18	2000
JK06090	J344-08	P	1930	11/08/0701:39	100
JK06091	J344-07	P	10300	11/08/0702:00	500
JK06092	J344-07D	P	10200	11/08/0702:21	500
JK06093	J344-07M	P	14500	11/08/0702:42	500
JK06094	CCV57-15	P	93.8%	11/08/0703:03	1
JK06095	J344-09	P	1090	11/08/0703:24	100
JK06096	J344-12	P	769	11/08/0703:46	50
JK06097	J345-06	P	737	11/08/0704:07	40
JK06098	J345-20	P	762	11/08/0704:28	50
JK06099	J345-20D	P	756	11/08/0704:49	50
JK06100	J345-20M	P	1180	11/08/0705:10	50
JK06101	J346-01	P	1520	11/08/0708:30	100
JK06102	J346-12	P	82.5	11/08/0708:57	10
JK06103	J346-13	P	134	11/08/0709:18	20
JK06104	J385-03	P	916	11/08/0709:39	100
JK06105	CCV58-30	P	85.9%*	11/08/0710:00	1
JK06106	J385-04	P	1850	11/08/0710:21	100
JK06107	CCV59-15	P	86.7%*	11/08/0710:42	1

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG *for* ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A - 02 - 18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK02

Method File: IC57I07.met

Analytical Batch: ~~JK02~~ PCK0018 + PCK0028

al 11/02/07

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B - 02 - 987
ICV	988
CCV	N/A
CCV-15	SW8B - 02 - 1009
CCV-30	1010
LCS	1011
MS	999
IPC	1012
CMC	SW3B - 02 - 951
MRL	SW8B - 02 - 1013

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
1411	(±) 30	20°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: al

Date: 11/02/07

8017

Method: Ic57i07.met Batch: Jk02.seq Data: Jk02.003 - [Batch: jk02.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | STOP | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4950 µS/cm	ic57i07.met	JK02.001	1	
2	PCK001SB *BAH	ic57i07.met	JK02.002	1	
3	MRL	ic57i07.met	JK02.003	1	
4	PCK001SL *BAH	ic57i07.met	JK02.004	1	
5	PCK001SC	ic57i07.met	JK02.005	1	
6	J344-03 87.9 µS/cm	ic57i07.met	JK02.006	1	
7	J344-04 79.2	ic57i07.met	JK02.007	1	
8	J344-05 98.1	ic57i07.met	JK02.008	1	
9	J344-06 136.5	ic57i07.met	JK02.009	1	
10	J344-08 ~~226~~ 140 µS/cm *R 11/02/07	ic57i07.met	JK02.010	1	
11	RINSE	ic57i07.met	JK02.011	1	
12	CCV44-30	ic57i07.met	JK02.012	1	
13	J344-07 226 µS/cm *BAH	ic57i07.met	JK02.013	1	
14	J344-07D	ic57i07.met	JK02.014	1	
15	J344-07M	ic57i07.met	JK02.015	1	
16	J344-09 134 µS/cm	ic57i07.met	JK02.016	1	
17	J344-10 80.8	ic57i07.met	JK02.017	1	
18	J344-11 119.2	ic57i07.met	JK02.018	1	
19	J344-12 81.5	ic57i07.met	JK02.019	1	
20	J345-03 274	ic57i07.met	JK02.020	1	
21	J345-04 380	ic57i07.met	JK02.021	1	
22	RINSE	ic57i07.met	JK02.022	1	
23	CCV45-15	ic57i07.met	JK02.023	1	
24	J345-05 404 µS/cm *BAH	ic57i07.met	JK02.024	1	
25	J345-06	ic57i07.met	JK02.025	1	

Instrument 1 [T057] – Running MRL [Run 3]...

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat...

Friday, November 02, 2007 7:33 PM

8018

Method: Ic57i07.met Batch: Jk02.seq Data: Jk02.003 - [Batch: jk02.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID		Method	Filename	Mult.	Description
25	J345-06	296 µS/cm *BAH	ic57i07.met	JK02.025	1	
26	J345-07	217	ic57i07.met	JK02.026	1	
27	J345-08	214	ic57i07.met	JK02.027	1	
28	J345-09	193	ic57i07.met	JK02.028	1	
29	J345-10	54.9	ic57i07.met	JK02.029	1	
30	J345-11	67.0	ic57i07.met	JK02.030	1	
31	J345-12	66.4	ic57i07.met	JK02.031	1	
32	RINSE		ic57i07.met	JK02.032	1	
33	CCV46-30		ic57i07.met	JK02.033	1	
34	IPCS		ic57i07.met	JK02.034	1	
35	PCK002SB	*BAH	ic57i07.met	JK02.035	1	
36	MRL	4950 µS/cm	ic57i07.met	JK02.036	1	
37	PCK002SL	*BAH	ic57i07.met	JK02.037	1	
38	PCK002SC		ic57i07.met	JK02.038	1	
39	J345-13	83.4 µS/cm	ic57i07.met	JK02.039	1	
40	J345-14	11.12	ic57i07.met	JK02.040	1	
41	J345-15	260	ic57i07.met	JK02.041	1	
42	J345-16	412	ic57i07.met	JK02.042	1	
43	J345-17	538	ic57i07.met	JK02.043	1	
44	RINSE		ic57i07.met	JK02.044	1	
45	CCV47-15		ic57i07.met	JK02.045	1	
46	J345-18	467 µS/cm *BAH	ic57i07.met	JK02.046	1	
47	J345-19	313	ic57i07.met	JK02.047	1	
48	J345-20	183	ic57i07.met	JK02.048	1	
49	J345-20D		ic57i07.met	JK02.049	1	

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | untitled - Paint | Friday, November 02, 2007 7:34 PM

8019

Method: Ic57i07.met Batch: Jk02.seq Data: Jk02.003 - [Batch: jk02.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyse | Reports

Run	Sample ID	Method	Filename	Mult.	Description
49	J345-20D *BATH	ic57i07.met	JK02.049	1	
50	J345-20M	ic57i07.met	JK02.050	1	
51	J346-01 198 µS/cm	ic57i07.met	JK02.051	1	
52	J346-02 830 ↓	ic57i07.met	JK02.052	1	
53	RINSE	ic57i07.met	JK02.053	1	
54	CCV48-30	ic57i07.met	JK02.054	1	
55	B	ic57i07.met	JK02.055	1	
56	B	ic57i07.met	JK02.056	1	
57	B	ic57i07.met	JK02.057	1	
58	B	ic57i07.met	JK02.058	1	
59	B	ic57i07.met	JK02.059	1	
60	B	ic57i07.met	JK02.060	1	
61	B	ic57i07.met	JK02.061	1	
62	B	ic57i07.met	JK02.062	1	
63	B	ic57i07.met	JK02.063	1	
64	B	ic57i07.met	JK02.064	1	
65	B	ic57i07.met	JK02.065	1	
66	B	ic57i07.met	JK02.066	1	
67	B	ic57i07.met	JK02.067	1	
68	B	ic57i07.met	JK02.068	1	
69	B	ic57i07.met	JK02.069	1	
70	B	ic57i07.met	JK02.070	1	
71	B	ic57i07.met	JK02.071	1	
72	B	ic57i07.met	JK02.072	1	
73	B	ic57i07.met	JK02.073	1	

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method: Ic57i07.met Bat... | untitled - Paint | Friday, November 02, 2007 7:34 PM

8020

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A-02-10

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK06

Method File: IC57I07

Analytical Batch: PCK003W, PCK004WS & PCK005W
ek 11/06/07

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	↓ 988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1017 ek 11/06/07
LCS	1018
MS	999
IPC	1014
CMC	SW8B-02-1023
MRL	SW8B-02-1015 ek 11/06/07

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
145.8 µS/cm	(±) 30	25°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: ek

Date: 11/06/07

Method: Ic57i07.met Batch: Jk06.seq Data: Jk02.054 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4820 µS/cm	ic57i07.met	JK06.001	1	
2	PCK003WB *BAH	ic57i07.met	JK06.002	1	
3	MRL	ic57i07.met	JK06.003	1	
4	PCK003WL *BAH	ic57i07.met	JK06.004	1	
5	PCK003WC	ic57i07.met	JK06.005	1	
6	J344-02 3.10 µS/cm	ic57i07.met	JK06.006	1	
7	J345-02 2.80 µS/cm	ic57i07.met	JK06.007	1	
8	K042-02 1158 µS/cm	ic57i07.met	JK06.008	1	Rec; not used.
9	K042-03 518	ic57i07.met	JK06.009	1	Rec.
10	J385-02 ok 11/06/07 3.60 µS/cm	ic57i07.met	JK06.010	1	
11	~~RINSE~~ K042-02 DF=5	ic57i07.met	JK06.011	5 1	ok 11/06/07
12	CCU49-15	ic57i07.met	JK06.012	1	
13	J955-02 2.05 µS/cm *BAH	ic57i07.met	JK06.013	1	
14	J955-03 2.870	ic57i07.met	JK06.014	1	
15	K033-02 ok 11/06/07 3.01 µS/cm	ic57i07.met	JK06.015	1	
16	K017-02 3.35 µS/cm	ic57i07.met	JK06.016	1	
17	K017-03 572	ic57i07.met	JK06.017	1	
18	J396-01 DF=5 358 µS/cm at DF1	ic57i07.met	JK06.018	5	
19	J396-02 355 µS/cm	ic57i07.met	JK06.019	1	
20	RINSE	ic57i07.met	JK06.020	1	
21	J396-02R *BAH	ic57i07.met	JK06.021	1	RE-ANALYSIS (FOR CONFIRMATION)
22	RINSE	ic57i07.met	JK06.022	1	
23	CCU50-30	ic57i07.met	JK06.023	1	
24	J396-03 335 µS/cm *BAH	ic57i07.met	JK06.024	1	
25	RINSE	ic57i07.met	JK06.025	1	

Instrument 1: T057

Tuesday, November 06, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | 12:42 PM

00022

Method: Ic57i07.met Batch: Jk06.seq Data: Jk02.054 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
25	RINSE	ic57i07.met	JK06.025	1	
26	J396-03R *BAH	ic57i07.met	JK06.026	1	RE-ANALYSIS (FOR CONFIRMATION)
27	RINSE	ic57i07.met	JK06.027	1	
28	J396-01D DF=5 *BAH	ic57i07.met	JK06.028	5	
29	J396-01M DF=5	ic57i07.met	JK06.029	5	al 11/06/07
30	J955-04 DF=5 29950 [illegible] DF: al 11/06/07	ic57i07.met	JK06.030	5:1	High conductivity
31	~~RINSE~~ K042-03R	ic57i07.met	JK06.031	1	
32	J344-08 DF=50	ic57i07.met	JK06.032	50	
33	J344-07 DF=200	ic57i07.met	JK06.033	200	al 11/06/07
34	CCV51-15 al 11/06/07	ic57i07.met	JK06.034	1	
35	J344-07D DF=200 *BAH	ic57i07.met	JK06.035	200	
36	J344-07M DF=200	ic57i07.met	JK06.036	200	
37	J344-09 DF=20	ic57i07.met	JK06.037	20	
38	J344-12 DF=20	ic57i07.met	JK06.038	20	
39	J345-06 DF=20	ic57i07.met	JK06.039	20	
40	J345-07 DF=20	ic57i07.met	JK06.040	20	
41	J345-08 DF=20	ic57i07.met	JK06.041	20	
42	J345-09 DF=20	ic57i07.met	JK06.042	20	
43	J345-10 DF=20	ic57i07.met	JK06.043	20	
44	J345-15 DF=20	ic57i07.met	JK06.044	20	
45	CCV52-30	ic57i07.met	JK06.045	1	
46	J345-16 DF=10 *BAH	ic57i07.met	JK06.046	10	
47	J345-17 DF=20	ic57i07.met	JK06.047	20	
48	J345-18 DF=20	ic57i07.met	JK06.048	20	
49	J345-19 DF=20	ic57i07.met	JK06.049	20	

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | untitled - Paint | Tuesday, November 06, 2007 | 12:43 PM

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.003 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single STOP Reslib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
49	J345-19 DF=20 *BAH	ic57i07.met	JK06.049	20	
50	J345-20 DF=20	ic57i07.met	JK06.050	20	
51	J345-20D DF=20	ic57i07.met	JK06.051	20	
52	J345-20M DF=20	ic57i07.met	JK06.052	20	
53	J346-01 DF=50	ic57i07.met	JK06.053	50	
54	CCV53-15	ic57i07.met	JK06.054	1	
55	IPCS 4810uS/cm	ic57i07.met	JK06.055	1	
56	PCK004SB *BAH	ic57i07.met	JK06.056	1	
57	MRL	ic57i07.met	JK06.057	1	
58	PCK004SL *BAH	ic57i07.met	JK06.058	1	
59	PCK004SC	ic57i07.met	JK06.059	1	
60	J346-03	ic57i07.met	JK06.060	1	
61	J346-04	ic57i07.met	JK06.061	1	
62	J346-05	ic57i07.met	JK06.062	1	
63	J346-06	ic57i07.met	JK06.063	1	
64	J346-07	ic57i07.met	JK06.064	1	
65	RINSE	ic57i07.met	JK06.065	1	
66	CCV54-30	ic57i07.met	JK06.066	1	
67	J346-08 *BAH	ic57i07.met	JK06.067	1	
68	J346-09	ic57i07.met	JK06.068	1	
69	J346-10	ic57i07.met	JK06.069	1	
70	J346-11	ic57i07.met	JK06.070	1	
71	J346-12	ic57i07.met	JK06.071	1	
72	J346-13	ic57i07.met	JK06.072	1	
73	J285-03	ic57i07.met	JK06.073	1	

Instrument 1 [T057] – Running MRL [Run 3]...

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method: Ic57i07.met Bat... | untitled - Paint | Tuesday, November 06, 2007 | 3:14 PM

8021

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.074 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
73	J385-03 *BAH	ic57i07.met	JK06.073	1	
74	J385-04	ic57i07.met	JK06.074	1	
75	J385-05	ic57i07.met	JK06.075	1	
76	RINSE	ic57i07.met	JK06.076	1	
77	CCV55-15	ic57i07.met	JK06.077	1	
78	J385-06 *BAH	ic57i07.met	JK06.078	1	
79	J385-06D	ic57i07.met	JK06.079	1	
80	J385-06M	ic57i07.met	JK06.080	1	
81	RINSE	ic57i07.met	JK06.081	1	
82	CCV56-30	ic57i07.met	JK06.082	1	
83	IPCS 4820 µS/cm	ic57i07.met	JK06.083	1	
84	PCK005WB *BAH	ic57i07.met	JK06.084	1	
85	MRL	ic57i07.met	JK06.085	1	
86	PCK005WL *BAH	ic57i07.met	JK06.086	1	
87	PCK005WC	ic57i07.met	JK06.087	1	
88	K017-03 DF=100	ic57i07.met	JK06.088	100	
89	J955-04 DF=2000	ic57i07.met	JK06.089	2000	
90	J344-08 DF=100	ic57i07.met	JK06.090	100	
91	J344-07 DF=500	ic57i07.met	JK06.091	500	
92	J344-07D DF=500	ic57i07.met	JK06.092	500	
93	J344-07M DF=500	ic57i07.met	JK06.093	500	
94	CCV57-15	ic57i07.met	JK06.094	1	
95	J344-09 DF=100 *BAH	ic57i07.met	JK06.095	100	
96	J344-12 DF=50	ic57i07.met	JK06.096	50	
97	J344-06 DF=40	ic57i07.met	JK06.097	40	

Instrument 1: T057

Wednesday, November 07, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method Development | 7:57 PM

8025

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.074 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
97	J345-06 DF=40 *	ic57i07.met	JK06.097	40	
98	J345-20 DF=50	ic57i07.met	JK06.098	50	
99	J345-20D DF=50	ic57i07.met	JK06.099	~~100~~	
100	J345-20M DF=50	ic57i07.met	JK06.100	~~10~~	
101	J346-01 DF=100	ic57i07.met	JK06.101	100 ~~20~~	
102	J346-12 DF=10	ic57i07.met	JK06.102	10 ~~100~~	
103	J346-13 DF=20	ic57i07.met	JK06.103	20 ~~100~~	
104	J385-03 DF=100	ic57i07.met	JK06.104	~~100~~ 1	
105	CCV58-30	ic57i07.met	JK06.105	1	
106	J385-04 DF=100	ic57i07.met	JK06.106	1	
107	CCV59-15	ic57i07.met	JK06.107	1	
108	B	ic57i07.met	JK06.100	1	
109	B	ic57i07.met	JK06.100	1	
110	B	ic57i07.met	JK06.100	1	
111	B	ic57i07.met	JK06.100	1	
112	B	ic57i07.met	JK06.100	1	
113	B	ic57i07.met	JK06.100	1	
114	B	ic57i07.met	JK06.100	1	
115	B	ic57i07.met	JK06.100	1	
116	B	ic57i07.met	JK06.100	1	
117					
118					
119					
120					
121					

ok 11/07/07

ok 12/06/07

ok 12/06/07

ok 12/06/07

Instrument 1: T057

Wednesday, November 07, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method Development | untitled - Paint | 7:57 PM

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * No OH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: J107

Method File: 1C57107

Analytical Batch: N/A

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	-988
CCV	N/A
CCV-15	N/A
CCV-30	N/A
LCS	N/A
MS	N/A
IPC	N/A
CMC	N/A
MRL	N/A

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
N/A	(±) 30	N/A

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: SA

Date: 9/7/2007

Method: Ic57i07.met Batch: Ji07.seq Data: Ji06.010 - [Batch: ji07.seq]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IB	ic57i07.met	JI07.001	1	
2	S-0.0	ic57i07.met	JI07.002	1	
3	S-2.0	ic57i07.met	JI07.003	1	
4	S-4.0	ic57i07.met	JI07.004	1	
5	S-10.0	ic57i07.met	JI07.005	1	
6	S-25.0	ic57i07.met	JI07.006	1	
7	S-30.0	ic57i07.met	JI07.007	1	
8	ICV	ic57i07.met	JI07.008	1	
9	ICB	ic57i07.met	JI07.009	1	
10	B	ic57i07.met	JI07.010	1	
11	B	ic57i07.met	JI07.011	1	
12	B	ic57i07.met	JI07.012	1	
13	B	ic57i07.met	JI07.013	1	
14	B	ic57i07.met	JI07.014	1	
15	B	ic57i07.met	JI07.015	1	
16	B	ic57i07.met	JI07.016	1	
17	B	ic57i07.met	JI07.017	1	
18	B	ic57i07.met	JI07.018	1	
19	B	ic57i07.met	JI07.019	1	
20	B	ic57i07.met	JI07.020	1	
21	B	ic57i07.met	JI07.021	1	
22	B	ic57i07.met	JI07.022	1	
23	B	ic57i07.met	JI07.023	1	
24	B	ic57i07.met	JI07.024	1	
25	B	ic57i07.met	JI07.025	1	

Instrument 1: T057

Friday, September 07, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method: Ic57i05.met Bat... | 12:01 PM

8628

EXTRACTION LOG

SAMPLE PREPARATION LOG FOR ORGANIC ACID/PERCHLORATE

SOP ☑ EMAX-314.0 ☐ EMAX-300.0M

Book # E0P-002

Matrix Soil Start Date 11/01/07 Time 13:30 End Date 11/01/07 Time 15:00

PREPARATION BATCH # PCK002SB

Sample Prep ID	Lab Sample ID	Sample Amount (g)	Dilution Volume (ml)	Extract Volume (ml)	Notes
*01	PCK002SB	10.000g	100mL	100mL	
*02	L				
*03	C				
*04	075345-13				
*05	-14				
*06	-15				
*07	-16				
*08	-17				
*09	-18				
*10	-19				
*11	-20				
*12	-20D				
*13	-20M				
*14	075346-01				
*15	-02				
*16					
*17					
*18					
*19					
*20					
*21					
*22					
*23					
*24					
*25					

MBA 11/01/07

Standards	ID	Amount Added (ml)
Acetate		
Butyrate		
Lactate		
Propionate		
Pyruvate		
Perchlorate LCS/MS	SW8B-02-999	2.5mL/1.0mL

Reagent	Lot # / ID
H_2SO_4	
Nanopure	DI

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Og = Orange Rd = Red	Fn = Fine	Td = turbid	Vg= Vegetation
Yw = Yellow			

Comments:

Prepared By: MBA / [illegible]

Standard Added By: [illegible]

Checked By:

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

8030

SAMPLE PREPARATION LOG FOR ORGANIC ACID/PERCHLORATE

SOP ☑ EMAX-314.0 ☐ EMAX-300.0M

Book # E0P-002

Matrix Soil Start Date 11/06/07 Time 13:30 End Date 11/06/07 Time 15:00

PREPARATION BATCH # P0K0045

Sample Prep ID	Lab Sample ID	Sample Amount (g)	Dilution Volume (ml)	Extract Volume (ml)	Notes
*01	P0K0045B	10.000g	100mL	100mL	
*02	L				
*03	C				
*04	075346-03				
*05	-04				
*06	-05				
*07	-06				
*08	-07				
*09	-08				
*10	-09				
*11	-10				
*12	-11				
*13	-12				
*14	-13				
*15	075385-03				
*16	-04				
*17	-05				
*18	-06				
*19	-06D				
*20	-06M				
*21					
*22					
*23					
*24					
*25					

Not 11/06/07

Standards	ID	Amount Added (ml)
Acetate		
Butyrate		
Lactate		
Propionate		
Pyruvate		
Perchlorate LCS/MS	SW8B-02-999	2.5mL/1.0mL

Reagent	Lot # / ID
H_2SO_4	
Nanopure	

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Og = Orange Rd = Red	Fn = Fine	Td = turbid	Vg= Vegetation
Yw = Yellow			

Comments:

Prepared By: MPA / cl

Standard Added By: cl

Checked By:

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

8031

Method: Ic57k30.met Batch: JI05.seq Data: JI03.033 - [Batch: jI05.seq]

File Edit Method Batch Options Analysis Window Help

Method | Data | Batch | Integ. | Peaks | Batch | Custom | Review | Reproc | Recalib | Analyse | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4910 µS/cm	ic57k30.met	JL05.001	1	
2	PCL004WB *BAH	ic57k30.met	JL05.002	1	
3	MRL	ic57k30.met	JL05.003	1	
4	PCL004WL *BAH	ic57k30.met	JL05.004	1	
5	PCL004WC	ic57k30.met	JL05.005	1	
6	K268-02R 260 µS/cm	ic57k30.met	JL05.006	1	
7	K298-10 DF=50	ic57k30.met	JL05.007	50	
8	K298-11 DF=200	ic57k30.met	JL05.008	200	
9	K298-11 DF=400	ic57k30.met	JL05.009	400	
10	K316-01 490 µS/cm	ic57k30.met	JL05.010	1	
11	RINSE	ic57k30.met	JL05.011	1	
12	CCV15-30	ic57k30.met	JL05.012	1	
13	K316-03 600 µS/cm *BAH	ic57k30.met	JL05.013	1	
14	K316-01 DF=20	ic57k30.met	JL05.014	20	
15	K316-01D	ic57k30.met	JL05.015	20	
16	K316-01M	ic57k30.met	JL05.016	20	
17	RINSE	ic57k30.met	JL05.017	1	
18	CCV16-15	ic57k30.met	JL05.018	1	
19	B	ic57k30.met	JL05.019	1	
20	B	ic57k30.met	JL05.020	1	
21	B	ic57k30.met	JL05.021	1	
22	B	ic57k30.met	JL05.022	1	
23	B	ic57k30.met	JL05.023	1	
24	B	ic57k30.met	JL05.024	1	

Method Development

Wednesday, December 05, 2007

Start | EZChrom Chromatography ... | Method: Ic57k30.met Ba... | Method: Ic57k30.met Ba... | 7:26 PM

8032

TABLE OF CONTENTS

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J385**

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1005
GC/MS-VOA	METHOD 5030B/8260B (WATER) METHOD 5035/8260B (SOIL)	2000 – 2028 2029 – 2072
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3010A/3050B/6010B METHOD 7470A/7471A	7000 – 7036 7037 – 7056
WET	METHOD 314.0	8000 – 8027
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax:(310) 618-0818

Date: 11-26-2007
EMAX Batch No.: 07J385

Attn: Michael Wilson

Tetra Tech, Inc.
348 W Hospitality Lane, Ste 100
San Bernardino CA 92408

Subject: Laboratory Report
Project: LMC Beaumont Site 2

Enclosed is the Laboratory report for samples received on 10/30/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
LTB-102907	J385-01	10/29/07	WATER	VOLATILE ORGANICS BY GC/MS
LEB2-102907	J385-02	10/29/07	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB5-55	J385-03	10/29/07	SOIL	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB5-60	J385-04	10/29/07	SOIL	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB1-55	J385-05	10/29/07	SOIL	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB1-60	J385-06	10/29/07	SOIL	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC

Sample ID	Control #	Col Date	Matrix	Analysis
				METALS CAM
				MERCURY

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Acting Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

Tb. 0610

07J385

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: EMAX
1835 W 20th st
Torrance, CA 90501
(310) 618-8889

DATE 10-29-07 PAGE 1 OF 1

CLIENT: LMC
PROJECT NAME: Beaumont Site 2
PROJECT MANAGER: D. Bertolacci
TC #: 19892-03
SAMPLERS (Signatures): Holly A Hanke

TURN-AROUND TIME: 10 Day Rush

OBSERVATIONS/COMMENTS: Please e-mail prelims to David Bertolacci @ Tetratech.com

LINE ITEM	SAMPLE NO.	DATE	TIME	(SW 8260B) VOCs + Oxygenate	Perchlorate (314.1)	(6010B / 7470 Series) Cam 17 Metals	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1	1. LTB-102907	10-29-07	0845	X			U	W	G	2	HCl	
	~~2. LEB1-102907~~		~~0900~~	~~X~~	~~X~~	~~X~~	~~U~~	~~W~~	~~G/P~~	~~5~~	~~See bottle~~	~~Bailer~~ not submitted
2	3. LEB2-102907		0905	X	X	X	U	W	G/P	5	See bottle	Split Spoon
3	4. SB5-55		1015	X	X	X	U	S	G	4	See bottle	
4	5. SB5-60		1020	X	X	X	↓	↓	↓	↓	↓	
5	6. SB1-55		1218	X	X	X						
6	7. SB1-60		1250	X	X	X						
	8.											
	9.											
	10.											

FILTERING: ☐ FILTERED ☑ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 23
Holly A Hanke	Holly A Hanke	TETRA TECH, INC.	10-30-07	1340	
RECEIVED BY: Carlos Morales	SIGNATURE	COMPANY: Top Line	DATE 10/30/07	TIME 2:54 p.m	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: INDRA PATEL	SIGNATURE	COMPANY: EMAX	DATE 10/30/07	TIME 5:15 PM	T=2.8°C

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

1002

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 07J385
☐ Client Delivery		Recepient I PATEL
☑ Third Party Top Line Courier		Date 10-30-07
		Time 5:15 Pm

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☑ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT

Safety Issues

☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☑ Plastic Bag
Temperatures	☑ Cooler 1 2.8 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C

Comments: ☐ PM was informed on non-compliant coolers imediately.

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
02	003, 004, 005, 006		Vials Reads Analysis	R6
	007		VOC, CAN 17 & Perchlorate	
			Also Unpres Container	
			Reads All the Analysis	
			VOC, Perchlorate & CAN 17	
			Also Plastic Container	
			Pres / HNO3 Reads	
			VOC, CAN 17 & Perchlorate	
			Analysis	
02 — 06			D1 Collection DATE 10-29-07	R5
			on All Containers	

REVIEWS

Sample Labeling [signature] Date 10-30-07

SRF [signature] Date 10/30/07

PM [signature] Date 10/31/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	Collection date : follow label
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	40 ml vial for voc
C1	Wrong container	G3	>20 % solid particle		poly unpreserved for 314.0
C2	Broken container	H1			poly w/ HNO3 for metals
C3	Leaking container	H2			
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

Pick-up + Delivery: 310-235-2190
Fax: 310-235-2197
New Accounts: 310-235-2190

top line courier

07 J 385
10:30-07
5:15P

Serving Southern California

Date	10/30/07
Ref. No.	
Invoice No.	30192
Order No. 1	
Order No. 2	

Ref. No: G260200682

DUPLITEXT PRINTING & GRAPHICS (310) 559-9944

CHARGE TO:	**ADDRESS:**	**ACCOUNT NO.**

PICK-UP FROM: Tetra Tech	DELIVER TO NO. 1: Amax
ADDRESS: 348 W. Hospitality Lane 100	ADDRESS: 1835 W. 205th St
CITY: San Bernardino 92408	CITY: Torrance Zip: 90501
SENDER'S NAME: EXT. NO./DEPT.	RECEIVER'S NAME: TEL. NO. /DEPT.

30 MIN.: (30 MIN.) ☐	SUPER RUSH: (1 HOUR) ☐	RUSH (2 HOURS) ☐	REGULAR: (4 HOURS) ☐	DELIVER TO NO. 2:
RETURN: ☐	WAIT TIME: ☐	NEXT DAY: ☐ 8:30 ☐ 10:00 ☐ 12:00		ADDRESS:
FILING: ☐	DEPT.: ☐	WINDOW: ☐		CITY: ZIP:
DRIVER #	SERVING: ☐	RECORDING: ☐	BANK DEPOSIT: ☐	RECEIVER'S NAME: TEL. NO. /DEPT.

NO. PKG.	DESCRIPTION AND SPECIAL INSTRUCTIONS

SIGNATURE ON RETURN X	DEL. TIME	RELEASE SIGNATURE: *Sign to authorize delivery without obtaining signature*
SIGNATURE ON DELIVERY X	DEL. TIME 10/30/07 5:15	By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

1501

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS
(WATER)

SDG#: 07J385

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J385

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Two (2) water samples were received on 10/30/07 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd edition.

1. Holding Time

Analytical holding time was met.

2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

Recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J385
Instrument ID : T-006

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V006K18Q	1	NA	11/07/0702:29	11/07/0702:29	RKW195	RIW506	V006K18	Method Blank
LCS1W	V006K18L	1	NA	11/07/0700:33	11/07/0700:33	RKW192	RIW506	V006K18	Lab Control Sample (LCS)
LCD1W	V006K18C	1	NA	11/07/0701:12	11/07/0701:12	RKW193	RIW506	V006K18	LCS Duplicate
LTB-102907	J385-01	1	NA	11/07/0708:58	11/07/0708:58	RKW205	RIW506	V006K18	Field Sample
LEB2-102907	J385-02	1	NA	11/07/0709:37	11/07/0709:37	RKW206	RIW506	V006K18	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/29/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
Batch No.	: 07J385	Date Extracted:	11/07/07 08:58
Sample ID:	LTB-102907	Date Analyzed:	11/07/07 08:58
Lab Samp ID:	J385-01	Dilution Factor:	1
Lab File ID:	RKW205	Matrix	: WATER
Ext Btch ID:	VO06K18	% Moisture	: NA
Calib. Ref.:	RIW506	Instrument ID	: T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	88	70-140
4-BROMOFLUOROBENZENE	97	70-130
TOLUENE-D8	99	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/29/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
Batch No.	: 07J385	Date Extracted:	11/07/07 09:37
Sample ID:	LEB2-102907	Date Analyzed:	11/07/07 09:37
Lab Samp ID:	J385-02	Dilution Factor:	1
Lab File ID:	RKW206	Matrix :	WATER
Ext Btch ID:	VO06K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	86	70-140
4-BROMOFLUOROBENZENE	101	70-130
TOLUENE-D8	100	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/07/07
Batch No.	: 07J385	Date Extracted:	11/07/07 02:29
Sample ID:	MBLK1W	Date Analyzed:	11/07/07 02:29
Lab Samp ID:	V006K18Q	Dilution Factor:	1
Lab File ID:	RKW195	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	86	70-140
4-BROMOFLUOROBENZENE	96	70-130
TOLUENE-D8	96	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V006K18Q	V006K18L	V006K18C		
LAB FILE ID:	RKW195	RKW192	RKW193		
DATE EXTRACTED:	11/07/0702:29	11/07/0700:33	11/07/0701:12	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0702:29	11/07/0700:33	11/07/0701:12	DATE RECEIVED:	11/07/07
PREP. BATCH:	V006K18	V006K18	V006K18		
CALIB. REF:	RIW506	RIW506	RIW506		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	8.07	81	10.0	7.77	78	4	60-130	30
Benzene	ND	10.0	10.3	103	10.0	9.75	98	5	70-130	30
Chlorobenzene	ND	10.0	10.8	108	10.0	10.4	104	4	70-120	30
Toluene	ND	10.0	10.3	103	10.0	9.76	98	5	70-130	30
Trichloroethene	ND	10.0	10.5	105	10.0	9.76	98	8	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	7.98	80	10.0	7.64	76	70-140
4-Bromofluorobenzene	10.0	9.31	93	10.0	9.15	91	70-130
Toluene-d8	10.0	9.98	100	10.0	10.1	101	70-130

INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RIW500
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J385
BFB Injection Date : 09/25/07
BFB Injection Time : 17:52
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.89
75	30.0 - 60.0% of mass 95	58.57
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.70
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	79.27
175	5.0 - 9.0% of mass 174	4.91(6.2)1
176	95.0 - 101.0% of mass 174	75.35(95.1)1
177	5.0 - 9.0% of mass 176	5.91(7.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V006I261	RIW501	09/25/07	18:30
2	VSTD0.5	V006I262	RIW502	09/25/07	19:08
3	VSTD01	V006I263	RIW503	09/25/07	19:46
4	VSTD02	V006I264	RIW504	09/25/07	20:24
5	VSTD05	V006I265	RIW505	09/25/07	21:02
6	VSTD010	V006I266	RIW506	09/25/07	21:39
7	VSTD020	V006I267	RIW507	09/25/07	22:17
8	VSTD030	V006I268	RIW508	09/25/07	22:57
9	VSTD040	V006I269	RIW509	09/25/07	23:34
10	VSTD050	V006I2610	RIW510	09/26/07	00:13
11	VSTD010	IV006I261	RIW513	09/26/07	02:08

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T006
Beginning DateTime :09/25/07 18:30
Spike Units :PPB
IC File :RIW506

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :09/26/07 00:13
HPChem Method :V006I26

M	IDX	Parameters	.3 18:30 RIW501	.5 19:08 RIW502	1 19:46 RIW503	2 20:24 RIW504	5 21:02 RIW505	10 21:39 RIW506	20 22:17 RIW507	30 22:57 RIW508	40 23:34 RIW509	50 00:13 RIW510	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	11.1969
	2	Dichlorodifluoromethane	0.225	0.266	0.319	0.291	0.280	0.279	0.289	0.283	0.284	0.262	0.278	8.71	3.5084
	3	Chloromethane	0.428	0.350	0.382	0.361	0.348	0.344	0.361	0.370	0.382	0.354	0.368	6.75	3.9417
	4	Vinyl chloride	0.268	0.275	0.334	0.315	0.311	0.305	0.299	0.283	0.280	0.250	0.292	8.63	4.1646
	5	Bromomethane	------	0.229	0.242	0.205	0.196	0.205	0.216	0.221	0.229	0.214	0.217	6.61	4.9656
	6	Chloroethane	0.176	0.169	0.199	0.201	0.194	0.200	0.198	0.199	0.200	0.186	0.192	5.92	5.0994
	7	Dichlorofluoromethane	0.807	0.796	0.828	0.807	0.791	0.766	0.759	0.762	0.770	0.687	0.777	5.04	5.1529
	8	Trichlorofluoromethane	0.426	0.478	0.571	0.535	0.508	0.493	0.521	0.514	0.520	0.476	0.504	7.74	5.5437
2	9	Acrolein	------	------	0.023	0.018	0.020	0.023	0.024	0.026	0.025	0.023	0.023	11.68	6.1919
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.216	0.244	0.270	0.253	0.262	0.257	0.265	0.276	0.278	0.251	0.257	7.06	6.2343
2	11	Acetone	------	------	0.109	0.084	0.076	0.074	0.069	0.072	0.066	0.062	0.077	19.38	6.2822
	12	1,1-Dichloroethene	0.725	0.711	0.767	0.720	0.715	0.698	0.700	0.723	0.711	0.630	0.710	4.79	6.5269
5	13	tert-Butyl alcohol	------	0.019	0.019	0.019	0.020	0.021	0.021	0.022	0.021	0.019	0.020	4.59	6.5783
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	0.314	0.255	0.339	0.371	0.391	0.402	0.409	0.411	0.401	0.348	0.364	13.92	7.0319
	17	Methylene chloride	------	1.766	1.163	0.851	0.691	0.598	0.538	0.557	0.551	0.501	0.802	52.15	7.2325
	18	Carbon disulfide	1.197	1.234	1.316	1.205	1.262	1.224	1.246	1.279	1.284	1.142	1.239	4.07	7.3532
3	19	Acrylonitrile	------	------	0.052	0.049	0.055	0.058	0.059	0.062	0.060	0.055	0.056	7.62	7.3781
	20	tert-Butyl methyl ether (MTBE)	0.581	0.596	0.609	0.576	0.624	0.596	0.602	0.618	0.602	0.551	0.595	3.59	7.4345
	21	trans-1,2-Dichloroethene	0.629	0.625	0.682	0.650	0.669	0.637	0.653	0.661	0.657	0.592	0.645	3.99	7.6853
	22	Isopropyl ether (DIPE)	1.313	1.371	1.400	1.328	1.399	1.352	1.371	1.406	1.388	1.257	1.359	3.49	8.0637
	23	Vinyl acetate	0.495	0.467	0.453	0.446	0.503	0.485	0.549	0.573	0.557	0.522	0.505	8.78	8.2159
	24	1,1-Dichloroethane	0.711	0.706	0.827	0.763	0.788	0.733	0.758	0.763	0.775	0.694	0.752	5.48	8.2902
	25	tert-Butyl ethyl ether (ETBE)	0.908	0.900	0.981	0.907	0.973	0.918	0.927	0.921	0.914	0.832	0.918	4.47	8.6435
2	26	2-Butanone	0.107	0.093	0.087	0.092	0.081	0.091	0.090	0.094	0.089	0.086	0.091	7.30	8.8394
	27	2,2-Dichloropropane	0.628	0.563	0.583	0.575	0.566	0.521	0.515	0.512	0.494	0.432	0.539	10.25	9.1121
	28	cis-1,2-Dichloroethene	0.641	0.694	0.715	0.700	0.696	0.661	0.661	0.676	0.670	0.599	0.671	5.04	9.1745
	29	Chloroform	0.658	0.661	0.730	0.709	0.713	0.679	0.677	0.684	0.687	0.618	0.682	4.68	9.4241
	30	Bromochloromethane	0.274	0.302	0.333	0.289	0.323	0.300	0.307	0.319	0.316	0.291	0.305	5.83	9.7003
	31	1,1,1-Trichloroethane	0.557	0.565	0.631	0.622	0.640	0.597	0.602	0.617	0.623	0.557	0.601	5.21	10.0884
	32	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	tert-Amyl methyl ether (TAME)	0.566	0.817	0.794	0.721	0.659	0.628	0.649	0.640	0.647	0.590	0.671	12.20	10.4496
	34	1,2-Dichloroethane-d4	------	------	0.352	0.337	0.358	0.335	0.357	0.347	------	------	0.348	2.84	10.5840
	35	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	17.4192
	36	1,1-Dichloropropene	0.207	0.198	0.217	0.215	0.211	0.197	0.200	0.207	0.208	0.190	0.205	4.23	10.3405
	37	Carbon tetrachloride	0.517	0.550	0.575	0.574	0.556	0.535	0.538	0.548	0.546	0.504	0.544	4.09	10.5505
	38	1,2-Dichloroethane	0.477	0.496	0.536	0.503	0.537	0.510	0.499	0.504	0.496	0.458	0.502	4.73	10.7490
	39	Benzene	1.545	1.491	1.579	1.556	1.535	1.470	1.489	1.530	1.518	1.375	1.509	3.82	10.8310
	40	Trichloroethene	0.398	0.394	0.454	0.448	0.434	0.418	0.424	0.441	0.440	0.401	0.425	5.10	11.8803
	41	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	42	1,2-Dichloropropane	0.364	0.405	0.416	0.395	0.397	0.384	0.388	0.394	0.387	0.359	0.389	4.42	12.1811
	43	Bromodichloromethane	0.469	0.468	0.496	0.467	0.498	0.487	0.499	0.504	0.498	0.468	0.485	3.22	12.6302
	44	Dibromomethane	0.133	0.170	0.166	0.149	0.171	0.161	0.159	0.162	0.158	0.148	0.158	7.37	12.7631
	45	2-Chloroethyl vinyl ether	------	------	0.035	0.042	0.049	0.054	0.059	0.060	0.060	0.056	0.052	17.83	13.0515
2	46	4-Methyl-2-pentanone	------	------	0.305	0.253	0.240	0.262	0.253	0.259	0.249	0.238	0.257	8.12	13.1165

T102

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	47	cis-1,3-Dichloropropene	0.390	0.423	0.481	0.481	0.507	0.482	0.488	0.499	0.493	0.467	0.471	7.75	13.6135
	48	Toluene-d8	------	------	1.303	1.303	1.235	1.184	1.280	1.225	------	------	1.255	3.84	14.1585
	49	Toluene	1.558	1.569	1.612	1.604	1.560	1.458	1.459	1.476	1.477	1.335	1.511	5.65	14.3238
	50	Ethyl methacrylate	0.246	0.226	0.262	0.243	0.276	0.281	0.288	0.305	0.299	0.288	0.272	9.67	14.4684
	51	trans-1,3-Dichloropropene	0.288	0.289	0.356	0.327	0.365	0.367	0.387	0.390	0.392	0.372	0.353	11.08	14.5927
2	52	2-Hexanone	------	------	0.110	0.115	0.125	0.141	0.143	0.148	0.145	0.142	0.134	11.03	14.8759
	53	1,1,2-Trichloroethane	0.211	0.197	0.199	0.205	0.211	0.205	0.202	0.212	0.210	0.196	0.205	2.94	14.9571
	54	1,3-Dichloropropane	0.366	0.374	0.391	0.379	0.402	0.392	0.385	0.385	0.384	0.359	0.382	3.35	15.4810
	55	Tetrachloroethene	0.326	0.334	0.362	0.379	0.378	0.355	0.360	0.368	0.370	0.334	0.357	5.33	15.7187
	56	Dibromochloromethane	0.188	0.211	0.221	0.227	0.265	0.274	0.277	0.283	0.282	0.276	0.250	14.02	16.1447
	57	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	58	1,2-Dibromoethane	0.163	0.171	0.178	0.164	0.163	0.147	0.145	0.138	0.138	0.129	0.154	10.56	16.6000
	59	1-Chlorohexane	0.575	0.544	0.562	0.579	0.609	0.570	0.585	0.584	0.603	0.551	0.576	3.58	16.7977
	60	Chlorobenzene	0.833	0.904	0.991	0.959	0.964	0.930	0.939	0.954	0.943	0.868	0.929	5.13	17.5109
	61	1,1,1,2-Tetrachloroethane	0.276	0.302	0.330	0.307	0.337	0.320	0.334	0.332	0.334	0.311	0.318	6.10	17.5658
	62	Ethylbenzene	1.682	1.724	1.854	1.805	1.809	1.702	1.731	1.719	1.712	1.534	1.727	5.07	17.5754
2	63	m-Xylene & p-Xylene	1.380	1.322	1.442	1.393	1.404	1.309	1.305	1.307	1.262	1.100	1.322	7.26	17.7428
	64	o-Xylene	1.387	1.379	1.407	1.398	1.424	1.357	1.366	1.384	1.361	1.236	1.370	3.76	18.7607
	65	Styrene	0.783	0.801	0.902	0.922	0.972	0.941	0.965	0.998	0.984	0.907	0.917	8.01	18.8302
	66	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	23.9581
	67	Isopropylbenzene	4.208	4.170	4.458	4.515	4.337	4.028	4.011	4.147	4.158	3.706	4.174	5.60	19.5603
	68	Bromoform	------	0.246	0.280	0.240	0.314	0.324	0.332	0.355	0.359	0.342	0.310	14.44	19.6899
	69	1,1,2,2-Tetrachloroethane	0.546	0.571	0.569	0.560	0.581	0.561	0.575	0.605	0.613	0.572	0.575	3.53	19.9393
	70	4-Bromofluorobenzene	1.381	1.268	1.277	1.268	1.191	1.105	1.223	1.210	------	------	1.240	6.43	20.1854
	71	1,2,3-Trichloropropane	------	------	0.102	0.126	0.131	0.113	0.113	0.115	0.117	0.110	0.116	7.79	20.2939
	72	trans-1,4-Dichloro-2-butene	------	------	0.097	0.098	0.093	0.097	0.118	0.118	0.132	0.124	0.110	13.91	20.4140
	73	n-Propylbenzene	5.006	5.190	5.381	5.442	5.420	5.108	5.085	5.262	5.190	4.639	5.172	4.60	20.5088
	74	Bromobenzene	0.913	0.902	0.929	0.968	0.962	0.896	0.914	0.953	0.962	0.886	0.928	3.30	20.7007
	75	1,3,5-Trimethylbenzene	3.381	3.261	3.588	3.524	3.568	3.335	3.387	3.520	3.463	3.092	3.412	4.53	20.8681
	76	2-Chlorotoluene	3.153	3.345	2.956	3.199	3.042	2.844	2.850	2.978	2.959	2.620	2.994	6.85	20.9858
	77	4-Chlorotoluene	2.782	2.807	3.141	3.144	3.046	2.913	2.871	3.027	3.043	2.769	2.954	4.88	21.0794
	78	tert-Butylbenzene	3.050	3.027	3.181	3.247	3.263	3.037	3.065	3.146	3.123	2.776	3.091	4.50	21.7289
	79	1,2,4-Trimethylbenzene	3.103	3.118	3.282	3.368	3.384	3.221	3.264	3.372	3.361	3.015	3.249	4.05	21.8288
	80	sec-Butylbenzene	4.342	4.154	4.473	4.596	4.681	4.394	4.471	4.557	4.494	4.013	4.418	4.60	22.2425
	81	p-Isopropyltoluene	2.895	3.028	3.035	3.323	3.559	3.444	3.518	3.651	3.590	3.225	3.327	8.08	22.5522
	82	1,3-Dichlorobenzene	1.511	1.571	1.673	1.763	1.801	1.735	1.755	1.825	1.831	1.663	1.713	6.28	22.8664
	83	1,4-Dichlorobenzene	1.560	1.597	1.691	1.733	1.755	1.651	1.704	1.758	1.754	1.641	1.684	4.16	23.1140
	84	n-Butylbenzene	2.225	2.471	2.655	2.678	3.146	3.124	3.259	3.364	3.352	3.045	2.932	13.54	23.5448
	85	1,2-Dichlorobenzene	1.342	1.429	1.416	1.491	1.496	1.455	1.481	1.545	1.533	1.404	1.459	4.29	24.0297
	86	1,2-Dibromo-3-chloropropane	------	------	------	0.053	0.063	0.074	0.073	0.076	0.081	0.081	0.071	14.43	25.9068
	87	1,2,4-Trichlorobenzene	------	0.471	0.544	0.601	0.739	0.801	0.851	0.902	0.919	0.853	0.742	22.17	28.0696
	88	Hexachlorobutadiene	------	0.526	0.519	0.572	0.672	0.679	0.653	0.680	0.673	0.618	0.621	10.67	28.3746
	89	Naphthalene	------	0.653	0.571	0.563	0.770	0.900	0.988	1.131	1.153	1.097	0.870	27.44	28.7411
	90	1,2,3-Trichlorobenzene	------	0.453	0.435	0.476	0.589	0.636	0.669	0.708	0.704	0.659	0.592	18.45	29.3279

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.1 Max_%RSD : 52.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

	Parameter	x0	x1	CCF
10X	Acetone	0.00941	0.06518	0.9980
11	Methylene chloride	0.06537	0.51642	0.9989
47	2-Chloroethyl vinyl ether	-0.00296	0.05909	0.9992
87	1,2,4-Trichlorobenzene	-0.03239	0.88376	0.9988
89	Naphthalene	-0.05271	1.09962	0.9964
90	1,2,3-Trichlorobenzene	-0.02122	0.68477	0.9989

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SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D Vial: 14
Acq On : 26 Sep 2007 2:08 am Operator: CGM
Sample : IVO06I261 10PPB Inst : TO06
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	10.000	9.453	5.5	93	0.00
3	P,T	Chloromethane	10.000	9.131	8.7	97	0.00
4	C,T	Vinyl chloride	10.000	9.916	0.8	94	0.00
5	T	Bromomethane	10.000	10.648	-6.5	112	0.00
6	T	Chloroethane	10.000	9.760	2.4	93	0.00
7	T	Dichlorofluoromethane	10.000	9.660	3.4	97	0.00
8	T	Trichlorofluoromethane	10.000	9.723	2.8	99	0.00
9	T	Acrolein	20.000	20.627	-3.1	98	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.997	0.0	99	0.00
11	T	Acetone	20.000	20.138	-0.7	94	0.00
12	CMT	1,1-Dichloroethene	10.000	9.898	1.0	100	0.00
13	T	tert-Butyl alcohol	50.000	49.426	1.1	95	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	9.081	9.2	82	0.00
17	T	Methylene chloride	10.000	9.282	7.2	90	0.00
18	T	Carbon disulfide	10.000	10.486	-4.9	105	0.00
19	T	Acrylonitrile	30.000	31.743	-5.8	101	0.00
20	T	tert-Butyl methyl ether (MT	10.000	10.127	-1.3	100	0.00
21	T	trans-1,2-Dichloroethene	10.000	9.960	0.4	100	0.00
22	T	Isopropyl ether (DIPE)	10.000	10.056	-0.6	100	0.00
23	T	Vinyl acetate	10.000	10.497	-5.0	108	0.00
24	P,T	1,1-Dichloroethane	10.000	10.053	-0.5	102	0.00
25	T	tert-Butyl ethyl ether (ETB	10.000	10.073	-0.7	100	0.00
26	T	2-Butanone	20.000	20.400	-2.0	101	0.00
27	T	2,2-Dichloropropane	10.000	8.981	10.2	92	0.00
28	T	cis-1,2-Dichloroethene	10.000	9.782	2.2	98	0.00
29	C,T	Chloroform	10.000	9.777	2.2	97	0.00
30	T	Bromochloromethane	10.000	9.952	0.5	100	0.00
31	T	1,1,1-Trichloroethane	10.000	9.843	1.6	98	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	9.516	4.8	101	0.00
34	S	1,2-Dichloroethane-d4	10.000	9.682	3.2	100	0.00
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	99	0.00
36	T	1,1-Dichloropropene	10.000	9.584	4.2	99	0.00
37	T	Carbon tetrachloride	10.000	9.793	2.1	98	0.00
38	T	1,2-Dichloroethane	10.000	9.822	1.8	95	0.00
39	TM	Benzene	10.000	9.948	0.5	101	0.00
40	TM	Trichloroethene	10.000	10.094	-0.9	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D Vial: 14
Acq On : 26 Sep 2007 2:08 am Operator: CGM
Sample : IVO06I261 10PPB Inst : TO06
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.013	-0.1	100	0.00
43	T	Bromodichloromethane	10.000	9.996	0.0	98	0.00
44	T	Dibromomethane	10.000	9.970	0.3	97	0.00
45	T	2-Chloroethyl vinyl ether	10.000	9.666	3.3	98	0.01
46	T	4-Methyl-2-pentanone	20.000	20.281	-1.4	98	0.00
47	T	cis-1,3-Dichloropropene	10.000	9.835	1.6	95	0.00
48	S	Toluene-d8	10.000	9.802	2.0	103	0.00
49	CMT	Toluene	10.000	9.945	0.5	102	0.00
50	T	Ethyl methacrylate	10.000	10.748	-7.5	102	0.00
51	T	trans-1,3-Dichloropropene	10.000	9.759	2.4	93	0.00
52	T	2-Hexanone	20.000	20.995	-5.0	98	0.00
53	T	1,1,2-Trichloroethane	10.000	10.052	-0.5	99	0.00
54	T	1,3-Dichloropropane	10.000	9.998	0.0	96	0.00
55	T	Tetrachloroethene	10.000	9.988	0.1	99	0.00
56	T	Dibromochloromethane	10.000	10.715	-7.1	96	0.00
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	9.380	6.2	97	0.00
59	T	1-Chlorohexane	10.000	9.776	2.2	98	0.00
60	PM	Chlorobenzene	10.000	10.257	-2.6	101	0.00
61	T	1,1,1,2-Tetrachloroethane	10.000	10.250	-2.5	101	0.00
62	C,T	Ethylbenzene	10.000	10.205	-2.1	102	0.00
63	T	m-Xylene & p-Xylene	20.000	20.342	-1.7	101	0.00
64	T	o-Xylene	10.000	10.010	-0.1	100	0.00
65	T	Styrene	10.000	10.524	-5.2	101	0.00
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	96	0.00
67	T	Isopropylbenzene	10.000	9.994	0.1	99	0.00
68	P,T	Bromoform	10.000	10.225	-2.2	94	0.00
69	P,T	1,1,2,2-Tetrachloroethane	10.000	10.207	-2.1	100	0.00
70	S	4-Bromofluorobenzene	10.000	9.491	5.1	102	0.00
71	T	1,2,3-Trichloropropane	10.000	10.909	-9.1	107	0.00
72	T	trans-1,4-Dichloro-2-butene	10.000	8.840	11.6	96	0.00
73	T	n-Propylbenzene	10.000	10.246	-2.5	99	0.00
74	T	Bromobenzene	10.000	10.078	-0.8	100	0.00
75	T	1,3,5-Trimethylbenzene	10.000	10.101	-1.0	99	0.00
76	T	2-Chlorotoluene	10.000	9.642	3.6	97	0.00
77	T	4-Chlorotoluene	10.000	10.234	-2.3	100	0.01
78	T	tert-Butylbenzene	10.000	10.056	-0.6	98	0.00
79	T	1,2,4-Trimethylbenzene	10.000	10.224	-2.2	99	0.00
80	T	sec-Butylbenzene	10.000	10.217	-2.2	98	0.00

(#) = Out of Range

2015

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D Vial: 14
Acq On : 26 Sep 2007 2:08 am Operator: CGM
Sample : IVO06I261 10PPB Inst : TO06
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	10.386	-3.9	96	0.00
82	T	1,3-Dichlorobenzene	10.000	10.489	-4.9	99	0.00
83	T	1,4-Dichlorobenzene	10.000	10.317	-3.2	101	0.00
84	T	n-Butylbenzene	10.000	10.737	-7.4	97	0.00
85	T	1,2-Dichlorobenzene	10.000	10.224	-2.2	98	0.00
86	T	1,2-Dibromo-3-chloropropane	10.000	9.951	0.5	92	0.00
87	T	1,2,4-Trichlorobenzene	10.000	9.727	2.7	99	0.00
88	T	Hexachlorobutadiene	10.000	11.164	-11.6	98	0.00
89	T	Naphthalene	10.000	9.013	9.9	100	0.00
90	T	1,2,3-Trichlorobenzene	10.000	9.930	0.7	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

cr 9/20/07
2016

DAILY CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW189
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J385
BFB Injection Date : 11/06/07
BFB Injection Time : 22:37
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.32
75	30.0 - 60.0% of mass 95	45.06
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.88
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	82.16
175	5.0 - 9.0% of mass 174	5.89(7.2)1
176	95.0 - 101.0% of mass 174	80.74(98.3)1
177	5.0 - 9.0% of mass 176	5.39(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV006I26114	RKW190	11/06/07	23:15
2	MBLK1W	V006K18Q	RKW195	11/07/07	02:29
3	LCS1W	V006K18L	RKW192	11/07/07	00:33
4	LCD1W	V006K18C	RKW193	11/07/07	01:12
5	LTB-102907	J385-01	RKW205	11/07/07	08:58
6	LEB2-102907	J385-02	RKW206	11/07/07	09:37

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RIW506
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J385
Date Analyzed: 09/25/07
Time Analyzed: 21:39
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2704069	11.21	2411758	17.42	970375	23.96
	UPPER LIMIT	5408138	11.71	4823516	17.92	1940750	24.46
	LOWER LIMIT	1352035	10.71	1205879	16.92	485188	23.46
	SAMPLE ID						
1	VSTD010	2388599	11.20	2153855	17.41	912618	23.95
2	MBLK1W	3103732	11.19	2822469	17.41	1061273	23.95
3	LCS1W	2642292	11.19	2352906	17.41	968072	23.95
4	LCD1W	2939503	11.19	2603306	17.41	1089125	23.95
5	LTB-102907	2641945	11.18	2370973	17.40	901770	23.94
6	LEB2-102907	2816415	11.18	2451048	17.40	889323	23.94

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	10.000	12.204	-22.0#	108	0.00
3	P,T	Chloromethane	10.000	10.356	-3.6	98	0.00
4	C,T	Vinyl chloride	10.000	10.866	-8.7	92	0.00
5	T	Bromomethane	10.000	9.488	5.1	89	0.00
6	T	Chloroethane	10.000	9.705	2.9	82	-0.01
7	T	Dichlorofluoromethane	10.000	9.356	6.4	84	-0.01
8	T	Trichlorofluoromethane	10.000	9.600	4.0	87	0.00
9	T	Acrolein	20.000	12.112	39.4#	52	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.617	-6.2	94	0.00
11	T	Acetone	20.000	16.026	19.9	68	0.00
12	CMT	1,1-Dichloroethene	10.000	8.920	10.8	80	0.00
13	T	tert-Butyl alcohol	50.000	44.433	11.1	76	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	10.983	-9.8	88	0.00
17	T	Methylene chloride	10.000	8.463	15.4	74	0.00
18	T	Carbon disulfide	10.000	10.485	-4.8	94	0.00
19	T	Acrylonitrile	30.000	31.030	-3.4	88	0.00
20	T	tert-Butyl methyl ether (MT	10.000	10.356	-3.6	91	0.00
21	T	trans-1,2-Dichloroethene	10.000	9.571	4.3	86	0.00
22	T	Isopropyl ether (DIPE)	10.000	8.777	12.2	78	0.00
23	T	Vinyl acetate	10.000	8.419	15.8	77	0.00
24	P,T	1,1-Dichloroethane	10.000	9.948	0.5	90	0.00
25	T	tert-Butyl ethyl ether (ETB	10.000	9.943	0.6	88	0.00
26	T	2-Butanone	20.000	18.928	5.4	84	0.00
27	T	2,2-Dichloropropane	10.000	9.190	8.1	84	0.00
28	T	cis-1,2-Dichloroethene	10.000	9.471	5.3	85	0.00
29	C,T	Chloroform	10.000	10.375	-3.8	92	0.00
30	T	Bromochloromethane	10.000	9.236	7.6	83	0.00
31	T	1,1,1-Trichloroethane	10.000	9.918	0.8	88	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	11.818	-18.2	112	-0.02
34	S	1,2-Dichloroethane-d4	10.000	8.752	12.5	80	0.00
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	89	0.00
36	T	1,1-Dichloropropene	10.000	10.205	-2.1	95	0.00
37	T	Carbon tetrachloride	10.000	9.329	6.7	85	0.00
38	T	1,2-Dichloroethane	10.000	9.004	10.0	79	0.00
39	TM	Benzene	10.000	10.965	-9.6	100	0.00
40	TM	Trichloroethene	10.000	11.215	-12.1	102	0.00

(#) = Out of Range

2020

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.469	-4.7	95	0.00
43	T	Bromodichloromethane	10.000	10.389	-3.9	92	0.00
44	T	Dibromomethane	10.000	11.188	-11.9	98	0.00
45	T	2-Chloroethyl vinyl ether	10.000	13.683	-36.8#	128	0.00
46	T	4-Methyl-2-pentanone	20.000	20.630	-3.1	91	0.00
47	T	cis-1,3-Dichloropropene	10.000	11.493	-14.9	100	0.00
48	S	Toluene-d8	10.000	10.012	-0.1	95	0.00
49	CMT	Toluene	10.000	10.945	-9.5	101	0.00
50	T	Ethyl methacrylate	10.000	11.341	-13.4	98	0.00
51	T	trans-1,3-Dichloropropene	10.000	11.089	-10.9	95	0.00
52	T	2-Hexanone	20.000	21.026	-5.1	89	0.00
53	T	1,1,2-Trichloroethane	10.000	11.806	-18.1	105	0.00
54	T	1,3-Dichloropropane	10.000	11.662	-16.6	101	0.00
55	T	Tetrachloroethene	10.000	11.155	-11.5	100	0.00
56	T	Dibromochloromethane	10.000	11.575	-15.7	94	0.00
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	12.817	-28.2#	119	0.00
59	T	1-Chlorohexane	10.000	11.407	-14.1	103	0.00
60	PM	Chlorobenzene	10.000	11.646	-16.5	104	0.00
61	T	1,1,1,2-Tetrachloroethane	10.000	11.185	-11.9	99	0.00
62	C,T	Ethylbenzene	10.000	11.047	-10.5	100	0.00
63	T	m-Xylene & p-Xylene	20.000	21.891	-9.5	99	0.00
64	T	o-Xylene	10.000	11.046	-10.5	100	0.00
65	T	Styrene	10.000	12.496	-25.0#	109	-0.01
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	94	0.00
67	T	Isopropylbenzene	10.000	10.678	-6.8	104	0.00
68	P,T	Bromoform	10.000	10.973	-9.7	99	0.00
69	P,T	1,1,2,2-Tetrachloroethane	10.000	11.509	-15.1	111	0.00
70	S	4-Bromofluorobenzene	10.000	9.103	9.0	96	-0.01
71	T	1,2,3-Trichloropropane	10.000	9.934	0.7	96	0.00
72	T	trans-1,4-Dichloro-2-butene	10.000	8.509	14.9	90	0.00
73	T	n-Propylbenzene	10.000	10.835	-8.4	103	-0.02
74	T	Bromobenzene	10.000	11.014	-10.1	107	-0.01
75	T	1,3,5-Trimethylbenzene	10.000	10.827	-8.3	104	-0.01
76	T	2-Chlorotoluene	10.000	10.572	-5.7	105	-0.02
77	T	4-Chlorotoluene	10.000	10.194	-1.9	97	0.00
78	T	tert-Butylbenzene	10.000	10.902	-9.0	104	0.00
79	T	1,2,4-Trimethylbenzene	10.000	10.957	-9.6	104	-0.01
80	T	sec-Butylbenzene	10.000	11.331	-13.3	107	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	11.767	-17.7	107	-0.01
82	T	1,3-Dichlorobenzene	10.000	11.532	-15.3	107	-0.01
83	T	1,4-Dichlorobenzene	10.000	11.343	-13.4	109	-0.01
84	T	n-Butylbenzene	10.000	11.672	-16.7	103	-0.01
85	T	1,2-Dichlorobenzene	10.000	11.491	-14.9	108	-0.01
86	T	1,2-Dibromo-3-chloropropane	10.000	11.985	-19.8	109	-0.01
87	T	1,2,4-Trichlorobenzene	10.000	10.446	-4.5	105	-0.01
88	T	Hexachlorobutadiene	10.000	10.897	-9.0	94	-0.01
89	T	Naphthalene	10.000	10.170	-1.7	111	-0.01
90	T	1,2,3-Trichlorobenzene	10.000	10.414	-4.1	102	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	0.278	0.339	-21.9#	108	0.00
3	P,T	Chloromethane	0.368	0.381	-3.5	98	0.00
4	C,T	Vinyl chloride	0.292	0.317	-8.6	92	0.00
5	T	Bromomethane	0.217	0.206	5.1	89	0.00
6	T	Chloroethane	0.192	0.186	3.1	82	-0.01
7	T	Dichlorofluoromethane	0.777	0.727	6.4	84	-0.01
8	T	Trichlorofluoromethane	0.504	0.484	4.0	87	0.00
9	T	Acrolein	0.023	0.014	39.1#	52	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.257	0.273	-6.2	94	0.00
11	T	Acetone	0.077	0.057	26.0#	68	0.00
12	CMT	1,1-Dichloroethene	0.710	0.633	10.8	80	0.00
13	T	tert-Butyl alcohol	0.020	0.018	10.0	76	0.00
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.364	0.400	-9.9	88	0.00
17	T	Methylene chloride	0.802	0.502	37.4#	74	0.00
18	T	Carbon disulfide	1.239	1.299	-4.8	94	0.00
19	T	Acrylonitrile	0.056	0.058	-3.6	88	0.00
20	T	tert-Butyl methyl ether (MT	0.595	0.617	-3.7	91	0.00
21	T	trans-1,2-Dichloroethene	0.645	0.618	4.2	86	0.00
22	T	Isopropyl ether (DIPE)	1.359	1.192	12.3	78	0.00
23	T	Vinyl acetate	0.505	0.425	15.8	77	0.00
24	P,T	1,1-Dichloroethane	0.752	0.748	0.5	90	0.00
25	T	tert-Butyl ethyl ether (ETB	0.918	0.913	0.5	88	0.00
26	T	2-Butanone	0.091	0.086	5.5	84	0.00
27	T	2,2-Dichloropropane	0.539	0.495	8.2	84	0.00
28	T	cis-1,2-Dichloroethene	0.671	0.636	5.2	85	0.00
29	C,T	Chloroform	0.682	0.707	-3.7	92	0.00
30	T	Bromochloromethane	0.305	0.282	7.5	83	0.00
31	T	1,1,1-Trichloroethane	0.601	0.596	0.8	88	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.671	0.793	-18.2	112	-0.02
34	S	1,2-Dichloroethane-d4	0.348	0.304	12.6	80	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	89	0.00
36	T	1,1-Dichloropropene	0.205	0.209	-2.0	95	0.00
37	T	Carbon tetrachloride	0.544	0.508	6.6	85	0.00
38	T	1,2-Dichloroethane	0.502	0.452	10.0	79	0.00
39	TM	Benzene	1.509	1.654	-9.6	100	0.00
40	TM	Trichloroethene	0.425	0.477	-12.2	102	0.00

(#) = Out of Range

2023

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.389	0.407	-4.6	95	0.00
43	T	Bromodichloromethane	0.485	0.504	-3.9	92	0.00
44	T	Dibromomethane	0.158	0.177	-12.0	98	0.00
45	T	2-Chloroethyl vinyl ether	0.052	0.078	-50.0#	128	0.00
46	T	4-Methyl-2-pentanone	0.257	0.265	-3.1	91	0.00
47	T	cis-1,3-Dichloropropene	0.471	0.542	-15.1	100	0.00
48	S	Toluene-d8	1.255	1.256	-0.1	95	0.00
49	CMT	Toluene	1.511	1.654	-9.5	101	0.00
50	T	Ethyl methacrylate	0.272	0.308	-13.2	98	0.00
51	T	trans-1,3-Dichloropropene	0.353	0.392	-11.0	95	0.00
52	T	2-Hexanone	0.134	0.140	-4.5	89	0.00
53	T	1,1,2-Trichloroethane	0.205	0.242	-18.0	105	0.00
54	T	1,3-Dichloropropane	0.382	0.445	-16.5	101	0.00
55	T	Tetrachloroethene	0.357	0.398	-11.5	100	0.00
56	T	Dibromochloromethane	0.250	0.290	-16.0	94	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.154	0.197	-27.9#	119	0.00
59	T	1-Chlorohexane	0.576	0.657	-14.1	103	0.00
60	PM	Chlorobenzene	0.929	1.081	-16.4	104	0.00
61	T	1,1,1,2-Tetrachloroethane	0.318	0.356	-11.9	99	0.00
62	C,T	Ethylbenzene	1.727	1.908	-10.5	100	0.00
63	T	m-Xylene & p-Xylene	1.322	1.447	-9.5	99	0.00
64	T	o-Xylene	1.370	1.513	-10.4	100	0.00
65	T	Styrene	0.917	1.146	-25.0#	109	-0.01
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	94	0.00
67	T	Isopropylbenzene	4.174	4.457	-6.8	104	0.00
68	P,T	Bromoform	0.310	0.341	-10.0	99	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.575	0.662	-15.1	111	0.00
70	S	4-Bromofluorobenzene	1.240	1.129	9.0	96	-0.01
71	T	1,2,3-Trichloropropane	0.116	0.115	0.9	96	0.00
72	T	trans-1,4-Dichloro-2-butene	0.110	0.093	15.5	90	0.00
73	T	n-Propylbenzene	5.172	5.604	-8.4	103	-0.02
74	T	Bromobenzene	0.928	1.023	-10.2	107	-0.01
75	T	1,3,5-Trimethylbenzene	3.412	3.694	-8.3	104	-0.01
76	T	2-Chlorotoluene	2.994	3.166	-5.7	105	-0.02
77	T	4-Chlorotoluene	2.954	3.011	-1.9	97	0.00
78	T	tert-Butylbenzene	3.091	3.370	-9.0	104	0.00
79	T	1,2,4-Trimethylbenzene	3.249	3.560	-9.6	104	-0.01
80	T	sec-Butylbenzene	4.418	5.006	-13.3	107	-0.01

(#) = Out of Range

2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	3.327	3.915	-17.7	107	-0.01
82	T	1,3-Dichlorobenzene	1.713	1.975	-15.3	107	-0.01
83	T	1,4-Dichlorobenzene	1.684	1.910	-13.4	109	-0.01
84	T	n-Butylbenzene	2.932	3.422	-16.7	103	-0.01
85	T	1,2-Dichlorobenzene	1.459	1.677	-14.9	108	-0.01
86	T	1,2-Dibromo-3-chloropropane	0.071	0.086	-21.1#	109	-0.01
87	T	1,2,4-Trichlorobenzene	0.742	0.891	-20.1#	105	-0.01
88	T	Hexachlorobutadiene	0.621	0.677	-9.0	94	-0.01
89	T	Naphthalene	0.870	1.066	-22.5#	111	-0.01
90	T	1,2,3-Trichlorobenzene	0.592	0.692	-16.9	102	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOG

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.6.07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A06 -031

BATCH V006 I 26 114

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW188	BFB06 K17	2ml				
02	189	18					10:37 pm
03	190	V006 I26 114	1ml/5ml				
04	191	115					
05	192	V006K182					
06	193	C					
07	194	D	25ml				
08	195	Q					
09	196	07J344-01	25ml	1	<2		
10	197	-02					
11	198	07K042-01					
12	199	-02					
13	200	-03					
14	201	07J955-01					
15	202	-02					
16	203	-03					
17	204	-04					10Y
18	205	07J385-01					
19	206	-02					
20	207	07J352-06R					10Y (10:16 am)
21							
22							
23					DW	11.7.07	
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	9.26.07
ICAL ID	V006 I 26

STANDARDS NAME	ID	CONC. (mg/L)
DCC	Std .13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.5.1	50/25
LCS	19.3	
LCS	.13.3	
LCS	.2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K06

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DW

Date Disposed: 11/7/07

Disposed By: DW

2827

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 9/25/07 ☐ 5-ml Purge ☑ 25-ml Purge **Book # A06 -030**

BATCH V006I26

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RIW500	BFB06I52	2µL	NA	NA	NA	Ket/AA 8260 TBA
02	501	V006I261	.06/.15/.03µL				.6 .3 1.5 ppb
03	502	2	.1/.25/.05µL				1 .5 2.5
04	503	3	.2/.5/.1µL				2 1 5
05	504	4	.4/1/.2µL				4 2 10
06	505	5	1/2.5/.5µL				10 5 25
07	506	6	2/5/1µL				20 10 50
08	507	7	4/10/2µL				40 20 100
09	508	8	6/15/3µL				60 30 150
10	509	9	8/20/4µL				80 40 200
11	510	10	10/25/5µL				100 50 250
12	511	IS/SS	25mL				
13	512	V006I52B	25mL				
14	513	IV006I261	2/5/1µL				
15	514	2	2/5/1µL				
16	515	Rinse					
17	516	Rinse					
18							
19							
20							
21							
22							
23							
24							
25							CGM 9/25/07

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	9/25/07
ICAL ID	V006I26
CGM 9/25/07	STANDARDS

NAME	ID	CONC. (mg/L)
DCC Ket/AA ~~60~~	SV1 - 13 - 03 - 1	250
DCC 8260	- 01 - 1	50/250
DCC Gases	- 01 - 3	250
BFB	- 05 - 3	50
IS/SURR.	- 05 - 1	250
LCS Ket/AA	- 03 - 2	250
LCS 8260	SV1C - 11 - 99 - 1	50/250
LCS Gases	- 95 - 2	250
SOLVENT IS	SV1-13-04-3 ID	250
METHANOL SS	SV1-13-05-2	250
DATA FILE	07I25	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: CGM

Date Disposed: 9/26/07

Disposed By: CGM

2628

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS
(SOIL)

SDG#: 07J385

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J385

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Four (4) soil samples were received on 10/30/07 for Volatile Organic analysis by Method 5035/8260B in accordance with USEPA SW846, 3rd edition.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J385
Instrument ID : T-067

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	V067K19B	1	NA	11/07/0704:16	11/07/0704:16	RKC212	RJC757	V067K19	Method Blank
LCS1S	V067K19L	1	NA	11/07/0703:01	11/07/0703:01	RKC210	RJC757	V067K19	Lab Control Sample (LCS)
LCD1S	V067K19C	1	NA	11/07/0703:38	11/07/0703:38	RKC211	RJC757	V067K19	LCS Duplicate
SB5-60	J385-04	.79	8.9	11/07/0706:09	11/07/0706:09	RKC215	RJC757	V067K19	Field Sample
SB1-55	J385-05	.85	9.9	11/07/0706:46	11/07/0706:46	RKC216	RJC757	V067K19	Field Sample
SB1-60	J385-06	.88	5.8	11/07/0707:24	11/07/0707:24	RKC217	RJC757	V067K19	Field Sample
MBLK2S	V067K20B	1	NA	11/07/0716:45	11/07/0716:45	RKC232	RJC757	V067K20	Method Blank
LCS2S	V067K20L	1	NA	11/07/0715:30	11/07/0715:30	RKC230	RJC757	V067K20	Lab Control Sample (LCS)
LCD2S	V067K20C	1	NA	11/07/0716:08	11/07/0716:08	RKC231	RJC757	V067K20	LCS Duplicate
SB5-55	J385-03R	.76	8.1	11/07/0717:23	11/07/0717:23	RKC233	RJC757	V067K20	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/29/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
Batch No.	: 07J385	Date Extracted:	11/07/07 17:23
Sample ID:	SB5-55	Date Analyzed:	11/07/07 17:23
Lab Samp ID:	J385-03R	Dilution Factor:	.76
Lab File ID:	RKC233	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	8.1
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.1	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.1	1.7
1,1,2-TRICHLOROETHANE	ND	4.1	1.7
1,1-DICHLOROETHANE	ND	4.1	1.7
1,1-DICHLOROETHENE	ND	4.1	1.7
1,2-DICHLOROETHANE	ND	4.1	1.7
1,2-DICHLOROPROPANE	ND	4.1	1.7
2-BUTANONE	ND	8.3	4.1
2-HEXANONE	ND	8.3	4.1
4-METHYL-2-PENTANONE	ND	8.3	4.1
ACETONE	ND	8.3	4.1
BENZENE	ND	4.1	1.7
BROMODICHLOROMETHANE	ND	4.1	1.7
BROMOFORM	ND	4.1	1.7
BROMOMETHANE	ND	8.3	1.7
CARBON DISULFIDE	ND	4.1	1.7
CARBON TETRACHLORIDE	ND	4.1	1.7
CHLOROBENZENE	ND	4.1	1.7
CHLOROETHANE	ND	4.1	1.7
CHLOROFORM	ND	4.1	1.7
CHLOROMETHANE	ND	8.3	1.7
CIS-1,2-DICHLOROETHENE	ND	4.1	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.1	1.7
DIBROMOCHLOROMETHANE	ND	4.1	1.7
ETHYLBENZENE	ND	4.1	1.7
M/P-XYLENES	ND	8.3	1.7
MTBE	ND	4.1	1.7
METHYLENE CHLORIDE	ND	8.3	1.7
O-XYLENE	ND	4.1	1.7
STYRENE	ND	4.1	1.7
TETRACHLOROETHENE	ND	4.1	1.7
TOLUENE	ND	4.1	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.1	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.1	1.7
TRICHLOROETHENE	2.5J	4.1	1.7
VINYL CHLORIDE	ND	4.1	1.7
TERT-BUTANOL	ND	17	8.3
DIPE	ND	4.1	1.7
ETBE	ND	4.1	1.7
TAME	ND	4.1	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	60-160
4-BROMOFLUOROBENZENE	90	70-150
TOLUENE-D8	91	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/29/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
Batch No.	: 07J385	Date Extracted:	11/07/07 06:09
Sample ID:	SB5-60	Date Analyzed:	11/07/07 06:09
Lab Samp ID:	J385-04	Dilution Factor:	.79
Lab File ID:	RKC215	Matrix :	SOIL
Ext Btch ID:	V067K19	% Moisture :	8.9
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.3	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.3	1.7
1,1,2-TRICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHENE	ND	4.3	1.7
1,2-DICHLOROETHANE	ND	4.3	1.7
1,2-DICHLOROPROPANE	ND	4.3	1.7
2-BUTANONE	ND	8.7	4.3
2-HEXANONE	ND	8.7	4.3
4-METHYL-2-PENTANONE	ND	8.7	4.3
ACETONE	ND	8.7	4.3
BENZENE	ND	4.3	1.7
BROMODICHLOROMETHANE	ND	4.3	1.7
BROMOFORM	ND	4.3	1.7
BROMOMETHANE	ND	8.7	1.7
CARBON DISULFIDE	ND	4.3	1.7
CARBON TETRACHLORIDE	ND	4.3	1.7
CHLOROBENZENE	ND	4.3	1.7
CHLOROETHANE	ND	4.3	1.7
CHLOROFORM	ND	4.3	1.7
CHLOROMETHANE	ND	8.7	1.7
CIS-1,2-DICHLOROETHENE	ND	4.3	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.3	1.7
DIBROMOCHLOROMETHANE	ND	4.3	1.7
ETHYLBENZENE	ND	4.3	1.7
M/P-XYLENES	ND	8.7	1.7
MTBE	ND	4.3	1.7
METHYLENE CHLORIDE	ND	8.7	1.7
O-XYLENE	ND	4.3	1.7
STYRENE	ND	4.3	1.7
TETRACHLOROETHENE	ND	4.3	1.7
TOLUENE	ND	4.3	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.3	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.3	1.7
TRICHLOROETHENE	2.0J	4.3	1.7
VINYL CHLORIDE	ND	4.3	1.7
TERT-BUTANOL	ND	17	8.7
DIPE	ND	4.3	1.7
ETBE	ND	4.3	1.7
TAME	ND	4.3	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	60-160
4-BROMOFLUOROBENZENE	93	70-150
TOLUENE-D8	91	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/29/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
Batch No.	: 07J385	Date Extracted:	11/07/07 06:46
Sample ID:	SB1-55	Date Analyzed:	11/07/07 06:46
Lab Samp ID:	J385-05	Dilution Factor:	.85
Lab File ID:	RKC216	Matrix :	SOIL
Ext Btch ID:	V067K19	% Moisture :	9.9
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.4	4.7
2-HEXANONE	ND	9.4	4.7
4-METHYL-2-PENTANONE	ND	9.4	4.7
ACETONE	ND	9.4	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.4	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.4	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.4	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	4.4J	9.4	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	ND	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9
TERT-BUTANOL	ND	19	9.4
DIPE	ND	4.7	1.9
ETBE	ND	4.7	1.9
TAME	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	60-160
4-BROMOFLUOROBENZENE	93	70-150
TOLUENE-D8	93	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/29/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
Batch No.	: 07J385	Date Extracted:	11/07/07 07:24
Sample ID:	SB1-60	Date Analyzed:	11/07/07 07:24
Lab Samp ID:	J385-06	Dilution Factor:	.88
Lab File ID:	RKC217	Matrix :	SOIL
Ext Btch ID:	V067K19	% Moisture :	5.8
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.3	4.7
2-HEXANONE	ND	9.3	4.7
4-METHYL-2-PENTANONE	ND	9.3	4.7
ACETONE	ND	9.3	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.3	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.3	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.3	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	ND	9.3	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	ND	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9
TERT-BUTANOL	ND	19	9.3
DIPE	ND	4.7	1.9
ETBE	ND	4.7	1.9
TAME	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	60-160
4-BROMOFLUOROBENZENE	95	70-150
TOLUENE-D8	92	70-140

QC SUMMARIES

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/07/07
Batch No.	: 07J385	Date Extracted:	11/07/07 04:16
Sample ID:	MBLK1S	Date Analyzed:	11/07/07 04:16
Lab Samp ID:	V067K19B	Dilution Factor:	1
Lab File ID:	RKC212	Matrix :	SOIL
Ext Btch ID:	V067K19	% Moisture :	NA
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	70-140
4-BROMOFLUOROBENZENE	92	70-130
TOLUENE-D8	94	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	V067K19B	V067K19L	V067K19C		
LAB FILE ID:	RKC212	RKC210	RKC211		
DATE EXTRACTED:	11/07/0704:16	11/07/0703:01	11/07/0703:38	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0704:16	11/07/0703:01	11/07/0703:38	DATE RECEIVED:	11/07/07
PREP. BATCH:	V067K19	V067K19	V067K19		
CALIB. REF:	RJC757	RJC757	RJC757		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	16.9	84	20.0	16.6	83	2	60-130	50
Benzene	ND	20.0	17.0	85	20.0	16.8	84	1	70-130	50
Chlorobenzene	ND	20.0	17.0	85	20.0	16.9	85	0	70-130	50
Toluene	ND	20.0	16.9	84	20.0	16.9	85	0	70-130	50
Trichloroethene	ND	20.0	16.3	82	20.0	16.6	83	2	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	53.9	108	50.0	52.5	105	70-140
4-Bromofluorobenzene	50.0	45.9	92	50.0	46.6	93	70-130
Toluene-d8	50.0	47.8	96	50.0	47.4	95	70-130

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/07/07
Batch No.	: 07J385	Date Extracted:	11/07/07 16:45
Sample ID:	MBLK2S	Date Analyzed:	11/07/07 16:45
Lab Samp ID:	V067K20B	Dilution Factor:	1
Lab File ID:	RKC232	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	NA
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	70-140
4-BROMOFLUOROBENZENE	90	70-130
TOLUENE-D8	92	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	V067K20B	V067K20L	V067K20C		
LAB FILE ID:	RKC232	RKC230	RKC231		
DATE EXTRACTED:	11/07/0716:45	11/07/0715:30	11/07/0716:08	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0716:45	11/07/0715:30	11/07/0716:08	DATE RECEIVED:	11/07/07
PREP. BATCH:	V067K20	V067K20	V067K20		
CALIB. REF:	RJC757	RJC757	RJC757		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	17.3	87	20.0	17.2	86	1	60-130	50
Benzene	ND	20.0	17.1	85	20.0	16.8	84	2	70-130	50
Chlorobenzene	ND	20.0	17.3	86	20.0	17.0	85	2	70-130	50
Toluene	ND	20.0	17.0	85	20.0	16.7	84	2	70-130	50
Trichloroethene	ND	20.0	16.4	82	20.0	16.5	82	1	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	55.9	112	50.0	47.7	95	70-140
4-Bromofluorobenzene	50.0	47.7	95	50.0	41.9	84	70-130
Toluene-d8	50.0	48.4	97	50.0	42.2	84	70-130

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RJC745
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J385
BFB Injection Date : 10/26/07
BFB Injection Time : 13:40
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.43
75	30.0 - 60.0% of mass 95	39.21
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.05
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	79.04
175	5.0 - 9.0% of mass 174	5.75(7.3)1
176	95.0 - 101.0% of mass 174	76.82(97.2)1
177	5.0 - 9.0% of mass 176	5.19(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD02	V067J261	RJC746	10/26/07	14:17
2	VSTD05	V067J262	RJC747	10/26/07	14:54
3	VSTD010	V067J263	RJC748	10/26/07	15:31
4	VSTD020	V067J264	RJC749	10/26/07	16:08
5	VSTD080	V067J266	RJC751	10/26/07	17:27
6	VSTD100	V067J267	RJC752	10/26/07	18:04
7	VSTD200	V067J268	RJC753	10/26/07	18:42
8	VSTD050	V067J2610	RJC757	10/26/07	21:11
9	VSTD050	IV067J262	RJC759	10/26/07	22:27

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T067
Beginning DateTime :10/26/07 17:27
Spike Units :PPB
IC File :RJC757

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :10/26/07 18:42
HPChem Method :V067J26

M	IDX	Parameters	2 14:17 RJC746	5 14:54 RJC747	10 15:31 RJC748	20 16:08 RJC749	50 21:11 RJC757	80 17:27 RJC751	100 18:04 RJC752	200 18:42 RJC753	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	0	10.1164
	2	Dichlorodifluoromethane	0.206	0.259	0.250	0.302	0.278	0.244	0.255	0.293	0.261	11.62	3.5139
	3	Chloromethane	0.337	0.355	0.341	0.385	0.356	0.307	0.322	0.356	0.345	6.99	3.9477
	4	Vinyl chloride	0.222	0.272	0.262	0.294	0.238	0.206	------	------	0.249	13.20	4.1474
	5	Bromomethane	0.205	0.220	0.192	0.254	0.235	0.207	0.241	0.282	0.229	12.91	4.8734
	6	Chloroethane	0.137	0.182	0.184	0.215	0.196	0.180	0.181	0.207	0.185	12.57	4.9776
	7	Dichlorofluoromethane	0.514	0.557	0.509	0.587	0.549	0.524	0.601	0.605	0.556	6.96	5.0223
	8	Trichlorofluoromethane	0.283	0.360	0.355	0.412	0.370	0.342	0.352	0.404	0.360	11.04	5.3593
4	9	Acrolein	0.016	0.021	0.018	0.022	0.019	0.018	0.023	0.020	0.020	11.25	5.9235
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.223	0.239	0.225	0.260	0.254	0.235	0.275	0.276	0.248	8.57	5.9365
4	11	Acetone	0.068	0.074	0.060	0.068	0.056	0.051	0.066	0.056	0.062	12.62	5.9924
	12	sec-Propyl alcohol	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	13	1,1-Dichloroethene	0.405	0.445	0.398	0.470	0.453	0.423	0.492	0.493	0.447	8.23	6.2139
5	14	tert-Butyl alcohol	0.021	0.024	0.019	0.022	0.020	0.019	0.025	0.021	0.021	10.72	6.2456
	15	Methyl acetate	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	------	0.417	0.414	0.553	0.536	0.536	------	------	0.491	14.13	6.6771
	17	Methylene chloride	0.601	0.501	0.410	0.463	0.419	0.385	0.456	0.447	0.460	14.56	6.8339
5	18	Acrylonitrile	0.073	0.088	0.073	0.090	0.077	0.071	0.089	0.079	0.080	9.80	6.9531
	19	Carbon disulfide	1.056	1.156	1.061	1.277	1.271	1.190	1.382	1.396	1.224	10.71	6.9680
	20	Acetonitrile	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	21	tert-Butyl methyl ether (MTBE)	0.487	0.548	0.459	0.548	0.521	0.480	0.600	0.572	0.527	9.28	6.9848
	22	trans-1,2-Dichloroethene	0.433	0.479	0.419	0.492	0.479	0.447	0.520	0.514	0.473	7.75	7.2231
	23	Isopropyl ether (DIPE)	0.793	0.892	0.783	0.953	0.900	0.842	1.024	1.014	0.900	10.25	7.5116
	24	Vinyl acetate	0.361	0.422	0.362	0.448	0.441	0.405	0.505	0.475	0.428	11.91	7.6624
	25	1,1-Dichloroethane	0.529	0.580	0.508	0.614	0.589	0.544	0.631	0.654	0.581	8.83	7.7537
	26	tert-Butyl ethyl ether (ETBE)	0.603	0.695	0.616	0.727	0.696	0.647	0.792	0.773	0.693	9.98	8.0311
4	27	2-Butanone	0.110	0.128	0.112	0.127	0.107	0.099	0.126	0.113	0.115	9.27	8.2173
	28	2,2-Dichloropropane	------	0.290	0.277	0.332	0.351	0.323	0.390	0.393	0.337	13.37	8.4714
	29	cis-1,2-Dichloroethene	0.454	0.495	0.444	0.524	0.500	0.463	0.538	0.533	0.494	7.45	8.5319
	30	Chloroform	0.478	0.522	0.468	0.563	0.534	0.495	0.588	0.589	0.530	8.96	8.7330
	31	Bromochloromethane	0.259	0.289	0.252	0.292	0.262	0.249	0.295	0.280	0.272	6.99	8.9713
	32	Cyclohexane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	1,1,1-Trichloroethane	0.353	0.385	0.357	0.416	0.411	0.385	0.450	0.459	0.402	9.77	9.2711
	34	1,1-Dichloropropene	0.128	0.145	0.131	0.153	0.153	0.140	0.164	0.163	0.147	9.20	9.4629
	35	tert-Amyl methyl ether (TAME)	0.598	0.668	0.593	0.711	0.668	0.624	0.762	0.736	0.670	9.39	9.5243
4	36	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	1,2-Dichloroethane-d4	------	0.232	0.218	0.253	0.235	0.220	0.227	0.245	0.233	5.50	9.6566
	38	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	0	15.6572
	39	Carbon tetrachloride	0.332	0.366	0.354	0.422	0.426	0.398	0.453	0.473	0.403	12.26	9.6360
	40	1,2-Dichloroethane	0.323	0.345	0.321	0.367	0.341	0.314	0.373	0.365	0.343	6.72	9.7812
	41	Benzene	1.452	1.501	1.382	1.626	1.594	1.478	1.729	1.745	1.563	8.43	9.8501
	42	Trichloroethene	0.415	0.448	0.413	0.484	0.483	0.442	0.508	0.518	0.464	8.67	10.6898
	43	Methylcyclohexane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	44	1,2-Dichloropropane	0.360	0.390	0.367	0.421	0.410	0.379	0.446	0.449	0.403	8.51	10.9356
	45	Bromodichloromethane	0.388	0.414	0.392	0.453	0.448	0.418	0.487	0.492	0.437	9.13	11.3303
	46	Dibromomethane	0.229	0.241	0.222	0.259	0.245	0.227	0.271	0.260	0.244	7.35	11.4532
	47	2-Chloroethyl vinyl ether	0.157	0.179	0.162	0.190	0.191	0.177	0.223	0.209	0.186	11.99	11.6412
4	48	4-Methyl-2-pentanone	0.559	0.470	0.360	0.383	0.320	0.294	0.369	0.326	0.385	22.83	11.6878
	49	cis-1,3-Dichloropropene	0.429	0.500	0.479	0.559	0.573	0.531	0.634	0.643	0.543	13.69	12.1532
	50	Toluene-d8	------	1.146	1.162	1.355	1.356	1.224	1.246	1.445	1.276	8.74	12.6377
	51	Toluene	1.421	1.503	1.423	1.649	1.641	1.507	1.758	1.782	1.586	8.98	12.7825
	52	Ethyl methacrylate	0.317	0.356	0.330	0.396	0.387	0.352	0.443	0.412	0.374	11.47	12.8402
	53	trans-1,3-Dichloropropene	0.277	0.345	0.340	0.426	0.437	0.407	0.495	0.496	0.403	19.27	13.0060
4	54	2-Hexanone	0.179	0.217	0.197	0.233	0.196	0.184	0.236	0.207	0.206	10.18	13.2089
	55	1,1,2-Trichloroethane	0.282	0.292	0.266	0.317	0.299	0.274	0.334	0.321	0.298	8.14	13.3467
	56	1,3-Dichloropropane	0.444	0.504	0.450	0.524	0.494	0.460	0.551	0.538	0.496	8.25	13.8159
	57	Tetrachloroethene	0.302	0.323	0.306	0.358	0.347	0.323	0.372	0.383	0.339	8.92	14.0486
	58	Dibromochloromethane	0.273	0.321	0.301	0.372	0.370	0.349	0.425	------	0.345	14.75	14.4653

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	59	1,2-Dibromoethane	0.305	0.341	0.307	0.372	0.346	0.324	0.396	0.381	0.346	9.76	14.8939
	60	1-Chlorohexane	0.493	0.515	0.544	0.636	0.658	0.589	0.689	0.718	0.605	13.71	15.0019
	61	Chlorobenzene	1.032	1.081	1.014	1.187	1.142	1.071	1.243	1.284	1.132	8.75	15.7466
	62	1,1,1,2-Tetrachloroethane	0.270	0.299	0.283	0.346	0.346	0.325	0.385	0.395	0.331	13.81	15.7913
	63	Ethylbenzene	1.605	1.650	1.556	1.847	1.809	1.693	1.973	2.010	1.768	9.55	15.7838
2	64	m-Xylene & p-Xylene	1.164	1.248	1.175	1.383	1.379	1.276	1.493	------	1.303	9.28	15.9399
	65	o-Xylene	1.143	1.198	1.151	1.360	1.330	1.221	1.417	1.463	1.285	9.60	16.9541
	66	Styrene	0.990	1.063	1.011	1.174	1.157	1.074	1.257	1.306	1.129	10.12	17.0249
	67	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	0	22.4314
	68	Isopropylbenzene	3.532	3.796	3.726	4.370	4.376	4.051	4.684	4.899	4.179	11.57	17.7417
	69	Bromoform	------	0.485	0.469	0.565	0.569	0.539	0.658	0.646	0.562	12.89	17.9330
	70	1,1,2,2-Tetrachloroethane	0.946	1.088	0.940	1.074	1.007	0.938	1.143	1.073	1.026	7.72	18.1476
	71	4-Bromofluorobenzene	------	1.076	1.053	1.219	1.198	1.092	1.110	1.259	1.144	7.01	18.4011
	72	1,2,3-Trichloropropane	0.156	0.189	0.163	0.174	0.160	0.149	0.177	0.167	0.167	7.62	18.5181
	73	trans-1,4-Dichloro-2-butene	------	0.183	0.171	0.205	0.202	0.192	0.238	0.229	0.203	11.79	18.6203
	74	n-Propylbenzene	4.471	4.807	4.944	5.654	5.755	5.349	6.154	5.634	5.346	10.52	18.7211
	75	Bromobenzene	0.922	1.007	0.937	1.081	1.077	1.009	1.164	------	1.028	8.33	18.9529
	76	1,3,5-Trimethylbenzene	2.785	2.940	2.981	3.445	3.487	3.268	3.754	3.874	3.317	11.88	19.0969
	77	2-Chlorotoluene	2.700	2.720	2.702	3.213	3.118	2.938	3.215	3.405	3.001	9.17	19.2439
	78	4-Chlorotoluene	2.657	2.684	2.619	2.967	2.962	2.740	3.254	3.349	2.904	9.62	19.3352
	79	tert-Butylbenzene	2.452	2.583	2.761	3.125	3.206	3.004	3.401	3.558	3.011	12.92	20.0036
	80	1,2,4-Trimethylbenzene	2.738	2.928	2.989	3.416	3.473	3.248	3.705	3.887	3.298	12.05	20.1172
	81	sec-Butylbenzene	3.903	4.179	4.413	5.176	5.188	4.791	5.578	5.682	4.864	13.42	20.5528
	82	p-Isopropyltoluene	------	3.194	3.495	3.982	4.155	3.855	4.456	4.718	3.979	13.26	20.8818
	83	1,3-Dichlorobenzene	1.815	1.830	1.784	2.074	2.079	1.919	2.238	2.309	2.006	9.97	21.2399
	84	1,4-Dichlorobenzene	1.770	1.885	1.819	2.087	2.049	1.914	2.212	2.298	2.004	9.43	21.5061
	85	n-Butylbenzene	2.181	2.690	2.921	3.474	3.798	3.557	4.081	4.341	3.380	21.66	21.9585
	86	1,2-Dichlorobenzene	1.617	1.674	1.596	1.870	1.798	1.668	1.972	1.993	1.774	8.91	22.5059
	87	1,2-Dibromo-3-chloropropane	------	0.142	0.125	0.160	0.153	0.144	0.183	0.169	0.154	12.48	24.5863
	88	1,2,4-Trichlorobenzene	------	0.764	0.795	0.959	1.012	0.943	1.082	1.150	0.958	14.74	27.0036
	89	Hexachlorobutadiene	0.453	0.464	0.513	0.602	0.591	0.549	0.628	0.650	0.556	13.30	27.3505
	90	Naphthalene	------	1.263	1.185	1.535	1.689	1.591	1.941	2.027	1.605	19.65	27.7504
	91	1,2,3-Trichlorobenzene	------	0.683	0.701	0.837	0.858	0.802	0.925	0.961	0.824	12.72	28.4292

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.8 Max_%RSD : 22.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
48	4-Methyl-2-pentanone	0.04235	0.32582	0.9964
53	trans-1,3-Dichloropropene	-0.01315	0.47653	0.9967
85	n-Butylbenzene	-0.13002	4.10980	0.9969
90	Naphthalene	-0.11753	1.93833	0.9954

2915

WT-07

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D Vial: 16
Acq On : 26 Oct 2007 10:27 pm Operator: CR
Sample : IV067J262 50ppb Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	50.000	51.268	-2.5	98	0.00
3	P,T	Chloromethane	50.000	48.189	3.6	95	0.00
4	C,T	Vinyl chloride	50.000	46.504	7.0	99	-0.01
5	T	Bromomethane	50.000	53.396	-6.8	106	0.00
6	T	Chloroethane	50.000	50.678	-1.4	98	0.00
7	T	Dichlorofluoromethane	50.000	46.816	6.4	97	-0.01
8	T	Trichlorofluoromethane	50.000	45.647	8.7	91	0.00
9	T	Acrolein	200.000	242.271	-21.1#	127	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	49.309	1.4	98	0.00
11	T	Acetone	200.000	170.782	14.6	98	0.00
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	48.013	4.0	97	0.00
14	T	tert-Butyl alcohol	250.000	245.069	2.0	106	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	47.728	4.5	89	-0.01
17	T	Methylene chloride	50.000	42.332	15.3	95	0.00
18	T	Acrylonitrile	250.000	249.598	0.2	106	0.00
19	T	Carbon disulfide	50.000	46.521	7.0	91	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	51.561	-3.1	106	0.00
22	T	trans-1,2-Dichloroethene	50.000	47.638	4.7	96	0.00
23	T	Isopropyl ether (DIPE)	50.000	51.670	-3.3	105	0.00
24	T	Vinyl acetate	50.000	44.226	11.5	87	0.00
25	P,T	1,1-Dichloroethane	50.000	47.595	4.8	96	0.00
26	T	tert-Butyl ethyl ether (ETB	50.000	51.977	-4.0	106	0.00
27	T	2-Butanone	200.000	179.828	10.1	98	0.00
28	T	2,2-Dichloropropane	50.000	49.534	0.9	97	0.00
29	T	cis-1,2-Dichloroethene	50.000	49.292	1.4	99	0.00
30	C,T	Chloroform	50.000	47.015	6.0	95	0.00
31	T	Bromochloromethane	50.000	48.307	3.4	102	-0.01
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	49.134	1.7	98	0.00
34	T	1,1-Dichloropropene	50.000	50.553	-1.1	99	-0.01
35	T	tert-Amyl methyl ether (TAM	50.000	51.309	-2.6	105	0.00
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	47.885	4.2	97	-0.01
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	104	0.00
39	T	Carbon tetrachloride	50.000	50.402	-0.8	99	0.00
40	T	1,2-Dichloroethane	50.000	46.928	6.1	98	0.00

(#) = Out of Range

11-2-07

2047

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D Vial: 16
Acq On : 26 Oct 2007 10:27 pm Operator: CR
Sample : IV067J262 50ppb Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	48.463	3.1	99	0.00
42	M,T	Trichloroethene	50.000	50.125	-0.3	100	0.00
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	50.950	-1.9	104	0.00
45	T	Bromodichloromethane	50.000	47.490	5.0	96	-0.01
46	T	Dibromomethane	50.000	49.687	0.6	103	0.00
47	T	2-Chloroethyl vinyl ether	50.000	46.976	6.0	95	0.00
48	T	4-Methyl-2-pentanone	200.000	181.028	9.5	99	-0.01
49	T	cis-1,3-Dichloropropene	50.000	45.819	8.4	90	0.00
50	S	Toluene-d8	50.000	49.772	0.5	98	-0.01
51	C,TM	Toluene	50.000	50.610	-1.2	102	0.00
52	T	Ethyl methacrylate	50.000	50.752	-1.5	102	0.00
53	T	trans-1,3-Dichloropropene	50.000	41.176	17.6	90	0.00
54	T	2-Hexanone	200.000	184.465	7.8	101	0.00
55	T	1,1,2-Trichloroethane	50.000	50.339	-0.7	104	0.00
56	T	1,3-Dichloropropane	50.000	49.979	0.0	104	0.00
57	T	Tetrachloroethene	50.000	48.543	2.9	99	0.00
58	T	Dibromochloromethane	50.000	51.337	-2.7	99	0.00
59	T	1,2-Dibromoethane	50.000	49.659	0.7	103	0.00
60	T	1-Chlorohexane	50.000	51.215	-2.4	98	0.00
61	P,M	Chlorobenzene	50.000	46.898	6.2	97	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	51.842	-3.7	103	0.00
63	C,T	Ethylbenzene	50.000	50.827	-1.7	103	0.00
64	T	m-Xylene & p-Xylene	100.000	103.221	-3.2	101	0.00
65	T	o-Xylene	50.000	50.884	-1.8	102	0.00
66	T	Styrene	50.000	50.722	-1.4	103	0.00
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	103	0.00
68	T	Isopropylbenzene	50.000	52.097	-4.2	103	0.00
69	P,T	Bromoform	50.000	49.192	1.6	100	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	49.293	1.4	104	0.00
71	S	4-Bromofluorobenzene	50.000	48.945	2.1	97	0.00
72	T	1,2,3-Trichloropropane	50.000	49.276	1.4	106	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	50.096	-0.2	104	0.00
74	T	n-Propylbenzene	50.000	53.788	-7.6	103	0.00
75	T	Bromobenzene	50.000	51.126	-2.3	101	0.00
76	T	1,3,5-Trimethylbenzene	50.000	51.192	-2.4	101	0.00
77	T	2-Chlorotoluene	50.000	49.792	0.4	99	0.00
78	T	4-Chlorotoluene	50.000	48.025	4.0	97	0.00
79	T	tert-Butylbenzene	50.000	52.571	-5.1	102	0.00
80	T	1,2,4-Trimethylbenzene	50.000	50.236	-0.5	99	0.00

(#) = Out of Range

11-2-07

2048

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D Vial: 16
Acq On : 26 Oct 2007 10:27 pm Operator: CR
Sample : IVO67J262 50ppb Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	52.876	-5.8	102	-0.01
82	T	p-Isopropyltoluene	50.000	50.966	-1.9	101	0.00
83	T	1,3-Dichlorobenzene	50.000	49.207	1.6	98	0.00
84	T	1,4-Dichlorobenzene	50.000	48.247	3.5	98	0.00
85	T	n-Butylbenzene	50.000	46.085	7.8	100	0.00
86	T	1,2-Dichlorobenzene	50.000	48.515	3.0	99	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	49.895	0.2	104	-0.01
88	T	1,2,4-Trichlorobenzene	50.000	51.430	-2.9	101	-0.01
89	T	Hexachlorobutadiene	50.000	52.018	-4.0	101	0.00
90	T	Naphthalene	50.000	45.348	9.3	100	0.00
91	T	1,2,3-Trichlorobenzene	50.000	51.570	-3.1	102	0.00

pa 11-2-07

(#) = Out of Range SPCC's out = 0 CCC's out = 0

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKC207
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J385
BFB Injection Date : 11/07/07
BFB Injection Time : 01:09
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.25
75	30.0 - 60.0% of mass 95	38.38
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.93
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	81.02
175	5.0 - 9.0% of mass 174	5.96(7.4)1
176	95.0 - 101.0% of mass 174	78.25(96.6)1
177	5.0 - 9.0% of mass 176	5.04(6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV067J26159	RKC208	11/07/07	01:46
2	MBLK1S	V067K19B	RKC212	11/07/07	04:16
3	LCS1S	V067K19L	RKC210	11/07/07	03:01
4	LCD1S	V067K19C	RKC211	11/07/07	03:38
5	SB5-60	J385-04	RKC215	11/07/07	06:09
6	SB1-55	J385-05	RKC216	11/07/07	06:46
7	SB1-60	J385-06	RKC217	11/07/07	07:24

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RJC757
Instrument ID: T-067
GC Column: RTX502.2 ID: 0.32mm (mm)

Project:LMC BEAUMONT SITE 2
SDG No.: 07J385
Date Analyzed: 10/26/07
Time Analyzed: 21:11
Heated Purge: (Y/N)

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3737727	10.10	3162265	15.64	1255225	22.42
	UPPER LIMIT	7475454	10.60	6324530	16.14	2510450	22.92
	LOWER LIMIT	1868864	9.60	1581133	15.14	627613	21.92
	SAMPLE ID						
1	VSTD050	2839783	10.10	2468156	15.64	975445	22.42
2	MBLK1S	2721492	10.11	2371069	15.65	950142	22.42
3	LCS1S	2619949	10.10	2347226	15.64	976945	22.42
4	LCD1S	2470452	10.11	2185986	15.65	899349	22.42
5	SB5-60	2697630	10.10	2363937	15.65	906185	22.41
6	SB1-55	2605379	10.10	2318804	15.64	882552	22.40
7	SB1-60	2499133	10.10	2175549	15.64	789017	22.41

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKC208.D Vial: 3
Acq On : 7 Nov 2007 1:46 am Operator: CR
Sample : CVO67J26159 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	76	0.00
2	T	Dichlorodifluoromethane	50.000	46.679	6.6	67	0.00
3	P,T	Chloromethane	50.000	43.010	14.0	63	0.00
4	C,T	Vinyl chloride	50.000	43.199	13.6	69	0.00
5	T	Bromomethane	50.000	46.046	7.9	68	0.00
6	T	Chloroethane	50.000	49.671	0.7	71	0.00
7	T	Dichlorofluoromethane	50.000	44.889	10.2	69	0.00
8	T	Trichlorofluoromethane	50.000	48.849	2.3	72	0.00
9	T	Acrolein	200.000	174.057	13.0	68	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	46.944	6.1	70	0.00
11	T	Acetone	200.000	167.533	16.2	72	0.00
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	46.200	7.6	69	0.00
14	T	tert-Butyl alcohol	250.000	205.283	17.9	66	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	34.837	30.3#	49	-0.02
17	T	Methylene chloride	50.000	42.855	14.3	71	0.00
18	T	Acrylonitrile	250.000	223.894	10.4	71	0.00
19	T	Carbon disulfide	50.000	39.864	20.3#	58	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	31.616	36.8#	49	0.00
22	T	trans-1,2-Dichloroethene	50.000	45.435	9.1	68	0.00
23	T	Isopropyl ether (DIPE)	50.000	49.091	1.8	75	0.00
24	T	Vinyl acetate	50.000	39.267	21.5#	58	0.00
25	P,T	1,1-Dichloroethane	50.000	47.477	5.0	71	0.00
26	T	tert-Butyl ethyl ether (ETB	50.000	27.500	45.0#	42	0.00
27	T	2-Butanone	200.000	172.773	13.6	70	0.00
28	T	2,2-Dichloropropane	50.000	44.484	11.0	65	0.00
29	T	cis-1,2-Dichloroethene	50.000	47.136	5.7	71	0.00
30	C,T	Chloroform	50.000	47.790	4.4	72	0.00
31	T	Bromochloromethane	50.000	46.646	6.7	74	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	47.989	4.0	71	0.00
34	T	1,1-Dichloropropene	50.000	46.314	7.4	68	0.00
35	T	tert-Amyl methyl ether (TAM	50.000	28.086	43.8#	43	0.00
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	50.483	-1.0	76	0.00
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	78	0.00
39	T	Carbon tetrachloride	50.000	46.446	7.1	69	0.00
40	T	1,2-Dichloroethane	50.000	46.098	7.8	73	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKC208.D Vial: 3
Acq On : 7 Nov 2007 1:46 am Operator: CR
Sample : CVO67J26159 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	46.296	7.4	71	0.00
42	M,T	Trichloroethene	50.000	46.458	7.1	70	0.00
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	47.975	4.0	74	0.00
45	T	Bromodichloromethane	50.000	47.374	5.3	72	0.00
46	T	Dibromomethane	50.000	45.365	9.3	70	0.00
47	T	2-Chloroethyl vinyl ether	50.000	18.409	63.2#	28	0.00
48	T	4-Methyl-2-pentanone	200.000	169.434	15.3	70	0.00
49	T	cis-1,3-Dichloropropene	50.000	48.881	2.2	72	0.00
50	S	Toluene-d8	50.000	50.148	-0.3	74	0.00
51	C,TM	Toluene	50.000	46.840	6.3	71	0.00
52	T	Ethyl methacrylate	50.000	48.519	3.0	73	0.00
53	T	trans-1,3-Dichloropropene	50.000	43.947	12.1	72	0.00
54	T	2-Hexanone	200.000	180.813	9.6	74	0.00
55	T	1,1,2-Trichloroethane	50.000	46.518	7.0	72	0.00
56	T	1,3-Dichloropropane	50.000	46.495	7.0	73	0.00
57	T	Tetrachloroethene	50.000	46.312	7.4	71	0.00
58	T	Dibromochloromethane	50.000	49.908	0.2	72	0.00
59	T	1,2-Dibromoethane	50.000	45.390	9.2	71	0.00
60	T	1-Chlorohexane	50.000	49.204	1.6	71	0.00
61	P,M	Chlorobenzene	50.000	46.156	7.7	71	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	48.520	3.0	72	0.00
63	C,T	Ethylbenzene	50.000	47.019	6.0	72	0.00
64	T	m-Xylene & p-Xylene	100.000	95.038	5.0	70	0.00
65	T	o-Xylene	50.000	47.299	5.4	71	0.00
66	T	Styrene	50.000	46.400	7.2	71	0.00
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	78	0.00
68	T	Isopropylbenzene	50.000	48.313	3.4	72	0.00
69	P,T	Bromoform	50.000	46.194	7.6	71	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	45.708	8.6	72	0.00
71	S	4-Bromofluorobenzene	50.000	50.241	-0.5	75	0.01
72	T	1,2,3-Trichloropropane	50.000	44.941	10.1	73	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	42.335	15.3	66	0.00
74	T	n-Propylbenzene	50.000	48.206	3.6	70	0.00
75	T	Bromobenzene	50.000	47.944	4.1	71	0.00
76	T	1,3,5-Trimethylbenzene	50.000	48.236	3.5	71	0.00
77	T	2-Chlorotoluene	50.000	47.711	4.6	71	0.00
78	T	4-Chlorotoluene	50.000	46.852	6.3	71	0.00
79	T	tert-Butylbenzene	50.000	48.742	2.5	71	0.00
80	T	1,2,4-Trimethylbenzene	50.000	47.330	5.3	70	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKC208.D Vial: 3
Acq On : 7 Nov 2007 1:46 am Operator: CR
Sample : CVO67J26159 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	48.607	2.8	71	0.00
82	T	p-Isopropyltoluene	50.000	46.490	7.0	69	0.00
83	T	1,3-Dichlorobenzene	50.000	46.673	6.7	70	0.00
84	T	1,4-Dichlorobenzene	50.000	46.628	6.7	71	0.01
85	T	n-Butylbenzene	50.000	43.118	13.8	70	0.00
86	T	1,2-Dichlorobenzene	50.000	46.923	6.2	72	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	44.941	10.1	70	0.00
88	T	1,2,4-Trichlorobenzene	50.000	48.521	3.0	71	0.00
89	T	Hexachlorobutadiene	50.000	49.261	1.5	72	0.00
90	T	Naphthalene	50.000	39.920	20.2#	66	0.00
91	T	1,2,3-Trichlorobenzene	50.000	48.634	2.7	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKC208.D Vial: 3
Acq On : 7 Nov 2007 1:46 am Operator: CR
Sample : CVO67J26159 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	76	0.00
2	T	Dichlorodifluoromethane	0.261	0.244	6.5	67	0.00
3	P,T	Chloromethane	0.345	0.297	13.9	63	0.00
4	C,T	Vinyl chloride	0.249	0.215	13.7	69	0.00
5	T	Bromomethane	0.229	0.211	7.9	68	0.00
6	T	Chloroethane	0.185	0.184	0.5	71	0.00
7	T	Dichlorofluoromethane	0.556	0.499	10.3	69	0.00
8	T	Trichlorofluoromethane	0.360	0.351	2.5	72	0.00
9	T	Acrolein	0.020	0.017	15.0	68	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.248	0.233	6.0	70	0.00
11	T	Acetone	0.062	0.052	16.1	72	0.00
12	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
13	C,TM	1,1-Dichloroethene	0.447	0.413	7.6	69	0.00
14	T	tert-Butyl alcohol	0.021	0.018	14.3	66	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.491	0.342	30.3#	49#	-0.02
17	T	Methylene chloride	0.460	0.395	14.1	71	0.00
18	T	Acrylonitrile	0.080	0.072	10.0	71	0.00
19	T	Carbon disulfide	1.224	0.975	20.3#	58	0.00
20	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
21	T	tert-Butyl methyl ether (MT	0.527	0.333	36.8#	49#	0.00
22	T	trans-1,2-Dichloroethene	0.473	0.430	9.1	68	0.00
23	T	Isopropyl ether (DIPE)	0.900	0.884	1.8	75	0.00
24	T	Vinyl acetate	0.428	0.336	21.5#	58	0.00
25	P,T	1,1-Dichloroethane	0.581	0.552	5.0	71	0.00
26	T	tert-Butyl ethyl ether (ETB	0.693	0.381	45.0#	42#	0.00
27	T	2-Butanone	0.115	0.099	13.9	70	0.00
28	T	2,2-Dichloropropane	0.337	0.299	11.3	65	0.00
29	T	cis-1,2-Dichloroethene	0.494	0.466	5.7	71	0.00
30	C,T	Chloroform	0.530	0.506	4.5	72	0.00
31	T	Bromochloromethane	0.272	0.254	6.6	74	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	1,1,1-Trichloroethane	0.402	0.386	4.0	71	0.00
34	T	1,1-Dichloropropene	0.147	0.136	7.5	68	0.00
35	T	tert-Amyl methyl ether (TAM	0.670	0.376	43.9#	43#	0.00
36	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
37	S	1,2-Dichloroethane-d4	0.233	0.235	-0.9	76	0.00
38	I	CHLOROBENZENE-D5	1.000	1.000	0.0	78	0.00
39	T	Carbon tetrachloride	0.403	0.374	7.2	69	0.00
40	T	1,2-Dichloroethane	0.343	0.317	7.6	73	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKC208.D Vial: 3
Acq On : 7 Nov 2007 1:46 am Operator: CR
Sample : CVO67J26159 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M,T	Benzene	1.563	1.447	7.4	71	0.00
42	M,T	Trichloroethene	0.464	0.431	7.1	70	0.00
43	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
44	C,T	1,2-Dichloropropane	0.403	0.386	4.2	74	0.00
45	T	Bromodichloromethane	0.437	0.414	5.3	72	0.00
46	T	Dibromomethane	0.244	0.222	9.0	70	0.00
47	T	2-Chloroethyl vinyl ether	0.186	0.068	63.4#	28#	0.00
48	T	4-Methyl-2-pentanone	0.385	0.287	25.5#	70	0.00
49	T	cis-1,3-Dichloropropene	0.543	0.531	2.2	72	0.00
50	S	Toluene-d8	1.276	1.280	-0.3	74	0.00
51	C,TM	Toluene	1.586	1.485	6.4	71	0.00
52	T	Ethyl methacrylate	0.374	0.363	2.9	73	0.00
53	T	trans-1,3-Dichloropropene	0.403	0.406	-0.7	72	0.00
54	T	2-Hexanone	0.206	0.186	9.7	74	0.00
55	T	1,1,2-Trichloroethane	0.298	0.277	7.0	72	0.00
56	T	1,3-Dichloropropane	0.496	0.461	7.1	73	0.00
57	T	Tetrachloroethene	0.339	0.314	7.4	71	0.00
58	T	Dibromochloromethane	0.345	0.344	0.3	72	0.00
59	T	1,2-Dibromoethane	0.346	0.315	9.0	71	0.00
60	T	1-Chlorohexane	0.605	0.596	1.5	71	0.00
61	P,M	Chlorobenzene	1.132	1.045	7.7	71	0.00
62	T	1,1,1,2-Tetrachloroethane	0.331	0.321	3.0	72	0.00
63	C,T	Ethylbenzene	1.768	1.662	6.0	72	0.00
64	T	m-Xylene & p-Xylene	1.303	1.238	5.0	70	0.00
65	T	o-Xylene	1.285	1.216	5.4	71	0.00
66	T	Styrene	1.129	1.048	7.2	71	0.00
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	78	0.00
68	T	Isopropylbenzene	4.179	4.038	3.4	72	0.00
69	P,T	Bromoform	0.562	0.519	7.7	71	0.00
70	P,T	1,1,2,2-Tetrachloroethane	1.026	0.938	8.6	72	0.00
71	S	4-Bromofluorobenzene	1.144	1.149	-0.4	75	0.01
72	T	1,2,3-Trichloropropane	0.167	0.150	10.2	73	0.00
73	T	trans-1,4-Dichloro-2-butene	0.203	0.172	15.3	66	0.00
74	T	n-Propylbenzene	5.346	5.154	3.6	70	0.00
75	T	Bromobenzene	1.028	0.986	4.1	71	0.00
76	T	1,3,5-Trimethylbenzene	3.317	3.200	3.5	71	0.00
77	T	2-Chlorotoluene	3.001	2.864	4.6	71	0.00
78	T	4-Chlorotoluene	2.904	2.721	6.3	71	0.00
79	T	tert-Butylbenzene	3.011	2.936	2.5	71	0.00
80	T	1,2,4-Trimethylbenzene	3.298	3.122	5.3	70	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKC208.D Vial: 3
Acq On : 7 Nov 2007 1:46 am Operator: CR
Sample : CVO67J26159 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	4.864	4.728	2.8	71	0.00
82	T	p-Isopropyltoluene	3.979	3.700	7.0	69	0.00
83	T	1,3-Dichlorobenzene	2.006	1.873	6.6	70	0.00
84	T	1,4-Dichlorobenzene	2.004	1.869	6.7	71	0.01
85	T	n-Butylbenzene	3.380	3.414	-1.0	70	0.00
86	T	1,2-Dichlorobenzene	1.774	1.664	6.2	72	0.00
87	T	1,2-Dibromo-3-chloropropane	0.154	0.138	10.4	70	0.00
88	T	1,2,4-Trichlorobenzene	0.958	0.929	3.0	71	0.00
89	T	Hexachlorobutadiene	0.556	0.548	1.4	72	0.00
90	T	Naphthalene	1.605	1.430	10.9	66	0.00
91	T	1,2,3-Trichlorobenzene	0.824	0.801	2.8	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKC227
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J385
BFB Injection Date : 11/07/07
BFB Injection Time : 13:38
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.63
75	30.0 - 60.0% of mass 95	39.28
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.00
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	80.75
175	5.0 - 9.0% of mass 174	5.84(7.2)1
176	95.0 - 101.0% of mass 174	77.78(96.3)1
177	5.0 - 9.0% of mass 176	5.13(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV067J26162	RKC229	11/07/07	14:53
2	MBLK2S	V067K20B	RKC232	11/07/07	16:45
3	LCS2S	V067K20L	RKC230	11/07/07	15:30
4	LCD2S	V067K20C	RKC231	11/07/07	16:08
5	SB5-55	J385-03R	RKC233	11/07/07	17:23

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RJC757
Instrument ID: T-067
GC Column: RTX502.2 ID: 0.32mm (mm)

Project:LMC BEAUMONT SITE 2
SDG No.: 07J385
Date Analyzed: 10/26/07
Time Analyzed: 21:11
Heated Purge: (Y/N)

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3737727	10.10	3162265	15.64	1255225	22.42
	UPPER LIMIT	7475454	10.60	6324530	16.14	2510450	22.92
	LOWER LIMIT	1868864	9.60	1581133	15.14	627613	21.92
	SAMPLE ID						
1	VSTD050	2655335	10.11	2303397	15.65	919312	22.42
2	MBLK2S	2829062	10.10	2472730	15.64	996610	22.42
3	LCS2S	1982557	10.10	1765961	15.65	733678	22.42
4	LCD2S	2210419	10.10	1939488	15.64	800185	22.42
5	SB5-55	2716329	10.10	2403999	15.64	970390	22.42

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	71	0.00
2	T	Dichlorodifluoromethane	50.000	45.755	8.5	61	0.00
3	P,T	Chloromethane	50.000	45.974	8.1	63	0.00
4	C,T	Vinyl chloride	50.000	46.082	7.8	69	-0.01
5	T	Bromomethane	50.000	51.888	-3.8	72	-0.01
6	T	Chloroethane	50.000	53.260	-6.5	72	0.00
7	T	Dichlorofluoromethane	50.000	47.079	5.8	68	-0.01
8	T	Trichlorofluoromethane	50.000	51.989	-4.0	72	0.00
9	T	Acrolein	200.000	191.524	4.2	70	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	46.095	7.8	64	0.00
11	T	Acetone	200.000	187.206	6.4	75	0.00
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	46.382	7.2	65	-0.01
14	T	tert-Butyl alcohol	250.000	224.944	10.0	67	-0.01
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	40.686	18.6	53	-0.01
17	T	Methylene chloride	50.000	44.355	11.3	69	0.00
18	T	Acrylonitrile	250.000	238.886	4.4	71	0.00
19	T	Carbon disulfide	50.000	40.172	19.7	55	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	34.064	31.9#	49	0.00
22	T	trans-1,2-Dichloroethene	50.000	46.090	7.8	65	0.00
23	T	Isopropyl ether (DIPE)	50.000	50.345	-0.7	72	-0.01
24	T	Vinyl acetate	50.000	50.994	-2.0	70	0.00
25	P,T	1,1-Dichloroethane	50.000	48.419	3.2	68	-0.01
26	T	tert-Butyl ethyl ether (ETB	50.000	30.386	39.2#	43	0.00
27	T	2-Butanone	200.000	194.772	2.6	74	0.00
28	T	2,2-Dichloropropane	50.000	48.520	3.0	66	0.00
29	T	cis-1,2-Dichloroethene	50.000	48.322	3.4	68	0.00
30	C,T	Chloroform	50.000	48.274	3.5	68	-0.01
31	T	Bromochloromethane	50.000	48.145	3.7	71	-0.01
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	47.072	5.9	65	-0.01
34	T	1,1-Dichloropropene	50.000	46.725	6.5	64	-0.01
35	T	tert-Amyl methyl ether (TAM	50.000	30.783	38.4#	44	-0.01
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	53.481	-7.0	75	-0.01
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	73	0.00
39	T	Carbon tetrachloride	50.000	47.289	5.4	65	0.00
40	T	1,2-Dichloroethane	50.000	46.830	6.3	69	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	46.792	6.4	67	-0.01
42	M,T	Trichloroethene	50.000	45.953	8.1	64	-0.01
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	48.733	2.5	70	0.00
45	T	Bromodichloromethane	50.000	48.134	3.7	68	-0.01
46	T	Dibromomethane	50.000	47.098	5.8	68	0.00
47	T	2-Chloroethyl vinyl ether	50.000	21.008	58.0#	30	-0.01
48	T	4-Methyl-2-pentanone	200.000	199.015	0.5	76	-0.01
49	T	cis-1,3-Dichloropropene	50.000	50.091	-0.2	69	0.00
50	S	Toluene-d8	50.000	52.169	-4.3	72	-0.01
51	C,TM	Toluene	50.000	47.188	5.6	66	0.00
52	T	Ethyl methacrylate	50.000	50.691	-1.4	71	0.00
53	T	trans-1,3-Dichloropropene	50.000	45.373	9.3	70	0.00
54	T	2-Hexanone	200.000	203.427	-1.7	78	-0.01
55	T	1,1,2-Trichloroethane	50.000	47.702	4.6	69	0.00
56	T	1,3-Dichloropropane	50.000	47.813	4.4	70	-0.01
57	T	Tetrachloroethene	50.000	45.573	8.9	65	0.00
58	T	Dibromochloromethane	50.000	50.911	-1.8	69	0.00
59	T	1,2-Dibromoethane	50.000	47.513	5.0	69	-0.01
60	T	1-Chlorohexane	50.000	48.217	3.6	65	0.00
61	P,M	Chlorobenzene	50.000	46.169	7.7	67	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	48.637	2.7	68	0.00
63	C,T	Ethylbenzene	50.000	47.144	5.7	67	-0.01
64	T	m-Xylene & p-Xylene	100.000	96.752	3.2	67	0.00
65	T	o-Xylene	50.000	47.300	5.4	67	0.00
66	T	Styrene	50.000	47.883	4.2	68	-0.01
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	73	0.00
68	T	Isopropylbenzene	50.000	48.539	2.9	68	0.00
69	P,T	Bromoform	50.000	48.182	3.6	70	-0.01
70	P,T	1,1,2,2-Tetrachloroethane	50.000	48.055	3.9	72	0.00
71	S	4-Bromofluorobenzene	50.000	52.424	-4.8	73	0.00
72	T	1,2,3-Trichloropropane	50.000	49.287	1.4	75	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	46.393	7.2	68	0.00
74	T	n-Propylbenzene	50.000	48.425	3.2	66	-0.01
75	T	Bromobenzene	50.000	48.852	2.3	68	0.00
76	T	1,3,5-Trimethylbenzene	50.000	48.513	3.0	68	0.00
77	T	2-Chlorotoluene	50.000	46.352	7.3	65	-0.01
78	T	4-Chlorotoluene	50.000	48.867	2.3	70	0.00
79	T	tert-Butylbenzene	50.000	47.496	5.0	65	0.00
80	T	1,2,4-Trimethylbenzene	50.000	47.635	4.7	66	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	47.821	4.4	66	-0.01
82	T	p-Isopropyltoluene	50.000	46.511	7.0	65	-0.01
83	T	1,3-Dichlorobenzene	50.000	47.000	6.0	66	-0.01
84	T	1,4-Dichlorobenzene	50.000	47.301	5.4	68	0.00
85	T	n-Butylbenzene	50.000	41.455	17.1	63	0.00
86	T	1,2-Dichlorobenzene	50.000	47.583	4.8	69	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	46.120	7.8	68	-0.01
88	T	1,2,4-Trichlorobenzene	50.000	48.902	2.2	68	-0.01
89	T	Hexachlorobutadiene	50.000	48.114	3.8	66	0.00
90	T	Naphthalene	50.000	37.760	24.5#	58	0.00
91	T	1,2,3-Trichlorobenzene	50.000	48.043	3.9	68	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	71	0.00
2	T	Dichlorodifluoromethane	0.261	0.239	8.4	61	0.00
3	P,T	Chloromethane	0.345	0.317	8.1	63	0.00
4	C,T	Vinyl chloride	0.249	0.230	7.6	69	-0.01
5	T	Bromomethane	0.229	0.238	-3.9	72	-0.01
6	T	Chloroethane	0.185	0.197	-6.5	72	0.00
7	T	Dichlorofluoromethane	0.556	0.523	5.9	68	-0.01
8	T	Trichlorofluoromethane	0.360	0.374	-3.9	72	0.00
9	T	Acrolein	0.020	0.019	5.0	70	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.248	0.229	7.7	64	0.00
11	T	Acetone	0.062	0.058	6.5	75	0.00
12	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
13	C,TM	1,1-Dichloroethene	0.447	0.415	7.2	65	-0.01
14	T	tert-Butyl alcohol	0.021	0.019	9.5	67	-0.01
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.491	0.400	18.5	53	-0.01
17	T	Methylene chloride	0.460	0.408	11.3	69	0.00
18	T	Acrylonitrile	0.080	0.076	5.0	71	0.00
19	T	Carbon disulfide	1.224	0.983	19.7	55	0.00
20	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
21	T	tert-Butyl methyl ether (MT	0.527	0.359	31.9#	49#	0.00
22	T	trans-1,2-Dichloroethene	0.473	0.436	7.8	65	0.00
23	T	Isopropyl ether (DIPE)	0.900	0.906	-0.7	72	-0.01
24	T	Vinyl acetate	0.428	0.436	-1.9	70	0.00
25	P,T	1,1-Dichloroethane	0.581	0.563	3.1	68	-0.01
26	T	tert-Butyl ethyl ether (ETB	0.693	0.421	39.2#	43#	0.00
27	T	2-Butanone	0.115	0.112	2.6	74	0.00
28	T	2,2-Dichloropropane	0.337	0.327	3.0	66	0.00
29	T	cis-1,2-Dichloroethene	0.494	0.477	3.4	68	0.00
30	C,T	Chloroform	0.530	0.511	3.6	68	-0.01
31	T	Bromochloromethane	0.272	0.262	3.7	71	-0.01
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	1,1,1-Trichloroethane	0.402	0.378	6.0	65	-0.01
34	T	1,1-Dichloropropene	0.147	0.137	6.8	64	-0.01
35	T	tert-Amyl methyl ether (TAM	0.670	0.413	38.4#	44#	-0.01
36	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
37	S	1,2-Dichloroethane-d4	0.233	0.249	-6.9	75	-0.01
38	I	CHLOROBENZENE-D5	1.000	1.000	0.0	73	0.00
39	T	Carbon tetrachloride	0.403	0.381	5.5	65	0.00
40	T	1,2-Dichloroethane	0.343	0.322	6.1	69	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M,T	Benzene	1.563	1.463	6.4	67	-0.01
42	M,T	Trichloroethene	0.464	0.426	8.2	64	-0.01
43	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
44	C,T	1,2-Dichloropropane	0.403	0.392	2.7	70	0.00
45	T	Bromodichloromethane	0.437	0.420	3.9	68	-0.01
46	T	Dibromomethane	0.244	0.230	5.7	68	0.00
47	T	2-Chloroethyl vinyl ether	0.186	0.078	58.1#	30#	-0.01
48	T	4-Methyl-2-pentanone	0.385	0.335	13.0	76	-0.01
49	T	cis-1,3-Dichloropropene	0.543	0.544	-0.2	69	0.00
50	S	Toluene-d8	1.276	1.331	-4.3	72	-0.01
51	C,TM	Toluene	1.586	1.497	5.6	66	0.00
52	T	Ethyl methacrylate	0.374	0.379	-1.3	71	0.00
53	T	trans-1,3-Dichloropropene	0.403	0.419	-4.0	70	0.00
54	T	2-Hexanone	0.206	0.210	-1.9	78	-0.01
55	T	1,1,2-Trichloroethane	0.298	0.284	4.7	69	0.00
56	T	1,3-Dichloropropane	0.496	0.474	4.4	70	-0.01
57	T	Tetrachloroethene	0.339	0.309	8.8	65	0.00
58	T	Dibromochloromethane	0.345	0.351	-1.7	69	0.00
59	T	1,2-Dibromoethane	0.346	0.329	4.9	69	-0.01
60	T	1-Chlorohexane	0.605	0.584	3.5	65	0.00
61	P,M	Chlorobenzene	1.132	1.045	7.7	67	0.00
62	T	1,1,1,2-Tetrachloroethane	0.331	0.322	2.7	68	0.00
63	C,T	Ethylbenzene	1.768	1.667	5.7	67	-0.01
64	T	m-Xylene & p-Xylene	1.303	1.260	3.3	67	0.00
65	T	o-Xylene	1.285	1.216	5.4	67	0.00
66	T	Styrene	1.129	1.081	4.3	68	-0.01
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	73	0.00
68	T	Isopropylbenzene	4.179	4.057	2.9	68	0.00
69	P,T	Bromoform	0.562	0.541	3.7	70	-0.01
70	P,T	1,1,2,2-Tetrachloroethane	1.026	0.986	3.9	72	0.00
71	S	4-Bromofluorobenzene	1.144	1.199	-4.8	73	0.00
72	T	1,2,3-Trichloropropane	0.167	0.164	1.8	75	0.00
73	T	trans-1,4-Dichloro-2-butene	0.203	0.188	7.4	68	0.00
74	T	n-Propylbenzene	5.346	5.178	3.1	66	-0.01
75	T	Bromobenzene	1.028	1.005	2.2	68	0.00
76	T	1,3,5-Trimethylbenzene	3.317	3.218	3.0	68	0.00
77	T	2-Chlorotoluene	3.001	2.782	7.3	65	-0.01
78	T	4-Chlorotoluene	2.904	2.838	2.3	70	0.00
79	T	tert-Butylbenzene	3.011	2.861	5.0	65	0.00
80	T	1,2,4-Trimethylbenzene	3.298	3.142	4.7	66	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	4.864	4.652	4.4	66	-0.01
82	T	p-Isopropyltoluene	3.979	3.702	7.0	65	-0.01
83	T	1,3-Dichlorobenzene	2.006	1.886	6.0	66	-0.01
84	T	1,4-Dichlorobenzene	2.004	1.896	5.4	68	0.00
85	T	n-Butylbenzene	3.380	3.277	3.0	63	0.00
86	T	1,2-Dichlorobenzene	1.774	1.688	4.8	69	0.00
87	T	1,2-Dibromo-3-chloropropane	0.154	0.142	7.8	68	-0.01
88	T	1,2,4-Trichlorobenzene	0.958	0.937	2.2	68	-0.01
89	T	Hexachlorobutadiene	0.556	0.535	3.8	66	0.00
90	T	Naphthalene	1.605	1.346	16.1	58	0.00
91	T	1,2,3-Trichlorobenzene	0.824	0.792	3.9	68	0.00

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 10/26/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH VO67J265

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	BJC749	745	BFB67J68	2mL	n/a	N/A	N/A	
02		746	69					1:40pm
03		747	VO67J261	.08/.12/.16mL				2/5/10ppb 8260
04		748	2	.11/.5/.4mL				5/20/25ppb
05		749	3	.2/1.0/.8mL				10/10/50 ppb
06		750	4	.4/2/1.0mL				20/50/100 ppb
07		751	5	1/5/4mL				50/200/250 ppb
08		752	6	1.6/8/6.4mL				80/320/400 ppb
09		753	7	2/10/8mL				100/400/500 ppb
10		754	8	4/20/16mL				200/800/1000 ppb
11		755	9	6/30/24mL				300/1200/1500 ppb
12		756	IS/SS	1mL				
13		757	VO67J69B	5mL				
14		758	VO67J2610	1/5/4mL				50/200/250 ppb
15		759	VO67J261	1/5/4mL				50/200/250 ppb
16		760	2					10:27pm
17			RINSE	5mL				
18								
19								
20								
21								
22								
23								
24								
25								MH 10/27/07

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	10/26/07
ICAL ID	VO67J26

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC 8260	SV1-13-20-1	250 ppm
DCC 8260	-2	50/250
DCC IS/SS	-3	250
BFB	SV1-13-19-3	50
IS/SURR.	SV1-13-16-3	250
LCS 8260	SV1-13-21-1	250
LCS 8260	-2	50/250
LCS IS/SS	-3	250

SOLVENT	ID
METHANOL	IS SV1-13-04-3 SS SV1-13-05-2
DATA FILE	07J26

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: MH / cr

Date Disposed: 10/27/07

Disposed By:

2068

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 10/7/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH (V067 J26159)

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		VPC 206	BFB67K18	2mL				
02		207	↓ 19	↓				1:09am
03		208	CV067J26159	1/4.5mL				
04		209	↓ 160	↓				
05		210	V067K19L	.9/1.1mL				
06		211	↓ L	↓				
07		212	↓ B	5.0g				
08		213	VPC 001SB	↓	1.0			
09		214	07J385-03	5.9g	0.85			15 ml
10		215	↓ -04	6.3g	0.79			
11		216	↓ -05	5.9g	0.85			
12		217	↓ -06	5.7g	0.88			
13		218	~~07K002~~ K002-14	5.2g	0.96			
14		219	↓ -13	4.5g	1.11			
15		220	↓ -13M	4.3g	1.16			
16		221	↓ -13S	4.9g	1.02			
17		222	07K055-01	5.0g	1.0			
18		223	↓ -02	↓	↓			
19		224	↓ -03	↓	↓			
20		225	↓ -04	↓	↓			
21		226	↓ -05	↓	↓			1:01pm
22								
23								
24								
25							MH	11/7/07

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	10/26/07
ICAL ID	V067J26

STANDARDS

NAME	ID	CONC. (mg/L)
DCC	SV-13-20-1	
DCC	↓ -2	
DCC	↓ -3	
BFB	IV-13-19-3	
IS/SURR.	↓ -16-3	80/200
LCS	SV1-13-21-1	
LCS	↓ -2	
LCS	↓ -3	

SOLVENT	ID
METHANOL	
DATA FILE	D067

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: MH /as

Date Disposed: 11/7/07

Disposed By: MH

2069

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11/7/07 ☐ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH CV067J26161

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		RKC227	BFB67K20	7 mL				1:38pm
02		228	CV067J26161	11/15 mL				
03		229	162					
04		230	V067K20L	11/8/16.2				
05		231	C					
06		232	B	5.0g				
07		233	07J385-03R	6.6g	0.76			
08		234	07K033-05	5.9g	0.85			
09		235	-05M	5.4g	0.93			
10		236	-05S	6.0g	0.83			
11		237	-03	5.6g	0.89			
12		238	-04	4.9g	1.02			
13		239	-06	5.6g	0.89			
14		240	-07	5.8g	0.86			
15		241	-08	5.2g	0.96			
16		242	-09	5.4g	0.93			
17		243	-10	5.3g	0.94			
18		244	-11	5.7g	0.88			
19		245	-12	6.6g	0.76			
20		246	-13	6.4g	0.78			11/8/07 1:29am
21								
22								
23								
24								
25							MH	11/8/07

2070

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	10/26/07
ICAL ID	V067J26
STANDARDS	
NAME	ID / CONC. (mg/L)
DCC	SV1-13-20-1
DCC	-2
DCC	-3
BFB	SV1-13-19-3
IS/SURR.	-16-3 04/20
LCS	SV1-13-21-1
LCS	-2
LCS	-3
SOLVENT	ID
METHANOL	
DATA FILE	07K07
Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: MH / CN

Date Disposed: 11/8/07

Disposed By: MH

EXTRACTION LOGS

PRESERVATION LOG FOR VOLATILES

METHOD [X] 5035 **Book #** E02-018

Matrix: SOIL STARTING DATE 11/6/07 17:00 Ending Date 11/6/07 18:00

Lab Sample ID	W1 (g)	Wf (g)	Ws(g)	D.F.
BLANK	30.0	35.0	5.0	1.00
07J385-03	31.8	37.7	5.9	0.85
07J385-04	31.9	38.2	6.3	0.79
07J385-05	32.0	37.9	5.9	0.85
07J385-06	31.9	37.6	5.7	0.88
07J385-03R	31.9	38.5	6.6	0.76
07J385-04R	31.9	37.2	5.3	0.94
07J385-05R	31.7	37.5	5.8	0.86
07J385-06R	31.9	38.3	6.4	0.78
NOTHING FOLLOWS				

Standards / Reagents	ID / Lot#	Amount Added (ml)
SURROGATE		
LCS/MS		
REAGENT (WATER)		5.0 ML
NaHS04 H20		
SAND	SW1A-03-331	5.0G

DISPENSER CHECK WITH 5.0 ML

VOLUMETRIC FLASK.

PRE WEIGHED VIALS

Prepared By: MH / CR

Standard Added By:

Witnessed By:

Checked By: a

Extract Received By: a

Extract Location

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METALS / MERCURY

SDG#: 07J385

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J385

METHOD 3010A/3050B/6010B
METALS BY ICP

One (1) water and four (4) soil samples were received on 10/30/07 for Metals analysis by Method 3010A/3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Samples J383-01 and J375-01 from other SDG were analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
METALS BY ICP

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J385
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPK004SB	1	NA	11/07/0722:50	11/02/0710:45	ID8K004049	ID8K004047	IPK004S	Method Blank
LCS1S	IPK004SL	1	NA	11/07/0722:55	11/02/0710:45	ID8K004050	ID8K004047	IPK004S	Lab Control Sample (LCS)
LCD1S	IPK004SC	1	NA	11/07/0723:00	11/02/0710:45	ID8K004051	ID8K004047	IPK004S	LCS Duplicate
811872-2102AS	J383-01A	1	1.0	11/07/0723:06	11/02/0710:45	ID8K004052	ID8K004047	IPK004S	Analytical Spike Sample
811872-2102	J383-01	1	1.0	11/07/0723:11	11/02/0710:45	ID8K004053	ID8K004047	IPK004S	Field Sample
811872-2102DL	J383-01J	5	1.0	11/07/0723:16	11/02/0710:45	ID8K004054	ID8K004047	IPK004S	Diluted Sample
SB5-55	J385-03	1	8.1	11/08/0701:04	11/02/0710:45	ID8K004074	ID8K004071	IPK004S	Field Sample
SB5-60	J385-04	1	8.9	11/08/0701:10	11/02/0710:45	ID8K004075	ID8K004071	IPK004S	Field Sample
SB1-55	J385-05	1	9.9	11/08/0701:15	11/02/0710:45	ID8K004076	ID8K004071	IPK004S	Field Sample
SB1-60	J385-06	1	5.8	11/08/0701:21	11/02/0710:45	ID8K004077	ID8K004071	IPK004S	Field Sample

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPK003WB	1	NA	11/08/0702:05	11/02/0710:50	ID8K004085	ID8K004083	IPK003W	Method Blank
LCS1W	IPK003WL	1	NA	11/08/0702:10	11/02/0710:50	ID8K004086	ID8K004083	IPK003W	Lab Control Sample (LCS)
LCD1W	IPK003WC	1	NA	11/08/0702:16	11/02/0710:50	ID8K004087	ID8K004083	IPK003W	LCS Duplicate
24-PMW-18-1AS	J375-01A	1	NA	11/08/0702:32	11/02/0710:50	ID8K004090	ID8K004083	IPK003W	Analytical Spike Sample
24-PMW-18-1	J375-01	1	NA	11/08/0702:37	11/02/0710:50	ID8K004091	ID8K004083	IPK003W	Field Sample
24-PMW-18-1DL	J375-01J	5	NA	11/08/0702:42	11/02/0710:50	ID8K004092	ID8K004083	IPK003W	Diluted Sample
LEB2-102907	J385-02	1	NA	11/08/0702:48	11/02/0710:50	ID8K004093	ID8K004083	IPK003W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/29/07 09:05
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
SDG NO.	: 07J385	Date Extracted:	11/02/07 10:50
Sample ID:	LEB2-102907	Date Analyzed:	11/08/07 02:48
Lab Samp ID:	J385-02	Dilution Factor:	1
Lab File ID:	ID8K004093	Matrix :	WATER
Ext Btch ID:	IPK003W	% Moisture :	NA
Calib. Ref.:	ID8K004083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/29/07 10:15
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
SDG NO.	: 07J385	Date Extracted:	11/02/07 10:45
Sample ID:	SB5-55	Date Analyzed:	11/08/07 01:04
Lab Samp ID:	J385-03	Dilution Factor:	1
Lab File ID:	ID8K004074	Matrix :	SOIL
Ext Btch ID:	IPK004S	% Moisture :	8.1
Calib. Ref.:	ID8K004071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	5.04	1.09	0.435
Barium	110	1.09	0.218
Beryllium	0.726J	1.09	0.218
Cadmium	ND	1.09	0.544
Chromium	33.9	2.18	1.09
Cobalt	11.1	2.18	1.09
Copper	21.7	2.18	0.544
Lead	7.23	1.09	0.218
Molybdenum	ND	5.44	0.544
Nickel	19.5	2.18	1.09
Selenium	1.36	1.09	0.544
Silver	ND	2.18	0.544
Thallium	0.905J	1.09	0.544
Vanadium	49.6	2.18	0.544
Zinc	63.1	1.09	0.544

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/29/07 10:20
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
SDG NO.	: 07J385	Date Extracted:	11/02/07 10:45
Sample ID:	SB5-60	Date Analyzed:	11/08/07 01:10
Lab Samp ID:	J385-04	Dilution Factor:	1
Lab File ID:	ID8K004075	Matrix :	SOIL
Ext Btch ID:	IPK004S	% Moisture :	8.9
Calib. Ref.:	ID8K004071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.20
Arsenic	1.95	1.10	0.439
Barium	55.7	1.10	0.220
Beryllium	0.371J	1.10	0.220
Cadmium	ND	1.10	0.549
Chromium	12.2	2.20	1.10
Cobalt	5.07	2.20	1.10
Copper	9.23	2.20	0.549
Lead	3.53	1.10	0.220
Molybdenum	ND	5.49	0.549
Nickel	8.59	2.20	1.10
Selenium	0.631J	1.10	0.549
Silver	ND	2.20	0.549
Thallium	0.555J	1.10	0.549
Vanadium	21.6	2.20	0.549
Zinc	31.9	1.10	0.549

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METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/29/07 12:18
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
SDG NO.	: 07J385	Date Extracted:	11/02/07 10:45
Sample ID:	SB1-55	Date Analyzed:	11/08/07 01:15
Lab Samp ID:	J385-05	Dilution Factor:	1
Lab File ID:	ID8K004076	Matrix :	SOIL
Ext Btch ID:	IPK004S	% Moisture :	9.9
Calib. Ref.:	ID8K004071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	2.22
Arsenic	3.40	1.11	0.444
Barium	254	1.11	0.222
Beryllium	1.18	1.11	0.222
Cadmium	ND	1.11	0.555
Chromium	30.8	2.22	1.11
Cobalt	17.9	2.22	1.11
Copper	38.1	2.22	0.555
Lead	16.3	1.11	0.222
Molybdenum	ND	5.55	0.555
Nickel	31.0	2.22	1.11
Selenium	1.67	1.11	0.555
Silver	ND	2.22	0.555
Thallium	1.05J	1.11	0.555
Vanadium	54.4	2.22	0.555
Zinc	99.9	1.11	0.555

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/29/07 12:50
Project	: LMC BEAUMONT SITE 2	Date Received:	10/30/07
SDG NO.	: 07J385	Date Extracted:	11/02/07 10:45
Sample ID:	SB1-60	Date Analyzed:	11/08/07 01:21
Lab Samp ID:	J385-06	Dilution Factor:	1
Lab File ID:	ID8K004077	Matrix :	SOIL
Ext Btch ID:	IPK004S	% Moisture :	5.8
Calib. Ref.:	ID8K004071	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	2.12
Arsenic	5.34	1.06	0.425
Barium	133	1.06	0.212
Beryllium	0.608J	1.06	0.212
Cadmium	ND	1.06	0.531
Chromium	21.5	2.12	1.06
Cobalt	9.75	2.12	1.06
Copper	21.2	2.12	0.531
Lead	9.54	1.06	0.212
Molybdenum	ND	5.31	0.531
Nickel	17.4	2.12	1.06
Selenium	0.577J	1.06	0.531
Silver	ND	2.12	0.531
Thallium	0.687J	1.06	0.531
Vanadium	38.1	2.12	0.531
Zinc	56.9	1.06	0.531

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07J385	Date Extracted:	11/02/07 10:50
Sample ID:	MBLK1W	Date Analyzed:	11/08/07 02:05
Lab Samp ID:	IPK003WB	Dilution Factor:	1
Lab File ID:	ID8K004085	Matrix :	WATER
Ext Btch ID:	IPK003W	% Moisture :	NA
Calib. Ref.:	ID8K004083	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J385
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPK003WB	IPK003WL	IPK003WC		
LAB FILE ID:	ID8K004085	ID8K004086	ID8K004087		
DATIME EXTRCTD:	11/02/0710:50	11/02/0710:50	11/02/0710:50	DATE COLLECTED:	NA
DATIME ANALYZD:	11/08/0702:05	11/08/0702:10	11/08/0702:16	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK003W	IPK003W	IPK003W		
CALIB. REF:	ID8K004083	ID8K004083	ID8K004083		

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	5.05	101	5	4.98	100	1	80-120	20
Arsenic	ND	1	1.05	105	1	1.03	103	2	80-120	20
Barium	ND	1	.996	100	1	.99	99	1	80-120	20
Beryllium	ND	1	1.01	101	1	1.01	101	1	80-120	20
Cadmium	ND	1	1.01	101	1	1	100	1	80-120	20
Chromium	ND	1	.989	99	1	.985	98	0	80-120	20
Cobalt	ND	1	.995	99	1	.986	99	1	80-120	20
Copper	ND	1	.959	96	1	.956	96	0	80-120	20
Lead	ND	1	.985	98	1	.977	98	1	80-120	20
Molybdenum	ND	1	1.04	104	1	1.03	103	1	80-120	20
Nickel	ND	1	.996	100	1	.987	99	1	80-120	20
Selenium	ND	1	1.01	101	1	1	100	1	80-120	20
Silver	ND	1	.962	96	1	.961	96	0	80-120	20
Thallium	ND	1	.952	95	1	.942	94	1	80-120	20
Vanadium	ND	1	1.03	103	1	1.03	103	0	80-120	20
Zinc	ND	1	1.05	105	1	1.04	104	1	80-120	20

Revised Report

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07J385	Date Extracted:	11/02/07 10:45
Sample ID:	MBLK1S	Date Analyzed:	11/07/07 22:50
Lab Samp ID:	IPK004SB	Dilution Factor:	1
Lab File ID:	ID8K004049	Matrix :	SOIL
Ext Btch ID:	IPK004S	% Moisture :	NA
Calib. Ref.:	ID8K004047	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	2.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.500
Chromium	ND	2.00	1.00
Cobalt	ND	2.00	1.00
Copper	ND	2.00	0.500
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	2.00	1.00
Selenium	ND	1.00	0.500
Silver	ND	2.00	0.500
Thallium	ND	1.00	0.500
Vanadium	ND	2.00	0.500
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J385
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPK004SB	IPK004SL	IPK004SC		
LAB FILE ID:	ID8K004049	ID8K004050	ID8K004051		
DATIME EXTRCTD:	11/02/0710:45	11/02/0710:45	11/02/0710:45	DATE COLLECTED:	NA
DATIME ANALYZD:	11/07/0722:50	11/07/0722:55	11/07/0723:00	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK004S	IPK004S	IPK004S		
CALIB. REF:	ID8K004047	ID8K004047	ID8K004047		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	500	506	101	500	495	99	2	80-120	20
Arsenic	ND	100	102	102	100	102	102	1	80-120	20
Barium	ND	100	98.4	98	100	97.9	98	0	80-120	20
Beryllium	ND	100	103	103	100	102	102	1	80-120	20
Cadmium	ND	100	101	101	100	100	100	1	80-120	20
Chromium	ND	100	98.9	99	100	97.2	97	2	80-120	20
Cobalt	ND	100	100	100	100	98.8	99	2	80-120	20
Copper	ND	100	96	96	100	94.4	94	2	80-120	20
Lead	ND	100	98.8	99	100	97.2	97	2	80-120	20
Molybdenum	ND	100	106	106	100	104	104	2	80-120	20
Nickel	ND	100	100	100	100	98.9	99	1	80-120	20
Selenium	ND	100	98.8	99	100	97.7	98	1	80-120	20
Silver	ND	100	96.5	97	100	94.4	94	2	80-120	20
Thallium	ND	100	96.9	97	100	95	95	2	80-120	20
Vanadium	ND	100	103	103	100	101	101	1	80-120	20
Zinc	ND	100	105	105	100	103	103	2	80-120	20

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EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	24-PMW-18-1	24-PMW-18-1DL		
EMAX SAMP ID:	J375-01	J375-01J		
LAB FILE ID:	ID8K004091	ID8K004092		
DATE EXTRACTED:	11/02/0710:50	11/02/0710:50	DATE COLLECTED:	10/30/07 09:00
DATE ANALYZED:	11/08/0702:37	11/08/0702:42	DATE RECEIVED:	10/30/07
PREP. BATCH:	IPK003W	IPK003W		
CALIB. REF:	ID8K004083	ID8K004083		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	ND	ND	0	10
Barium	0.0499	0.0513	3	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	ND	ND	0	10
Cobalt	ND	ND	0	10
Copper	ND	ND	0	10
Lead	ND	ND	0	10
Molybdenum	ND	ND	0	10
Nickel	ND	ND	0	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	ND	ND	0	10
Zinc	0.0236	0.0315J	NA	10

Revised Report

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J385
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	24-PMW-18-1			
CONTROL NO.:	J375-01	J375-01A		
LAB FILE ID:	ID8K004091	ID8K004090		
DATIME EXTRCTD:	11/02/0710:50	11/02/0710:50	DATE COLLECTED:	10/30/07 09:00
DATIME ANALYZD:	11/08/0702:37	11/08/0702:32	DATE RECEIVED:	10/30/07
PREP. BATCH:	IPK003W	IPK003W		
CALIB. REF:	ID8K004083	ID8K004083		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
Antimony	ND	5	5.1	102	75-125
Arsenic	ND	1	1.08	108	75-125
Barium	.0499	1	1.02	97	75-125
Beryllium	ND	1	.971	97	75-125
Cadmium	ND	1	.984	98	75-125
Chromium	ND	1	.96	96	75-125
Cobalt	ND	1	.951	95	75-125
Copper	ND	1	.906	91	75-125
Lead	ND	1	.949	95	75-125
Molybdenum	ND	1	.978	98	75-125
Nickel	ND	1	.953	95	75-125
Selenium	ND	1	1.07	107	75-125
Silver	ND	1	.919	92	75-125
Thallium	ND	1	.91	91	75-125
Vanadium	ND	1	.998	100	75-125
Zinc	.0236	1	1.04	101	75-125

Revised Report

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	1.0
DILUTION FACTOR:	1	5		
SAMPLE ID:	811872-2102	811872-2102DL		
EMAX SAMP ID:	J383-01	J383-01J		
LAB FILE ID:	ID8K004053	ID8K004054		
DATE EXTRACTED:	11/02/0710:45	11/02/0710:45	DATE COLLECTED:	10/29/07 09:40
DATE ANALYZED:	11/07/0723:11	11/07/0723:16	DATE RECEIVED:	10/30/07
PREP. BATCH:	IPK004S	IPK004S		
CALIB. REF:	ID8K004047	ID8K004047		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	8.62	8.37	3	10
Barium	68.8	69.2	1	10
Beryllium	0.539J	ND	NA	10
Cadmium	1.20	ND	NA	10
Chromium	78.8	82.5	5	10
Cobalt	11.3	11.1	1	10
Copper	55.5	57.5	4	10
Lead	108	109	1	10
Molybdenum	4.83J	4.61J	NA	10
Nickel	19.6	19.4	1	10
Selenium	1.97	ND	NA	10
Silver	ND	ND	0	10
Thallium	3.07	3.03J	NA	10
Vanadium	34.5	35.4	3	10
Zinc	925	920	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J385
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	1.0
DILTN FACTR:	1	1		
SAMPLE ID:	811872-2102			
CONTROL NO.:	J383-01	J383-01A		
LAB FILE ID:	ID8K004053	ID8K004052		
DATIME EXTRCTD:	11/02/0710:45	11/02/0710:45	DATE COLLECTED:	10/29/07 09:40
DATIME ANALYZD:	11/07/0723:11	11/07/0723:06	DATE RECEIVED:	10/30/07
PREP. BATCH:	IPK004S	IPK004S		
CALIB. REF:	ID8K004047	ID8K004047		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Antimony	ND	505	472	93	75-125
Arsenic	8.62	101	109	99	75-125
Barium	68.8	101	166	96	75-125
Beryllium	.539J	101	101	99	75-125
Cadmium	1.2	101	102	100	75-125
Chromium	78.8	101	169	90	75-125
Cobalt	11.3	101	110	98	75-125
Copper	55.5	101	146	90	75-125
Lead	108	101	201	91	75-125
Molybdenum	4.83J	101	108	102	75-125
Nickel	19.6	101	118	97	75-125
Selenium	1.97	101	97.7	95	75-125
Silver	ND	101	92.9	92	75-125
Thallium	3.07	101	95.7	92	75-125
Vanadium	34.5	101	130	95	75-125
Zinc	925	101	1000	75	75-125

TRACE-LOW ICP QC CHECK TABLE

QC	ICV HIGH	ICV	CCV	ICSAB	ICSA
Limit%	95-105	90-110	90-110	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg/L
Al	10	5	5	500	500
Sb	1	0.5	0.5	1	0
As	1	0.5	0.5	1	0
Ba	1	0.5	0.5	0.5	0
Be	1	0.5	0.5	0.5	0
B	1	0.5	0.5	0.5	0
Cd	1	0.5	0.5	1	0
Ca	100	50	50	500	500
Cr	1	0.5	0.5	0.5	0
Co	1	0.5	0.5	0.5	0
Cu	1	0.5	0.5	0.5	0
Fe	10	5	5	200	200
Pb	1	0.5	0.5	1	0
Li	1	0.5	0.5	0.5	0
Mg	100	50	50	500	500
Mn	1	0.5	0.5	0.5	0
Mo	1	0.5	0.5	1	0
Ni	1	0.5	0.5	1	0
K	100	50	50	75	0
Se	1	0.5	0.5	1	0
Si	1	0.5	0.5	1	0
Ag	1	0.5	0.5	1	0
Na	100	50	50	75	0
Sr	1	0.5	0.5	0.5	0
Tl	1	0.5	0.5	1	0
Sn	1	0.5	0.5	1	0
Ti	1	0.5	0.5	1	0
U	10	5	5	1	0
V	1	0.5	0.5	0.5	0
Zn	1	0.5	0.5	1	0

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/7/07 18:31

End Date: 11/8/07 00:29

Comments:

J347-11A, J As failed, K failed
Se failed
J375-01M, -01S ↓Ag
J347-11M, -11S ↓Ag
CCV11 CCV12 ↑B, ↓Mn, ↑Na, ↑K

Book #: AD8-003

Instrument No.: D8

Analytical Batch: 1D8K004

Analytical Sequence: S-6010/K07(V6)

Method File: 6010K07/(V6)

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97-01
S1	LA
S2	SM1B10.98-01
S3	LA
S4	LA
S5	SM1B10.93-02
S6	LA
S7	LA
S8	SM1B10.93.03
S9	LA
ICV	SM1B10.93.05
CCV	10.93.04
ICSA	10.93.03
ICSAB	10.95.05
CRI/MRL	

Analyzed By: CK

Date: 11/8/07

SEQUENCE FILE : ID8K004

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K004001	Blank	18:31	11/07/07	1.000
ID8K004002	S2	18:36	11/07/07	1.000
ID8K004003	S5	18:41	11/07/07	1.000
ID8K004004	S8	18:47	11/07/07	1.000
ID8K004005	ICV	18:52	11/07/07	1.000
ID8K004006	ICB	18:58	11/07/07	1.000
ID8K004007	MRL8K04	19:03	11/07/07	1.000
ID8K004008	MRL8K04A	19:09	11/07/07	1.000
ID8K004009	ICSAI	19:14	11/07/07	1.000
ID8K004010	ICSABI	19:20	11/07/07	1.000
ID8K004011	CCV1	19:25	11/07/07	1.000
ID8K004012	CCB1	19:31	11/07/07	1.000
ID8K004013	IPJ045SB	19:36	11/07/07	1.000
ID8K004014	IPJ045SL	19:42	11/07/07	1.000
ID8K004015	IPJ045SC	19:47	11/07/07	1.000
ID8K004016	J263-02A	19:52	11/07/07	1.000
ID8K004017	J263-02	19:58	11/07/07	1.000
ID8K004018	J263-02J	20:03	11/07/07	5.000
ID8K004019	J384-03M	20:08	11/07/07	1.000
ID8K004020	J384-03S	20:14	11/07/07	1.000
ID8K004021	J384-03A	20:19	11/07/07	1.000
ID8K004022	J384-03	20:24	11/07/07	1.000
ID8K004023	CCV2	20:29	11/07/07	1.000
ID8K004024	CCB2	20:35	11/07/07	1.000
ID8K004025	IPK005SB	20:40	11/07/07	1.000
ID8K004026	IPK005SL	20:46	11/07/07	1.000
ID8K004027	IPK005SC	20:51	11/07/07	1.000
ID8K004028	J384-03J	20:57	11/07/07	5.000
ID8K004029	J384-01	21:02	11/07/07	1.000
ID8K004030	J384-02	21:07	11/07/07	1.000
ID8K004031	J384-04	21:13	11/07/07	1.000
ID8K004032	J384-05	21:18	11/07/07	1.000
ID8K004033	J384-06	21:23	11/07/07	1.000
ID8K004034	J384-07	21:29	11/07/07	1.000
ID8K004035	CCV3	21:34	11/07/07	1.000
ID8K004036	CCB3	21:39	11/07/07	1.000
ID8K004037	J384-08	21:45	11/07/07	1.000
ID8K004038	J384-09	21:50	11/07/07	1.000
ID8K004039	J384-10	21:56	11/07/07	1.000
ID8K004040	J384-11	22:01	11/07/07	1.000
ID8K004041	J384-12	22:07	11/07/07	1.000
ID8K004042	J384-13	22:12	11/07/07	1.000
ID8K004043	J384-14	22:17	11/07/07	1.000
ID8K004044	J383-01M	22:23	11/07/07	1.000
ID8K004045	J383-01S	22:28	11/07/07	1.000
ID8K004046	BLANK	22:33	11/07/07	1.000
ID8K004047	CCV4	22:39	11/07/07	1.000
ID8K004048	CCB4	22:44	11/07/07	1.000
ID8K004049	IPK004SB	22:50	11/07/07	1.000
ID8K004050	IPK004SL	22:55	11/07/07	1.000
ID8K004051	IPK004SC	23:00	11/07/07	1.000
ID8K004052	J383-01A	23:06	11/07/07	1.000
ID8K004053	J383-01	23:11	11/07/07	1.000
ID8K004054	J383-01J	23:16	11/07/07	5.000
ID8K004055	J383-02	23:22	11/07/07	1.000

ID8K004056	J383-03	23:27	11/07/07	1.000
ID8K004057	J383-04	23:32	11/07/07	1.000
ID8K004058	BLANK	23:38	11/07/07	1.000
ID8K004059	CCV5	23:43	11/07/07	1.000
ID8K004060	CCB5	23:49	11/07/07	1.000
ID8K004061	J383-31	23:54	11/07/07	1.000
ID8K004062	J383-32	00:00	11/08/07	1.000
ID8K004063	J383-33	00:05	11/08/07	1.000
ID8K004064	J383-34	00:10	11/08/07	1.000
ID8K004065	J383-35	00:16	11/08/07	1.000
ID8K004066	J383-36	00:21	11/08/07	1.000
ID8K004067	J383-37	00:27	11/08/07	1.000
ID8K004068	J383-38	00:32	11/08/07	1.000
ID8K004069	J383-39	00:37	11/08/07	1.000
ID8K004070	BLANK	00:43	11/08/07	1.000
ID8K004071	CCV6	00:48	11/08/07	1.000
ID8K004072	CCB6	00:54	11/08/07	1.000
ID8K004073	J383-40	00:59	11/08/07	1.000
ID8K004074	J385-03	01:04	11/08/07	1.000
ID8K004075	J385-04	01:10	11/08/07	1.000
ID8K004076	J385-05	01:15	11/08/07	1.000
ID8K004077	J385-06	01:21	11/08/07	1.000
ID8K004078	J529-01	01:26	11/08/07	1.000
ID8K004079	J529-02	01:32	11/08/07	1.000
ID8K004080	J527-01	01:37	11/08/07	1.000
ID8K004081	J527-02	01:43	11/08/07	1.000
ID8K004082	BLANK	01:48	11/08/07	1.000
ID8K004083	CCV7	01:54	11/08/07	1.000
ID8K004084	CCB7	01:59	11/08/07	1.000
ID8K004085	IPK003WB	02:05	11/08/07	1.000
ID8K004086	IPK003WL	02:10	11/08/07	1.000
ID8K004087	IPK003WC	02:16	11/08/07	1.000
ID8K004088	J375-01M	02:21	11/08/07	1.000
ID8K004089	J375-01S	02:26	11/08/07	1.000
ID8K004090	J375-01A	02:32	11/08/07	1.000
ID8K004091	J375-01	02:37	11/08/07	1.000
ID8K004092	J375-01J	02:42	11/08/07	5.000
ID8K004093	J385-02	02:48	11/08/07	1.000
ID8K004094	BLANK	02:53	11/08/07	1.000
ID8K004095	CCV8	02:59	11/08/07	1.000
ID8K004096	CCB8	03:04	11/08/07	1.000
ID8K004097	J375-02	03:10	11/08/07	1.000
ID8K004098	J375-03	03:15	11/08/07	1.000
ID8K004099	J375-04	03:21	11/08/07	1.000
ID8K004100	J375-05	03:26	11/08/07	1.000
ID8K004101	J375-06	03:32	11/08/07	1.000
ID8K004102	J375-07	03:37	11/08/07	1.000
ID8K004103	J296-01A	03:43	11/08/07	1.000
ID8K004104	J296-01	03:48	11/08/07	1.000
ID8K004105	J296-01J	03:54	11/08/07	5.000
ID8K004106	BLANK	03:59	11/08/07	1.000
ID8K004107	CCV9	04:05	11/08/07	1.000
ID8K004108	CCB9	04:10	11/08/07	1.000
ID8K004109	WTJ014SB	04:16	11/08/07	1.000
ID8K004110	J296-01M	04:21	11/08/07	1.000
ID8K004111	J296-01S	04:27	11/08/07	1.000
ID8K004112	BLANK	04:32	11/08/07	1.000
ID8K004113	CCV10	04:38	11/08/07	1.000

ID8K004114	CCB10	04:43	11/08/07	1.000
ID8K004115	J347-11M	04:49	11/08/07	1.000
ID8K004116	J347-11S	04:54	11/08/07	1.000
ID8K004117	J347-11A	05:00	11/08/07	1.000
ID8K004118	J347-11	05:06	11/08/07	1.000
ID8K004119	J347-11J	05:11	11/08/07	5.000
ID8K004120	J347-07	05:17	11/08/07	1.000
ID8K004121	J347-08	05:23	11/08/07	1.000
ID8K004122	J347-09	05:28	11/08/07	1.000
ID8K004123	BLANK	05:34	11/08/07	1.000
ID8K004124	BLANK	05:39	11/08/07	1.000
ID8K004125	CCV11	05:45	11/08/07	1.000
ID8K004126	CCB11	05:50	11/08/07	1.000
ID8K004127	J347-10	05:56	11/08/07	1.000
ID8K004128	J347-12	06:02	11/08/07	1.000
ID8K004129	J347-13	06:07	11/08/07	1.000
ID8K004130	BLANK	06:13	11/08/07	1.000
ID8K004131	BLANK	06:18	11/08/07	1.000
ID8K004132	CCV12	06:24	11/08/07	1.000
ID8K004133	CCB12	06:29	11/08/07	1.000

SDG : 07J385 UNIT : %

SUMMARY of ICV and CCV : ID8K004

DATE : 11/07/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	97	97	101	96	100	105	98	99	96	97	91	99	97	98	95	99	97	95	100	94	97	92	100	102
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL8K04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL8K04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	94	----	----	----	----	----	----	95	----	----	----	93	----	97	----	----	----	----	----	----	----	----	----	----
ICSABI	94	104	108	107	100	109	102	96	98	98	91	95	96	97	95	107	97	104	106	107	105	92	102	103
CCV1	102	98	102	96	98	102	99	99	98	97	90	100	95	97	94	103	97	93	101	97	98	92	102	101
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	100	98	102	97	98	102	100	99	98	97	90	99	95	98	94	103	97	95	102	97	98	93	102	101
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK005SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK005SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK005SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	98	97	101	97	98	99	100	98	96	97	90	98	95	97	94	103	97	95	101	95	97	93	100	102
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	97	98	102	97	98	99	100	98	96	97	90	99	96	97	94	103	97	95	102	94	97	93	100	102
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK004SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK004SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J383-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	100	98	103	97	98	100	100	98	97	97	92	100	96	97	94	103	98	96	102	96	98	93	101	102
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-32	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-33	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-34	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-35	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-36	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-37	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-38	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-39	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	100	99	104	98	98	100	100	99	97	97	93	99	96	97	95	103	97	96	104	96	98	93	101	101
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-40	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J529-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J529-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J527-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J527-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	99	99	103	99	98	101	100	99	97	98	93	99	96	97	95	103	98	97	103	97	99	93	101	102
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK003WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK003WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	101	100	103	99	97	104	99	99	100	98	94	101	96	97	95	103	98	95	103	100	101	93	104	101
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	100	100	104	99	97	102	100	99	99	97	94	99	95	97	95	103	98	98	104	98	101	92	103	101
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTJ014SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	100	99	103	99	96	102	99	97	98	97	96	100	95	96	93	103	97	97	103	98	102	93	102	101

CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	99	99	103	105	93	111*	100	94	97	98	107	99	96	90	86*	103	98	110	102	96	113*	93	101	101
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	101	100	104	106	94	112*	101	94	98	98	110	100	97	91	86*	104	98	111*	104	98	114*	94	102	102
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 07J385 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K004 (WATER) DATE : 11/07/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-9.09	1.29	-1.79	-.290	.120	-3.17	.090	-22.4	.170	-.240	.210	1.45	-.530	56.4	1.89	-.010	-.170	-39.9	1.12	.060	-40.6	.320	.330	-1.56
MRL8K04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL8K04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	----	1.62	-11.4	.230	-.190	9.49	-1.23	----	.260	.630	3.10	----	1.04	----	-.010	-1.78	-.060	2.23	11.3	-.230	111	-2.04	.100	-4.47
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	28.0	1.28	.180	.080	.140	-6.52	.060	-4.96	.130	.090	.210	12.5	.700	73.4	1.73	.120	-.290	-70.6	1.85	.330	-170	.010	-.020	-1.48
IPJ045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-8.29	2.66	-.810	.630	.090	-6.33	.030	-33.2	.050	.030	-.040	8.37	.410	-1.72	1.50	-.010	-.060	-26.2	2.04	.070	-371	-.430	-.190	-1.44
IPK005SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK005SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK005SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-11.3	-.580	.190	.220	-.110	-8.39	.020	-26.1	.130	-.140	-.170	3.31	.360	58.1	2.01	.170	.390	-34.9	1.54	.220	-423	-.320	.140	-1.24
J384-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-13.6	.640	-1.06	-.040	-.210	-8.54	.090	-25.1	.110	.030	.070	7.71	.010	48.9	.980	.180	-.190	43.9	-.510	.050	-427	.140	-.080	.300
IPK004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK004SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK004SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J383-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	-6.51	1.39	.220	-.190	-.100	-9.93	.000	-20.9	-.090	.000	.220	14.1	.270	32.4	.860	.060	-.190	46.2	1.02	-.080	-446	.690	-.210	-.870
J383-31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-32	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-33	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-34	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-35	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-36	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-37	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-38	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-39	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-9.45	.750	-.150	-.290	.110	-10.9	.010	-3.10	.150	-.040	-.110	6.84	.840	10.0	.310	.070	-.170	-74.9	.410	.150	-464	-.460	.100	-.610
J383-40	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J529-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J529-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J527-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J527-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-11.0	.580	-.890	-.220	.090	-9.10	.010	-32.9	.050	-.080	-.100	3.11	.120	-3.46	.000	.030	-.200	-35.5	1.12	-.050	-406	-.510	.050	-1.43
IPK003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK003WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK003WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-10.2	2.08	-1.17	-.010	-.170	-10.8	.020	-26.3	.160	-.140	-.110	2.56	.010	4.13	-1.63	.080	.110	-66.9	.540	.160	-419	-.230	-.210	-1.07
J375-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-11.9	2.66	-.060	.020	-.110	-11.8	-.030	-23.7	.320	-.090	.160	1.04	-.190	57.8	-.430	.050	-.250	-15.9	-.080	.230	-174	-.670	.250	-.700
WTJ014SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCB10	-8.95	1.70	-.270	1.02	.170	-12.1	.080	-23.5	.260	-.070	-.070	4.31	.330	38.7	.420	.240	-.080	16.8	2.01	.150	107	1.10	-.050	-1.53
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-5.83	1.34	.000	.520	.120	37.3	.030	-26.4	.280	-.090	.170	.680	.480	55.5	-1.06	.060	-.310	6.11	.720	.240	1492	.380	.140	-1.40
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-11.8	1.71	-1.92	-.350	.140	35.1	.010	-22.4	.090	.030	.190	-.830	-.120	47.0	1.95	.040	-.380	-39.6	.660	.230	951	-.130	-.030	-1.57

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 075385 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K004 (SOIL) DATE : 11/07/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-9.09	1.29	-1.79	-.290	.120	-3.17	.090	-22.4	.170	-.240	.210	1.45	-.530	56.4	1.89	-.010	-.170	-39.9	1.12	.060	-40.6	.320	.330	-1.56
MRL8K04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL8K04A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	----	1.62	-11.4	.230	-.190	9.49	-1.23	----	.260	.630	3.10	----	1.04	----	-.010	-1.78	-.060	2.23	11.3	-.230	111	-2.04	.100	-4.47
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	28.0	1.28	.180	.080	.140	-6.52	.060	-4.96	.130	.090	.210	12.5	.700	73.4	1.73	.120	-.290	-70.6	1.85	.330	-170	.010	-.020	-1.48
IPJ045SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ045SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ045SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J263-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-8.29	2.66	-.810	.630	.090	-6.33	.030	-33.2	.050	.030	-.040	8.37	.410	-1.72	1.50	-.010	-.060	-26.2	2.04	.070	-371	-.430	-.190	-1.44
IPK005SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK005SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK005SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-11.3	-.580	.190	.220	-.110	-8.39	.020	-26.1	.130	-.140	-.170	3.31	.360	58.1	2.01	.170	.390	-34.9	1.54	.220	-423	-.320	.140	-1.24
J384-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J384-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-13.6	.640	-1.06	-.040	-.210	-8.54	.090	-25.1	.110	.030	.070	7.71	.010	48.9	.980	.180	-.190	43.9	-.510	.050	-427	.140	-.080	.300
IPK004SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK004SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK004SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J383-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	-6.51	1.39	.220	-.190	-.100	-9.93	.000	-20.9	-.090	.000	.220	14.1	.270	32.4	.860	.060	-.190	46.2	1.02	-.080	-446	.690	-.210	-.870
J383-31	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-32	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-33	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-34	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-35	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-36	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-37	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-38	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J383-39	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-9.45	.750	-.150	-.290	.110	-10.9	.010	-3.10	.150	-.040	-.110	6.84	.840	10.0	.310	.070	-.170	-74.9	.410	.150	-464	-.460	.100	-.610
J383-40	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J529-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J529-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J527-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J527-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-11.0	.580	-.890	-.220	.090	-9.10	.010	-32.9	.050	-.080	-.100	3.11	.120	-3.46	.000	.030	-.200	-35.5	1.12	-.050	-406	-.510	.050	-1.43
IPK003WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK003WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK003WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J385-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-10.2	2.08	-1.17	-.010	-.170	-10.8	.020	-26.3	.160	-.140	-.110	2.56	.010	4.13	-1.63	.080	.110	-66.9	.540	.160	-419	-.230	-.210	-1.07
J375-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J375-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-11.9	2.66	-.060	.020	-.110	-11.8	-.030	-23.7	.320	-.090	.160	1.04	-.190	57.8	-.430	.050	-.250	-15.9	-.080	.230	-174	-.670	.250	-.700
WTJ014SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J296-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCB10	-8.95	1.70	-.270	1.02	.170	-12.1	.080	-23.5	.260	-.070	-.070	4.31	.330	38.7	.420	.240	-.080	16.8	2.01	.150	107	1.10	-.050	-1.53
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-5.83	1.34	.000	.520	.120	37.3	.030	-26.4	.280	-.090	.170	.680	.480	55.5	-1.06	.060	-.310	6.11	.720	.240	1492	.380	.140	-1.40
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-11.8	1.71	-1.92	-.350	.140	35.1	.010	-22.4	.090	.030	.190	-.830	-.120	47.0	1.95	.040	-.380	-39.6	.660	.230	951	-.130	-.030	-1.57

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8K004001			1	☐		Continue
2	0	Unk	S2		ID8K004002			1	☐		Continue
3	0	Unk	S5		ID8K004003			1	☐		Continue
4	0	Unk	S8		ID8K004004			1	☐		Continue
5	1	QC	ICV		ID8K004005			1	☒	ICV	Continue
6	2	QC	ICB		ID8K004006			1	☒	CCB1	Continue
7	3	Unk	MRL8K04	VERSAR	ID8K004007			1	☐		Continue
8	4	Unk	MRL8K04A	VERSAR	ID8K004008			1	☐		Continue
9	5	QC	ICSAI		ID8K004009			1	☒	ICSA	Continue
10	6	QC	ICSABI		ID8K004010			1	☒	ICSAB	Continue
11	7	QC	CCV1		ID8K004011			1	☒	CCV	Continue
12	8	QC	CCB1		ID8K004012			1	☒	CCB1	Continue
13	9	QC	IPJ045SB		ID8K004013			1	☒	CCB1	Continue
14	10	QC	IPJ045SL		ID8K004014			1	☒	LCS	Continue
15	11	QC	IPJ045SC		ID8K004015			1	☒	LCS	Continue
16	12	Unk	J263-02A		ID8K004016			1	☐		Continue
17	13	Unk	J263-02		ID8K004017			1	☐		Continue
18	14	Unk	J263-02J		ID8K004018			1	☐		Continue
19	15	Unk	J384-03M	IPK005S	ID8K004019			1	☐		Continue
20	16	Unk	J384-03S		ID8K004020			1	☐		Continue
21	17	Unk	J384-03A		ID8K004021			1	☐		Continue
22	18	Unk	J384-03		ID8K004022			1	☐		Continue
23	19	QC	CCV2		ID8K004023			1	☒	CCV	Continue
24	20	QC	CCB2		ID8K004024			1	☒	CCB1	Continue
25	21	QC	IPK005SB		ID8K004025			1	☒	CCB1	Continue
26	22	QC	IPK005SL		ID8K004026			1	☒	LCS	Continue
27	23	QC	IPK005SC		ID8K004027			1	☒	LCS	Continue
28	24	Unk	J384-03J		ID8K004028			1	☐		Continue
29	25	Unk	J384-01		ID8K004029			1	☐		Continue
30	26	Unk	J384-02		ID8K004030			1	☐		Continue
31	27	Unk	J384-04		ID8K004031			1	☐		Continue
32	28	Unk	J384-05		ID8K004032			1	☐		Continue
33	29	Unk	J384-06		ID8K004033			1	☐		Continue
34	30	Unk	J384-07		ID8K004034			1	☐		Continue
35	31	QC	CCV3		ID8K004035			1	☒	CCV	Continue
36	32	QC	CCB3		ID8K004036			1	☒	CCB1	Continue
37	33	Unk	J384-08		ID8K004037			1	☐		Continue
38	34	Unk	J384-09		ID8K004038			1	☐		Continue
39	35	Unk	J384-10		ID8K004039			1	☐		Continue
40	36	Unk	J384-11		ID8K004040			1	☐		Continue
41	37	Unk	J384-12		ID8K004041			1	☐		Continue
42	38	Unk	J384-13		ID8K004042			1	☐		Continue
43	39	Unk	J384-14		ID8K004043			1	☐		Continue
44	40	Unk	J383-01M		ID8K004044			1	☐		Continue
45	41	Unk	J383-01S		ID8K004045			1	☐		Continue
46	42	Unk	BLANK		ID8K004046			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	QC	CCV4		ID8K004047			1	☒	CCV	Continue
48	44	QC	CCB4		ID8K004048			1	☒	CCB1	Continue
49	45	QC	IPK004SB		ID8K004049			1	☒	CCB1	Continue
50	46	QC	IPK004SL		ID8K004050			1	☒	LCS	Continue
51	47	QC	IPK004SC		ID8K004051			1	☒	LCS	Continue
52	48	Unk	J383-01A		ID8K004052			1	☐		Continue
53	49	Unk	J383-01		ID8K004053			1	☐		Continue
54	50	Unk	J383-01J		ID8K004054			1	☐		Continue
55	51	Unk	J383-02		ID8K004055			1	☐		Continue
56	52	Unk	J383-03		ID8K004056			1	☐		Continue
57	53	Unk	J383-04		ID8K004057			1	☐		Continue
58	54	Unk	BLANK		ID8K004058			1	☐		Continue
59	55	QC	CCV5		ID8K004059			1	☒	CCV	Continue
60	56	QC	CCB5		ID8K004060			1	☒	CCB1	Continue
61	57	Unk	J383-31		ID8K004061			1	☐		Continue
62	58	Unk	J383-32		ID8K004062			1	☐		Continue
63	59	Unk	J383-33		ID8K004063			1	☐		Continue
64	60	Unk	J383-34		ID8K004064			1	☐		Continue
65	61	Unk	J383-35		ID8K004065			1	☐		Continue
66	62	Unk	J383-36		ID8K004066			1	☐		Continue
67	63	Unk	J383-37		ID8K004067			1	☐		Continue
68	64	Unk	J383-38		ID8K004068			1	☐		Continue
69	65	Unk	J383-39		ID8K004069			1	☐		Continue
70	66	Unk	BLANK		ID8K004070			1	☐		Continue
71	67	QC	CCV6		ID8K004071			1	☒	CCV	Continue
72	68	QC	CCB6		ID8K004072			1	☒	CCB1	Continue
73	69	Unk	J383-40		ID8K004073			1	☐		Continue
74	70	Unk	J385-03		ID8K004074			1	☐		Continue
75	71	Unk	J385-04		ID8K004075			1	☐		Continue
76	72	Unk	J385-05		ID8K004076			1	☐		Continue
77	73	Unk	J385-06	↑Ca	ID8K004077			1	☐		Continue
78	74	Unk	J529-01		ID8K004078			1	☐		Continue
79	75	Unk	J529-02		ID8K004079			1	☐		Continue
80	76	Unk	J527-01	IPK003W	ID8K004080			1	☐		Continue
81	77	Unk	J527-02		ID8K004081			1	☐		Continue
82	78	Unk	BLANK		ID8K004082			1	☐		Continue
83	79	QC	CCV7		ID8K004083			1	☒	CCV	Continue
84	80	QC	CCB7		ID8K004084			1	☒	CCB1	Continue
85	81	QC	IPK003WB		ID8K004085			1	☒	CCB1	Continue
86	82	QC	IPK003WL		ID8K004086			1	☒	LCS	Continue
87	83	QC	IPK003WC		ID8K004087			1	☒	LCS	Continue
88	84	Unk	J375-01M	↓Ag	ID8K004088			1	☐		Continue
89	85	Unk	J375-01S	↓Ag	ID8K004089			1	☐		Continue
90	86	Unk	J375-01A		ID8K004090			1	☐		Continue
91	87	Unk	J375-01		ID8K004091			1	☐		Continue
92	88	Unk	J375-01J		ID8K004092			1	☐		Continue

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	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	Unk	J385-02		ID8K004093			1	☐		Continue
94	90	Unk	BLANK		ID8K004094			1	☐		Continue
95	91	QC	CCV8		ID8K004095			1	☒	CCV	Continue
96	92	QC	CCB8		ID8K004096			1	☒	CCB1	Continue
97	93	Unk	J375-02		ID8K004097			1	☐		Continue
98	94	Unk	J375-03		ID8K004098			1	☐		Continue
99	95	Unk	J375-04		ID8K004099			1	☐		Continue
100	96	Unk	J375-05		ID8K004100			1	☐		Continue
101	97	Unk	J375-06		ID8K004101			1	☐		Continue
102	98	Unk	J375-07		ID8K004102			1	☐		Continue
103	99	Unk	J296-01A		ID8K004103			1	☐		Continue
104	100	Unk	J296-01		ID8K004104			1	☐		Continue
105	101	Unk	J296-01J		ID8K004105			1	☐		Continue
106	102	Unk	BLANK		ID8K004106			1	☐		Continue
107	103	QC	CCV9		ID8K004107			1	☒	CCV	Continue
108	104	QC	CCB9		ID8K004108			1	☒	CCB1	Continue
109	105	QC	WTJ014SB		ID8K004109			1	☒	CCB1	Continue
110	106	Unk	J296-01M		ID8K004110			1	☐		Continue
111	107	Unk	J296-01S		ID8K004111			1	☐		Continue
112	108	Unk	BLANK		ID8K004112			1	☐		Continue
113	109	QC	CCV10		ID8K004113			1	☒	CCV	Continue
114	110	QC	CCB10		ID8K004114			1	☒	CCB1	Continue
115	111	Unk	J347-11M	↓Ag	ID8K004115			1	☐		Continue
116	112	Unk	J347-11S	↓Ag	ID8K004116			1	☐		Continue
117	113	Unk	J347-11A	Ag, K, Fe failed	ID8K004117			1	☐		Continue
118	114	Unk	J347-11	↑Mg, ↑Na	ID8K004118			1	☐		Continue
119	115	Unk	J347-11J	K, Fe failed	ID8K004119			1	☐		Continue
120	116	Unk	J347-07	↑Na	ID8K004120			1	☐		Continue
121	117	Unk	J347-08	↑Na	ID8K004121			1	☐		Continue
122	118	Unk	J347-09	↑Na	ID8K004122			1	☐		Continue
123	119	Unk	BLANK		ID8K004123			1	☐		Continue
124	120	Unk	BLANK		ID8K004124			1	☐		Continue
125	121	QC	CCV11	↑B, ↓Mn, ↑Na	ID8K004125			1	☒	CCV	Continue
126	122	QC	CCB11		ID8K004126			1	☒	CCB1	Continue
127	123	Unk	J347-10	↑Na	ID8K004127			1	☐		Continue
128	124	Unk	J347-12	↑Na	ID8K004128			1	☐		Continue
129	125	Unk	J347-13		ID8K004129			1	☐		Continue
130	126	Unk	BLANK		ID8K004130			1	☐		Continue
131	127	Unk	BLANK		ID8K004131			1	☐		Continue
132	128	QC	CCV12	↑B, ↓Mn, ↑Na, HC	ID8K004132			1	☒	CCV	Continue
133	129	QC	CCB12		ID8K004133			1	☒	CCB1	Continue

7032

	Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation
	Al 308.215 {109}	11/7/2007 18:52:51	Linear	1/Conc	0.001412	0.024114	0.000000	1.000000	1.000000
	Sb 206.833 {463}	11/7/2007 18:47:22	Linear	1/Conc	0.000018	0.008104	0.000000	1.000000	1.000000
	As 189.042 {478}	11/7/2007 18:47:22	Linear	1/Conc	-0.000027	0.005293	0.000000	1.000000	1.000000
	Ba 455.403 { 74}	11/7/2007 18:41:55	Linear	1/Conc	0.001612	0.796610	0.000000	1.000000	1.000000
	Be 313.042 {108}	11/7/2007 18:41:55	Linear	1/Conc	-0.000023	0.761461	0.000000	1.000000	1.000000
	B 249.773 {135}	11/7/2007 18:41:55	Linear	1/Conc	0.001286	0.098028	0.000000	1.000000	1.000000
	Cd 226.502 {449}	11/7/2007 18:41:55	Linear	1/Conc	-0.000022	2.565276	0.000000	1.000000	1.000000
	Ca 317.933 {106}	11/7/2007 18:52:51	Linear	1/Conc	0.000467	0.016865	0.000000	1.000000	1.000000
	Cr 267.716 {126}	11/7/2007 18:41:55	Linear	1/Conc	0.000234	0.185933	0.000000	1.000000	1.000000
	Co 228.616 {447}	11/7/2007 18:41:55	Linear	1/Conc	-0.000396	0.677901	0.000000	1.000000	1.000000
	Cu 324.754 {104}	11/7/2007 18:41:55	Linear	1/Conc	0.001973	1.535689	0.000000	1.000000	1.000000
	Fe 271.441 {124}	11/7/2007 18:52:51	Linear	1/Conc	-0.000057	0.007960	0.000000	1.000000	1.000000
	Pb 220.353 {453}	11/7/2007 18:41:55	Linear	1/Conc	-0.000057	0.192001	0.000000	1.000000	1.000000
	Li 670.784 { 50}	2/2/2007 14:25:23	Linear	1/Conc	0.002046	0.234028	0.000000	1.000000	1.000000
	Mg 279.079 {121}	11/7/2007 18:52:51	Linear	1/Conc	0.000017	0.001730	0.000000	1.000000	1.000000
	Mn 257.610 {131}	11/7/2007 18:41:55	Linear	1/Conc	-0.000009	0.051652	0.000000	1.000000	1.000000
	Mo 202.030 {467}	11/7/2007 18:47:22	Linear	1/Conc	-0.000019	0.668495	0.000000	1.000000	1.000000
	Ni 231.604 {446}	11/7/2007 18:41:55	Linear	1/Conc	-0.000303	0.629245	0.000000	1.000000	1.000000
	K 766.490 { 44}	11/7/2007 18:52:51	Linear	1/Conc	-0.003472	0.016356	0.000000	1.000000	1.000000
	Se 196.090 {472}	11/7/2007 18:47:22	Linear	1/Conc	0.000001	0.005219	0.000000	1.000000	1.000000
	Si 212.412 {459}	2/2/2007 14:25:23	Linear	1/Conc	0.006974	0.273496	0.000000	1.000000	1.000000
	Ag 328.068 {103}	11/7/2007 18:41:55	Linear	1/Conc	0.000257	0.196611	0.000000	1.000000	1.000000
	Na 589.592 { 57}	11/7/2007 18:52:51	Linear	1/Conc	0.027325	0.059419	0.000000	1.000000	1.000000
	Sr 421.552 { 80}	11/7/2007 18:41:55	Linear	1/Conc	-0.001956	0.883519	0.000000	1.000000	1.000000
	Tl 190.856 {477}	11/7/2007 18:41:55	Linear	1/Conc	-0.000449	0.133015	0.000000	1.000000	1.000000
	Sn 189.989 {477}	11/7/2007 18:41:55	Linear	1/Conc	0.000124	0.152768	0.000000	1.000000	1.000000
	Ti 334.941 {101}	11/7/2007 18:41:55	Linear	1/Conc	0.000037	0.067162	0.000000	1.000000	1.000000
	U 409.014 { 82}	2/2/2007 14:25:23	Linear	1/Conc	0.000061	0.011861	0.000000	1.000000	1.000000
	V 292.402 {115}	11/7/2007 18:41:55	Linear	1/Conc	-0.000217	0.163354	0.000000	1.000000	1.000000
	Zn 206.200 {463}	11/7/2007 18:47:22	Linear	1/Conc	0.002319	0.915372	0.000000	1.000000	1.000000
	Sc 227.318 {448}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
	Sc 361.384 { 93}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
	Sc 364.531 { 92}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000

Element, Wavelength and Order	Std Error of Est	MDL	MQL	Status	Reslope		QC Norm	
					Slope	Y-int	Slope factor	Offset
Al 308.215 {109}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
B 249.773 {135}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Fe 271.441 {124}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Li 670.784 { 50}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ni 231.604 {446}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
K 766.490 { 44}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ag 328.068 {103}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Sr 421.552 { 80}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
U 409.014 { 82}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Zn 206.200 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Sc 227.318 {448}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
Sc 361.384 { 93}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
Sc 364.531 { 92}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No.4 ☑ EMAX-3010 Rev. No. 3 ☐ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: WATER Start Date: 11-2-07 Time: 10:50 Temp: 90°C Ending Date: 11-2-07 Time: 14:50 Temp.: 90 °C

BATCH: IPK003-W

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPK003-WB					50	–	50		
02	-WL					50	–	50		
03	-WC					50	–	50		
04	J372-01					50	<2	50		
05	J373-01					50		50		
06	J374-01					50		50		
07	J375-01					50		50		
08	-01M					50		50		
09	-01S					50		50		
10	-02					50		50		
11	-03					50		50		
12	-04					50		50		
13	-05					50		50		
14	-06					50		50		
15	-07					50		50		
16	J385-02					50		50		
17	J527-01					50		50		
18	-02					50		50		
19										
20										
21										
22										
23										
24										
25										

11-2-07 MC

Standards	ID	Amount Added (ml)
LCS -1	SMIA-10-99	0.5
LCS -2	SMIA-10-98	0.5
LCS -3	SMIA-10-97	0.5
MS		
Reagent	**Lot# / ID**	**Amount Added**
HNO_3	SWIA-03-645	1.5+1.5
HCl	SWIA-03-612	2.5
H_2O_2	N/A	
HNO3 (1:1)	N/A	
Digestate Location	ICP	
Extract Location		

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 11/2/7

Checked By: CPC

Date Disposed: Disposed by:

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No.4 ☐ EMAX-3010 Rev. No. 3 ☑ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: SOIL Start Date: 11-2-07 Time: 10:45 Temp: 90 °C Ending Date: 11-2-07 Time: 14:45 Temp.: 90 °C

BATCH: IPK004-S

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPK004-SB					—	N/A	100		
02	-SC					—		100		
03	-SC					—		100		
04	J383-01					1.001		100		
05	-01M					1.002		100		
06	-01S					1.003		100		
07	-02					1.001		100		
08	-03					1.000		100		
09	-04					1.001		100		
10	-31					1.002		100		
11	-32					1.003		100		
12	-33					1.002		100		
13	-34					1.000		100		
14	-35					1.001		100		
15	-36					1.002		100		
16	-37					1.003		100		
17	-38					1.001		100		
18	-39					1.003		100		
19	-40					1.001		100		
20	J385-03					1.002		100		
21	-04					1.003		100		
22	-05					1.002		100		
23	-06					1.001		100		
24	J529-01					1.002		100		
25	-02					1.001		100		

Standards	ID	Amount Added (ml)
LCS -1	SM1A-10-99	1.0
LCS -2	SM1A-10-98	1.0
LCS -3	SM1A-10-97	1.0
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SW1A-03-645	10.0
HCl	SW1A-03-612	10.0
H_2O_2	SW1A-03-573	10.0
HNO3 (1:1)	SM5B-02-69	10.0

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 11/2/07

Checked By: CPC

Date Disposed: Disposed by:

1030

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J385

METHOD 7470A/7471A
MERCURY BY COLD VAPOR

One (1) water and four (4) soil samples were received on 10/30/07 for Mercury analysis by Method 7470A/7471A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Samples J363-03 and K058-04 from other SDG were analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

MS/MSD sample was not designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J385
Instrument ID : TI047

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGK023SB	1	NA	11/13/0717:12	11/13/0714:30	M47K013039	M47K013032	HGK023S	Method Blank
LCS1S	HGK023SL	1	NA	11/13/0717:14	11/13/0714:30	M47K013040	M47K013032	HGK023S	Lab Control Sample (LCS)
LCD1S	HGK023SC	1	NA	11/13/0717:16	11/13/0714:30	M47K013041	M47K013032	HGK023S	LCS Duplicate
811872-2221AS	K058-04A	1	43.0	11/13/0717:18	11/13/0714:30	M47K013042	M47K013032	HGK023S	Analytical Spike Sample
811872-2221	K058-04	1	43.0	11/13/0717:21	11/13/0714:30	M47K013043	M47K013032	HGK023S	Field Sample
811872-2221DL	K058-04J	5	43.0	11/13/0717:27	11/13/0714:30	M47K013046	M47K013044	HGK023S	Diluted Sample
SB5-55	J385-03	1	8.1	11/13/0717:44	11/13/0714:30	M47K013054	M47K013044	HGK023S	Field Sample
SB5-60	J385-04	1	8.9	11/13/0717:46	11/13/0714:30	M47K013055	M47K013044	HGK023S	Field Sample
SB1-55	J385-05	1	9.9	11/13/0717:52	11/13/0714:30	M47K013058	M47K013056	HGK023S	Field Sample
SB1-60	J385-06	1	5.8	11/13/0717:54	11/13/0714:30	M47K013059	M47K013056	HGK023S	Field Sample

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGK011WB	1	NA	11/06/0717:27	11/06/0713:00	M47K006024	M47K006020	HGK011W	Method Blank
LCS1W	HGK011WL	1	NA	11/06/0717:29	11/06/0713:00	M47K006025	M47K006020	HGK011W	Lab Control Sample (LCS)
LCD1W	HGK011WC	1	NA	11/06/0717:31	11/06/0713:00	M47K006026	M47K006020	HGK011W	LCS Duplicate
U8-008AS	J363-03A	1	NA	11/06/0717:33	11/06/0713:00	M47K006027	M47K006020	HGK011W	Analytical Spike Sample
U8-008	J363-03	1	NA	11/06/0717:36	11/06/0713:00	M47K006028	M47K006020	HGK011W	Field Sample
U8-008DL	J363-03J	5	NA	11/06/0717:37	11/06/0713:00	M47K006029	M47K006020	HGK011W	Diluted Sample
LEB2-102907	J385-02	1	NA	11/06/0717:52	11/06/0713:00	M47K006036	M47K006032	HGK011W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J385

Matrix : WATER
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGK011WB	ND	1	NA	0.500	0.100	11/06/0717:27	11/06/0713:00	M47K006024	M47K006020	HGK011W	NA	11/06/07
LCS1W	HGK011WL	5.14	1	NA	0.500	0.100	11/06/0717:29	11/06/0713:00	M47K006025	M47K006020	HGK011W	NA	11/06/07
LCD1W	HGK011WC	5.39	1	NA	0.500	0.100	11/06/0717:31	11/06/0713:00	M47K006026	M47K006020	HGK011W	NA	11/06/07
LEB2-102907	J385-02	ND	1	NA	0.500	0.100	11/06/0717:52	11/06/0713:00	M47K006036	M47K006032	HGK011W	10/29/07	10/30/07

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J385
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGK011WB	HGK011WL	HGK011WC		
LAB FILE ID:	M47K006024	M47K006025	M47K006026		
DATIME EXTRCTD:	11/06/0713:00	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/06/0717:27	11/06/0717:29	11/06/0717:31	DATE RECEIVED:	11/06/07
PREP. BATCH:	HGK011W	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020	M47K006020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	5.14	103	5.00	5.39	108	5	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	U8-008	U8-008DL		
EMAX SAMP ID:	J363-03	J363-03J		
LAB FILE ID:	M47K006028	M47K006029		
DATE EXTRACTED:	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	10/29/07
DATE ANALYZED:	11/06/0717:36	11/06/0717:37	DATE RECEIVED:	10/30/07
PREP. BATCH:	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SERIAL DIL RSLT (ug/L)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J385
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	U8-008			
CONTROL NO.:	J363-03	J363-03A		
LAB FILE ID:	M47K006028	M47K006027		
DATIME EXTRCTD:	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	10/29/07
DATIME ANALYZD:	11/06/0717:36	11/06/0717:33	DATE RECEIVED:	10/30/07
PREP. BATCH:	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	AS RSLT (ug/L)	AS % REC	QC LIMIT (%)
Mercury	ND	2.00	2.08	104	85-115

METHOD 7471A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J385

Matrix : SOIL
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGK023SB	ND	1	NA	0.100	0.0330	11/13/0717:12	11/13/0714:30	M47K013039	M47K013032	HGK023S	NA	11/13/07
LCS1S	HGK023SL	0.840	1	NA	0.100	0.0330	11/13/0717:14	11/13/0714:30	M47K013040	M47K013032	HGK023S	NA	11/13/07
LCD1S	HGK023SC	0.838	1	NA	0.100	0.0330	11/13/0717:16	11/13/0714:30	M47K013041	M47K013032	HGK023S	NA	11/13/07
SB5-55	J385-03	ND	1	8.1	0.109	0.0359	11/13/0717:44	11/13/0714:30	M47K013054	M47K013044	HGK023S	10/29/07	10/30/07
SB5-60	J385-04	ND	1	8.9	0.110	0.0362	11/13/0717:46	11/13/0714:30	M47K013055	M47K013044	HGK023S	10/29/07	10/30/07
SB1-55	J385-05	ND	1	9.9	0.111	0.0366	11/13/0717:52	11/13/0714:30	M47K013058	M47K013056	HGK023S	10/29/07	10/30/07
SB1-60	J385-06	ND	1	5.8	0.106	0.0350	11/13/0717:54	11/13/0714:30	M47K013059	M47K013056	HGK023S	10/29/07	10/30/07

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J385
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGK023SB	HGK023SL	HGK023SC		
LAB FILE ID:	M47K013039	M47K013040	M47K013041		
DATIME EXTRCTD:	11/13/0714:30	11/13/0714:30	11/13/0714:30	DATE COLLECTED:	NA
DATIME ANALYZD:	11/13/0717:12	11/13/0717:14	11/13/0717:16	DATE RECEIVED:	11/13/07
PREP. BATCH:	HGK023S	HGK023S	HGK023S		
CALIB. REF:	M47K013032	M47K013032	M47K013032		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.840	101	0.833	0.838	101	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	43.0
DILUTION FACTOR:	1	5		
SAMPLE ID:	811872-2221	811872-2221DL		
EMAX SAMP ID:	K058-04	K058-04J		
LAB FILE ID:	M47K013043	M47K013046		
DATE EXTRACTED:	11/13/0714:30	11/13/0714:30	DATE COLLECTED:	11/05/07
DATE ANALYZED:	11/13/0717:21	11/13/0717:27	DATE RECEIVED:	11/05/07
PREP. BATCH:	HGK023S	HGK023S		
CALIB. REF:	M47K013032	M47K013044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J385
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	43.0
DILTN FACTR:	1	1		
SAMPLE ID:	811872-2221			
CONTROL NO.:	K058-04	K058-04A		
LAB FILE ID:	M47K013043	M47K013042		
DATIME EXTRCTD:	11/13/0714:30	11/13/0714:30	DATE COLLECTED:	11/05/07
DATIME ANALYZD:	11/13/0717:21	11/13/0717:18	DATE RECEIVED:	11/05/07
PREP. BATCH:	HGK023S	HGK023S		
CALIB. REF:	M47K013032	M47K013032		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Mercury	ND	0.584	0.594	102	85-115

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/6/07 **Start Time:** 16:33

End Date: 11/6/07 **End Time:** 19:40

Comments:

QC OK

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47K006

Method File: Hg

SOP #	Rev. #
☑ EMAX-7470	3
☐ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-715
S3	↓
S4	↓
S5	↓
S6	↓
ICV	SM3B-07-716
CCV	↓
LCS	↓
Analytical Spike	
	SM3B-07-686

Analyzed By: NT

Date: 11/6/07

7047

"M47K006"

EMAXlfid	EMAXlsid	conc	Raw_resp	rsd/rf	adatetime	DF
M47K006000	STD1REP1	0	309		11/06/0716:33	1
M47K006001	STD2REP1	.2	13652		11/06/0716:35	1
M47K006002	STD3REP1	1	50519		11/06/0716:37	1
M47K006003	STD4REP1	2	100009		11/06/0716:39	1
M47K006004	STD5REP1	5	247407		11/06/0716:41	1
M47K006005	STD6REP1	10	486043		11/06/0716:43	1
M47K006006	ICV	2.05	101952	0	11/06/0716:52	1
M47K006007	ICB	-.001	2576	0	11/06/0716:53	1
M47K006008	CCV1	5.06	247681	0	11/06/0716:55	1
M47K006009	CCB1	-.052	81	0	11/06/0716:58	1
M47K006010	HGK010WB	-.017	1811	0	11/06/0717:00	1
M47K006011	HGK010WL	5.1	249606	0	11/06/0717:02	1
M47K006012	HGK010WC	5.1	249975	0	11/06/0717:04	1
M47K006013	TXK001SB	-.032	1076	0	11/06/0717:06	1
M47K006014	K007-01A	2.18	108086	0	11/06/0717:08	1
M47K006015	K007-01	-.029	1241	0	11/06/0717:10	1
M47K006016	K007-01J	.007	2987	0	11/06/0717:12	5
M47K006017	K007-01M	5.47	267860	0	11/06/0717:14	1
M47K006018	K007-01S	5.24	256661	0	11/06/0717:16	1
M47K006019	K002-01A	2.12	105574	0	11/06/0717:18	1
M47K006020	CCV2	5.23	255954	0	11/06/0717:19	1
M47K006021	CCB2	-.04	670	0	11/06/0717:21	1
M47K006022	K002-01	-.062	-375	0	11/06/0717:23	1
M47K006023	K002-01J	.002	2712	0	11/06/0717:25	5
M47K006024	HGK011WB	-.001	2575	0	11/06/0717:27	1
M47K006025	HGK011WL	5.14	251913	0	11/06/0717:29	1
M47K006026	HGK011WC	5.39	263700	0	11/06/0717:31	1
M47K006027	J363-03A	2.08	103654	0	11/06/0717:33	1
M47K006028	J363-03	-.02	1648	0	11/06/0717:36	1
M47K006029	J363-03J	-.061	-330	0	11/06/0717:37	5
M47K006030	J363-03M	5.38	263582	0	11/06/0717:39	1
M47K006031	J363-03S	5.36	262397	0	11/06/0717:41	1
M47K006032	CCV3	5.2	254841	0	11/06/0717:43	1
M47K006033	CCB3	-.027	1334	0	11/06/0717:46	1
M47K006034	J345-02	.003	2791	0	11/06/0717:48	1
M47K006035	J549-01	.072	6130	0	11/06/0717:50	1
M47K006036	J385-02	.001	2687	0	11/06/0717:52	1
M47K006037	J955-02	.007	2957	0	11/06/0717:54	1
M47K006038	J955-03	.034	4287	0	11/06/0717:56	1
M47K006039	J955-04	1.62	81095	0	11/06/0717:58	1
M47K006040	K051-03	-.014	1927	0	11/06/0718:00	1
M47K006041	J393-04	-.004	2425	0	11/06/0718:02	1
M47K006042	K017-02	-.013	1996	0	11/06/0718:04	1
M47K006043	K017-03	.026	3868	0	11/06/0718:06	1
M47K006044	CCV4	5.22	255832	0	11/06/0718:08	1
M47K006045	CCB4	.015	3351	0	11/06/0718:10	1
M47K006046	K038-01	-.054	-13	0	11/06/0718:12	1
M47K006047	K033-02	.021	3635	0	11/06/0718:14	1
M47K006048	K047-04	.022	3683	0	11/06/0718:16	1
M47K006049	K047-05	.033	4210	0	11/06/0718:18	1
M47K006050	K047-06	-.004	2447	0	11/06/0718:21	1
M47K006051	K047-07	-.029	1205	0	11/06/0718:23	1
M47K006052	K047-08	-.049	237	0	11/06/071B:25	1
M47K006053	K047-09	-.011	2109	0	11/06/0718:27	1
M47K006054	K410-01	.053	5217	0	11/06/0718:29	1
M47K006055	HGK012WB	-.014	1948	0	11/06/0718:31	1
M47K006056	CCV5	5.16	252873	0	11/06/0718:33	1
M47K006057	CCB5	-.007	2299	0	11/06/0718:35	1
M47K006058	HGK012WL	5.25	257134	0	11/06/0718:37	1
M47K006059	HGK012WC	5.41	264798	0	11/06/0718:39	1
M47K006060	K032-04A	2.12	105201	0	11/06/0718:41	1
M47K006061	K032-04	-.016	1848	0	11/06/0718:43	1
M47K006062	K032-04J	.017	3452	0	11/06/0718:45	5
M47K006063	K032-04M	5.51	269492	0	11/06/0718:47	1
M47K006064	K032-04S	5.51	269658	0	11/06/0718:49	1
M47K006065	K032-05	-.074	-942	0	11/06/0718:51	1
M47K006066	K021-02	-.004	2432	0	11/06/0718:53	1
M47K006067	K021-03	-.047	361	0	11/06/0718:55	1
M47K006068	CCV6	5.34	261677	0	11/06/0718:58	1
M47K006069	CCB6	-.018	1730	0	11/06/0719:00	1
M47K006070	K021-04	-.035	905	0	11/06/0719:02	1
M47K006071	K021-05	-.024	1481	0	11/06/0719:04	1
M47K006072	K021-06	-.025	1397	0	11/06/0719:06	1
M47K006073	K021-08	-.032	1076	0	11/06/0719:08	1
M47K006074	J391-01	.013	3260	0	11/06/0719:10	1

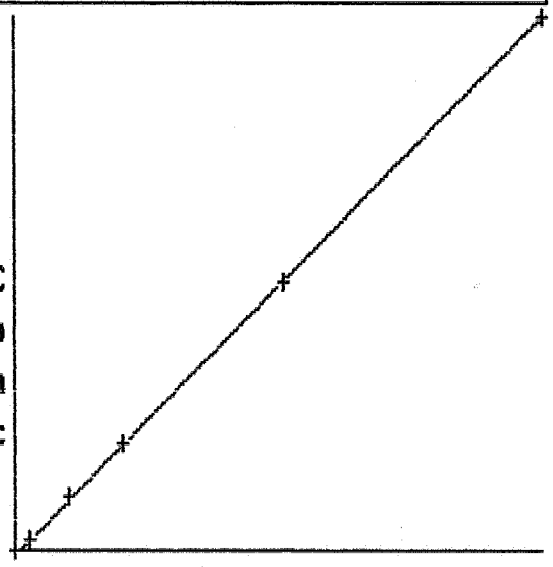
M47K006075	J391-02	-.014	1971	0	11/06/0719:12	1
M47K006076	J391-03	-.012	2045	0	11/06/0719:14	1
M47K006077	J391-05	.014	3290	0	11/06/0719:16	1
M47K006078	J391-06	.026	3885	0	11/06/0719:18	1
M47K006079	J391-07	.022	3688	0	11/06/0719:20	1
M47K006080	CCV7	5.3	259596	0	11/06/0719:22	1
M47K006081	CCB7	-.042	613	0	11/06/0719:24	1
M47K006082	K003-01	.011	3156	0	11/06/0719:26	1
M47K006083	K003-02	-.019	1699	0	11/06/0719:28	1
M47K006084	K003-03	.025	3814	0	11/06/0719:30	1
M47K006085	K003-04	.01	3133	0	11/06/0719:32	1
M47K006086	K003-06	.017	3463	0	11/06/0719:34	1
M47K006087	K003-07	.005	2875	0	11/06/0719:36	1
M47K006088	CCV8	5.25	256904	0	11/06/0719:38	1
M47K006089	CCB8	-.04	681	0	11/06/0719:40	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47K006000	BLANK	-5.443732E-02	2638.44	.9999567	11/06/0719:40	1

RunProt: HGCOM
RunFold: M47K006 Seq: 6 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 16:44:05 06 Nov 2007 Xmit: Off Gas: 0.35 LPM
State: Idle User: MT\TH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear	
S1	.000	-.048	-.048	Quadratic	
S2	.200	.227	.027	Wtdlinear	
S3	1.00	.988	-.012		C
S4	2.00	2.01	.009	Accept	o
S5	5.00	5.05	.050		n
S6	10.0	9.97	-.027		c

A .0000000 r .999957
B 2.06306e-5 C -5.41697e-2



Relative Absorbance

	Mean			
S1	309	0	SD	309
S2	13652	0	%RSD	13652
S3	50519	0	%RSD	50519
S4	100009	0	%RSD	100009
S5	247407	0	%RSD	247407
S6	486043	0	%RSD	486043

New cal coefficients stored

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/13/07 **Start Time:** 15:45

End Date: 11/13/07 **End Time:** 18:04

Comments:

QC OK

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47K013

Method File: Hg

SOP #	Rev. #
☐ EMAX-7470	3
☑ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-727
S3	↓
S4	
S5	
S6	
ICV	SM3B-07-728
CCV	↓
LCS	
Analytical Spike	
	SM3B-07-685

Analyzed By: NT

Date: 11/13/07

"M47K013"

EMAXlfid	EMAXlsid	conc	Raw_resp	rsd/rf	adatetime	DF
M47K013000	STD1REP1	0	348		11/13/0715:45	1
M47K013001	STD2REP1	.2	20906		11/13/0715:47	1
M47K013002	STD3REP1	1	98058		11/13/0715:49	1
M47K013003	STD4REP1	2	191075		11/13/0715:51	1
M47K013004	STD5REP1	5	478717		11/13/0715:53	1
M47K013005	STD6REP1	10	905843		11/13/0715:56	1
M47K013006	ICV	2.03	191660	0	11/13/0716:05	1
M47K013007	ICB	-.039	3282	0	11/13/0716:07	1
M47K013008	CCV1	5.22	481391	0	11/13/0716:09	1
M47K013009	CCB1	-.065	943	0	11/13/0716:11	1
M47K013010	HGK022SB	-.038	3423	0	11/13/0716:13	1
M47K013011	HGK022SL	5.15	475271	0	11/13/0716:15	1
M47K013012	HGK022SC	5.13	472850	0	11/13/0716:17	1
M47K013013	ZZZZ	1.37	130992	0	11/13/0716:19	1
M47K013014	J955-08	-.008	6141	0	11/13/0716:21	1
M47K013015	J955-08J	-.065	900	0	11/13/0716:23	5
M47K013016	J955-08M	5.19	478606	0	11/13/0716:25	1
M47K013017	J955-08S	5.16	476168	0	11/13/0716:27	1
M47K013018	J955-05	-.015	5467	0	11/13/0716:30	1
M47K013019	J955-06	-.045	2724	0	11/13/0716:32	1
M47K013020	CCV2	5.2	479347	0	11/13/0716:34	1
M47K013021	CCB2	-.046	2699	0	11/13/0716:36	1
M47K013022	J955-07	-.017	5270	0	11/13/0716:38	1
M47K013023	J955-09	.056	11901	0	11/13/0716:40	1
M47K013024	J955-10	.173	22608	0	11/13/0716:42	1
M47K013025	J955-11	.089	14943	0	11/13/0716:44	1
M47K013026	J955-12	.096	15589	0	11/13/0716:46	1
M47K013027	J955-13	.035	9986	0	11/13/0716:48	1
M47K013028	J955-14	-.044	2805	0	11/13/0716:50	1
M47K013029	J955-15	-.054	1983	0	11/13/0716:52	1
M47K013030	J955-16	-.04	3217	0	11/13/0716:54	1
M47K013031	J955-17	.061	12360	0	11/13/0716:56	1
M47K013032	CCV3	5.15	474778	0	11/13/0716:58	1
M47K013033	CCB3	-.072	350	0	11/13/0717:00	1
M47K013034	J955-18	.017	8359	0	11/13/0717:02	1
M47K013035	J955-19	.053	11665	0	11/13/0717:04	1
M47K013036	J955-20	-.064	1074	0	11/13/0717:06	1
M47K013037	J955-21	0	6844	0	11/13/0717:08	1
M47K013038	J955-22	-.048	2506	0	11/13/0717:10	1
M47K013039	HGK023SB	-.046	2665	0	11/13/0717:12	1
M47K013040	HGK023SL	5.04	464897	0	11/13/0717:14	1
M47K013041	HGK023SC	5.03	464373	0	11/13/0717:16	1
M47K013042	K058-04A	2.03	191757	0	11/13/0717:18	1
M47K013043	K058-04	.036	10107	0	11/13/0717:21	1
M47K013044	CCV4	5.06	466298	0	11/13/0717:23	1
M47K013045	CCB4	-.051	2259	0	11/13/0717:25	1
M47K013046	K058-04J	-.005	6382	0	11/13/0717:27	5
M47K013047	K058-04M	5.19	478363	0	11/13/0717:29	1
M47K013048	K058-04S	5.32	490204	0	11/13/0717:31	1
M47K013049	K058-05	.095	15511	0	11/13/0717:33	1
M47K013050	K058-06	.01	7777	0	11/13/0717:35	1
M47K013051	K058-16	.035	10058	0	11/13/0717:37	1
M47K013052	K058-17	-.014	5602	0	11/13/0717:40	1
M47K013053	K058-18	.033	9828	0	11/13/0717:42	1
M47K013054	J385-03	-.031	4061	0	11/13/0717:44	1
M47K013055	J385-04	-.025	4613	0	11/13/0717:46	1
M47K013056	CCV5	5.05	465967	0	11/13/0717:48	1
M47K013057	CCB5	-.046	2668	0	11/13/0717:50	1
M47K013058	J385-05	.172	22453	0	11/13/0717:52	1
M47K013059	J385-06	.046	11059	0	11/13/0717:54	1
M47K013060	K411-01	-.106	-2793	0-	11/13/0717:56	1
M47K013061	K417-01	-.028	4319	0	11/13/0717:58	1
M47K013062	J955-08A	1.89	178321	0	11/13/0718:00	1
M47K013063	CCV6	5.05	465687	0	11/13/0718:02	1
M47K013064	CCB6	-.065	904	0	11/13/0718:04	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47K013000	BLANK	-7.771212E-02	7056.466	.9996224	11/13/0718:04	1

RunProt: HGCOM

RunFold: M47K013 Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 16:03:17 13 Nov 2007 Xmit: Off Gas: 0.35 LPM

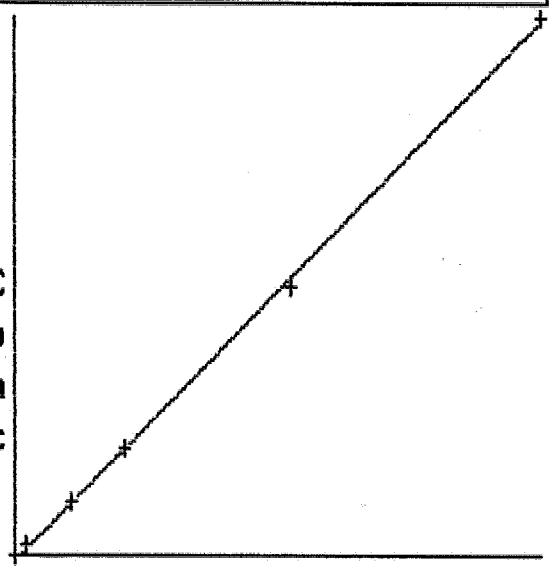
State: Idle User: MTNTH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear	
S1	.000	-.072	-.072	Quadratic	
S2	.200	.155	-.045	Wtdlinear	
S3	1.00	1.00	.004		C
S4	2.00	2.03	.027	Accept	o
S5	5.00	5.19	.193		n
S6	10.0	9.89	-.107		c

A .0000000 r .999622

B 1.10046e-5 C -7.53629e-2



Relative Absorbance

	Mean		SD	
S1	348	0	SD	348
S2	20906	0	%RSD	20906
S3	90058	0	%RSD	90058
S4	191075	0	%RSD	191075
S5	478717	0	%RSD	478717
S6	905843	0	%RSD	905843

New cal coefficients stored

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☑ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Soil | Start Date: 11/13/07 Time: 14:30 | Ending Date: 11/13/07 Time: 15:30 | Book # E47-059

BATCH: HGK0235

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture/Clarity	Matrix Description: Artifacts	Sample Amount (g | ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description: Color	Matrix Description: Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	100	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK0235B				0.600g					
12	5L				0.600					
13	5C				0.600					
14	K058-04	Bn	Fn		0.600					
15	04M				0.602					
16	04S				0.602					
17	05				0.601					
18	06				0.601					
19	16				0.604					
20	17				0.600					
21	18				0.601					
22	J385-03				0.601					
23	04				0.602					
24	05				0.602					
25	06				0.601					
26	K411-01	BK	Td		0.601					
27	K417-01				0.600					
28		NT 11/13/07								

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL	SM3B-07-727	100	0.2,1,2,5,10
ICV	SM3B-07-728		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3 / HCl aqua regia	SW1A-03-601 / SW1A-03-612		
H_2SO_4	N/A		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$	N/A		
$NH_2OH.HCl$	SM5B-02-75		
$SnCl_2$	68		
Temp of Digestion Bath:	95 °C		

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7051

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/6/07 Time: 13:00 Ending Date: 11/6/07 Time: 15:30 Book # E47-058

BATCH: HGK011W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g / ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	75	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK011WB				50					
12	WL									
13	WC									
14	J363-03						<2			
15	03M						<2			
16	03S						<2			
17	J345-02						<2			
18	J549-01	Bn	Td				<2			
19	J385-02	Cr	Cr				<2			
20	J955-02						<2			
21	03						<2			
22	04						<2			
23	K051-03						<2			
24	J393-04						<2			
25	K017-02						<2			
26	03						<2			
27	K038-01						<2			
28	K033-02						<2			

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL	SM3B-07-715	50	0.2,1,2,5,10
ICV	SM3B-07-716		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3	SW1A-03-601		
HCl	N/A		
H_2SO_4	SW1A-03-617		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$		76	
$NH_2OH.HCl$		75	
$SnCl_2$		68	

Temp of Digestion Bath: 95 °C

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7055

DIGESTION LOG FOR MERCURY

EMAX LABORATORIES, INC.

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/6/07 Time: 13:00 Ending Date: 11/6/07 Time: 15:30 Book # E47-058

BATCH: HGK011W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g | ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	K047-04	Cr	Cr	N/A	50	N/A	<2	75	Cr	Cr
02	05						<2			
03	06						<2			
04	07						<2			
05	08						<2			
06	09						<2			
07	K410-01	Yw	Td				10			
08										
09										
10										
11										
12										
13										
14										
15										
16						NT				
17						11/6/07				
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL			
ICV			
CCV/MS			
LCS			
Reagent	Lot# / ID		
HNO_3			
HCl			
H_2SO_4			
$KMnO_4$			
$K_2S_2O_8$			
$NH_2OH.HCl$			
$SnCl_2$			
Temp of Digestion Bath:	°C		
Legend			

SAME AS PAGE 81

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7059

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 314.0
PERCHLORATE

SDG#: 07J385

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J385

METHOD 314.0
PERCHLORATE

One (1) water and four (4) soil samples were received on 10/30/07 for Perchlorate analysis by Method 314.0 in accordance with "Method for Determination of Perchlorate by Ion Chromatography", EPA 600/98-118.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at half of the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control sample results were within QC limits.

4. Duplicate

Sample J385-06 was analyzed for duplicate. %RPD was within QC limit.

5. Matrix Spike

Sample J385-06 was spiked. % Recovery was within QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J385

Matrix : WATER
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCK003WB	ND	1	NA	2.00	0.500	11/06/0714:37	NA	JK06002	JK06001	PCK003W	NA	NA
LCS1W	PCK003WL	22.3	1	NA	2.00	0.500	11/06/0715:19	NA	JK06004	JK06001	PCK003W	NA	NA
LCD1W	PCK003WC	23.1	1	NA	2.00	0.500	11/06/0715:40	NA	JK06005	JK06001	PCK003W	NA	NA
LEB2-102907	J385-02	3.53	1	NA	2.00	0.500	11/06/0717:39	NA	JK06010	JK06001	PCK003W	10/29/0709:05	10/30/07

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J385

Matrix : SOIL
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PCK004SB	ND	1	NA	20.0	10.0	11/07/0712:27	11/06/0713:30	JK06056	JK06055	PCK004S	NA	11/06/07
LCS1S	PCK004SL	220	1	NA	20.0	10.0	11/07/0713:09	11/06/0713:30	JK06058	JK06055	PCK004S	NA	11/06/07
LCD1S	PCK004SC	217	1	NA	20.0	10.0	11/07/0713:30	11/06/0713:30	JK06059	JK06055	PCK004S	NA	11/06/07
SB1-55	J385-05	29.4	1	9.9	22.2	11.1	11/07/0720:24	11/06/0713:30	JK06075	JK06066	PCK004S	10/29/0712:18	10/30/07
SB1-60	J385-06	70.6	1	5.8	21.2	10.6	11/07/0721:27	11/06/0713:30	JK06078	JK06077	PCK004S	10/29/0712:50	10/30/07
SB1-60DUP	J385-06D	75.3	1	5.8	21.2	10.6	11/07/0721:48	11/06/0713:30	JK06079	JK06077	PCK004S	10/29/0712:50	10/30/07
SB1-60MS	J385-06M	167	1	5.8	21.2	10.6	11/07/0722:09	11/06/0713:30	JK06080	JK06077	PCK004S	10/29/0712:50	10/30/07
SB5-55	J385-03	9970	100	8.1	2180	1090	11/08/0709:39	11/06/0713:30	JK06104	JK06094	PCK004S	10/29/0710:15	10/30/07
SB5-60	J385-04	20300	100	8.9	2200	1100	11/08/0710:21	11/06/0713:30	JK06106	JK06105	PCK004S	10/29/0710:20	10/30/07

QC SUMMARY

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	PCK003WB	PCK003WL	PCK003WC		
LAB FILE ID:	JK06002	JK06004	JK06005		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/06/0714:37	11/06/0715:19	11/06/0715:40	DATE RECEIVED:	NA
PREP. BATCH:	PCK003W	PCK003W	PCK003W		
CALIB. REF:	JK06001	JK06001	JK06001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	22.3	89	25.0	23.1	92	4	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: METHOD 314.0

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	PCK004SB	PCK004SL	PCK004SC		
LAB FILE ID:	JK06056	JK06058	JK06059		
DATE EXTRACTED:	11/06/0713:30	11/06/0713:30	11/06/0713:30	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0712:27	11/07/0713:09	11/07/0713:30	DATE RECEIVED:	11/06/07
PREP. BATCH:	PCK004S	PCK004S	PCK004S		
CALIB. REF:	JK06055	JK06055	JK06055		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	250	220	88	250	217	87	1	85-115	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: METHOD 314.0

==========

MATRIX:	SOIL		% MOISTURE:	5.8
DILUTION FACTOR:	1	1		
SAMPLE ID:	SB1-60			
LAB SAMP ID:	J385-06	J385-06M		
LAB FILE ID:	JK06078	JK06080		
DATE EXTRACTED:	11/06/0713:30	11/06/0713:30	DATE COLLECTED:	10/29/07 12:50
DATE ANALYZED:	11/07/0721:27	11/07/0722:09	DATE RECEIVED:	10/30/07
PREP. BATCH:	PCK004S	PCK004S		
CALIB. REF:	JK06077	JK06077		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	QC LIMIT (%)
Perchlorate	70.6	106	167	90	80-120

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J385
METHOD: METHOD 314.0

MATRIX:	SOIL		% MOISTURE:	5.8
DILUTION FACTOR:	1	1		
SAMPLE ID:	SB1-60			
EMAX SAMP ID:	J385-06	J385-06D		
LAB FILE ID:	JK06078	JK06079		
DATE EXTRACTED:	11/06/0713:30	11/06/0713:30	DATE COLLECTED:	10/29/07 12:50
DATE ANALYZED:	11/07/0721:27	11/07/0721:48	DATE RECEIVED:	10/30/07
PREP. BATCH:	PCK004S	PCK004S		
CALIB. REF:	JK06077	JK06077		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	DUPL RSLT (ug/kg)	RPD RSLT %	QC LIMIT (%)
Perchlorate	70.6	75.3	6	20

INITIAL CALIBRATION

IC SEQ FORM (ESD)

LFID	LSID	SELCOMP	METHOD	DateTime	DF
J107001	IB	P	IC57I07	09/07/0712:02	1
J107002	S-0.0	P	IC57I07	09/07/0712:23	1
J107003	S-2.0	P	IC57I07	09/07/0712:44	1
J107004	S-4.0	P	IC57I07	09/07/0713:06	1
J107005	S-10.0	P	IC57I07	09/07/0713:27	1
J107006	S-25.0	P	IC57I07	09/07/0713:48	1
J107007	S-30.0	P	IC57I07	09/07/0714:09	1
J107008	ICV	P	IC57I07	09/07/0714:30	1
J107009	ICB	P	IC57I07	09/07/0715:14	1

pw 9-7-07

8011

Method : c:\ezchrom\methods\ic57i07.met
Printed : Sep 07, 2007 15:50:05
Channel : A
Peak : PERCHLORATE

* - Replicate Not Used

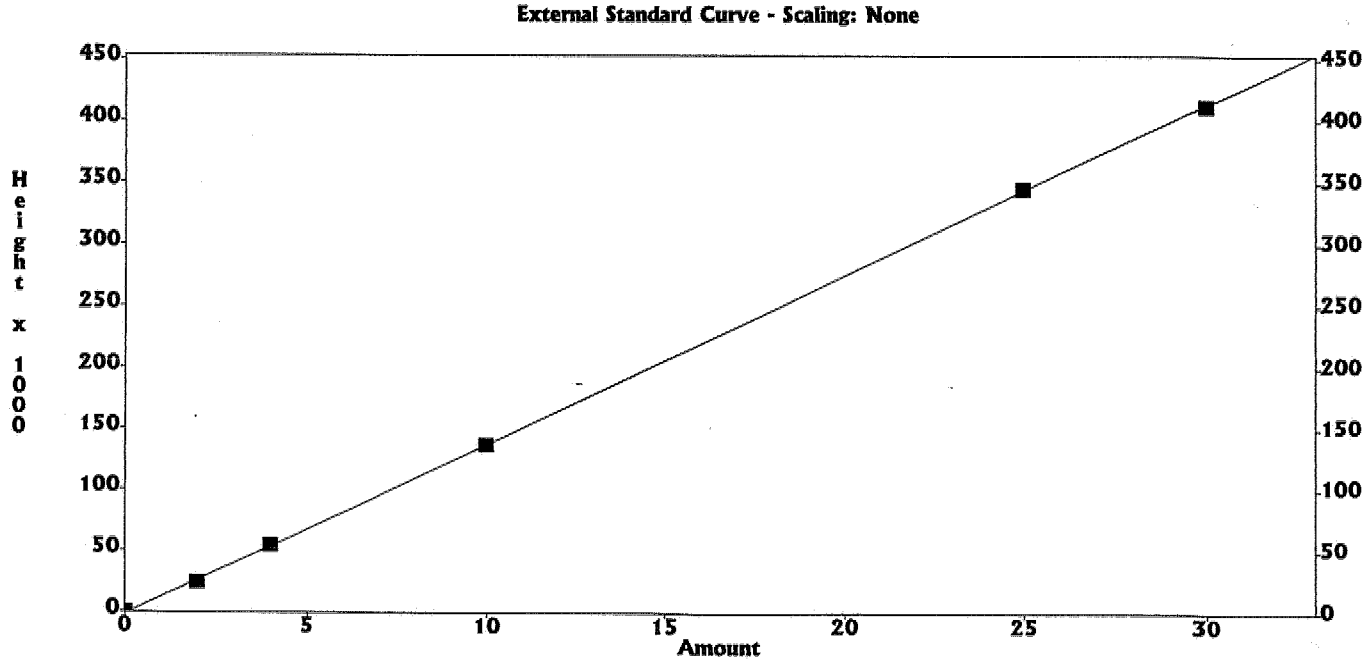
Level	Height	Amount	RF	Rep Hgt 1	Rep Hgt 2	Rep Hgt 3	Rep Hgt 4	Rep Hgt 5	Replic STD	Replic %RSD	Old Height
2	24283	2	12141.50	24283							0
3	54790	4	13697.50	54790							0
4	137022	10	13702.20	137022							0
5	345226	25	13809.04	345226							0
6	412192	30	13739.73	412192							0

Calib Flag: Replace

Average RF: 13418
RF StdDev: 714.977
RF %RSD: 5.328

RF Definition: Height / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 7.22736e-005 x Height + 0.128135
R^2 = 0.999945



RW 9-7-07

8012

SECOND SOURCE

IC RESULT FORM CalVersion: PCHLO314.I07/JI07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JI07001	IB	P	.000	09/07/0712:02	1
JI07002	S-0.0	P	.0000	09/07/0712:23	1
JI07003	S-2.0	P	2	09/07/0712:44	1
JI07004	S-4.0	P	4	09/07/0713:06	1
JI07005	S-10.0	P	10	09/07/0713:27	1
JI07006	S-25.0	P	25	09/07/0713:48	1
JI07007	S-30.0	P	30	09/07/0714:09	1
JI07008	ICV	P	95%	09/07/0714:30	1
JI07009	ICB	P	.000	09/07/0715:14	1

DAILY CALIBRATION

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK06001	IPCS	P	84.5%	11/06/0714:16	1
JK06002	PCK003WB	P	.000	11/06/0714:37	1
JK06003	MRL	P	102%	11/06/0714:58	1
JK06004	PCK003WL	P	22.3	11/06/0715:19	1
JK06005	PCK003WC	P	23.1	11/06/0715:40	1
JK06006	J344-02	P	.000	11/06/0716:15	1
JK06007	J345-02	P	.000	11/06/0716:36	1
JK06008	K042-02	P	.000	11/06/0716:57	1
JK06009	K042-03	P	4.94	11/06/0717:18	1
JK06010	J385-02	P	3.53	11/06/0717:39	1
JK06011	K042-02	P	.000	11/06/0718:00	5
JK06012	CCV49-15	P	92%	11/06/0718:21	1
JK06013	J955-02	P	.000	11/06/0719:26	1
JK06014	J955-03	P	.000	11/06/0719:47	1
JK06015	K033-02	P	.000	11/06/0720:08	1
JK06016	K017-02	P	.000	11/06/0720:29	1
JK06017	K017-03	*	45.3E	11/06/0720:50	1
JK06018	J396-01	P	51.4	11/06/0721:11	5
JK06019	J396-02	P	2.42	11/06/0721:32	1
JK06020	RINSE	P	.000	11/06/0721:53	1
JK06021	J396-02R	P	2.65	11/06/0722:14	1
JK06022	RINSE	P	.000	11/06/0722:35	1
JK06023	CCV50-30	P	88.9%*	11/06/0722:56	1
JK06024	J396-03	P	2.23	11/06/0723:17	1
JK06025	RINSE	P	.000	11/06/0723:38	1
JK06026	J396-03R	P	2.42	11/06/0723:59	1
JK06027	RINSE	P	.000	11/07/0700:20	1
JK06028	J396-01D	P	51	11/07/0700:41	5
JK06029	J396-01M	P	95	11/07/0701:02	5
JK06030	J955-04	*	.000	11/07/0701:23	5
JK06031	K042-03R	P	6.13	11/07/0701:44	1
JK06032	J344-08	*	1990E	11/07/0702:05	50
JK06033	J344-07	*	10400E	11/07/0702:26	200
JK06034	CCV51-15	P	89.8%*	11/07/0702:47	1
JK06035	J344-07D	*	10400E	11/07/0703:08	200
JK06036	J344-07M	*	12100E	11/07/0703:29	200
JK06037	J344-09	*	1090E	11/07/0703:50	20
JK06038	J344-12	*	802E	11/07/0704:11	20
JK06039	J345-06	*	763E	11/07/0704:32	20
JK06040	J345-07	P	486	11/07/0704:53	20
JK06041	J345-08	P	588	11/07/0705:15	20
JK06042	J345-09	P	412	11/07/0705:36	20
JK06043	J345-10	P	409	11/07/0705:57	20
JK06044	J345-15	P	254	11/07/0706:18	20
JK06045	CCV52-30	P	87.6%*	11/07/0706:39	1
JK06046	J345-16	P	69.4	11/07/0707:00	10
JK06047	J345-17	P	255	11/07/0707:21	20
JK06048	J345-18	P	265	11/07/0707:42	20
JK06049	J345-19	P	583	11/07/0708:03	20
JK06050	J345-20	*	766E	11/07/0708:24	20
JK06051	J345-20D	*	768E	11/07/0708:45	20
JK06052	J345-20M	*	965E	11/07/0709:06	20
JK06053	J346-01	*	1510E	11/07/0709:27	50
JK06054	CCV53-15	P	89.8%*	11/07/0709:48	1
JK06055	IPCS	P	84.7%	11/07/0712:06	1
JK06056	PCK004SB	P	.000	11/07/0712:27	1
JK06057	MRL	P	112%	11/07/0712:48	1
JK06058	PCK004SL	P	22	11/07/0713:09	1
JK06059	PCK004SC	P	21.7	11/07/0713:30	1
JK06060	J346-03	P	1.39	11/07/0713:51	1
JK06061	J346-04	P	.000	11/07/0714:12	1
JK06062	J346-05	P	.000	11/07/0714:33	1
JK06063	J346-06	P	.000	11/07/0714:54	1
JK06064	J346-07	P	.000	11/07/0715:15	1
JK06065	RINSE	P	1.22	11/07/0715:36	1
JK06066	CCV54-30	P	86.5%*	11/07/0715:57	1
JK06067	J346-08	P	.000	11/07/0716:18	1
JK06068	J346-09	P	.000	11/07/0716:39	1
JK06069	J346-10	P	.000	11/07/0717:00	1
JK06070	J346-11	P	1.55	11/07/0717:22	1
JK06071	J346-12	*	63.8E	11/07/0717:43	1
JK06072	J346-13	*	.000	11/07/0718:11	1
JK06073	J385-03	*	.000	11/07/0718:47	1
JK06074	J385-04	*	.000	11/07/0719:09	1

JK06075	J385-05	P	2.65	11/07/0720:24	1
JK06076	RINSE	P	.000	11/07/0720:45	1
JK06077	CCV55-15	P	85.8%*	11/07/0721:06	1
JK06078	J385-06	P	6.65	11/07/0721:27	1
JK06079	J385-06D	P	7.09	11/07/0721:48	1
JK06080	J385-06M	P	15.7	11/07/0722:09	1
JK06081	RINSE	P	.000	11/07/0722:30	1
JK06082	CCV56-30	P	87.3%*	11/07/0722:51	1
JK06083	IPCS	P	86.9%	11/07/0723:12	1
JK06084	PCK005WB	P	.000	11/07/0723:33	1
JK06085	MRL	P	108%	11/07/0723:54	1
JK06086	PCK005WL	P	21.9	11/08/0700:15	1
JK06087	PCK005WC	P	22	11/08/0700:36	1
JK06088	K017-03	*	3030E	11/08/0700:57	100
JK06089	J955-04	*	.000	11/08/0701:18	2000
JK06090	J344-08	P	1930	11/08/0701:39	100
JK06091	J344-07	P	10300	11/08/0702:00	500
JK06092	J344-07D	P	10200	11/08/0702:21	500
JK06093	J344-07M	P	14500	11/08/0702:42	500
JK06094	CCV57-15	P	93.8%	11/08/0703:03	1
JK06095	J344-09	P	1090	11/08/0703:24	100
JK06096	J344-12	P	769	11/08/0703:46	50
JK06097	J345-06	P	737	11/08/0704:07	40
JK06098	J345-20	P	762	11/08/0704:28	50
JK06099	J345-20D	P	756	11/08/0704:49	50
JK06100	J345-20M	P	1180	11/08/0705:10	50
JK06101	J346-01	P	1520	11/08/0708:30	100
JK06102	J346-12	P	82.5	11/08/0708:57	10
JK06103	J346-13	P	134	11/08/0709:18	20
JK06104	J385-03	P	916	11/08/0709:39	100
JK06105	CCV58-30	P	85.9%*	11/08/0710:00	1
JK06106	J385-04	P	1850	11/08/0710:21	100
JK06107	CCV59-15	P	86.7%*	11/08/0710:42	1

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * NaOH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JI07

Method File: ICS7107

Analytical Batch: N/A

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8/3-02-987
ICV	-988
CCV	N/A
CCV-15	N/A
CCV-30	N/A
LCS	N/A
MS	N/A
IPC	N/A
CMC	N/A
MRL	N/A

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
N/A	(±) 30	N/A

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: Sd

Date: 9/7/2007

8019

Method: Ic57i07.met Batch: Ji07.seq Data: Ji06.010 - [Batch: ji07.seq]

File Edit Method Batch Options Analysis Control Window Help

Run	Sample ID	Method	Filename	Mult.	Description
1	IB	ic57i07.met	JI07.001	1	
2	S-0.0	ic57i07.met	JI07.002	1	
3	S-2.0	ic57i07.met	JI07.003	1	
4	S-4.0	ic57i07.met	JI07.004	1	
5	S-10.0	ic57i07.met	JI07.005	1	
6	S-25.0	ic57i07.met	JI07.006	1	
7	S-30.0	ic57i07.met	JI07.007	1	
8	ICV	ic57i07.met	JI07.008	1	
9	ICB	ic57i07.met	JI07.009	1	
10	B	ic57i07.met	JI07.010	1	
11	B	ic57i07.met	JI07.011	1	
12	B	ic57i07.met	JI07.012	1	
13	B	ic57i07.met	JI07.013	1	
14	B	ic57i07.met	JI07.014	1	
15	B	ic57i07.met	JI07.015	1	
16	B	ic57i07.met	JI07.016	1	
17	B	ic57i07.met	JI07.017	1	
18	B	ic57i07.met	JI07.018	1	
19	B	ic57i07.met	JI07.019	1	
20	B	ic57i07.met	JI07.020	1	
21	B	ic57i07.met	JI07.021	1	
22	B	ic57i07.met	JI07.022	1	
23	B	ic57i07.met	JI07.023	1	
24	B	ic57i07.met	JI07.024	1	
25	B	ic57i07.met	JI07.025	1	

Instrument 1: T057

Friday, September 07, 2007

12:01 PM

Start | EZChrom Chromatography... | Method: Ic57i07.met | Method: Ic57i05.met - Bat...

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW84-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK06

Method File: IC57I07

Analytical Batch: PCK003W, PCK004~~W~~S & PCK005W
ak 11/06/07

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	↓ 988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1017 ak 11/06/07
LCS	1018
MS	999
IPC	1014
CMC	SW~~8B~~ P1 - 02 - ~~957~~ 1027
MRL	SW8B-02- 1015 ak 11/06/07

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
145.8 µS/cm	(±) 30	25°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: ak

Date: 11/06/07

Method: Ic57i07.met Batch: Jk06.seq Data: Jk02.054 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4820 µS/cm	ic57i07.met	JK06.001	1	
2	PCK003WB *BAH	ic57i07.met	JK06.002	1	
3	MRL	ic57i07.met	JK06.003	1	
4	PCK003WL *BAH	ic57i07.met	JK06.004	1	
5	PCK003WC	ic57i07.met	JK06.005	1	
6	J344-02 3.10 µS/cm	ic57i07.met	JK06.006	1	
7	J345-02 2.80 µS/cm	ic57i07.met	JK06.007	1	
8	K042-02 1158 µS/cm	ic57i07.met	JK06.008	1	Rec; not used.
9	K042-03 518	ic57i07.met	JK06.009	1	Rec.
10	J385-02 al 11/06/07 3.60 µS/cm	ic57i07.met	JK06.010	1	
11	~~RINSE~~ K042-02 DF=5	ic57i07.met	JK06.011	5 1	al 11/06/07
12	CCV49-15	ic57i07.met	JK06.012	1	
13	J955-02 2.05 µS/cm *BAH	ic57i07.met	JK06.013	1	
14	J955-03 2.70 al 11/06/07	ic57i07.met	JK06.014	1	
15	K033-02 3.01 µS/cm	ic57i07.met	JK06.015	1	
16	K017-02 3.35 µS/cm	ic57i07.met	JK06.016	1	
17	K017-03 572	ic57i07.met	JK06.017	1	
18	J396-01 DF=5 358 µS/cm 4 DFI	ic57i07.met	JK06.018	5	
19	J396-02 355 µS/cm	ic57i07.met	JK06.019	1	
20	RINSE	ic57i07.met	JK06.020	1	
21	J396-02R *BAH	ic57i07.met	JK06.021	1	RE-ANALYSIS (FOR CONFIRMATION)
22	RINSE	ic57i07.met	JK06.022	1	
23	CCV50-30	ic57i07.met	JK06.023	1	
24	J396-03 335 µS/cm *BAH	ic57i07.met	JK06.024	1	
25	RINSE	ic57i07.met	JK06.025	1	

Instrument 1: T057 Tuesday, November 06, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | 12:42 PM

89222

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.003 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | STOP | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
49	J345-19 DF=20 *BAH	ic57i07.met	JK06.049	20	
50	J345-20 DF=20	ic57i07.met	JK06.050	20	
51	J345-20D DF=20	ic57i07.met	JK06.051	20	
52	J345-20M DF=20	ic57i07.met	JK06.052	20	
53	J346-01 DF=50	ic57i07.met	JK06.053	50	
54	CCV53-15	ic57i07.met	JK06.054	1	
55	IPCS 4820 µS/cm	ic57i07.met	JK06.055	1	
56	PCK004SB *BAH	ic57i07.met	JK06.056	1	
57	MRL	ic57i07.met	JK06.057	1	
58	PCK004SL *BAH	ic57i07.met	JK06.058	1	
59	PCK004SC	ic57i07.met	JK06.059	1	
60	J346-03	ic57i07.met	JK06.060	1	
61	J346-04	ic57i07.met	JK06.061	1	
62	J346-05	ic57i07.met	JK06.062	1	
63	J346-06	ic57i07.met	JK06.063	1	
64	J346-07	ic57i07.met	JK06.064	1	
65	RINSE	ic57i07.met	JK06.065	1	
66	CCV54-30	ic57i07.met	JK06.066	1	
67	J346-08 *BAH	ic57i07.met	JK06.067	1	
68	J346-09	ic57i07.met	JK06.068	1	
69	J346-10	ic57i07.met	JK06.069	1	
70	J346-11	ic57i07.met	JK06.070	1	
71	J346-12	ic57i07.met	JK06.071	1	
72	J346-13	ic57i07.met	JK06.072	1	
73	J385-03	ic57i07.met	JK06.073	1	

Instrument 1 (T057) – Running MRL (Run 3)...

Tuesday, November 06, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | untitled - Paint | 3:14 PM

8023

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.074 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Reslib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
73	J385-03 *B	AH ic57i07.met	JK06.073	1	
74	J385-04	ic57i07.met	JK06.074	1	
75	J385-05	ic57i07.met	JK06.075	1	
76	RINSE	ic57i07.met	JK06.076	1	
77	CCV55-15	ic57i07.met	JK06.077	1	
78	J385-06 *BAH	ic57i07.met	JK06.078	1	
79	J385-06D	ic57i07.met	JK06.079	1	
80	J385-06M	ic57i07.met	JK06.080	1	
81	RINSE	ic57i07.met	JK06.081	1	
82	CCV56-30	ic57i07.met	JK06.082	1	
83	IPCS 4820 uS/cm	ic57i07.met	JK06.083	1	
84	PCK005WB *BAH	ic57i07.met	JK06.084	1	
85	MRL	ic57i07.met	JK06.085	1	
86	PCK005WL *BAH	ic57i07.met	JK06.086	1	
87	PCK005WC	ic57i07.met	JK06.087	1	
88	K017-03 DF=100	ic57i07.met	JK06.088	100	
89	J955-04 DF=2000	ic57i07.met	JK06.089	2000	
90	J344-08 DF=100	ic57i07.met	JK06.090	100	
91	J344-07 DF=500	ic57i07.met	JK06.091	500	
92	J344-07D DF=500	ic57i07.met	JK06.092	500	
93	J344-07M DF=500	ic57i07.met	JK06.093	500	
94	CCV57-15	ic57i07.met	JK06.094	1	
95	J344-09 DF=100	*BAH ic57i07.met	JK06.095	100	
96	J344-12 DF=50	ic57i07.met	JK06.096	50	
97	J345-06 DF=40	ic57i07.met	JK06.097	40	

Instrument 1: T057

Wednesday, November 07, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method Development | 7:57 PM

80211

Method: Ic57i07.met Batch: Jk06.seq Data: Jk06.074 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
97	J345-06 DF=40 *	ic57i07.met	JK06.097	40	
98	J345-20 DF=50	ic57i07.met	JK06.098	50	
99	J345-20D DF=50	ic57i07.met	JK06.099	~~100~~	ed 11/07/07
100	J345-20M DF=50	ic57i07.met	JK06.100	~~10~~	
101	J346-01 DF=100	ic57i07.met	JK06.100	20	
102	J346-12 DF=10	ic57i07.met	JK06.100	100	
103	J346-13 DF=20	ic57i07.met	JK06.100	100	
104	J385-03 DF=100	ic57i07.met	JK06.100	1	
105	CCV58-30	ic57i07.met	JK06.100	1	
106	J385-04 DF=100	ic57i07.met	JK06.100	1	
107	CCV59-15	ic57i07.met	JK06.100	1	
108	B	ic57i07.met	JK06.100	1	
109	B	ic57i07.met	JK06.100	1	
110	B	ic57i07.met	JK06.100	1	
111	B	ic57i07.met	JK06.100	1	
112	B	ic57i07.met	JK06.100	1	
113	B	ic57i07.met	JK06.100	1	
114	B	ic57i07.met	JK06.100	1	
115	B	ic57i07.met	JK06.100	1	
116	B	ic57i07.met	JK06.100	1	
117					
118					
119					
120					

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method Development | untitled - Paint | Wednesday, November 07, 2007 | 7:57 PM

0025

EXTRACTION LOG

SAMPLE PREPARATION LOG FOR ORGANIC ACID/PERCHLORATE

SOP ☑ EMAX-314.0 ☐ EMAX-300.0M Book # E0P-002

Matrix Soil Start Date 11/06/07 Time 13:30 End Date 11/06/07 Time 15:00

PREPARATION BATCH # PCK0045

Sample Prep ID	Lab Sample ID	Sample Amount (g)	Dilution Volume (ml)	Extract Volume (ml)	Notes
*01	PCK0045B	10.000g	100mL	100mL	
*02	L				
*03	C				
*04	075346-03				
*05	-04				
*06	-05				
*07	-06				
*08	-07				
*09	-08				
*10	-09				
*11	-10				
*12	-11				
*13	-12				
*14	-13				
*15	075385-03				
*16	-04				
*17	-05				
*18	-06				
*19	-06D				
*20	-06M				
*21					
*22					
*23					
*24					
*25					

MDA 11/06/07

Standards	ID	Amount Added (ml)
Acetate		
Butyrate		
Lactate		
Propionate		
Pyruvate		
Perchlorate LCS/MS	SW8B-02-999	2.5mL/1.0mL

Reagent	Lot # / ID
H_2SO_4	
Nanopure	

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Br = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Og = Orange Rd = Red	Fn = Fine	Td = turbid	Vg= Vegetation
Yw = Yellow			

Comments:

Prepared By: MBA / cl

Standard Added By: cl

Checked By:

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

8027

TABLE OF CONTENTS

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07J955**

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GC-SVOA	**	5000 –
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** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax:(310) 618-0818

Date: 11-26-2007
EMAX Batch No.: 07J955

Attn: Michael Wilson

Tetra Tech, Inc.
348 W Hospitality Lane, Ste 100
San Bernardino CA 92408

Subject: Laboratory Report
Project: LMC Beaumont Site 2

Enclosed is the Laboratory report for samples received on 10/31/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
LTB-103007	J955-01	10/30/07	WATER	VOLATILE ORGANICS BY GC/MS
LEB1-103007	J955-02	10/30/07	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
LEB2-103007	J955-03	10/30/07	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB5-58'	J955-04	10/30/07	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB2-15'	J955-05	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-15'DUP	J955-06	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
				METALS CAM
				MERCURY
SB2-20'	J955-07	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-30'	J955-08	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-35'	J955-09	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-40'	J955-10	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-45'	J955-11	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-50'	J955-12	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-55	J955-13	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-60'	J955-14	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-65'	J955-15	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-70'	J955-16	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM

Sample ID	Control #	Col Date	Matrix	Analysis
				MERCURY
SB4-55'	J955-17	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-60'	J955-18	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-60'DUP	J955-19	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-65'	J955-20	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB4-70'	J955-21	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB1-70'	J955-22	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-30'MS	J955-08M	10/30/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-30'MSD	J955-08S	10/30/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB2-30'DUP	J955-08D	10/30/07	SOIL	PERCHLORATE BY IC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Acting Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

07J955

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

TT-0610-

SHIP TO: Emax
1835 W. 205th St.
Torrance CA
90501
310-618-8889

DATE 10-30-07 PAGE 1 OF ~~2~~ 3

CLIENT: Tetra Tech
PROJECT NAME: EMC Beaumont Site 2
PROJECT MANAGER: David Bertolacci
TC #: 19892-03
SAMPLERS (Signatures): L. Margulis

TURN-AROUND TIME: 10-Day Rush

OBSERVATIONS/COMMENTS: Please E-mail prelims to David Bertolacci@Tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs & Oxygenates (SW 8260B)	Perchlorate (314.0)	Cam 17 (6000/7000 Series)											FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	LTB-103007	10-30-07	700	X													un	W	G	2	HCl	
2.	LEB1-103007		745	X	X	X											un	W	G/P	5	See bottle	Bailer
3.	LEB2-103007		805	X	X	X											un	W	G/P	5		Splitspoon
4.	SB5-58'		800	X	X	X										cm	N/A	W	G/P	5		
5.	SB2-15'		925	X	X	X											N/A	S	G	4		
6.	SB2-15' Dup		930	X	X	X														4		
7.	SB2-20'		936	X	X	X														4		
8.	SB2-30'		1020	X	X	X														12		Includes MS/MSD
9.	SB2-35'		1025	X	X	X														4		
10.	SB2-40'		1045	X	X	X														4		

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
L Margullis	Linda Margulis	TETRA TECH, INC.	10-30-07	1902	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 49
RECEIVED BY: Bolden Eckford	SIGNATURE: Bolden Eckford	COMPANY: Top Line / EMAX	DATE: 10/31/07	TIME: 1155	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: Bolden Eckford	SIGNATURE: Bolden Eckford	COMPANY: Top Line	DATE: 10/31/07	TIME: 1:40	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Gard Di Puglio	SIGNATURE: Gard Di Puglio	COMPANY: EMAX	DATE: 10/31/07	TIME: 1340	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

T. 2.4°C

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1003

07J955

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: Emax
1835 W. 205th St.
Torrance CA
90501
310-618-8889

DATE 10-30-07 PAGE 2 OF 3 LM

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: David Bertolacci
TC #: 19892-03
SAMPLERS (Signatures): L. Margulis

TURN-AROUND TIME: 10 Day Rush

OBSERVATIONS/COMMENTS: Please Email Prelims to David.Bertolacci@tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOC's & oxygenates (SW8260B)	Perchlorate (314.0)	Cam 17 (6000/7000 Series)	LM	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
1.	SB2-45'	10-30-07	1050	X	X	X		N/A	S	G	4	see bottle
2.	SB2-50'		1110	X	X	X						
3.	SB2-55'		1140	X	X	X						
4.	SB2-60'		1240	X	X	X						
5.	SB2-65'		1303	X	X	X						
6.	SB2-70'		1316	X	X	X						
7.												
8.												
9.												
10.												

L. Margulis 10-30-07

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
L. Margullis	Linda Margulis	TETRA TECH, INC.	10-30-07	1902	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 24
RECEIVED BY	**SIGNATURE**	**COMPANY**	**DATE**	**TIME**	
Bolden Eckford	Bolden Eckford	Topline/EMAX	10/31/07	1155	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY	**SIGNATURE**	**COMPANY**	**DATE**	**TIME**	
Bolden Eckford	Bolden Eckford	Topline	10/31/07	1:40	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	**SIGNATURE**	**COMPANY**	**DATE**	**TIME**	
Carol DiPuglia	Carol DiPuglia	EMAX	10/31/07	13/40	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

T. 2.4°C

1001

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CHAIN OF CUSTODY RECORD

07J955

DATE 10-30-07 PAGE 3 OF 3

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: EMax
1835 W. 205th St.
Torrance CA
90501
310-618-8889

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: David Bertolacci
TC #: 19892-03
SAMPLERS (Signatures): L. Margulis

TURN-AROUND TIME: 10-Day Rush

OBSERVATIONS/COMMENTS: Please Email Prelims to David.Bertolacci@Tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs & oxygenates (SW8260B)	Perchlorate (314.0)	CAM 17 (6000/7000 Series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
17	SB4-55'	10-30-07	1610	X	X	X	N/A	S	G	4	see bottle
18	SB4-60'		1620	X	X	X					
19	SB4-60' Dup		1625	X	X	X					
20	SB4-65'		1627	X	X	X					
21	SB4-70'		1636	X	X	X					
22	SB1-70'		1723	X	X	X					
7.											
8.					L Margulis		10-30-07				
9.											
10.											

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 24
L. Margullis	Linda Margulis	TETRA TECH, INC.	10-30-07	1902	
RECEIVED BY: Golden Echford	SIGNATURE: Golden Echford	COMPANY: Top Line/EMAX	DATE: 10/31/07	TIME: 1155	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: Golden Echford	SIGNATURE: Golden Echford	COMPANY: Top Line	DATE: 10/31/07	TIME: 1340	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: CAROL J. PUGLIA	SIGNATURE: Carol J. Puglia	COMPANY: EMAX	DATE: 10/31/07	TIME: 1340	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

T. 24°C

1005

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EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 07J955
☐ Client Delivery		Recepient J-LUNA
☑ Third Party TOP LINE		Date 10-31-07
		Time 1340

COC Inspection

☑ Client Name ☑ Client PM/FC ☑ Sampler Name ☑ Sampling Date/Time/Location ☑ Sample ID ☑ Matrix
☑ Address ☑ Tel # / Fax # ☑ Courier Signature ☑ Analysis Required ☑ Preservative (if any) ☑ TAT

Safety Issues
☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures	☑ Cooler 1 2.4 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/~~COC ID~~	Discrepancy Code	Corrective Action Code
02		LEB1-102907,	B3	R2
		0900, 10/29/07	D3	R2
03-10		10/30/07	D1	R5
12-16		10/30/07	D1	R5

REVIEWS

Sample Labeling _____ Date 10/31/07

SRF _____ Date 10/31/07

PM _____ Date 10/31/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-a-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	Collection dates - 10/30/07
B3	Sample ID is inconsistent in COC vis-a-vis label	G2	Out of Holding Time	R6	
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1			
C3	Leaking container	H2			
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-a-vis label				

Pick-up + Delivery: 310-235-2190
Fax: 310-235-2197
New Accounts: 310-235-2190

top line courier

Date	10-31-07
Ref. No.	
Invoice No.	30085
Order No. 1	
Order No. 2	

Ref. No: G260200682

DUPLITEXT PRINTING & GRAPHICS (310) 559-9944

Serving Southern California

CHARGE TO:	ADDRESS:	ACCOUNT NO.

PICK-UP FROM: Tetra Tech	DELIVER TO NO. 1: EMAX LAB.
ADDRESS: 348 Hospitality Lane	ADDRESS: 1835 205th Street
CITY: San Bernardino, CA	CITY: Torrance, CA 90501
SENDER'S NAME: EXT. NO./DEPT.	RECEIVER'S NAME: TEL. NO. /DEPT.
	DELIVER TO NO. 2: 10/31/07
	ADDRESS:
	CITY: ZIP:
	RECEIVER'S NAME: TEL. NO. /DEPT.

30 MIN.: (30 MIN.)	☐	SUPER RUSH: (1 HOUR)	☐	RUSH (2 HOURS)	☐	REGULAR: (4 HOURS)	☐
RETURN:	☐	WAIT TIME:	☐	NEXT DAY:	☐ 8:30 ☐ 10:00 ☐ 12:00		
FILING:	☐	DEPT.:	☐	WINDOW:	☐		
DRIVER #		SERVING:	☐	RECORDING:	☐	BANK DEPOSIT:	☐

NO. PKG.	DESCRIPTION AND SPECIAL INSTRUCTIONS
1	Large Cooler 50 LBS

SIGNATURE ON RETURN X	EARO	DEL. TIME	print name
SIGNATURE ON DELIVERY X	David J. Puglia	DEL. TIME 1:43 pm	print name 10/31/

RELEASE SIGNATURE: *Sign to authorize delivery without obtaining signature*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

1007

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS
(WATER)

SDG#: 07J955

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J955

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Four (4) water samples were received on 10/31/07 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd edition.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J955
Instrument ID : T-006

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V006K18Q	1	NA	11/07/0702:29	11/07/0702:29	RKW195	RIW506	V006K18	Method Blank
LCS1W	V006K18L	1	NA	11/07/0700:33	11/07/0700:33	RKW192	RIW506	V006K18	Lab Control Sample (LCS)
LCD1W	V006K18C	1	NA	11/07/0701:12	11/07/0701:12	RKW193	RIW506	V006K18	LCS Duplicate
LTB-103007	J955-01	1	NA	11/07/0706:23	11/07/0706:23	RKW201	RIW506	V006K18	Field Sample
LEB1-103007	J955-02	1	NA	11/07/0707:02	11/07/0707:02	RKW202	RIW506	V006K18	Field Sample
LEB2-103007	J955-03	1	NA	11/07/0707:40	11/07/0707:40	RKW203	RIW506	V006K18	Field Sample
SB5-58'	J955-04	1	NA	11/07/0708:19	11/07/0708:19	RKW204	RIW506	V006K18	Field Sample
MBLK2W	V006K20Q	1	NA	11/08/0700:28	11/08/0700:28	RKW229	RIW506	V006K20	Method Blank
LCS2W	V006K20L	1	NA	11/07/0721:14	11/07/0721:14	RKW224	RIW506	V006K20	Lab Control Sample (LCS)
LCD2W	V006K20C	1	NA	11/07/0721:53	11/07/0721:53	RKW225	RIW506	V006K20	LCS Duplicate
SB5-58'DL	J955-04T	10	NA	11/08/0701:08	11/08/0701:08	RKW230	RIW506	V006K20	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

2003

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 06:23
Sample ID:	LTB-103007	Date Analyzed:	11/07/07 06:23
Lab Samp ID:	J955-01	Dilution Factor:	1
Lab File ID:	RKW201	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	87	70-140
4-BROMOFLUOROBENZENE	101	70-130
TOLUENE-D8	98	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 07:02
Sample ID:	LEB1-103007	Date Analyzed:	11/07/07 07:02
Lab Samp ID:	J955-02	Dilution Factor:	1
Lab File ID:	RKW202	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	87	70-140
4-BROMOFLUOROBENZENE	99	70-130
TOLUENE-D8	100	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 07:40
Sample ID:	LEB2-103007	Date Analyzed:	11/07/07 07:40
Lab Samp ID:	J955-03	Dilution Factor:	1
Lab File ID:	RKW203	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	87	70-140
4-BROMOFLUOROBENZENE	100	70-130
TOLUENE-D8	97	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 08:19
Sample ID:	SB5-58'	Date Analyzed:	11/07/07 08:19
Lab Samp ID:	J955-04	Dilution Factor:	1
Lab File ID:	RKW204	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	0.87J	1.0	0.20
1,1-DICHLOROETHANE	0.83J	1.0	0.20
1,1-DICHLOROETHENE	2.6	1.0	0.20
1,2-DICHLOROETHANE	0.63J	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	12	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	3.8	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	100E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	87	70-140
4-BROMOFLUOROBENZENE	99	70-130
TOLUENE-D8	99	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/08/07 01:08
Sample ID:	SB5-58'DL	Date Analyzed:	11/08/07 01:08
Lab Samp ID:	J955-04T	Dilution Factor:	10
Lab File ID:	RKW230	Matrix :	WATER
Ext Btch ID:	V006K20	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	3.4J	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
1,2-DICHLOROPROPANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
ACETONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	4.7J	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	10	2.0
CIS-1,3-DICHLOROPROPENE	ND	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
MTBE	ND	10	2.0
METHYLENE CHLORIDE	ND	10	5.0
O-XYLENE	ND	10	2.0
STYRENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	ND	10	2.0
TRANS-1,3-DICHLOROPROPENE	ND	10	2.0
TRICHLOROETHENE	150	10	2.0
VINYL CHLORIDE	ND	10	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	84	70-140
4-BROMOFLUOROBENZENE	98	70-130
TOLUENE-D8	97	70-140

QC SUMMARIES

2009

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/07/07
Batch No.	: 07J955	Date Extracted:	11/07/07 02:29
Sample ID:	MBLK1W	Date Analyzed:	11/07/07 02:29
Lab Samp ID:	V006K18Q	Dilution Factor:	1
Lab File ID:	RKW195	Matrix :	WATER
Ext Btch ID:	V006K18	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	86	70-140
4-BROMOFLUOROBENZENE	96	70-130
TOLUENE-D8	96	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V006K18Q	V006K18L	V006K18C		
LAB FILE ID:	RKW195	RKW192	RKW193		
DATE EXTRACTED:	11/07/0702:29	11/07/0700:33	11/07/0701:12	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0702:29	11/07/0700:33	11/07/0701:12	DATE RECEIVED:	11/07/07
PREP. BATCH:	V006K18	V006K18	V006K18		
CALIB. REF:	RIW506	RIW506	RIW506		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	8.07	81	10.0	7.77	78	4	60-130	30
Benzene	ND	10.0	10.3	103	10.0	9.75	98	5	70-130	30
Chlorobenzene	ND	10.0	10.8	108	10.0	10.4	104	4	70-120	30
Toluene	ND	10.0	10.3	103	10.0	9.76	98	5	70-130	30
Trichloroethene	ND	10.0	10.5	105	10.0	9.76	98	8	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	7.98	80	10.0	7.64	76	70-140
4-Bromofluorobenzene	10.0	9.31	93	10.0	9.15	91	70-130
Toluene-d8	10.0	9.98	100	10.0	10.1	101	70-130

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/08/07
Batch No.	: 07J955	Date Extracted:	11/08/07 00:28
Sample ID:	MBLK2W	Date Analyzed:	11/08/07 00:28
Lab Samp ID:	V006K20Q	Dilution Factor:	1
Lab File ID:	RKW229	Matrix :	WATER
Ext Btch ID:	V006K20	% Moisture :	NA
Calib. Ref.:	RIW506	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	90	70-140
4-BROMOFLUOROBENZENE	93	70-130
TOLUENE-D8	95	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	V006K20Q	V006K20L	V006K20C		
LAB FILE ID:	RKW229	RKW224	RKW225		
DATE EXTRACTED:	11/08/0700:28	11/07/0721:14	11/07/0721:53	DATE COLLECTED:	NA
DATE ANALYZED:	11/08/0700:28	11/07/0721:14	11/07/0721:53	DATE RECEIVED:	11/07/07
PREP. BATCH:	V006K20	V006K20	V006K20		
CALIB. REF:	RIW506	RIW506	RIW506		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	8.27	83	10.0	8.88	89	7	60-130	30
Benzene	ND	10.0	9.89	99	10.0	10.9	109	9	70-130	30
Chlorobenzene	ND	10.0	10.8	108	10.0	11.6	116	7	70-120	30
Toluene	ND	10.0	10.1	101	10.0	11.0	110	9	70-130	30
Trichloroethene	ND	10.0	10.4	104	10.0	11.1	111	7	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	7.95	80	10.0	7.97	80	70-140
4-Bromofluorobenzene	10.0	9.24	92	10.0	8.77	88	70-130
Toluene-d8	10.0	9.58	96	10.0	9.87	99	70-130

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RIW500
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J955
BFB Injection Date : 09/25/07
BFB Injection Time : 17:52
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.89
75	30.0 - 60.0% of mass 95	58.57
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.70
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	79.27
175	5.0 - 9.0% of mass 174	4.91(6.2)1
176	95.0 - 101.0% of mass 174	75.35(95.1)1
177	5.0 - 9.0% of mass 176	5.91(7.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V006I261	RIW501	09/25/07	18:30
2	VSTD0.5	V006I262	RIW502	09/25/07	19:08
3	VSTD01	V006I263	RIW503	09/25/07	19:46
4	VSTD02	V006I264	RIW504	09/25/07	20:24
5	VSTD05	V006I265	RIW505	09/25/07	21:02
6	VSTD010	V006I266	RIW506	09/25/07	21:39
7	VSTD020	V006I267	RIW507	09/25/07	22:17
8	VSTD030	V006I268	RIW508	09/25/07	22:57
9	VSTD040	V006I269	RIW509	09/25/07	23:34
10	VSTD050	V006I2610	RIW510	09/26/07	00:13
11	VSTD010	IV006I261	RIW513	09/26/07	02:08

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T006
Beginning DateTime :09/25/07 18:30
Spike Units :PPB
IC File :RIW506

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :09/26/07 00:13
HPChem Method :V006I26

M	IDX	Parameters	.3 18:30 RIW501	.5 19:08 RIW502	1 19:46 RIW503	2 20:24 RIW504	5 21:02 RIW505	10 21:39 RIW506	20 22:17 RIW507	30 22:57 RIW508	40 23:34 RIW509	50 00:13 RIW510	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	11.1969
	2	Dichlorodifluoromethane	0.225	0.266	0.319	0.291	0.280	0.279	0.289	0.283	0.284	0.262	0.278	8.71	3.5084
	3	Chloromethane	0.428	0.350	0.382	0.361	0.348	0.344	0.361	0.370	0.382	0.354	0.368	6.75	3.9417
	4	Vinyl chloride	0.268	0.275	0.334	0.315	0.311	0.305	0.299	0.283	0.280	0.250	0.292	8.63	4.1646
	5	Bromomethane	------	0.229	0.242	0.205	0.196	0.205	0.216	0.221	0.229	0.214	0.217	6.61	4.9656
	6	Chloroethane	0.176	0.169	0.199	0.201	0.194	0.200	0.198	0.199	0.200	0.186	0.192	5.92	5.0994
	7	Dichlorofluoromethane	0.807	0.796	0.828	0.807	0.791	0.766	0.759	0.762	0.770	0.687	0.777	5.04	5.1529
	8	Trichlorofluoromethane	0.426	0.478	0.571	0.535	0.508	0.493	0.521	0.514	0.520	0.476	0.504	7.74	5.5437
2	9	Acrolein	------	------	0.023	0.018	0.020	0.023	0.024	0.026	0.025	0.023	0.023	11.68	6.1919
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.216	0.244	0.270	0.253	0.262	0.257	0.265	0.276	0.278	0.251	0.257	7.06	6.2343
2	11	Acetone	------	------	0.109	0.084	0.076	0.074	0.069	0.072	0.066	0.062	0.077	19.38	6.2822
	12	1,1-Dichloroethene	0.725	0.711	0.767	0.720	0.715	0.698	0.700	0.723	0.711	0.630	0.710	4.79	6.5269
5	13	tert-Butyl alcohol	------	0.019	0.019	0.019	0.020	0.021	0.021	0.022	0.021	0.019	0.020	4.59	6.5783
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	0.314	0.255	0.339	0.371	0.391	0.402	0.409	0.411	0.401	0.348	0.364	13.92	7.0319
	17	Methylene chloride	------	1.766	1.163	0.851	0.691	0.598	0.538	0.557	0.551	0.501	0.802	52.15	7.2325
	18	Carbon disulfide	1.197	1.234	1.316	1.205	1.262	1.224	1.246	1.279	1.284	1.142	1.239	4.07	7.3532
3	19	Acrylonitrile	------	------	0.052	0.049	0.055	0.058	0.059	0.062	0.060	0.055	0.056	7.62	7.3781
	20	tert-Butyl methyl ether (MTBE)	0.581	0.596	0.609	0.576	0.624	0.596	0.602	0.618	0.602	0.551	0.595	3.59	7.4345
	21	trans-1,2-Dichloroethene	0.629	0.625	0.682	0.650	0.669	0.637	0.653	0.661	0.657	0.592	0.645	3.99	7.6853
	22	Isopropyl ether (DIPE)	1.313	1.371	1.400	1.328	1.399	1.352	1.371	1.406	1.388	1.257	1.359	3.49	8.0637
	23	Vinyl acetate	0.495	0.467	0.453	0.446	0.503	0.485	0.549	0.573	0.557	0.522	0.505	8.78	8.2159
	24	1,1-Dichloroethane	0.711	0.706	0.827	0.763	0.788	0.733	0.758	0.763	0.775	0.694	0.752	5.48	8.2902
	25	tert-Butyl ethyl ether (ETBE)	0.908	0.900	0.981	0.907	0.973	0.918	0.927	0.921	0.914	0.832	0.918	4.47	8.6435
2	26	2-Butanone	0.107	0.093	0.087	0.092	0.081	0.091	0.090	0.094	0.089	0.086	0.091	7.30	8.8394
	27	2,2-Dichloropropane	0.628	0.563	0.583	0.575	0.566	0.521	0.515	0.512	0.494	0.432	0.539	10.25	9.1121
	28	cis-1,2-Dichloroethene	0.641	0.694	0.715	0.700	0.696	0.661	0.661	0.676	0.670	0.599	0.671	5.04	9.1745
	29	Chloroform	0.658	0.661	0.730	0.709	0.713	0.679	0.677	0.684	0.687	0.618	0.682	4.68	9.4241
	30	Bromochloromethane	0.274	0.302	0.333	0.289	0.323	0.300	0.307	0.319	0.316	0.291	0.305	5.83	9.7003
	31	1,1,1-Trichloroethane	0.557	0.565	0.631	0.622	0.640	0.597	0.602	0.617	0.623	0.557	0.601	5.21	10.0884
	32	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	tert-Amyl methyl ether (TAME)	0.566	0.817	0.794	0.721	0.659	0.628	0.649	0.640	0.647	0.590	0.671	12.20	10.4496
	34	1,2-Dichloroethane-d4	------	------	0.352	0.337	0.358	0.335	0.357	0.347	------	------	0.348	2.84	10.5840
	35	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	17.4192
	36	1,1-Dichloropropene	0.207	0.198	0.217	0.215	0.211	0.197	0.200	0.207	0.208	0.190	0.205	4.23	10.3405
	37	Carbon tetrachloride	0.517	0.550	0.575	0.574	0.556	0.535	0.538	0.548	0.546	0.504	0.544	4.09	10.5505
	38	1,2-Dichloroethane	0.477	0.496	0.536	0.503	0.537	0.510	0.499	0.504	0.496	0.458	0.502	4.73	10.7490
	39	Benzene	1.545	1.491	1.579	1.556	1.535	1.470	1.489	1.530	1.518	1.375	1.509	3.82	10.8310
	40	Trichloroethene	0.398	0.394	0.454	0.448	0.434	0.418	0.424	0.441	0.440	0.401	0.425	5.10	11.8803
	41	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	42	1,2-Dichloropropane	0.364	0.405	0.416	0.395	0.397	0.384	0.388	0.394	0.387	0.359	0.389	4.42	12.1811
	43	Bromodichloromethane	0.469	0.468	0.496	0.467	0.498	0.487	0.499	0.504	0.498	0.468	0.485	3.22	12.6302
	44	Dibromomethane	0.133	0.170	0.166	0.149	0.171	0.161	0.159	0.162	0.158	0.148	0.158	7.37	12.7631
	45	2-Chloroethyl vinyl ether	------	------	0.035	0.042	0.049	0.054	0.059	0.060	0.060	0.056	0.052	17.83	13.0515
2	46	4-Methyl-2-pentanone	------	------	0.305	0.253	0.240	0.262	0.253	0.259	0.249	0.238	0.257	8.12	13.1165

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	47	cis-1,3-Dichloropropene	0.390	0.423	0.481	0.481	0.507	0.482	0.488	0.499	0.493	0.467	0.471	7.75	13.6135
	48	Toluene-d8	------	------	1.303	1.303	1.235	1.184	1.280	1.225	------	------	1.255	3.84	14.1585
	49	Toluene	1.558	1.569	1.612	1.604	1.560	1.458	1.459	1.476	1.477	1.335	1.511	5.65	14.3238
	50	Ethyl methacrylate	0.246	0.226	0.262	0.243	0.276	0.281	0.288	0.305	0.299	0.288	0.272	9.67	14.4684
	51	trans-1,3-Dichloropropene	0.288	0.289	0.356	0.327	0.365	0.367	0.387	0.390	0.392	0.372	0.353	11.08	14.5927
2	52	2-Hexanone	------	------	0.110	0.115	0.125	0.141	0.143	0.148	0.145	0.142	0.134	11.03	14.8759
	53	1,1,2-Trichloroethane	0.211	0.197	0.199	0.205	0.211	0.205	0.202	0.212	0.210	0.196	0.205	2.94	14.9571
	54	1,3-Dichloropropane	0.366	0.374	0.391	0.379	0.402	0.392	0.385	0.385	0.384	0.359	0.382	3.35	15.4810
	55	Tetrachloroethene	0.326	0.334	0.362	0.379	0.378	0.355	0.360	0.368	0.370	0.334	0.357	5.33	15.7187
	56	Dibromochloromethane	0.188	0.211	0.221	0.227	0.265	0.274	0.277	0.283	0.282	0.276	0.250	14.02	16.1447
	57	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	58	1,2-Dibromoethane	0.163	0.171	0.178	0.164	0.163	0.147	0.145	0.138	0.138	0.129	0.154	10.56	16.6000
	59	1-Chlorohexane	0.575	0.544	0.562	0.579	0.609	0.570	0.585	0.584	0.603	0.551	0.576	3.58	16.7977
	60	Chlorobenzene	0.833	0.904	0.991	0.959	0.964	0.930	0.939	0.954	0.943	0.868	0.929	5.13	17.5109
	61	1,1,1,2-Tetrachloroethane	0.276	0.302	0.330	0.307	0.337	0.320	0.334	0.332	0.334	0.311	0.318	6.10	17.5658
	62	Ethylbenzene	1.682	1.724	1.854	1.805	1.809	1.702	1.731	1.719	1.712	1.534	1.727	5.07	17.5754
2	63	m-Xylene & p-Xylene	1.380	1.322	1.442	1.393	1.404	1.309	1.305	1.307	1.262	1.100	1.322	7.26	17.7428
	64	o-Xylene	1.387	1.379	1.407	1.398	1.424	1.357	1.366	1.384	1.361	1.236	1.370	3.76	18.7607
	65	Styrene	0.783	0.801	0.902	0.922	0.972	0.941	0.965	0.998	0.984	0.907	0.917	8.01	18.8302
	66	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	23.9581
	67	Isopropylbenzene	4.208	4.170	4.458	4.515	4.337	4.028	4.011	4.147	4.158	3.706	4.174	5.60	19.5603
	68	Bromoform	------	0.246	0.280	0.240	0.314	0.324	0.332	0.355	0.359	0.342	0.310	14.44	19.6899
	69	1,1,2,2-Tetrachloroethane	0.546	0.571	0.569	0.560	0.581	0.561	0.575	0.605	0.613	0.572	0.575	3.53	19.9393
	70	4-Bromofluorobenzene	1.381	1.268	1.277	1.268	1.191	1.105	1.223	1.210	------	------	1.240	6.43	20.1854
	71	1,2,3-Trichloropropane	------	------	0.102	0.126	0.131	0.113	0.113	0.115	0.117	0.110	0.116	7.79	20.2939
	72	trans-1,4-Dichloro-2-butene	------	------	0.097	0.098	0.093	0.097	0.118	0.118	0.132	0.124	0.110	13.91	20.4140
	73	n-Propylbenzene	5.006	5.190	5.381	5.442	5.420	5.108	5.085	5.262	5.190	4.639	5.172	4.60	20.5088
	74	Bromobenzene	0.913	0.902	0.929	0.968	0.962	0.896	0.914	0.953	0.962	0.886	0.928	3.30	20.7007
	75	1,3,5-Trimethylbenzene	3.381	3.261	3.588	3.524	3.568	3.335	3.387	3.520	3.463	3.092	3.412	4.53	20.8681
	76	2-Chlorotoluene	3.153	3.345	2.956	3.199	3.042	2.844	2.850	2.978	2.959	2.620	2.994	6.85	20.9858
	77	4-Chlorotoluene	2.782	2.807	3.141	3.144	3.046	2.913	2.871	3.027	3.043	2.769	2.954	4.88	21.0794
	78	tert-Butylbenzene	3.050	3.027	3.181	3.247	3.263	3.037	3.065	3.146	3.123	2.776	3.091	4.50	21.7289
	79	1,2,4-Trimethylbenzene	3.103	3.118	3.282	3.368	3.384	3.221	3.264	3.372	3.361	3.015	3.249	4.05	21.8288
	80	sec-Butylbenzene	4.342	4.154	4.473	4.596	4.681	4.394	4.471	4.557	4.494	4.013	4.418	4.60	22.2425
	81	p-Isopropyltoluene	2.895	3.028	3.035	3.323	3.559	3.444	3.518	3.651	3.590	3.225	3.327	8.08	22.5522
	82	1,3-Dichlorobenzene	1.511	1.571	1.673	1.763	1.801	1.735	1.755	1.825	1.831	1.663	1.713	6.28	22.8664
	83	1,4-Dichlorobenzene	1.560	1.597	1.691	1.733	1.755	1.651	1.704	1.758	1.754	1.641	1.684	4.16	23.1140
	84	n-Butylbenzene	2.225	2.471	2.655	2.678	3.146	3.124	3.259	3.364	3.352	3.045	2.932	13.54	23.5448
	85	1,2-Dichlorobenzene	1.342	1.429	1.416	1.491	1.496	1.455	1.481	1.545	1.533	1.404	1.459	4.29	24.0297
	86	1,2-Dibromo-3-chloropropane	------	------	------	0.053	0.063	0.074	0.073	0.076	0.081	0.081	0.071	14.43	25.9068
	87	1,2,4-Trichlorobenzene	------	0.471	0.544	0.601	0.739	0.801	0.851	0.902	0.919	0.853	0.742	22.17	28.0696
	88	Hexachlorobutadiene	------	0.526	0.519	0.572	0.672	0.679	0.653	0.680	0.673	0.618	0.621	10.67	28.3746
	89	Naphthalene	------	0.653	0.571	0.563	0.770	0.900	0.988	1.131	1.153	1.097	0.870	27.44	28.7411
	90	1,2,3-Trichlorobenzene	------	0.453	0.435	0.476	0.589	0.636	0.669	0.708	0.704	0.659	0.592	18.45	29.3279

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.1 Max_%RSD : 52.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
11	Acetone	0.00941	0.06518	0.9980
14	Methylene chloride	0.06537	0.51642	0.9989
45	2-Chloroethyl vinyl ether	-0.00296	0.05909	0.9992
87	1,2,4-Trichlorobenzene	-0.03239	0.88376	0.9988
89	Naphthalene	-0.05271	1.09962	0.9964
90	1,2,3-Trichlorobenzene	-0.02122	0.68477	0.9989

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SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D Vial: 14
Acq On : 26 Sep 2007 2:08 am Operator: CGM
Sample : IVO06I261 10PPB Inst : TO06
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	99	0.00
2	T	Dichlorodifluoromethane	10.000	9.453	5.5	93	0.00
3	P,T	Chloromethane	10.000	9.131	8.7	97	0.00
4	C,T	Vinyl chloride	10.000	9.916	0.8	94	0.00
5	T	Bromomethane	10.000	10.648	-6.5	112	0.00
6	T	Chloroethane	10.000	9.760	2.4	93	0.00
7	T	Dichlorofluoromethane	10.000	9.660	3.4	97	0.00
8	T	Trichlorofluoromethane	10.000	9.723	2.8	99	0.00
9	T	Acrolein	20.000	20.627	-3.1	98	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.997	0.0	99	0.00
11	T	Acetone	20.000	20.138	-0.7	94	0.00
12	CMT	1,1-Dichloroethene	10.000	9.898	1.0	100	0.00
13	T	tert-Butyl alcohol	50.000	49.426	1.1	95	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	9.081	9.2	82	0.00
17	T	Methylene chloride	10.000	9.282	7.2	90	0.00
18	T	Carbon disulfide	10.000	10.486	-4.9	105	0.00
19	T	Acrylonitrile	30.000	31.743	-5.8	101	0.00
20	T	tert-Butyl methyl ether (MT	10.000	10.127	-1.3	100	0.00
21	T	trans-1,2-Dichloroethene	10.000	9.960	0.4	100	0.00
22	T	Isopropyl ether (DIPE)	10.000	10.056	-0.6	100	0.00
23	T	Vinyl acetate	10.000	10.497	-5.0	108	0.00
24	P,T	1,1-Dichloroethane	10.000	10.053	-0.5	102	0.00
25	T	tert-Butyl ethyl ether (ETB	10.000	10.073	-0.7	100	0.00
26	T	2-Butanone	20.000	20.400	-2.0	101	0.00
27	T	2,2-Dichloropropane	10.000	8.981	10.2	92	0.00
28	T	cis-1,2-Dichloroethene	10.000	9.782	2.2	98	0.00
29	C,T	Chloroform	10.000	9.777	2.2	97	0.00
30	T	Bromochloromethane	10.000	9.952	0.5	100	0.00
31	T	1,1,1-Trichloroethane	10.000	9.843	1.6	98	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	9.516	4.8	101	0.00
34	S	1,2-Dichloroethane-d4	10.000	9.682	3.2	100	0.00
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	99	0.00
36	T	1,1-Dichloropropene	10.000	9.584	4.2	99	0.00
37	T	Carbon tetrachloride	10.000	9.793	2.1	98	0.00
38	T	1,2-Dichloroethane	10.000	9.822	1.8	95	0.00
39	TM	Benzene	10.000	9.948	0.5	101	0.00
40	TM	Trichloroethene	10.000	10.094	-0.9	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D Vial: 14
Acq On : 26 Sep 2007 2:08 am Operator: CGM
Sample : IVO06I261 10PPB Inst : TO06
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.013	-0.1	100	0.00
43	T	Bromodichloromethane	10.000	9.996	0.0	98	0.00
44	T	Dibromomethane	10.000	9.970	0.3	97	0.00
45	T	2-Chloroethyl vinyl ether	10.000	9.666	3.3	98	0.01
46	T	4-Methyl-2-pentanone	20.000	20.281	-1.4	98	0.00
47	T	cis-1,3-Dichloropropene	10.000	9.835	1.6	95	0.00
48	S	Toluene-d8	10.000	9.802	2.0	103	0.00
49	CMT	Toluene	10.000	9.945	0.5	102	0.00
50	T	Ethyl methacrylate	10.000	10.748	-7.5	102	0.00
51	T	trans-1,3-Dichloropropene	10.000	9.759	2.4	93	0.00
52	T	2-Hexanone	20.000	20.995	-5.0	98	0.00
53	T	1,1,2-Trichloroethane	10.000	10.052	-0.5	99	0.00
54	T	1,3-Dichloropropane	10.000	9.998	0.0	96	0.00
55	T	Tetrachloroethene	10.000	9.988	0.1	99	0.00
56	T	Dibromochloromethane	10.000	10.715	-7.1	96	0.00
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	9.380	6.2	97	0.00
59	T	1-Chlorohexane	10.000	9.776	2.2	98	0.00
60	PM	Chlorobenzene	10.000	10.257	-2.6	101	0.00
61	T	1,1,1,2-Tetrachloroethane	10.000	10.250	-2.5	101	0.00
62	C,T	Ethylbenzene	10.000	10.205	-2.1	102	0.00
63	T	m-Xylene & p-Xylene	20.000	20.342	-1.7	101	0.00
64	T	o-Xylene	10.000	10.010	-0.1	100	0.00
65	T	Styrene	10.000	10.524	-5.2	101	0.00
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	96	0.00
67	T	Isopropylbenzene	10.000	9.994	0.1	99	0.00
68	P,T	Bromoform	10.000	10.225	-2.2	94	0.00
69	P,T	1,1,2,2-Tetrachloroethane	10.000	10.207	-2.1	100	0.00
70	S	4-Bromofluorobenzene	10.000	9.491	5.1	102	0.00
71	T	1,2,3-Trichloropropane	10.000	10.909	-9.1	107	0.00
72	T	trans-1,4-Dichloro-2-butene	10.000	8.840	11.6	96	0.00
73	T	n-Propylbenzene	10.000	10.246	-2.5	99	0.00
74	T	Bromobenzene	10.000	10.078	-0.8	100	0.00
75	T	1,3,5-Trimethylbenzene	10.000	10.101	-1.0	99	0.00
76	T	2-Chlorotoluene	10.000	9.642	3.6	97	0.00
77	T	4-Chlorotoluene	10.000	10.234	-2.3	100	0.01
78	T	tert-Butylbenzene	10.000	10.056	-0.6	98	0.00
79	T	1,2,4-Trimethylbenzene	10.000	10.224	-2.2	99	0.00
80	T	sec-Butylbenzene	10.000	10.217	-2.2	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I25\RIW513.D Vial: 14
Acq On : 26 Sep 2007 2:08 am Operator: CGM
Sample : IVO06I261 10PPB Inst : TO06
Misc : 20PPB KET_AA/10PPB/8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	10.386	-3.9	96	0.00
82	T	1,3-Dichlorobenzene	10.000	10.489	-4.9	99	0.00
83	T	1,4-Dichlorobenzene	10.000	10.317	-3.2	101	0.00
84	T	n-Butylbenzene	10.000	10.737	-7.4	97	0.00
85	T	1,2-Dichlorobenzene	10.000	10.224	-2.2	98	0.00
86	T	1,2-Dibromo-3-chloropropane	10.000	9.951	0.5	92	0.00
87	T	1,2,4-Trichlorobenzene	10.000	9.727	2.7	99	0.00
88	T	Hexachlorobutadiene	10.000	11.164	-11.6	98	0.00
89	T	Naphthalene	10.000	9.013	9.9	100	0.00
90	T	1,2,3-Trichlorobenzene	10.000	9.930	0.7	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

cr 9/20/19 2021

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW189
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J955
BFB Injection Date : 11/06/07
BFB Injection Time : 22:37
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.32
75	30.0 - 60.0% of mass 95	45.06
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.88
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	82.16
175	5.0 - 9.0% of mass 174	5.89(7.2)1
176	95.0 - 101.0% of mass 174	80.74(98.3)1
177	5.0 - 9.0% of mass 176	5.39(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV006I26114	RKW190	11/06/07	23:15
2	MBLK1W	V006K18Q	RKW195	11/07/07	02:29
3	LCS1W	V006K18L	RKW192	11/07/07	00:33
4	LCD1W	V006K18C	RKW193	11/07/07	01:12
5	LTB-103007	J955-01	RKW201	11/07/07	06:23
6	LEB1-103007	J955-02	RKW202	11/07/07	07:02
7	LEB2-103007	J955-03	RKW203	11/07/07	07:40
8	SB5-58'	J955-04	RKW204	11/07/07	08:19

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RIW506
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J955
Date Analyzed: 09/25/07
Time Analyzed: 21:39
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2704069	11.21	2411758	17.42	970375	23.96
	UPPER LIMIT	5408138	11.71	4823516	17.92	1940750	24.46
	LOWER LIMIT	1352035	10.71	1205879	16.92	485188	23.46
	SAMPLE ID						
1	VSTD010	2388599	11.20	2153855	17.41	912618	23.95
2	MBLK1W	3103732	11.19	2822469	17.41	1061273	23.95
3	LCS1W	2642292	11.19	2352906	17.41	968072	23.95
4	LCD1W	2939503	11.19	2603306	17.41	1089125	23.95
5	LTB-103007	2742204	11.18	2458842	17.41	883483	23.95
6	LEB1-103007	2665206	11.18	2388679	17.41	891278	23.94
7	LEB2-103007	2731279	11.18	2427289	17.40	887296	23.94
8	SB5-58'	2681119	11.18	2384334	17.40	899216	23.94

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	10.000	12.204	-22.0#	108	0.00
3	P,T	Chloromethane	10.000	10.356	-3.6	98	0.00
4	C,T	Vinyl chloride	10.000	10.866	-8.7	92	0.00
5	T	Bromomethane	10.000	9.488	5.1	89	0.00
6	T	Chloroethane	10.000	9.705	2.9	82	-0.01
7	T	Dichlorofluoromethane	10.000	9.356	6.4	84	-0.01
8	T	Trichlorofluoromethane	10.000	9.600	4.0	87	0.00
9	T	Acrolein	20.000	12.112	39.4#	52	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.617	-6.2	94	0.00
11	T	Acetone	20.000	16.026	19.9	68	0.00
12	CMT	1,1-Dichloroethene	10.000	8.920	10.8	80	0.00
13	T	tert-Butyl alcohol	50.000	44.433	11.1	76	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	10.983	-9.8	88	0.00
17	T	Methylene chloride	10.000	8.463	15.4	74	0.00
18	T	Carbon disulfide	10.000	10.485	-4.8	94	0.00
19	T	Acrylonitrile	30.000	31.030	-3.4	88	0.00
20	T	tert-Butyl methyl ether (MT	10.000	10.356	-3.6	91	0.00
21	T	trans-1,2-Dichloroethene	10.000	9.571	4.3	86	0.00
22	T	Isopropyl ether (DIPE)	10.000	8.777	12.2	78	0.00
23	T	Vinyl acetate	10.000	8.419	15.8	77	0.00
24	P,T	1,1-Dichloroethane	10.000	9.948	0.5	90	0.00
25	T	tert-Butyl ethyl ether (ETB	10.000	9.943	0.6	88	0.00
26	T	2-Butanone	20.000	18.928	5.4	84	0.00
27	T	2,2-Dichloropropane	10.000	9.190	8.1	84	0.00
28	T	cis-1,2-Dichloroethene	10.000	9.471	5.3	85	0.00
29	C,T	Chloroform	10.000	10.375	-3.8	92	0.00
30	T	Bromochloromethane	10.000	9.236	7.6	83	0.00
31	T	1,1,1-Trichloroethane	10.000	9.918	0.8	88	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	11.818	-18.2	112	-0.02
34	S	1,2-Dichloroethane-d4	10.000	8.752	12.5	80	0.00
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	89	0.00
36	T	1,1-Dichloropropene	10.000	10.205	-2.1	95	0.00
37	T	Carbon tetrachloride	10.000	9.329	6.7	85	0.00
38	T	1,2-Dichloroethane	10.000	9.004	10.0	79	0.00
39	TM	Benzene	10.000	10.965	-9.6	100	0.00
40	TM	Trichloroethene	10.000	11.215	-12.1	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.469	-4.7	95	0.00
43	T	Bromodichloromethane	10.000	10.389	-3.9	92	0.00
44	T	Dibromomethane	10.000	11.188	-11.9	98	0.00
45	T	2-Chloroethyl vinyl ether	10.000	13.683	-36.8#	128	0.00
46	T	4-Methyl-2-pentanone	20.000	20.630	-3.1	91	0.00
47	T	cis-1,3-Dichloropropene	10.000	11.493	-14.9	100	0.00
48	S	Toluene-d8	10.000	10.012	-0.1	95	0.00
49	CMT	Toluene	10.000	10.945	-9.5	101	0.00
50	T	Ethyl methacrylate	10.000	11.341	-13.4	98	0.00
51	T	trans-1,3-Dichloropropene	10.000	11.089	-10.9	95	0.00
52	T	2-Hexanone	20.000	21.026	-5.1	89	0.00
53	T	1,1,2-Trichloroethane	10.000	11.806	-18.1	105	0.00
54	T	1,3-Dichloropropane	10.000	11.662	-16.6	101	0.00
55	T	Tetrachloroethene	10.000	11.155	-11.5	100	0.00
56	T	Dibromochloromethane	10.000	11.575	-15.7	94	0.00
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	12.817	-28.2#	119	0.00
59	T	1-Chlorohexane	10.000	11.407	-14.1	103	0.00
60	PM	Chlorobenzene	10.000	11.646	-16.5	104	0.00
61	T	1,1,1,2-Tetrachloroethane	10.000	11.185	-11.9	99	0.00
62	C,T	Ethylbenzene	10.000	11.047	-10.5	100	0.00
63	T	m-Xylene & p-Xylene	20.000	21.891	-9.5	99	0.00
64	T	o-Xylene	10.000	11.046	-10.5	100	0.00
65	T	Styrene	10.000	12.496	-25.0#	109	-0.01
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	94	0.00
67	T	Isopropylbenzene	10.000	10.678	-6.8	104	0.00
68	P,T	Bromoform	10.000	10.973	-9.7	99	0.00
69	P,T	1,1,2,2-Tetrachloroethane	10.000	11.509	-15.1	111	0.00
70	S	4-Bromofluorobenzene	10.000	9.103	9.0	96	-0.01
71	T	1,2,3-Trichloropropane	10.000	9.934	0.7	96	0.00
72	T	trans-1,4-Dichloro-2-butene	10.000	8.509	14.9	90	0.00
73	T	n-Propylbenzene	10.000	10.835	-8.4	103	-0.02
74	T	Bromobenzene	10.000	11.014	-10.1	107	-0.01
75	T	1,3,5-Trimethylbenzene	10.000	10.827	-8.3	104	-0.01
76	T	2-Chlorotoluene	10.000	10.572	-5.7	105	-0.02
77	T	4-Chlorotoluene	10.000	10.194	-1.9	97	0.00
78	T	tert-Butylbenzene	10.000	10.902	-9.0	104	0.00
79	T	1,2,4-Trimethylbenzene	10.000	10.957	-9.6	104	-0.01
80	T	sec-Butylbenzene	10.000	11.331	-13.3	107	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	11.767	-17.7	107	-0.01
82	T	1,3-Dichlorobenzene	10.000	11.532	-15.3	107	-0.01
83	T	1,4-Dichlorobenzene	10.000	11.343	-13.4	109	-0.01
84	T	n-Butylbenzene	10.000	11.672	-16.7	103	-0.01
85	T	1,2-Dichlorobenzene	10.000	11.491	-14.9	108	-0.01
86	T	1,2-Dibromo-3-chloropropane	10.000	11.985	-19.8	109	-0.01
87	T	1,2,4-Trichlorobenzene	10.000	10.446	-4.5	105	-0.01
88	T	Hexachlorobutadiene	10.000	10.897	-9.0	94	-0.01
89	T	Naphthalene	10.000	10.170	-1.7	111	-0.01
90	T	1,2,3-Trichlorobenzene	10.000	10.414	-4.1	102	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	0.278	0.339	-21.9#	108	0.00
3	P,T	Chloromethane	0.368	0.381	-3.5	98	0.00
4	C,T	Vinyl chloride	0.292	0.317	-8.6	92	0.00
5	T	Bromomethane	0.217	0.206	5.1	89	0.00
6	T	Chloroethane	0.192	0.186	3.1	82	-0.01
7	T	Dichlorofluoromethane	0.777	0.727	6.4	84	-0.01
8	T	Trichlorofluoromethane	0.504	0.484	4.0	87	0.00
9	T	Acrolein	0.023	0.014	39.1#	52	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.257	0.273	-6.2	94	0.00
11	T	Acetone	0.077	0.057	26.0#	68	0.00
12	CMT	1,1-Dichloroethene	0.710	0.633	10.8	80	0.00
13	T	tert-Butyl alcohol	0.020	0.018	10.0	76	0.00
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.364	0.400	-9.9	88	0.00
17	T	Methylene chloride	0.802	0.502	37.4#	74	0.00
18	T	Carbon disulfide	1.239	1.299	-4.8	94	0.00
19	T	Acrylonitrile	0.056	0.058	-3.6	88	0.00
20	T	tert-Butyl methyl ether (MT	0.595	0.617	-3.7	91	0.00
21	T	trans-1,2-Dichloroethene	0.645	0.618	4.2	86	0.00
22	T	Isopropyl ether (DIPE)	1.359	1.192	12.3	78	0.00
23	T	Vinyl acetate	0.505	0.425	15.8	77	0.00
24	P,T	1,1-Dichloroethane	0.752	0.748	0.5	90	0.00
25	T	tert-Butyl ethyl ether (ETB	0.918	0.913	0.5	88	0.00
26	T	2-Butanone	0.091	0.086	5.5	84	0.00
27	T	2,2-Dichloropropane	0.539	0.495	8.2	84	0.00
28	T	cis-1,2-Dichloroethene	0.671	0.636	5.2	85	0.00
29	C,T	Chloroform	0.682	0.707	-3.7	92	0.00
30	T	Bromochloromethane	0.305	0.282	7.5	83	0.00
31	T	1,1,1-Trichloroethane	0.601	0.596	0.8	88	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.671	0.793	-18.2	112	-0.02
34	S	1,2-Dichloroethane-d4	0.348	0.304	12.6	80	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	89	0.00
36	T	1,1-Dichloropropene	0.205	0.209	-2.0	95	0.00
37	T	Carbon tetrachloride	0.544	0.508	6.6	85	0.00
38	T	1,2-Dichloroethane	0.502	0.452	10.0	79	0.00
39	TM	Benzene	1.509	1.654	-9.6	100	0.00
40	TM	Trichloroethene	0.425	0.477	-12.2	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.389	0.407	-4.6	95	0.00
43	T	Bromodichloromethane	0.485	0.504	-3.9	92	0.00
44	T	Dibromomethane	0.158	0.177	-12.0	98	0.00
45	T	2-Chloroethyl vinyl ether	0.052	0.078	-50.0#	128	0.00
46	T	4-Methyl-2-pentanone	0.257	0.265	-3.1	91	0.00
47	T	cis-1,3-Dichloropropene	0.471	0.542	-15.1	100	0.00
48	S	Toluene-d8	1.255	1.256	-0.1	95	0.00
49	CMT	Toluene	1.511	1.654	-9.5	101	0.00
50	T	Ethyl methacrylate	0.272	0.308	-13.2	98	0.00
51	T	trans-1,3-Dichloropropene	0.353	0.392	-11.0	95	0.00
52	T	2-Hexanone	0.134	0.140	-4.5	89	0.00
53	T	1,1,2-Trichloroethane	0.205	0.242	-18.0	105	0.00
54	T	1,3-Dichloropropane	0.382	0.445	-16.5	101	0.00
55	T	Tetrachloroethene	0.357	0.398	-11.5	100	0.00
56	T	Dibromochloromethane	0.250	0.290	-16.0	94	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.154	0.197	-27.9#	119	0.00
59	T	1-Chlorohexane	0.576	0.657	-14.1	103	0.00
60	PM	Chlorobenzene	0.929	1.081	-16.4	104	0.00
61	T	1,1,1,2-Tetrachloroethane	0.318	0.356	-11.9	99	0.00
62	C,T	Ethylbenzene	1.727	1.908	-10.5	100	0.00
63	T	m-Xylene & p-Xylene	1.322	1.447	-9.5	99	0.00
64	T	o-Xylene	1.370	1.513	-10.4	100	0.00
65	T	Styrene	0.917	1.146	-25.0#	109	-0.01
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	94	0.00
67	T	Isopropylbenzene	4.174	4.457	-6.8	104	0.00
68	P,T	Bromoform	0.310	0.341	-10.0	99	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.575	0.662	-15.1	111	0.00
70	S	4-Bromofluorobenzene	1.240	1.129	9.0	96	-0.01
71	T	1,2,3-Trichloropropane	0.116	0.115	0.9	96	0.00
72	T	trans-1,4-Dichloro-2-butene	0.110	0.093	15.5	90	0.00
73	T	n-Propylbenzene	5.172	5.604	-8.4	103	-0.02
74	T	Bromobenzene	0.928	1.023	-10.2	107	-0.01
75	T	1,3,5-Trimethylbenzene	3.412	3.694	-8.3	104	-0.01
76	T	2-Chlorotoluene	2.994	3.166	-5.7	105	-0.02
77	T	4-Chlorotoluene	2.954	3.011	-1.9	97	0.00
78	T	tert-Butylbenzene	3.091	3.370	-9.0	104	0.00
79	T	1,2,4-Trimethylbenzene	3.249	3.560	-9.6	104	-0.01
80	T	sec-Butylbenzene	4.418	5.006	-13.3	107	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW190.D Vial: 3
Acq On : 6 Nov 2007 11:15 pm Operator: DN
Sample : CVO06I26114 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	3.327	3.915	-17.7	107	-0.01
82	T	1,3-Dichlorobenzene	1.713	1.975	-15.3	107	-0.01
83	T	1,4-Dichlorobenzene	1.684	1.910	-13.4	109	-0.01
84	T	n-Butylbenzene	2.932	3.422	-16.7	103	-0.01
85	T	1,2-Dichlorobenzene	1.459	1.677	-14.9	108	-0.01
86	T	1,2-Dibromo-3-chloropropane	0.071	0.086	-21.1#	109	-0.01
87	T	1,2,4-Trichlorobenzene	0.742	0.891	-20.1#	105	-0.01
88	T	Hexachlorobutadiene	0.621	0.677	-9.0	94	-0.01
89	T	Naphthalene	0.870	1.066	-22.5#	111	-0.01
90	T	1,2,3-Trichlorobenzene	0.592	0.692	-16.9	102	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW222
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J955
BFB Injection Date : 11/07/07
BFB Injection Time : 19:57
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.78
75	30.0 - 60.0% of mass 95	46.21
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.51
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	81.07
175	5.0 - 9.0% of mass 174	5.69(7.0)1
176	95.0 - 101.0% of mass 174	78.39(96.7)1
177	5.0 - 9.0% of mass 176	4.89(6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV006I26116	RKW223	11/07/07	20:35
2	MBLK2W	V006K20Q	RKW229	11/08/07	00:28
3	LCS2W	V006K20L	RKW224	11/07/07	21:14
4	LCD2W	V006K20C	RKW225	11/07/07	21:53
5	SB5-58'DL	J955-04T	RKW230	11/08/07	01:08

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RIW506
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J955
Date Analyzed: 09/25/07
Time Analyzed: 21:39
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2704069	11.21	2411758	17.42	970375	23.96
	UPPER LIMIT	5408138	11.71	4823516	17.92	1940750	24.46
	LOWER LIMIT	1352035	10.71	1205879	16.92	485188	23.46
	SAMPLE ID						
1	VSTD010	2319171	11.18	2101664	17.40	894355	23.94
2	MBLK2W	2671433	11.18	2400754	17.40	973613	23.94
3	LCS2W	2650001	11.18	2389970	17.39	1006101	23.94
4	LCD2W	2525632	11.18	2262070	17.40	948123	23.94
5	SB5-58'DL	2425045	11.18	2160292	17.41	798310	23.94

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW223.D Vial: 3
Acq On : 7 Nov 2007 8:35 pm Operator: DN
Sample : CVO06I26116 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	86	-0.02
2	T	Dichlorodifluoromethane	10.000	11.314	-13.1	97	-0.02
3	P,T	Chloromethane	10.000	8.946	10.5	82	0.00
4	C,T	Vinyl chloride	10.000	9.890	1.1	81	0.00
5	T	Bromomethane	10.000	9.498	5.0	86	0.00
6	T	Chloroethane	10.000	9.132	8.7	75	0.00
7	T	Dichlorofluoromethane	10.000	9.086	9.1	79	-0.02
8	T	Trichlorofluoromethane	10.000	9.023	9.8	79	0.00
9	T	Acrolein	20.000	11.531	42.3#	48	-0.02
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.620	-6.2	91	-0.01
11	T	Acetone	20.000	16.593	17.0	68	0.00
12	CMT	1,1-Dichloroethene	10.000	8.632	13.7	75	-0.02
13	T	tert-Butyl alcohol	50.000	41.916	16.2	69	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	11.455	-14.6	89	-0.02
17	T	Methylene chloride	10.000	7.792	22.1#	67	-0.01
18	T	Carbon disulfide	10.000	10.129	-1.3	88	-0.02
19	T	Acrylonitrile	30.000	29.729	0.9	82	-0.01
20	T	tert-Butyl methyl ether (MT	10.000	9.614	3.9	82	-0.01
21	T	trans-1,2-Dichloroethene	10.000	9.305	7.0	81	-0.02
22	T	Isopropyl ether (DIPE)	10.000	8.347	16.5	72	-0.01
23	T	Vinyl acetate	10.000	7.924	20.8#	71	-0.01
24	P,T	1,1-Dichloroethane	10.000	9.869	1.3	87	-0.01
25	T	tert-Butyl ethyl ether (ETB	10.000	9.500	5.0	82	-0.01
26	T	2-Butanone	20.000	17.529	12.4	75	-0.01
27	T	2,2-Dichloropropane	10.000	9.459	5.4	84	-0.01
28	T	cis-1,2-Dichloroethene	10.000	9.315	6.9	81	-0.01
29	C,T	Chloroform	10.000	10.232	-2.3	88	-0.02
30	T	Bromochloromethane	10.000	8.960	10.4	78	-0.02
31	T	1,1,1-Trichloroethane	10.000	9.976	0.2	86	-0.02
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	9.747	2.5	89	-0.02
34	S	1,2-Dichloroethane-d4	10.000	8.058	19.4	72	-0.02
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	87	-0.02
36	T	1,1-Dichloropropene	10.000	9.658	3.4	88	-0.02
37	T	Carbon tetrachloride	10.000	9.639	3.6	85	-0.02
38	T	1,2-Dichloroethane	10.000	8.770	12.3	75	-0.02
39	TM	Benzene	10.000	10.766	-7.7	96	-0.02
40	TM	Trichloroethene	10.000	11.212	-12.1	99	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW223.D Vial: 3
Acq On : 7 Nov 2007 8:35 pm Operator: DN
Sample : CVO06I26116 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.088	-0.9	89	-0.02
43	T	Bromodichloromethane	10.000	10.120	-1.2	88	-0.02
44	T	Dibromomethane	10.000	10.659	-6.6	91	-0.02
45	T	2-Chloroethyl vinyl ether	10.000	12.360	-23.6#	112	-0.02
46	T	4-Methyl-2-pentanone	20.000	19.621	1.9	84	-0.02
47	T	cis-1,3-Dichloropropene	10.000	10.872	-8.7	93	-0.02
48	S	Toluene-d8	10.000	9.898	1.0	91	-0.02
49	CMT	Toluene	10.000	10.897	-9.0	98	-0.02
50	T	Ethyl methacrylate	10.000	10.461	-4.6	88	-0.02
51	T	trans-1,3-Dichloropropene	10.000	10.604	-6.0	89	-0.02
52	T	2-Hexanone	20.000	20.156	-0.8	83	-0.02
53	T	1,1,2-Trichloroethane	10.000	11.526	-15.3	100	-0.02
54	T	1,3-Dichloropropane	10.000	10.940	-9.4	93	-0.02
55	T	Tetrachloroethene	10.000	11.277	-12.8	99	-0.02
56	T	Dibromochloromethane	10.000	11.087	-10.9	88	-0.02
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	10.828	-8.3	98	-0.02
59	T	1-Chlorohexane	10.000	11.613	-16.1	102	-0.02
60	PM	Chlorobenzene	10.000	11.542	-15.4	100	-0.02
61	T	1,1,1,2-Tetrachloroethane	10.000	11.310	-13.1	98	-0.02
62	C,T	Ethylbenzene	10.000	10.944	-9.4	97	-0.02
63	T	m-Xylene & p-Xylene	20.000	21.569	-7.8	95	-0.02
64	T	o-Xylene	10.000	10.854	-8.5	96	-0.02
65	T	Styrene	10.000	12.198	-22.0#	104	-0.02
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	92	-0.02
67	T	Isopropylbenzene	10.000	10.359	-3.6	99	-0.02
68	P,T	Bromoform	10.000	10.699	-7.0	94	-0.02
69	P,T	1,1,2,2-Tetrachloroethane	10.000	10.745	-7.4	102	-0.02
70	S	4-Bromofluorobenzene	10.000	9.079	9.2	94	-0.02
71	T	1,2,3-Trichloropropane	10.000	9.133	8.7	86	-0.02
72	T	trans-1,4-Dichloro-2-butene	10.000	9.142	8.6	95	0.00
73	T	n-Propylbenzene	10.000	10.573	-5.7	99	-0.03
74	T	Bromobenzene	10.000	10.880	-8.8	104	-0.02
75	T	1,3,5-Trimethylbenzene	10.000	10.448	-4.5	99	-0.02
76	T	2-Chlorotoluene	10.000	10.706	-7.1	104	-0.02
77	T	4-Chlorotoluene	10.000	10.145	-1.4	95	-0.02
78	T	tert-Butylbenzene	10.000	11.450	-14.5	107	-0.02
79	T	1,2,4-Trimethylbenzene	10.000	10.536	-5.4	98	-0.02
80	T	sec-Butylbenzene	10.000	10.993	-9.9	102	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW223.D Vial: 3
Acq On : 7 Nov 2007 8:35 pm Operator: DN
Sample : CVO06I26116 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	11.123	-11.2	99	-0.02
82	T	1,3-Dichlorobenzene	10.000	11.396	-14.0	104	-0.02
83	T	1,4-Dichlorobenzene	10.000	11.224	-12.2	106	-0.02
84	T	n-Butylbenzene	10.000	11.091	-10.9	96	-0.02
85	T	1,2-Dichlorobenzene	10.000	11.250	-12.5	104	-0.02
86	T	1,2-Dibromo-3-chloropropane	10.000	10.365	-3.7	93	-0.02
87	T	1,2,4-Trichlorobenzene	10.000	9.840	1.6	96	-0.02
88	T	Hexachlorobutadiene	10.000	10.608	-6.1	89	-0.02
89	T	Naphthalene	10.000	9.366	6.3	100	-0.02
90	T	1,2,3-Trichlorobenzene	10.000	9.901	1.0	95	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW223.D Vial: 3
Acq On : 7 Nov 2007 8:35 pm Operator: DN
Sample : CVO06I26116 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	86	-0.02
2	T	Dichlorodifluoromethane	0.278	0.314	-12.9	97	-0.02
3	P,T	Chloromethane	0.368	0.329	10.6	82	0.00
4	C,T	Vinyl chloride	0.292	0.289	1.0	81	0.00
5	T	Bromomethane	0.217	0.207	4.6	86	0.00
6	T	Chloroethane	0.192	0.175	8.9	75	0.00
7	T	Dichlorofluoromethane	0.777	0.706	9.1	79	-0.02
8	T	Trichlorofluoromethane	0.504	0.455	9.7	79	0.00
9	T	Acrolein	0.023	0.013	43.5#	48#	-0.02
10	T	1,1,2-Trichloro-1,2,2-trifl	0.257	0.273	-6.2	91	-0.01
11	T	Acetone	0.077	0.059	23.4#	68	0.00
12	CMT	1,1-Dichloroethene	0.710	0.613	13.7	75	-0.02
13	T	tert-Butyl alcohol	0.020	0.017	15.0	69	0.00
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.364	0.417	-14.6	89	-0.02
17	T	Methylene chloride	0.802	0.468	41.6#	67	-0.01
18	T	Carbon disulfide	1.239	1.255	-1.3	88	-0.02
19	T	Acrylonitrile	0.056	0.056	0.0	82	-0.01
20	T	tert-Butyl methyl ether (MT	0.595	0.572	3.9	82	-0.01
21	T	trans-1,2-Dichloroethene	0.645	0.601	6.8	81	-0.02
22	T	Isopropyl ether (DIPE)	1.359	1.134	16.6	72	-0.01
23	T	Vinyl acetate	0.505	0.400	20.8#	71	-0.01
24	P,T	1,1-Dichloroethane	0.752	0.742	1.3	87	-0.01
25	T	tert-Butyl ethyl ether (ETB	0.918	0.872	5.0	82	-0.01
26	T	2-Butanone	0.091	0.080	12.1	75	-0.01
27	T	2,2-Dichloropropane	0.539	0.510	5.4	84	-0.01
28	T	cis-1,2-Dichloroethene	0.671	0.625	6.9	81	-0.01
29	C,T	Chloroform	0.682	0.697	-2.2	88	-0.02
30	T	Bromochloromethane	0.305	0.274	10.2	78	-0.02
31	T	1,1,1-Trichloroethane	0.601	0.600	0.2	86	-0.02
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.671	0.654	2.5	89	-0.02
34	S	1,2-Dichloroethane-d4	0.348	0.280	19.5	72	-0.02
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	87	-0.02
36	T	1,1-Dichloropropene	0.205	0.198	3.4	88	-0.02
37	T	Carbon tetrachloride	0.544	0.525	3.5	85	-0.02
38	T	1,2-Dichloroethane	0.502	0.440	12.4	75	-0.02
39	TM	Benzene	1.509	1.624	-7.6	96	-0.02
40	TM	Trichloroethene	0.425	0.477	-12.2	99	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW223.D Vial: 3
Acq On : 7 Nov 2007 8:35 pm Operator: DN
Sample : CVO06I26116 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.389	0.392	-0.8	89	-0.02
43	T	Bromodichloromethane	0.485	0.491	-1.2	88	-0.02
44	T	Dibromomethane	0.158	0.168	-6.3	91	-0.02
45	T	2-Chloroethyl vinyl ether	0.052	0.070	-34.6#	112	-0.02
46	T	4-Methyl-2-pentanone	0.257	0.252	1.9	84	-0.02
47	T	cis-1,3-Dichloropropene	0.471	0.512	-8.7	93	-0.02
48	S	Toluene-d8	1.255	1.242	1.0	91	-0.02
49	CMT	Toluene	1.511	1.647	-9.0	98	-0.02
50	T	Ethyl methacrylate	0.272	0.284	-4.4	88	-0.02
51	T	trans-1,3-Dichloropropene	0.353	0.375	-6.2	89	-0.02
52	T	2-Hexanone	0.134	0.135	-0.7	83	-0.02
53	T	1,1,2-Trichloroethane	0.205	0.236	-15.1	100	-0.02
54	T	1,3-Dichloropropane	0.382	0.417	-9.2	93	-0.02
55	T	Tetrachloroethene	0.357	0.402	-12.6	99	-0.02
56	T	Dibromochloromethane	0.250	0.277	-10.8	88	-0.02
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.154	0.166	-7.8	98	-0.02
59	T	1-Chlorohexane	0.576	0.669	-16.1	102	-0.02
60	PM	Chlorobenzene	0.929	1.072	-15.4	100	-0.02
61	T	1,1,1,2-Tetrachloroethane	0.318	0.360	-13.2	98	-0.02
62	C,T	Ethylbenzene	1.727	1.890	-9.4	97	-0.02
63	T	m-Xylene & p-Xylene	1.322	1.426	-7.9	95	-0.02
64	T	o-Xylene	1.370	1.487	-8.5	96	-0.02
65	T	Styrene	0.917	1.119	-22.0#	104	-0.02
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	92	-0.02
67	T	Isopropylbenzene	4.174	4.324	-3.6	99	-0.02
68	P,T	Bromoform	0.310	0.332	-7.1	94	-0.02
69	P,T	1,1,2,2-Tetrachloroethane	0.575	0.618	-7.5	102	-0.02
70	S	4-Bromofluorobenzene	1.240	1.126	9.2	94	-0.02
71	T	1,2,3-Trichloropropane	0.116	0.106	8.6	86	-0.02
72	T	trans-1,4-Dichloro-2-butene	0.110	0.100	9.1	95	0.00
73	T	n-Propylbenzene	5.172	5.469	-5.7	99	-0.03
74	T	Bromobenzene	0.928	1.010	-8.8	104	-0.02
75	T	1,3,5-Trimethylbenzene	3.412	3.565	-4.5	99	-0.02
76	T	2-Chlorotoluene	2.994	3.206	-7.1	104	-0.02
77	T	4-Chlorotoluene	2.954	2.997	-1.5	95	-0.02
78	T	tert-Butylbenzene	3.091	3.540	-14.5	107	-0.02
79	T	1,2,4-Trimethylbenzene	3.249	3.423	-5.4	98	-0.02
80	T	sec-Butylbenzene	4.418	4.856	-9.9	102	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW223.D Vial: 3
Acq On : 7 Nov 2007 8:35 pm Operator: DN
Sample : CVO06I26116 Inst : TO06
Misc : 20PPB KET_AA/10PPB 8260/50PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06I26.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Wed Sep 26 09:53:50 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	3.327	3.700	-11.2	99	-0.02
82	T	1,3-Dichlorobenzene	1.713	1.952	-14.0	104	-0.02
83	T	1,4-Dichlorobenzene	1.684	1.890	-12.2	106	-0.02
84	T	n-Butylbenzene	2.932	3.252	-10.9	96	-0.02
85	T	1,2-Dichlorobenzene	1.459	1.642	-12.5	104	-0.02
86	T	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	93	-0.02
87	T	1,2,4-Trichlorobenzene	0.742	0.837	-12.8	96	-0.02
88	T	Hexachlorobutadiene	0.621	0.659	-6.1	89	-0.02
89	T	Naphthalene	0.870	0.977	-12.3	100	-0.02
90	T	1,2,3-Trichlorobenzene	0.592	0.657	-11.0	95	-0.02

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 9/25/07 ☐ 5-ml Purge ☑ 25-ml Purge **Book # A06 -030**

BATCH V006I26

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RIW500	BFB06I52	2µL	NA	NA	NA	Ket/AA 8260 TBA
02	501	V006I261	.06/.15/.03µL				.6 .3 1.5 ppb
03	502	2	.1/.25/.05µL				1 .5 2.5
04	503	3	.2/.5/.1µL				2 1 5
05	504	4	.4/1/.2µL				4 2 10
06	505	5	1/2.5/.5µL				10 5 25
07	506	6	2/5/1µL				20 10 50
08	507	7	4/10/2µL				40 20 100
09	508	8	6/15/3µL				60 30 150
10	509	9	8/20/4µL				80 40 200
11	510	10	10/25/5µL				100 50 250
12	511	IS/SS	25mL				
13	512	V006I52B	25mL				
14	513	IV006I261	2/5/1µL				
15	514	2	2/5/1µL				
16	515	Rinse					
17	516	Rinse					
18							
19							
20							
21							
22							
23							
24							
25							CGM 9/25/07

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	9/25/07
ICAL ID	V006I26
CGM 9/25/07	STANDARDS

NAME	ID	CONC. (mg/L)
DCC Ket/AA ~~Gc~~	SV1 - 13 - 03 - 1	250
DCC 8260	- 01 - 1	50/250
DCC Gases	- 01 - 3	250
BFB	- 05 - 3	50
IS/SURR.	- 05 - 1	250
LCS Ket/AA	- 03 - 2	250
LCS 8260	SV1C - 11 - 99 - 1	50/250
LCS Gases	- 95 - 2	250
SOLVENT IS	SV1-13-04-3 ID	250
METHANOL SS	SV1-13-05-2	250
DATA FILE	07I25	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: CGM

Date Disposed: 9/26/07

Disposed By: CGM

2010

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.6.07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A06 -031

BATCH V006 I 26 114

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW188	BFB06 K17	2ml				
02	189	18					10:37 pm
03	190	V006 I26 114	1ml/5ml				
04	191	115					
05	192	V006K18L					
06	193	C					
07	194	B	25ml				
08	195	Q					
09	196	07J344-01	25ml	1	<2		
10	197	-02					
11	198	07K042-01					
12	199	-02					
13	200	-03					
14	201	07J955-01					
15	202	-02					
16	203	-03					
17	204	-04					104
18	205	07J385-01					
19	206	-02					
20	207	07J352-06R					104 (10:16 am)
21							
22							
23					DW	11.7.07	
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	9.26.07
ICAL ID	V006 I 26

STANDARDS NAME	ID	CONC. (mg/L)
DCC	SM .13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.5.1	50/250
LCS	.19.3	
LCS	.13.3	
LCS	.2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K06

Electronic Data Archival Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DN

Date Disposed: 11/7/07

Disposed By: DN

2011

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.7.07 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A06 -031

BATCH CV006 I 26 116

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW 221	AFB 06 K10	2ml				
02	222	21 ✓					7:57 pm
03	223	CV006 I 26 116 ✓	1 ml				
04	224	V006K 20L ✓					
05	225	C ✓					
06	226	X					
07	227	Y	25ml				
08	228	B					
09	229	Q ✓					
10	230	07J955-04F ✓	25ml	10	<2		
11	231	07J352-56T ✓					
12	232	07J391-04 ✓	25ml	1			
13	233	-01 ✓					25x
14	234	-02 ✓					25x
15	235	-03 ✓					25x
16	236	-06					1/10x
17	237	-07 ✓					5x
18	238	07K038-01					1x (c/o)
19	239	07J378-01					1x
20	240	-09 ✓					7:34 am
21	241	RINSE					
22	242						
23							
24					DN	11.8.07	
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	9.26.07
ICAL ID	V006 I26

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	Sol. 13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.5.1	50/50
LCS	.12.3	
LCS	.13.3	
LCS	.2.1	
SOLVENT	ID	
METHANOL		
DATA FILE	07K07	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/T006	

Comments:

Analyzed By: DN

Date Disposed: 11/8/07

Disposed By: DN

2012

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS
(SOIL)

SDG#: 07J955

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J955

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Eighteen (18) soil samples were received on 10/31/07 for Volatile Organic analysis by Method 5035/8260B in accordance with USEPA SW846, 3rd edition.

1. Holding Time

Analytical holding time was met.

2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. Method Blank

Method blanks were free of contamination at the reporting limit.

4. Surrogate Recovery

Recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

6. Matrix Spike/Matrix Spike Duplicate

Sample J955-08 was spiked. Recoveries were within QC limit.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE RESULTS

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J955
Instrument ID : T-006

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	V006K13Q	1	NA	11/05/0714:09	11/05/0714:09	RKW141	RKW007	V006K13	Method Blank
LCS1S	V006K13L	1	NA	11/05/0711:31	11/05/0711:31	RKW138	RKW007	V006K13	Lab Control Sample (LCS)
LCD1S	V006K13C	1	NA	11/05/0712:50	11/05/0712:50	RKW139	RKW007	V006K13	LCS Duplicate
SB2-15'	J955-05	.71	11.7	11/05/0718:02	11/05/0718:02	RKW147	RKW007	V006K13	Field Sample
SB4-60'	J955-18	.77	8.2	11/05/0719:20	11/05/0719:20	RKW149	RKW007	V006K13	Field Sample
SB4-65'	J955-20	1.6	8.6	11/05/0720:37	11/05/0720:37	RKW151	RKW007	V006K13	Field Sample
SB4-70'	J955-21	.93	9.1	11/05/0721:17	11/05/0721:17	RKW152	RKW007	V006K13	Field Sample
MBLK2S	V006K15Q	50	NA	11/06/0702:28	11/06/0702:28	RKW160	RKW007	V006K15	Method Blank
LCS2S	V006K15L	50	NA	11/06/0700:31	11/06/0700:31	RKW157	RKW007	V006K15	Lab Control Sample (LCS)
LCD2S	V006K15C	50	NA	11/06/0701:10	11/06/0701:10	RKW158	RKW007	V006K15	LCS Duplicate
SB2-40'DL	J955-10T	41	8.2	11/06/0703:07	11/06/0703:07	RKW161	RKW007	V006K15	Diluted Sample
SB2-45'DL	J955-11I	220	10.7	11/06/0703:46	11/06/0703:46	RKW162	RKW007	V006K15	Diluted Sample
SB2-45'DL	J955-11T	43	10.7	11/06/0704:25	11/06/0704:25	RKW163	RKW007	V006K15	Diluted Sample
SB2-60'DL	J955-14T	41	8.3	11/06/0705:05	11/06/0705:05	RKW164	RKW007	V006K15	Diluted Sample
SB2-65'DL	J955-15T	43	8.1	11/06/0705:44	11/06/0705:44	RKW165	RKW007	V006K15	Diluted Sample
MBLK3S	V006K16B	1	NA	11/06/0712:16	11/06/0712:16	RKW175	RKW007	V006K16	Method Blank
LCS3S	V006K16L	1	NA	11/06/0710:57	11/06/0710:57	RKW173	RKW007	V006K16	Lab Control Sample (LCS)
LCD3S	V006K16C	1	NA	11/06/0711:36	11/06/0711:36	RKW174	RKW007	V006K16	LCS Duplicate
SB2-30'	J955-08R	.78	9.8	11/06/0713:32	11/06/0713:32	RKW177	RKW007	V006K16	Field Sample
SB2-30'MS	J955-08U	.72	9.8	11/06/0714:12	11/06/0714:12	RKW178	RKW007	V006K16	Matrix Spike Sample (MS)
SB2-30'MSD	J955-08V	1.0	9.8	11/06/0714:51	11/06/0714:51	RKW179	RKW007	V006K16	MS Duplicate (MSD)
SB2-15'DUP	J955-06R	.89	8.5	11/06/0717:29	11/06/0717:29	RKW181	RKW007	V006K16	Field Sample
SB2-20'	J955-07R	.88	12.5	11/06/0718:08	11/06/0718:08	RKW182	RKW007	V006K16	Field Sample
SB2-60'	J955-14R	.78	8.3	11/06/0719:26	11/06/0719:26	RKW184	RKW007	V006K16	Field Sample
SB2-65'	J955-15R	.83	8.1	11/06/0720:04	11/06/0720:04	RKW185	RKW007	V006K16	Field Sample
SB2-40'	J955-10R	.75	8.2	11/06/0720:43	11/06/0720:43	RKW186	RKW007	V006K16	Field Sample
SB2-45'	J955-11R	.91	10.7	11/06/0721:21	11/06/0721:21	RKW187	RKW007	V006K16	Field Sample
MBLK4S	V006K19B	1	NA	11/07/0713:29	11/07/0713:29	RKW212	RKW007	V006K19	Method Blank
LCS4S	V006K19L	1	NA	11/07/0712:12	11/07/0712:12	RKW210	RKW007	V006K19	Lab Control Sample (LCS)
LCD4S	V006K19C	1	NA	11/07/0712:51	11/07/0712:51	RKW211	RKW007	V006K19	LCS Duplicate
SB2-35'	J955-09R	.98	9.8	11/07/0714:47	11/07/0714:47	RKW214	RKW007	V006K19	Field Sample
SB2-50'	J955-12R	.85	5.1	11/07/0715:26	11/07/0715:26	RKW215	RKW007	V006K19	Field Sample
SB2-55	J955-13R	.91	4.4	11/07/0716:05	11/07/0716:05	RKW216	RKW007	V006K19	Field Sample
SB2-70'	J955-16R	.77	9.5	11/07/0716:43	11/07/0716:43	RKW217	RKW007	V006K19	Field Sample
SB4-55'	J955-17R	.79	10.6	11/07/0717:22	11/07/0717:22	RKW218	RKW007	V006K19	Field Sample
SB4-60'DUP	J955-19R	.85	8.4	11/07/0718:00	11/07/0718:00	RKW219	RKW007	V006K19	Field Sample
SB1-70'	J955-22R	.86	9.3	11/07/0718:39	11/07/0718:39	RKW220	RKW007	V006K19	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/05/07 18:02
Sample ID:	SB2-15'	Date Analyzed:	11/05/07 18:02
Lab Samp ID:	J955-05	Dilution Factor:	.71
Lab File ID:	RKW147	Matrix :	SOIL
Ext Btch ID:	V006K13	% Moisture :	11.7
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.0	1.6
1,1,2,2-TETRACHLOROETHANE	ND	4.0	1.6
1,1,2-TRICHLOROETHANE	ND	4.0	1.6
1,1-DICHLOROETHANE	ND	4.0	1.6
1,1-DICHLOROETHENE	ND	4.0	1.6
1,2-DICHLOROETHANE	ND	4.0	1.6
1,2-DICHLOROPROPANE	ND	4.0	1.6
2-BUTANONE	ND	8.0	4.0
2-HEXANONE	ND	8.0	4.0
4-METHYL-2-PENTANONE	ND	8.0	4.0
ACETONE	ND	8.0	4.0
BENZENE	2.2J	4.0	1.6
BROMODICHLOROMETHANE	ND	4.0	1.6
BROMOFORM	ND	4.0	1.6
BROMOMETHANE	ND	8.0	1.6
CARBON DISULFIDE	ND	4.0	1.6
CARBON TETRACHLORIDE	ND	4.0	1.6
CHLOROBENZENE	ND	4.0	1.6
CHLOROETHANE	ND	4.0	1.6
CHLOROFORM	ND	4.0	1.6
CHLOROMETHANE	ND	8.0	1.6
CIS-1,2-DICHLOROETHENE	ND	4.0	1.6
CIS-1,3-DICHLOROPROPENE	ND	4.0	1.6
DIBROMOCHLOROMETHANE	ND	4.0	1.6
ETHYLBENZENE	ND	4.0	1.6
M/P-XYLENES	ND	8.0	1.6
MTBE	ND	4.0	1.6
METHYLENE CHLORIDE	ND	8.0	1.6
O-XYLENE	ND	4.0	1.6
STYRENE	ND	4.0	1.6
TETRACHLOROETHENE	ND	4.0	1.6
TOLUENE	ND	4.0	1.6
TRANS-1,2-DICHLOROETHENE	ND	4.0	1.6
TRANS-1,3-DICHLOROPROPENE	ND	4.0	1.6
TRICHLOROETHENE	ND	4.0	1.6
VINYL CHLORIDE	ND	4.0	1.6

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	112	60-160
4-BROMOFLUOROBENZENE	116	70-150
TOLUENE-D8	113	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 17:29
Sample ID:	SB2-15'DUP	Date Analyzed:	11/06/07 17:29
Lab Samp ID:	J955-06R	Dilution Factor:	.89
Lab File ID:	RKW181	Matrix :	SOIL
Ext Btch ID:	VO06K16	% Moisture :	8.5
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.9	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.9	1.9
1,1,2-TRICHLOROETHANE	ND	4.9	1.9
1,1-DICHLOROETHANE	ND	4.9	1.9
1,1-DICHLOROETHENE	ND	4.9	1.9
1,2-DICHLOROETHANE	ND	4.9	1.9
1,2-DICHLOROPROPANE	ND	4.9	1.9
2-BUTANONE	13	9.7	4.9
2-HEXANONE	ND	9.7	4.9
4-METHYL-2-PENTANONE	ND	9.7	4.9
ACETONE	81	9.7	4.9
BENZENE	ND	4.9	1.9
BROMODICHLOROMETHANE	ND	4.9	1.9
BROMOFORM	ND	4.9	1.9
BROMOMETHANE	ND	9.7	1.9
CARBON DISULFIDE	ND	4.9	1.9
CARBON TETRACHLORIDE	ND	4.9	1.9
CHLOROBENZENE	ND	4.9	1.9
CHLOROETHANE	ND	4.9	1.9
CHLOROFORM	ND	4.9	1.9
CHLOROMETHANE	ND	9.7	1.9
CIS-1,2-DICHLOROETHENE	ND	4.9	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.9	1.9
DIBROMOCHLOROMETHANE	ND	4.9	1.9
ETHYLBENZENE	ND	4.9	1.9
M/P-XYLENES	ND	9.7	1.9
MTBE	ND	4.9	1.9
METHYLENE CHLORIDE	ND	9.7	1.9
O-XYLENE	ND	4.9	1.9
STYRENE	ND	4.9	1.9
TETRACHLOROETHENE	ND	4.9	1.9
TOLUENE	ND	4.9	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.9	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.9	1.9
TRICHLOROETHENE	ND	4.9	1.9
VINYL CHLORIDE	ND	4.9	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	112	60-160
4-BROMOFLUOROBENZENE	132	70-150
TOLUENE-D8	113	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 18:08
Sample ID:	SB2-20'	Date Analyzed:	11/06/07 18:08
Lab Samp ID:	J955-07R	Dilution Factor:	.88
Lab File ID:	RKW182	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	12.5
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	2.5J	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	60-160
4-BROMOFLUOROBENZENE	112	70-150
TOLUENE-D8	104	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 13:32
Sample ID:	SB2-30'	Date Analyzed:	11/06/07 13:32
Lab Samp ID:	J955-08R	Dilution Factor:	.78
Lab File ID:	RKW177	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	9.8
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.3	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.3	1.7
1,1,2-TRICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHENE	ND	4.3	1.7
1,2-DICHLOROETHANE	ND	4.3	1.7
1,2-DICHLOROPROPANE	ND	4.3	1.7
2-BUTANONE	ND	8.6	4.3
2-HEXANONE	ND	8.6	4.3
4-METHYL-2-PENTANONE	ND	8.6	4.3
ACETONE	66	8.6	4.3
BENZENE	ND	4.3	1.7
BROMODICHLOROMETHANE	ND	4.3	1.7
BROMOFORM	ND	4.3	1.7
BROMOMETHANE	ND	8.6	1.7
CARBON DISULFIDE	ND	4.3	1.7
CARBON TETRACHLORIDE	ND	4.3	1.7
CHLOROBENZENE	ND	4.3	1.7
CHLOROETHANE	ND	4.3	1.7
CHLOROFORM	ND	4.3	1.7
CHLOROMETHANE	ND	8.6	1.7
CIS-1,2-DICHLOROETHENE	ND	4.3	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.3	1.7
DIBROMOCHLOROMETHANE	ND	4.3	1.7
ETHYLBENZENE	ND	4.3	1.7
M/P-XYLENES	ND	8.6	1.7
MTBE	ND	4.3	1.7
METHYLENE CHLORIDE	7.2J	8.6	1.7
O-XYLENE	ND	4.3	1.7
STYRENE	ND	4.3	1.7
TETRACHLOROETHENE	ND	4.3	1.7
TOLUENE	ND	4.3	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.3	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.3	1.7
TRICHLOROETHENE	2.1J	4.3	1.7
VINYL CHLORIDE	ND	4.3	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	109	60-160
4-BROMOFLUOROBENZENE	104	70-150
TOLUENE-D8	103	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 14:47
Sample ID:	SB2-35'	Date Analyzed:	11/07/07 14:47
Lab Samp ID:	J955-09R	Dilution Factor:	.98
Lab File ID:	RKW214	Matrix :	SOIL
Ext Btch ID:	V006K19	% Moisture :	9.8
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.4	2.2
1,1,2,2-TETRACHLOROETHANE	ND	5.4	2.2
1,1,2-TRICHLOROETHANE	ND	5.4	2.2
1,1-DICHLOROETHANE	ND	5.4	2.2
1,1-DICHLOROETHENE	ND	5.4	2.2
1,2-DICHLOROETHANE	5.6	5.4	2.2
1,2-DICHLOROPROPANE	ND	5.4	2.2
2-BUTANONE	13	11	5.4
2-HEXANONE	ND	11	5.4
4-METHYL-2-PENTANONE	ND	11	5.4
ACETONE	170	11	5.4
BENZENE	ND	5.4	2.2
BROMODICHLOROMETHANE	ND	5.4	2.2
BROMOFORM	ND	5.4	2.2
BROMOMETHANE	ND	11	2.2
CARBON DISULFIDE	ND	5.4	2.2
CARBON TETRACHLORIDE	ND	5.4	2.2
CHLOROBENZENE	ND	5.4	2.2
CHLOROETHANE	ND	5.4	2.2
CHLOROFORM	ND	5.4	2.2
CHLOROMETHANE	ND	11	2.2
CIS-1,2-DICHLOROETHENE	ND	5.4	2.2
CIS-1,3-DICHLOROPROPENE	ND	5.4	2.2
DIBROMOCHLOROMETHANE	ND	5.4	2.2
ETHYLBENZENE	ND	5.4	2.2
M/P-XYLENES	ND	11	2.2
MTBE	ND	5.4	2.2
METHYLENE CHLORIDE	170	11	2.2
O-XYLENE	ND	5.4	2.2
STYRENE	ND	5.4	2.2
TETRACHLOROETHENE	ND	5.4	2.2
TOLUENE	ND	5.4	2.2
TRANS-1,2-DICHLOROETHENE	ND	5.4	2.2
TRANS-1,3-DICHLOROPROPENE	ND	5.4	2.2
TRICHLOROETHENE	25	5.4	2.2
VINYL CHLORIDE	ND	5.4	2.2

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	110	60-160
4-BROMOFLUOROBENZENE	100	70-150
TOLUENE-D8	102	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 20:43
Sample ID:	SB2-40'	Date Analyzed:	11/06/07 20:43
Lab Samp ID:	J955-10R	Dilution Factor:	.75
Lab File ID:	RKW186	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	8.2
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.1	1.6
1,1,2,2-TETRACHLOROETHANE	ND	4.1	1.6
1,1,2-TRICHLOROETHANE	ND	4.1	1.6
1,1-DICHLOROETHANE	ND	4.1	1.6
1,1-DICHLOROETHENE	ND	4.1	1.6
1,2-DICHLOROETHANE	35	4.1	1.6
1,2-DICHLOROPROPANE	ND	4.1	1.6
2-BUTANONE	4.5J	8.2	4.1
2-HEXANONE	ND	8.2	4.1
4-METHYL-2-PENTANONE	100	8.2	4.1
ACETONE	30	8.2	4.1
BENZENE	ND	4.1	1.6
BROMODICHLOROMETHANE	ND	4.1	1.6
BROMOFORM	ND	4.1	1.6
BROMOMETHANE	ND	8.2	1.6
CARBON DISULFIDE	ND	4.1	1.6
CARBON TETRACHLORIDE	ND	4.1	1.6
CHLOROBENZENE	ND	4.1	1.6
CHLOROETHANE	ND	4.1	1.6
CHLOROFORM	4.4	4.1	1.6
CHLOROMETHANE	ND	8.2	1.6
CIS-1,2-DICHLOROETHENE	ND	4.1	1.6
CIS-1,3-DICHLOROPROPENE	ND	4.1	1.6
DIBROMOCHLOROMETHANE	ND	4.1	1.6
ETHYLBENZENE	ND	4.1	1.6
M/P-XYLENES	ND	8.2	1.6
MTBE	ND	4.1	1.6
METHYLENE CHLORIDE	1600E	8.2	1.6
O-XYLENE	ND	4.1	1.6
STYRENE	ND	4.1	1.6
TETRACHLOROETHENE	ND	4.1	1.6
TOLUENE	ND	4.1	1.6
TRANS-1,2-DICHLOROETHENE	ND	4.1	1.6
TRANS-1,3-DICHLOROPROPENE	ND	4.1	1.6
TRICHLOROETHENE	90	4.1	1.6
VINYL CHLORIDE	ND	4.1	1.6

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	113	60-160
4-BROMOFLUOROBENZENE	100	70-150
TOLUENE-D8	104	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 03:07
Sample ID:	SB2-40'DL	Date Analyzed:	11/06/07 03:07
Lab Samp ID:	J955-10T	Dilution Factor:	41
Lab File ID:	RKW161	Matrix :	SOIL
Ext Btch ID:	V006K15	% Moisture :	8.2
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	220	89
1,1,2,2-TETRACHLOROETHANE	ND	220	89
1,1,2-TRICHLOROETHANE	ND	220	89
1,1-DICHLOROETHANE	ND	220	89
1,1-DICHLOROETHENE	ND	220	89
1,2-DICHLOROETHANE	ND	220	89
1,2-DICHLOROPROPANE	ND	220	89
2-BUTANONE	ND	450	220
2-HEXANONE	ND	450	220
4-METHYL-2-PENTANONE	ND	450	220
ACETONE	ND	450	220
BENZENE	ND	220	89
BROMODICHLOROMETHANE	ND	220	89
BROMOFORM	ND	220	89
BROMOMETHANE	ND	450	89
CARBON DISULFIDE	ND	220	89
CARBON TETRACHLORIDE	ND	220	89
CHLOROBENZENE	ND	220	89
CHLOROETHANE	ND	220	89
CHLOROFORM	ND	220	89
CHLOROMETHANE	ND	450	89
CIS-1,2-DICHLOROETHENE	ND	220	89
CIS-1,3-DICHLOROPROPENE	ND	220	89
DIBROMOCHLOROMETHANE	ND	220	89
ETHYLBENZENE	ND	220	89
M/P-XYLENES	ND	450	89
MTBE	ND	220	89
METHYLENE CHLORIDE	4700	450	89
O-XYLENE	ND	220	89
STYRENE	ND	220	89
TETRACHLOROETHENE	ND	220	89
TOLUENE	ND	220	89
TRANS-1,2-DICHLOROETHENE	ND	220	89
TRANS-1,3-DICHLOROPROPENE	ND	220	89
TRICHLOROETHENE	130J	220	89
VINYL CHLORIDE	ND	220	89

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	60-160
4-BROMOFLUOROBENZENE	103	70-150
TOLUENE-D8	105	70-140

Methanol Extraction Date: 11/05/07 15:00

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 21:21
Sample ID:	SB2-45'	Date Analyzed:	11/06/07 21:21
Lab Samp ID:	J955-11R	Dilution Factor:	.91
Lab File ID:	RKW187	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	10.7
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.1	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	2.0
1,1,2-TRICHLOROETHANE	ND	5.1	2.0
1,1-DICHLOROETHANE	7.0	5.1	2.0
1,1-DICHLOROETHENE	ND	5.1	2.0
1,2-DICHLOROETHANE	72	5.1	2.0
1,2-DICHLOROPROPANE	ND	5.1	2.0
2-BUTANONE	150	10	5.1
2-HEXANONE	ND	10	5.1
4-METHYL-2-PENTANONE	210	10	5.1
ACETONE	2100E	10	5.1
BENZENE	2.1J	5.1	2.0
BROMODICHLOROMETHANE	ND	5.1	2.0
BROMOFORM	ND	5.1	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.1	2.0
CARBON TETRACHLORIDE	ND	5.1	2.0
CHLOROBENZENE	ND	5.1	2.0
CHLOROETHANE	ND	5.1	2.0
CHLOROFORM	16	5.1	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.1	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	2.0
DIBROMOCHLOROMETHANE	ND	5.1	2.0
ETHYLBENZENE	ND	5.1	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.1	2.0
METHYLENE CHLORIDE	3000E	10	2.0
O-XYLENE	ND	5.1	2.0
STYRENE	ND	5.1	2.0
TETRACHLOROETHENE	ND	5.1	2.0
TOLUENE	3.4J	5.1	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	2.0
TRICHLOROETHENE	440E	5.1	2.0
VINYL CHLORIDE	ND	5.1	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	112	60-160
4-BROMOFLUOROBENZENE	101	70-150
TOLUENE-D8	103	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 04:25
Sample ID:	SB2-45'DL	Date Analyzed:	11/06/07 04:25
Lab Samp ID:	J955-11T	Dilution Factor:	43
Lab File ID:	RKW163	Matrix :	SOIL
Ext Btch ID:	VO06K15	% Moisture :	10.7
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	240	96
1,1,2,2-TETRACHLOROETHANE	ND	240	96
1,1,2-TRICHLOROETHANE	ND	240	96
1,1-DICHLOROETHANE	ND	240	96
1,1-DICHLOROETHENE	ND	240	96
1,2-DICHLOROETHANE	97J	240	96
1,2-DICHLOROPROPANE	ND	240	96
2-BUTANONE	ND	480	240
2-HEXANONE	ND	480	240
4-METHYL-2-PENTANONE	ND	480	240
ACETONE	2500	480	240
BENZENE	ND	240	96
BROMODICHLOROMETHANE	ND	240	96
BROMOFORM	ND	240	96
BROMOMETHANE	ND	480	96
CARBON DISULFIDE	ND	240	96
CARBON TETRACHLORIDE	ND	240	96
CHLOROBENZENE	ND	240	96
CHLOROETHANE	ND	240	96
CHLOROFORM	ND	240	96
CHLOROMETHANE	ND	480	96
CIS-1,2-DICHLOROETHENE	ND	240	96
CIS-1,3-DICHLOROPROPENE	ND	240	96
DIBROMOCHLOROMETHANE	ND	240	96
ETHYLBENZENE	ND	240	96
M/P-XYLENES	ND	480	96
MTBE	ND	240	96
METHYLENE CHLORIDE	22000E	480	96
O-XYLENE	ND	240	96
STYRENE	ND	240	96
TETRACHLOROETHENE	ND	240	96
TOLUENE	ND	240	96
TRANS-1,2-DICHLOROETHENE	ND	240	96
TRANS-1,3-DICHLOROPROPENE	ND	240	96
TRICHLOROETHENE	790	240	96
VINYL CHLORIDE	ND	240	96

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	109	60-160
4-BROMOFLUOROBENZENE	102	70-150
TOLUENE-D8	100	70-140

Methanol Extraction Date: 11/05/07 15:00

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 03:46
Sample ID:	SB2-45'DL	Date Analyzed:	11/06/07 03:46
Lab Samp ID:	J955-11I	Dilution Factor:	220
Lab File ID:	RKW162	Matrix :	SOIL
Ext Btch ID:	V006K15	% Moisture :	10.7
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	1200	490
1,1,2,2-TETRACHLOROETHANE	ND	1200	490
1,1,2-TRICHLOROETHANE	ND	1200	490
1,1-DICHLOROETHANE	ND	1200	490
1,1-DICHLOROETHENE	ND	1200	490
1,2-DICHLOROETHANE	ND	1200	490
1,2-DICHLOROPROPANE	ND	1200	490
2-BUTANONE	ND	2500	1200
2-HEXANONE	ND	2500	1200
4-METHYL-2-PENTANONE	ND	2500	1200
ACETONE	1400J	2500	1200
BENZENE	ND	1200	490
BROMODICHLOROMETHANE	ND	1200	490
BROMOFORM	ND	1200	490
BROMOMETHANE	ND	2500	490
CARBON DISULFIDE	ND	1200	490
CARBON TETRACHLORIDE	ND	1200	490
CHLOROBENZENE	ND	1200	490
CHLOROETHANE	ND	1200	490
CHLOROFORM	ND	1200	490
CHLOROMETHANE	ND	2500	490
CIS-1,2-DICHLOROETHENE	ND	1200	490
CIS-1,3-DICHLOROPROPENE	ND	1200	490
DIBROMOCHLOROMETHANE	ND	1200	490
ETHYLBENZENE	ND	1200	490
M/P-XYLENES	ND	2500	490
MTBE	ND	1200	490
METHYLENE CHLORIDE	21000	2500	490
O-XYLENE	ND	1200	490
STYRENE	ND	1200	490
TETRACHLOROETHENE	ND	1200	490
TOLUENE	ND	1200	490
TRANS-1,2-DICHLOROETHENE	ND	1200	490
TRANS-1,3-DICHLOROPROPENE	ND	1200	490
TRICHLOROETHENE	680J	1200	490
VINYL CHLORIDE	ND	1200	490

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	60-160
4-BROMOFLUOROBENZENE	106	70-150
TOLUENE-D8	105	70-140

Methanol Extraction Date: 11/05/07 15:00

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 15:26
Sample ID:	SB2-50'	Date Analyzed:	11/07/07 15:26
Lab Samp ID:	J955-12R	Dilution Factor:	.85
Lab File ID:	RKW215	Matrix :	SOIL
Ext Btch ID:	V006K19	% Moisture :	5.1
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.5	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.5	1.8
1,1,2-TRICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHENE	ND	4.5	1.8
1,2-DICHLOROETHANE	2.0J	4.5	1.8
1,2-DICHLOROPROPANE	ND	4.5	1.8
2-BUTANONE	14	9.0	4.5
2-HEXANONE	ND	9.0	4.5
4-METHYL-2-PENTANONE	42	9.0	4.5
ACETONE	180	9.0	4.5
BENZENE	ND	4.5	1.8
BROMODICHLOROMETHANE	ND	4.5	1.8
BROMOFORM	ND	4.5	1.8
BROMOMETHANE	ND	9.0	1.8
CARBON DISULFIDE	ND	4.5	1.8
CARBON TETRACHLORIDE	ND	4.5	1.8
CHLOROBENZENE	ND	4.5	1.8
CHLOROETHANE	ND	4.5	1.8
CHLOROFORM	ND	4.5	1.8
CHLOROMETHANE	ND	9.0	1.8
CIS-1,2-DICHLOROETHENE	ND	4.5	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.5	1.8
DIBROMOCHLOROMETHANE	ND	4.5	1.8
ETHYLBENZENE	ND	4.5	1.8
M/P-XYLENES	ND	9.0	1.8
MTBE	ND	4.5	1.8
METHYLENE CHLORIDE	230	9.0	1.8
O-XYLENE	ND	4.5	1.8
STYRENE	ND	4.5	1.8
TETRACHLOROETHENE	ND	4.5	1.8
TOLUENE	ND	4.5	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.5	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.5	1.8
TRICHLOROETHENE	5.5	4.5	1.8
VINYL CHLORIDE	ND	4.5	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	60-160
4-BROMOFLUOROBENZENE	101	70-150
TOLUENE-D8	103	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 16:05
Sample ID:	SB2-55	Date Analyzed:	11/07/07 16:05
Lab Samp ID:	J955-13R	Dilution Factor:	.91
Lab File ID:	RKW216	Matrix :	SOIL
Ext Btch ID:	V006K19	% Moisture :	4.4
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.8	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.8	1.9
1,1,2-TRICHLOROETHANE	ND	4.8	1.9
1,1-DICHLOROETHANE	ND	4.8	1.9
1,1-DICHLOROETHENE	ND	4.8	1.9
1,2-DICHLOROETHANE	ND	4.8	1.9
1,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	ND	9.5	4.8
2-HEXANONE	ND	9.5	4.8
4-METHYL-2-PENTANONE	ND	9.5	4.8
ACETONE	ND	9.5	4.8
BENZENE	ND	4.8	1.9
BROMODICHLOROMETHANE	ND	4.8	1.9
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	ND	9.5	1.9
CARBON DISULFIDE	ND	4.8	1.9
CARBON TETRACHLORIDE	ND	4.8	1.9
CHLOROBENZENE	ND	4.8	1.9
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	1.9
CHLOROMETHANE	ND	9.5	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.8	1.9
DIBROMOCHLOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	1.9
M/P-XYLENES	ND	9.5	1.9
MTBE	ND	4.8	1.9
METHYLENE CHLORIDE	30	9.5	1.9
O-XYLENE	ND	4.8	1.9
STYRENE	ND	4.8	1.9
TETRACHLOROETHENE	ND	4.8	1.9
TOLUENE	ND	4.8	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.8	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.8	1.9
TRICHLOROETHENE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	109	60-160
4-BROMOFLUOROBENZENE	106	70-150
TOLUENE-D8	102	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 19:26
Sample ID:	SB2-60'	Date Analyzed:	11/06/07 19:26
Lab Samp ID:	J955-14R	Dilution Factor:	.78
Lab File ID:	RKW184	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	8.3
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.3	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.3	1.7
1,1,2-TRICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHENE	ND	4.3	1.7
1,2-DICHLOROETHANE	1.8J	4.3	1.7
1,2-DICHLOROPROPANE	ND	4.3	1.7
2-BUTANONE	ND	8.5	4.3
2-HEXANONE	ND	8.5	4.3
4-METHYL-2-PENTANONE	14	8.5	4.3
ACETONE	ND	8.5	4.3
BENZENE	ND	4.3	1.7
BROMODICHLOROMETHANE	ND	4.3	1.7
BROMOFORM	ND	4.3	1.7
BROMOMETHANE	ND	8.5	1.7
CARBON DISULFIDE	ND	4.3	1.7
CARBON TETRACHLORIDE	ND	4.3	1.7
CHLOROBENZENE	ND	4.3	1.7
CHLOROETHANE	ND	4.3	1.7
CHLOROFORM	ND	4.3	1.7
CHLOROMETHANE	ND	8.5	1.7
CIS-1,2-DICHLOROETHENE	ND	4.3	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.3	1.7
DIBROMOCHLOROMETHANE	ND	4.3	1.7
ETHYLBENZENE	ND	4.3	1.7
M/P-XYLENES	ND	8.5	1.7
MTBE	ND	4.3	1.7
METHYLENE CHLORIDE	270E	8.5	1.7
O-XYLENE	ND	4.3	1.7
STYRENE	ND	4.3	1.7
TETRACHLOROETHENE	ND	4.3	1.7
TOLUENE	ND	4.3	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.3	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.3	1.7
TRICHLOROETHENE	7.1	4.3	1.7
VINYL CHLORIDE	ND	4.3	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	108	60-160
4-BROMOFLUOROBENZENE	106	70-150
TOLUENE-D8	104	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 05:05
Sample ID:	SB2-60'DL	Date Analyzed:	11/06/07 05:05
Lab Samp ID:	J955-14T	Dilution Factor:	41
Lab File ID:	RKW164	Matrix :	SOIL
Ext Btch ID:	V006K15	% Moisture :	8.3
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	220	89
1,1,2,2-TETRACHLOROETHANE	ND	220	89
1,1,2-TRICHLOROETHANE	ND	220	89
1,1-DICHLOROETHANE	ND	220	89
1,1-DICHLOROETHENE	ND	220	89
1,2-DICHLOROETHANE	ND	220	89
1,2-DICHLOROPROPANE	ND	220	89
2-BUTANONE	ND	450	220
2-HEXANONE	ND	450	220
4-METHYL-2-PENTANONE	ND	450	220
ACETONE	ND	450	220
BENZENE	ND	220	89
BROMODICHLOROMETHANE	ND	220	89
BROMOFORM	ND	220	89
BROMOMETHANE	ND	450	89
CARBON DISULFIDE	ND	220	89
CARBON TETRACHLORIDE	ND	220	89
CHLOROBENZENE	ND	220	89
CHLOROETHANE	ND	220	89
CHLOROFORM	ND	220	89
CHLOROMETHANE	ND	450	89
CIS-1,2-DICHLOROETHENE	ND	220	89
CIS-1,3-DICHLOROPROPENE	ND	220	89
DIBROMOCHLOROMETHANE	ND	220	89
ETHYLBENZENE	ND	220	89
M/P-XYLENES	ND	450	89
MTBE	ND	220	89
METHYLENE CHLORIDE	240J	450	89
O-XYLENE	ND	220	89
STYRENE	ND	220	89
TETRACHLOROETHENE	ND	220	89
TOLUENE	ND	220	89
TRANS-1,2-DICHLOROETHENE	ND	220	89
TRANS-1,3-DICHLOROPROPENE	ND	220	89
TRICHLOROETHENE	ND	220	89
VINYL CHLORIDE	ND	220	89

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	113	60-160
4-BROMOFLUOROBENZENE	103	70-150
TOLUENE-D8	105	70-140

Methanol Extraction Date: 11/05/07 15:00

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 20:04
Sample ID:	SB2-65'	Date Analyzed:	11/06/07 20:04
Lab Samp ID:	J955-15R	Dilution Factor:	.83
Lab File ID:	RKW185	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	8.1
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.5	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.5	1.8
1,1,2-TRICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHENE	ND	4.5	1.8
1,2-DICHLOROETHANE	1.8J	4.5	1.8
1,2-DICHLOROPROPANE	ND	4.5	1.8
2-BUTANONE	ND	9.0	4.5
2-HEXANONE	ND	9.0	4.5
4-METHYL-2-PENTANONE	5.0J	9.0	4.5
ACETONE	7.5J	9.0	4.5
BENZENE	ND	4.5	1.8
BROMODICHLOROMETHANE	ND	4.5	1.8
BROMOFORM	ND	4.5	1.8
BROMOMETHANE	ND	9.0	1.8
CARBON DISULFIDE	ND	4.5	1.8
CARBON TETRACHLORIDE	ND	4.5	1.8
CHLOROBENZENE	ND	4.5	1.8
CHLOROETHANE	ND	4.5	1.8
CHLOROFORM	ND	4.5	1.8
CHLOROMETHANE	ND	9.0	1.8
CIS-1,2-DICHLOROETHENE	ND	4.5	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.5	1.8
DIBROMOCHLOROMETHANE	ND	4.5	1.8
ETHYLBENZENE	ND	4.5	1.8
M/P-XYLENES	ND	9.0	1.8
MTBE	ND	4.5	1.8
METHYLENE CHLORIDE	330E	9.0	1.8
O-XYLENE	ND	4.5	1.8
STYRENE	ND	4.5	1.8
TETRACHLOROETHENE	ND	4.5	1.8
TOLUENE	ND	4.5	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.5	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.5	1.8
TRICHLOROETHENE	8.6	4.5	1.8
VINYL CHLORIDE	ND	4.5	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	60-160
4-BROMOFLUOROBENZENE	109	70-150
TOLUENE-D8	106	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/06/07 05:44
Sample ID:	SB2-65'DL	Date Analyzed:	11/06/07 05:44
Lab Samp ID:	J955-15T	Dilution Factor:	43
Lab File ID:	RKW165	Matrix :	SOIL
Ext Btch ID:	VO06K15	% Moisture :	8.1
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	230	94
1,1,2,2-TETRACHLOROETHANE	ND	230	94
1,1,2-TRICHLOROETHANE	ND	230	94
1,1-DICHLOROETHANE	ND	230	94
1,1-DICHLOROETHENE	ND	230	94
1,2-DICHLOROETHANE	ND	230	94
1,2-DICHLOROPROPANE	ND	230	94
2-BUTANONE	ND	470	230
2-HEXANONE	ND	470	230
4-METHYL-2-PENTANONE	ND	470	230
ACETONE	ND	470	230
BENZENE	ND	230	94
BROMODICHLOROMETHANE	ND	230	94
BROMOFORM	ND	230	94
BROMOMETHANE	ND	470	94
CARBON DISULFIDE	ND	230	94
CARBON TETRACHLORIDE	ND	230	94
CHLOROBENZENE	ND	230	94
CHLOROETHANE	ND	230	94
CHLOROFORM	ND	230	94
CHLOROMETHANE	ND	470	94
CIS-1,2-DICHLOROETHENE	ND	230	94
CIS-1,3-DICHLOROPROPENE	ND	230	94
DIBROMOCHLOROMETHANE	ND	230	94
ETHYLBENZENE	ND	230	94
M/P-XYLENES	ND	470	94
MTBE	ND	230	94
METHYLENE CHLORIDE	350J	470	94
O-XYLENE	ND	230	94
STYRENE	ND	230	94
TETRACHLOROETHENE	ND	230	94
TOLUENE	ND	230	94
TRANS-1,2-DICHLOROETHENE	ND	230	94
TRANS-1,3-DICHLOROPROPENE	ND	230	94
TRICHLOROETHENE	ND	230	94
VINYL CHLORIDE	ND	230	94

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	109	60-160
4-BROMOFLUOROBENZENE	101	70-150
TOLUENE-D8	105	70-140

Methanol Extraction Date: 11/05/07 15:00

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 16:43
Sample ID:	SB2-70'	Date Analyzed:	11/07/07 16:43
Lab Samp ID:	J955-16R	Dilution Factor:	.77
Lab File ID:	RKW217	Matrix :	SOIL
Ext Btch ID:	V006K19	% Moisture :	9.5
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.3	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.3	1.7
1,1,2-TRICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHENE	ND	4.3	1.7
1,2-DICHLOROETHANE	ND	4.3	1.7
1,2-DICHLOROPROPANE	ND	4.3	1.7
2-BUTANONE	ND	8.5	4.3
2-HEXANONE	ND	8.5	4.3
4-METHYL-2-PENTANONE	ND	8.5	4.3
ACETONE	ND	8.5	4.3
BENZENE	ND	4.3	1.7
BROMODICHLOROMETHANE	ND	4.3	1.7
BROMOFORM	ND	4.3	1.7
BROMOMETHANE	ND	8.5	1.7
CARBON DISULFIDE	ND	4.3	1.7
CARBON TETRACHLORIDE	ND	4.3	1.7
CHLOROBENZENE	ND	4.3	1.7
CHLOROETHANE	ND	4.3	1.7
CHLOROFORM	ND	4.3	1.7
CHLOROMETHANE	ND	8.5	1.7
CIS-1,2-DICHLOROETHENE	ND	4.3	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.3	1.7
DIBROMOCHLOROMETHANE	ND	4.3	1.7
ETHYLBENZENE	ND	4.3	1.7
M/P-XYLENES	ND	8.5	1.7
MTBE	ND	4.3	1.7
METHYLENE CHLORIDE	33	8.5	1.7
O-XYLENE	ND	4.3	1.7
STYRENE	ND	4.3	1.7
TETRACHLOROETHENE	ND	4.3	1.7
TOLUENE	ND	4.3	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.3	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.3	1.7
TRICHLOROETHENE	ND	4.3	1.7
VINYL CHLORIDE	ND	4.3	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	110	60-160
4-BROMOFLUOROBENZENE	108	70-150
TOLUENE-D8	103	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 17:22
Sample ID:	SB4-55'	Date Analyzed:	11/07/07 17:22
Lab Samp ID:	J955-17R	Dilution Factor:	.79
Lab File ID:	RKW218	Matrix :	SOIL
Ext Btch ID:	V006K19	% Moisture :	10.6
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.4	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.4	1.8
1,1,2-TRICHLOROETHANE	ND	4.4	1.8
1,1-DICHLOROETHANE	ND	4.4	1.8
1,1-DICHLOROETHENE	ND	4.4	1.8
1,2-DICHLOROETHANE	ND	4.4	1.8
1,2-DICHLOROPROPANE	ND	4.4	1.8
2-BUTANONE	ND	8.8	4.4
2-HEXANONE	ND	8.8	4.4
4-METHYL-2-PENTANONE	ND	8.8	4.4
ACETONE	ND	8.8	4.4
BENZENE	ND	4.4	1.8
BROMODICHLOROMETHANE	ND	4.4	1.8
BROMOFORM	ND	4.4	1.8
BROMOMETHANE	ND	8.8	1.8
CARBON DISULFIDE	ND	4.4	1.8
CARBON TETRACHLORIDE	ND	4.4	1.8
CHLOROBENZENE	ND	4.4	1.8
CHLOROETHANE	ND	4.4	1.8
CHLOROFORM	ND	4.4	1.8
CHLOROMETHANE	ND	8.8	1.8
CIS-1,2-DICHLOROETHENE	ND	4.4	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.4	1.8
DIBROMOCHLOROMETHANE	ND	4.4	1.8
ETHYLBENZENE	ND	4.4	1.8
M/P-XYLENES	ND	8.8	1.8
MTBE	ND	4.4	1.8
METHYLENE CHLORIDE	3.1J	8.8	1.8
O-XYLENE	ND	4.4	1.8
STYRENE	ND	4.4	1.8
TETRACHLOROETHENE	ND	4.4	1.8
TOLUENE	ND	4.4	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.4	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.4	1.8
TRICHLOROETHENE	1.9J	4.4	1.8
VINYL CHLORIDE	ND	4.4	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	60-160
4-BROMOFLUOROBENZENE	109	70-150
TOLUENE-D8	103	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/05/07 19:20
Sample ID:	SB4-60'	Date Analyzed:	11/05/07 19:20
Lab Samp ID:	J955-18	Dilution Factor:	.77
Lab File ID:	RKW149	Matrix :	SOIL
Ext Btch ID:	V006K13	% Moisture :	8.2
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.2	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.2	1.7
1,1,2-TRICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHENE	ND	4.2	1.7
1,2-DICHLOROETHANE	ND	4.2	1.7
1,2-DICHLOROPROPANE	ND	4.2	1.7
2-BUTANONE	ND	8.4	4.2
2-HEXANONE	ND	8.4	4.2
4-METHYL-2-PENTANONE	ND	8.4	4.2
ACETONE	ND	8.4	4.2
BENZENE	ND	4.2	1.7
BROMODICHLOROMETHANE	ND	4.2	1.7
BROMOFORM	ND	4.2	1.7
BROMOMETHANE	ND	8.4	1.7
CARBON DISULFIDE	ND	4.2	1.7
CARBON TETRACHLORIDE	ND	4.2	1.7
CHLOROBENZENE	ND	4.2	1.7
CHLOROETHANE	ND	4.2	1.7
CHLOROFORM	ND	4.2	1.7
CHLOROMETHANE	ND	8.4	1.7
CIS-1,2-DICHLOROETHENE	ND	4.2	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.2	1.7
DIBROMOCHLOROMETHANE	ND	4.2	1.7
ETHYLBENZENE	ND	4.2	1.7
M/P-XYLENES	ND	8.4	1.7
MTBE	ND	4.2	1.7
METHYLENE CHLORIDE	3.8J	8.4	1.7
O-XYLENE	ND	4.2	1.7
STYRENE	ND	4.2	1.7
TETRACHLOROETHENE	ND	4.2	1.7
TOLUENE	ND	4.2	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.2	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.2	1.7
TRICHLOROETHENE	ND	4.2	1.7
VINYL CHLORIDE	ND	4.2	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	110	60-160
4-BROMOFLUOROBENZENE	109	70-150
TOLUENE-D8	109	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 18:00
Sample ID:	SB4-60'DUP	Date Analyzed:	11/07/07 18:00
Lab Samp ID:	J955-19R	Dilution Factor:	.85
Lab File ID:	RKW219	Matrix :	SOIL
Ext Btch ID:	V006K19	% Moisture :	8.4
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.6	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.6	1.9
1,1,2-TRICHLOROETHANE	ND	4.6	1.9
1,1-DICHLOROETHANE	ND	4.6	1.9
1,1-DICHLOROETHENE	ND	4.6	1.9
1,2-DICHLOROETHANE	ND	4.6	1.9
1,2-DICHLOROPROPANE	ND	4.6	1.9
2-BUTANONE	ND	9.3	4.6
2-HEXANONE	ND	9.3	4.6
4-METHYL-2-PENTANONE	ND	9.3	4.6
ACETONE	ND	9.3	4.6
BENZENE	ND	4.6	1.9
BROMODICHLOROMETHANE	ND	4.6	1.9
BROMOFORM	ND	4.6	1.9
BROMOMETHANE	ND	9.3	1.9
CARBON DISULFIDE	ND	4.6	1.9
CARBON TETRACHLORIDE	ND	4.6	1.9
CHLOROBENZENE	ND	4.6	1.9
CHLOROETHANE	ND	4.6	1.9
CHLOROFORM	ND	4.6	1.9
CHLOROMETHANE	ND	9.3	1.9
CIS-1,2-DICHLOROETHENE	ND	4.6	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.6	1.9
DIBROMOCHLOROMETHANE	ND	4.6	1.9
ETHYLBENZENE	ND	4.6	1.9
M/P-XYLENES	ND	9.3	1.9
MTBE	ND	4.6	1.9
METHYLENE CHLORIDE	2.1J	9.3	1.9
O-XYLENE	ND	4.6	1.9
STYRENE	ND	4.6	1.9
TETRACHLOROETHENE	ND	4.6	1.9
TOLUENE	ND	4.6	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.6	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.6	1.9
TRICHLOROETHENE	ND	4.6	1.9
VINYL CHLORIDE	ND	4.6	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	60-160
4-BROMOFLUOROBENZENE	107	70-150
TOLUENE-D8	103	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/05/07 20:37
Sample ID:	SB4-65'	Date Analyzed:	11/05/07 20:37
Lab Samp ID:	J955-20	Dilution Factor:	1.6
Lab File ID:	RKW151	Matrix :	SOIL
Ext Btch ID:	V006K13	% Moisture :	8.6
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	8.8	3.5
1,1,2,2-TETRACHLOROETHANE	ND	8.8	3.5
1,1,2-TRICHLOROETHANE	ND	8.8	3.5
1,1-DICHLOROETHANE	ND	8.8	3.5
1,1-DICHLOROETHENE	ND	8.8	3.5
1,2-DICHLOROETHANE	ND	8.8	3.5
1,2-DICHLOROPROPANE	ND	8.8	3.5
2-BUTANONE	ND	18	8.8
2-HEXANONE	ND	18	8.8
4-METHYL-2-PENTANONE	ND	18	8.8
ACETONE	23	18	8.8
BENZENE	ND	8.8	3.5
BROMODICHLOROMETHANE	ND	8.8	3.5
BROMOFORM	ND	8.8	3.5
BROMOMETHANE	ND	18	3.5
CARBON DISULFIDE	ND	8.8	3.5
CARBON TETRACHLORIDE	ND	8.8	3.5
CHLOROBENZENE	ND	8.8	3.5
CHLOROETHANE	ND	8.8	3.5
CHLOROFORM	ND	8.8	3.5
CHLOROMETHANE	ND	18	3.5
CIS-1,2-DICHLOROETHENE	ND	8.8	3.5
CIS-1,3-DICHLOROPROPENE	ND	8.8	3.5
DIBROMOCHLOROMETHANE	ND	8.8	3.5
ETHYLBENZENE	ND	8.8	3.5
M/P-XYLENES	ND	18	3.5
MTBE	ND	8.8	3.5
METHYLENE CHLORIDE	ND	18	3.5
O-XYLENE	ND	8.8	3.5
STYRENE	ND	8.8	3.5
TETRACHLOROETHENE	ND	8.8	3.5
TOLUENE	ND	8.8	3.5
TRANS-1,2-DICHLOROETHENE	ND	8.8	3.5
TRANS-1,3-DICHLOROPROPENE	ND	8.8	3.5
TRICHLOROETHENE	ND	8.8	3.5
VINYL CHLORIDE	ND	8.8	3.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	116	60-160
4-BROMOFLUOROBENZENE	110	70-150
TOLUENE-D8	109	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/05/07 21:17
Sample ID:	SB4-70'	Date Analyzed:	11/05/07 21:17
Lab Samp ID:	J955-21	Dilution Factor:	.93
Lab File ID:	RKW152	Matrix :	SOIL
Ext Btch ID:	V006K13	% Moisture :	9.1
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.1	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	2.0
1,1,2-TRICHLOROETHANE	ND	5.1	2.0
1,1-DICHLOROETHANE	ND	5.1	2.0
1,1-DICHLOROETHENE	ND	5.1	2.0
1,2-DICHLOROETHANE	ND	5.1	2.0
1,2-DICHLOROPROPANE	ND	5.1	2.0
2-BUTANONE	ND	10	5.1
2-HEXANONE	ND	10	5.1
4-METHYL-2-PENTANONE	ND	10	5.1
ACETONE	ND	10	5.1
BENZENE	ND	5.1	2.0
BROMODICHLOROMETHANE	ND	5.1	2.0
BROMOFORM	ND	5.1	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.1	2.0
CARBON TETRACHLORIDE	ND	5.1	2.0
CHLOROBENZENE	ND	5.1	2.0
CHLOROETHANE	ND	5.1	2.0
CHLOROFORM	ND	5.1	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.1	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	2.0
DIBROMOCHLOROMETHANE	ND	5.1	2.0
ETHYLBENZENE	ND	5.1	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.1	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.1	2.0
STYRENE	ND	5.1	2.0
TETRACHLOROETHENE	ND	5.1	2.0
TOLUENE	ND	5.1	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	2.0
TRICHLOROETHENE	ND	5.1	2.0
VINYL CHLORIDE	ND	5.1	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	115	60-160
4-BROMOFLUOROBENZENE	109	70-150
TOLUENE-D8	109	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/30/07
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
Batch No.	: 07J955	Date Extracted:	11/07/07 18:39
Sample ID:	SB1-70'	Date Analyzed:	11/07/07 18:39
Lab Samp ID:	J955-22R	Dilution Factor:	.86
Lab File ID:	RKW220	Matrix :	SOIL
Ext Btch ID:	V006K19	% Moisture :	9.3
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.5	4.7
2-HEXANONE	ND	9.5	4.7
4-METHYL-2-PENTANONE	ND	9.5	4.7
ACETONE	ND	9.5	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.5	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.5	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.5	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	ND	9.5	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	ND	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	112	60-160
4-BROMOFLUOROBENZENE	109	70-150
TOLUENE-D8	103	70-140

QC SUMMARIES

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/05/07
Batch No.	: 07J955	Date Extracted:	11/05/07 14:09
Sample ID:	MBLK1S	Date Analyzed:	11/05/07 14:09
Lab Samp ID:	V006K13Q	Dilution Factor:	1
Lab File ID:	RKW141	Matrix :	SOIL
Ext Btch ID:	V006K13	% Moisture :	NA
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	70-140
4-BROMOFLUOROBENZENE	111	70-130
TOLUENE-D8	106	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	V006K13Q	V006K13L	V006K13C		
LAB FILE ID:	RKW141	RKW138	RKW139		
DATE EXTRACTED:	11/05/0714:09	11/05/0711:31	11/05/0712:50	DATE COLLECTED:	NA
DATE ANALYZED:	11/05/0714:09	11/05/0711:31	11/05/0712:50	DATE RECEIVED:	11/05/07
PREP. BATCH:	V006K13	V006K13	V006K13		
CALIB. REF:	RKW007	RKW007	RKW007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	20.8	104	20.0	19.2	96	8	60-130	50
Benzene	ND	20.0	22.9	114	20.0	20.7	104	10	70-130	50
Chlorobenzene	ND	20.0	22.4	112	20.0	20.4	102	9	70-130	50
Toluene	ND	20.0	22.7	114	20.0	20.3	101	11	70-130	50
Trichloroethene	ND	20.0	21.8	109	20.0	19.7	99	10	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	52.0	104	50.0	50.9	102	70-140
4-Bromofluorobenzene	50.0	52.5	105	50.0	51.1	102	70-130
Toluene-d8	50.0	53.7	107	50.0	52.6	105	70-130

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/06/07
Batch No.	: 07J955	Date Extracted:	11/06/07 02:28
Sample ID:	MBLK2S	Date Analyzed:	11/06/07 02:28
Lab Samp ID:	V006K15Q	Dilution Factor:	50
Lab File ID:	RKW160	Matrix :	SOIL
Ext Btch ID:	V006K15	% Moisture :	NA
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	250	100
1,1,2,2-TETRACHLOROETHANE	ND	250	100
1,1,2-TRICHLOROETHANE	ND	250	100
1,1-DICHLOROETHANE	ND	250	100
1,1-DICHLOROETHENE	ND	250	100
1,2-DICHLOROETHANE	ND	250	100
1,2-DICHLOROPROPANE	ND	250	100
2-BUTANONE	ND	500	250
2-HEXANONE	ND	500	250
4-METHYL-2-PENTANONE	ND	500	250
ACETONE	ND	500	250
BENZENE	ND	250	100
BROMODICHLOROMETHANE	ND	250	100
BROMOFORM	ND	250	100
BROMOMETHANE	ND	500	100
CARBON DISULFIDE	ND	250	100
CARBON TETRACHLORIDE	ND	250	100
CHLOROBENZENE	ND	250	100
CHLOROETHANE	ND	250	100
CHLOROFORM	ND	250	100
CHLOROMETHANE	ND	500	100
CIS-1,2-DICHLOROETHENE	ND	250	100
CIS-1,3-DICHLOROPROPENE	ND	250	100
DIBROMOCHLOROMETHANE	ND	250	100
ETHYLBENZENE	ND	250	100
M/P-XYLENES	ND	500	100
MTBE	ND	250	100
METHYLENE CHLORIDE	ND	500	100
O-XYLENE	ND	250	100
STYRENE	ND	250	100
TETRACHLOROETHENE	ND	250	100
TOLUENE	ND	250	100
TRANS-1,2-DICHLOROETHENE	ND	250	100
TRANS-1,3-DICHLOROPROPENE	ND	250	100
TRICHLOROETHENE	ND	250	100
VINYL CHLORIDE	ND	250	100

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	76	70-140
4-BROMOFLUOROBENZENE	80	70-130
TOLUENE-D8	77	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	50	50	50		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	V006K15Q	V006K15L	V006K15C		
LAB FILE ID:	RKW160	RKW157	RKW158		
DATE EXTRACTED:	11/06/0702:28	11/06/0700:31	11/06/0701:10	DATE COLLECTED:	NA
DATE ANALYZED:	11/06/0702:28	11/06/0700:31	11/06/0701:10	DATE RECEIVED:	11/06/07
PREP. BATCH:	V006K15	V006K15	V006K15		
CALIB. REF:	RKW007	RKW007	RKW007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	1000	945	95	1000	920	92	3	60-130	50
Benzene	ND	1000	1000	100	1000	964	96	4	70-130	50
Chlorobenzene	ND	1000	1020	102	1000	995	100	2	70-130	50
Toluene	ND	1000	1000	100	1000	994	99	1	70-130	50
Trichloroethene	ND	1000	964	96	1000	962	96	0	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	5000	4360	87	5000	4480	90	70-140
4-Bromofluorobenzene	5000	4430	89	5000	4650	93	70-130
Toluene-d8	5000	4510	90	5000	4620	92	70-130

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/06/07
Batch No.	: 07J955	Date Extracted:	11/06/07 12:16
Sample ID:	MBLK3S	Date Analyzed:	11/06/07 12:16
Lab Samp ID:	V006K16B	Dilution Factor:	1
Lab File ID:	RKW175	Matrix :	SOIL
Ext Btch ID:	V006K16	% Moisture :	NA
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	70-140
4-BROMOFLUOROBENZENE	111	70-130
TOLUENE-D8	105	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3S				
LAB SAMP ID:	V006K16B	V006K16L	V006K16C		
LAB FILE ID:	RKW175	RKW173	RKW174		
DATE EXTRACTED:	11/06/0712:16	11/06/0710:57	11/06/0711:36	DATE COLLECTED:	NA
DATE ANALYZED:	11/06/0712:16	11/06/0710:57	11/06/0711:36	DATE RECEIVED:	11/06/07
PREP. BATCH:	V006K16	V006K16	V006K16		
CALIB. REF:	RKW007	RKW007	RKW007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	19.5	97	20.0	19.9	100	2	60-130	50
Benzene	ND	20.0	21.0	105	20.0	21.2	106	1	70-130	50
Chlorobenzene	ND	20.0	21.3	106	20.0	21.5	107	1	70-130	50
Toluene	ND	20.0	20.7	103	20.0	21.5	108	4	70-130	50
Trichloroethene	ND	20.0	20.8	104	20.0	21.5	108	4	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	49.8	100	50.0	50.4	101	70-140
4-Bromofluorobenzene	50.0	52.2	104	50.0	53.2	106	70-130
Toluene-d8	50.0	52.3	105	50.0	52.5	105	70-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	9.8
DILUTION FACTOR:	.78	.72	1.0		
SAMPLE ID:	SB2-30'				
LAB SAMP ID:	J955-08R	J955-08U	J955-08V		
LAB FILE ID:	RKW177	RKW178	RKW179		
DATE EXTRACTED:	11/06/0713:32	11/06/0714:12	11/06/0714:51	DATE COLLECTED:	10/30/07
DATE ANALYZED:	11/06/0713:32	11/06/0714:12	11/06/0714:51	DATE RECEIVED:	10/31/07
PREP. BATCH:	V006K16	V006K16	V006K16		
CALIB. REF:	RKW007	RKW007	RKW007		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	39.9	43.7	110	55.4	52.9	95	15	50-140	50
Benzene	ND	39.9	44.0	110	55.4	53.9	97	13	60-150	50
Chlorobenzene	ND	39.9	45.5	114	55.4	54.9	99	14	70-130	50
Toluene	ND	39.9	44.9	112	55.4	54.9	99	12	70-140	50
Trichloroethene	2.05J	39.9	44.5	106	55.4	55.9	97	9	60-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	39.9	45.2	113	55.4	59.2	107	60-160
4-Bromofluorobenzene	39.9	39.0	98	55.4	54.6	99	70-150
Toluene-d8	39.9	41.1	103	55.4	56.9	103	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/07/07
Batch No.	: 07J955	Date Extracted:	11/07/07 13:29
Sample ID:	MBLK4S	Date Analyzed:	11/07/07 13:29
Lab Samp ID:	V006K19B	Dilution Factor:	1
Lab File ID:	RKW212	Matrix :	SOIL
Ext Btch ID:	V006K19	% Moisture :	NA
Calib. Ref.:	RKW007	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	70-140
4-BROMOFLUOROBENZENE	109	70-130
TOLUENE-D8	103	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK4S				
LAB SAMP ID:	V006K19B	V006K19L	V006K19C		
LAB FILE ID:	RKW212	RKW210	RKW211		
DATE EXTRACTED:	11/07/0713:29	11/07/0712:12	11/07/0712:51	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0713:29	11/07/0712:12	11/07/0712:51	DATE RECEIVED:	11/07/07
PREP. BATCH:	V006K19	V006K19	V006K19		
CALIB. REF:	RKW007	RKW007	RKW007		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	18.5	93	20.0	18.6	93	0	60-130	50
Benzene	ND	20.0	19.6	98	20.0	19.5	98	1	70-130	50
Chlorobenzene	ND	20.0	19.8	99	20.0	19.4	97	2	70-130	50
Toluene	ND	20.0	19.8	99	20.0	19.5	97	2	70-130	50
Trichloroethene	ND	20.0	19.0	95	20.0	19.2	96	1	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	52.2	104	50.0	51.2	102	70-140
4-Bromofluorobenzene	50.0	51.9	104	50.0	50.6	101	70-130
Toluene-d8	50.0	51.0	102	50.0	51.7	103	70-130

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW001
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J955
BFB Injection Date : 11/01/07
BFB Injection Time : 17:10
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.65
75	30.0 - 60.0% of mass 95	44.73
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.13
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	82.55
175	5.0 - 9.0% of mass 174	6.07(7.3)1
176	95.0 - 101.0% of mass 174	82.62(100.1)1
177	5.0 - 9.0% of mass 176	4.96(6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD02	V006K011	RKW002	11/01/07	17:58
2	VSTD010	V006K013	RKW004	11/01/07	19:15
3	VSTD020	V006K014	RKW005	11/01/07	19:53
4	VSTD05	V006K015	RKW006	11/01/07	20:32
5	VSTD050	V006K016	RKW007	11/01/07	21:11
6	VSTD080	V006K017	RKW008	11/01/07	21:51
7	VSTD100	V006K018	RKW009	11/01/07	22:29
8	VSTD200	V006K019	RKW010	11/01/07	23:08
9	VSTD300	V006K0110	RKW011	11/01/07	23:47
10	VSTD050	IV006K0101	RKW014	11/02/07	01:44

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T006
Beginning DateTime :11/01/07 19:15
Spike Units :PPB
IC File :RKW007

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :11/01/07 23:47
HPChem Method :V006K01

M	IDX	Parameters	2 17:58 RKW002	5 20:32 RKW006	10 19:15 RKW004	20 19:53 RKW005	50 21:11 RKW007	80 21:51 RKW008	100 22:29 RKW009	200 23:08 RKW010	300 23:47 RKW011	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	11.1907
	2	Dichlorodifluoromethane	0.440	0.427	0.395	0.429	0.379	0.326	0.325	0.333	0.326	0.375	13.09	3.5042
	3	Chloromethane	0.449	0.425	0.364	0.416	0.386	0.353	0.357	0.363	0.365	0.387	9.02	3.9420
	4	Vinyl chloride	0.345	0.390	0.336	0.365	0.337	0.296	0.293	0.267	0.260	0.321	13.91	4.1535
	5	Bromomethane	0.300	0.310	0.247	0.266	0.233	0.227	0.237	0.236	0.247	0.256	11.80	4.9596
	6	Chloroethane	0.176	0.211	0.197	0.213	0.198	0.185	0.188	0.186	0.184	0.193	6.50	5.0901
	7	Dichlorofluoromethane	0.532	0.715	0.654	0.670	0.594	0.591	0.586	0.580	0.580	0.611	9.25	5.1446
	8	Trichlorofluoromethane	0.593	0.600	0.545	0.610	0.538	0.468	0.470	0.482	0.477	0.531	11.16	5.5345
4	9	Acrolein	0.031	0.034	0.027	0.034	0.027	0.030	0.030	0.029	0.029	0.030	8.00	6.1830
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.241	0.270	0.270	0.244	0.221	0.219	0.220	0.220	0.223	0.236	8.98	6.2276
4	11	Acetone	0.130	0.125	0.096	0.124	0.094	0.095	0.091	0.088	0.090	0.104	16.62	6.2736
	12	1,1-Dichloroethene	0.491	0.625	0.572	0.577	0.507	0.495	0.495	0.481	0.481	0.525	9.99	6.5197
5	13	tert-Butyl alcohol	0.035	0.040	0.038	0.046	0.038	0.036	0.035	0.035	0.036	0.038	9.36	6.5864
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	------	0.236	0.200	0.235	0.275	0.291	0.299	0.307	0.283	0.266	14.21	7.0338
	17	Methylene chloride	0.700	0.651	0.528	0.524	0.447	0.434	0.433	0.426	0.422	0.507	20.55	7.2265
	18	Carbon disulfide	0.936	1.226	1.142	1.148	1.010	1.005	1.000	0.973	0.954	1.044	9.77	7.3449
5	19	Acrylonitrile	0.101	0.123	0.098	0.124	0.097	0.100	0.099	0.096	0.096	0.104	10.78	7.3709
	20	tert-Butyl methyl ether (MTBE)	0.734	0.896	0.834	0.878	0.782	0.748	0.735	0.743	0.717	0.785	8.56	7.4309
	21	trans-1,2-Dichloroethene	0.473	0.599	0.549	0.551	0.497	0.476	0.473	0.463	0.457	0.504	9.90	7.6780
	22	Isopropyl ether (DIPE)	0.975	1.213	1.189	1.232	1.102	1.069	1.072	1.057	1.008	1.102	8.24	8.0578
	23	Vinyl acetate	0.557	0.753	0.695	0.734	0.663	0.640	0.642	0.618	0.591	0.655	9.79	8.2083
	24	1,1-Dichloroethane	0.561	0.692	0.670	0.674	0.609	0.594	0.589	0.580	0.565	0.615	8.18	8.2836
	25	tert-Butyl ethyl ether (ETBE)	0.826	1.068	1.036	1.065	0.938	0.889	0.889	0.887	0.833	0.937	10.24	8.6392
4	26	2-Butanone	0.166	0.195	0.147	0.187	0.145	0.150	0.149	0.144	0.145	0.159	12.42	8.8299
	27	2,2-Dichloropropane	0.411	0.510	0.493	0.495	0.435	0.412	0.402	0.392	0.381	0.437	11.33	9.1067
	28	cis-1,2-Dichloroethene	0.527	0.634	0.605	0.615	0.540	0.516	0.514	0.500	0.487	0.549	9.95	9.1674
	29	Chloroform	0.571	0.712	0.675	0.683	0.609	0.583	0.576	0.571	0.556	0.615	9.53	9.4179
	30	Bromochloromethane	0.263	0.340	0.317	0.331	0.301	0.286	0.289	0.284	0.275	0.298	8.74	9.6940
	31	1,1,1-Trichloroethane	0.438	0.570	0.546	0.557	0.496	0.475	0.467	0.462	0.455	0.496	9.86	10.0819
	32	Cyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	tert-Amyl methyl ether (TAME)	0.691	0.884	0.926	0.903	0.858	0.821	0.810	0.800	0.723	0.824	9.62	10.4442
	34	1,2-Dichloroethane-d4	0.417	0.366	0.348	0.421	0.362	0.346	------	------	------	0.377	8.92	10.5777
	35	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	17.4102
	36	1,1-Dichloropropene	0.158	0.189	0.173	0.167	0.152	0.151	0.150	0.150	0.149	0.160	8.56	10.3323
	37	Carbon tetrachloride	0.354	0.480	0.454	0.449	0.404	0.386	0.380	0.377	0.373	0.406	10.78	10.5430
	38	1,2-Dichloroethane	0.422	0.537	0.538	0.533	0.477	0.448	0.437	0.433	0.420	0.472	10.81	10.7402
	39	Benzene	1.190	1.527	1.421	1.411	1.243	1.238	1.216	1.175	1.143	1.285	10.41	10.8232
	40	Trichloroethene	0.356	0.436	0.401	0.402	0.359	0.356	0.347	0.343	0.340	0.371	9.02	11.8722
	41	Methylcyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	42	1,2-Dichloropropane	0.265	0.387	0.364	0.376	0.338	0.333	0.329	0.319	0.315	0.336	10.91	12.1735
	43	Bromodichloromethane	0.376	0.502	0.493	0.492	0.453	0.449	0.437	0.436	0.423	0.451	8.91	12.6222
	44	Dibromomethane	0.188	0.219	0.219	0.227	0.200	0.192	0.185	0.184	0.179	0.199	8.94	12.7548
	45	2-Chloroethyl vinyl ether	------	0.096	0.094	0.109	0.105	0.105	0.106	0.118	0.124	0.107	9.24	13.0468
4	46	4-Methyl-2-pentanone	0.559	0.450	0.365	0.446	0.345	0.350	0.338	0.323	0.317	0.388	20.76	13.1103
	47	cis-1,3-Dichloropropene	0.393	0.493	0.486	0.518	0.481	0.463	0.466	0.474	0.459	0.470	7.23	13.6042
	48	Toluene-d8	1.160	1.150	1.067	1.236	1.076	1.063	------	------	------	1.125	6.14	14.1524
	49	Toluene	1.257	1.597	1.482	1.431	1.272	1.235	1.222	1.152	1.117	1.307	12.28	14.3154
	50	Ethyl methacrylate	0.305	0.450	0.420	0.466	0.426	0.411	0.408	0.411	0.406	0.412	10.89	14.4576
	51	trans-1,3-Dichloropropene	0.276	0.382	0.394	0.425	0.409	0.403	0.399	0.415	0.410	0.390	11.48	14.5831
4	52	2-Hexanone	0.185	0.274	0.199	0.275	0.220	0.231	0.226	0.219	0.218	0.228	13.31	14.8625
	53	1,1,2-Trichloroethane	0.245	0.320	0.316	0.304	0.277	0.269	0.268	0.264	0.256	0.280	9.64	14.9483
	54	1,3-Dichloropropane	0.443	0.574	0.529	0.535	0.480	0.460	0.457	0.454	0.439	0.486	9.95	15.4721
	55	Tetrachloroethene	0.289	0.397	0.346	0.334	0.294	0.294	0.289	0.279	0.277	0.311	12.90	15.7099
	56	Dibromochloromethane	0.235	0.317	0.302	0.329	0.314	0.300	0.299	0.310	0.301	0.301	8.75	16.1354
	57	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	58	1,2-Dibromoethane	0.201	0.274	0.240	0.255	0.204	0.205	0.201	0.208	0.204	0.221	12.48	16.5897

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	59	1-Chlorohexane	0.516	0.611	0.540	0.500	0.452	0.438	0.433	0.430	0.436	0.484	12.95	16.7888
	60	Chlorobenzene	0.858	1.097	0.969	0.982	0.861	0.851	0.832	0.795	0.775	0.891	11.65	17.5010
	61	1,1,1,2-Tetrachloroethane	0.259	0.343	0.319	0.338	0.308	0.300	0.290	0.290	0.278	0.303	9.03	17.5564
	62	Ethylbenzene	1.462	1.829	1.662	1.641	1.441	1.403	1.348	1.283	1.234	1.478	13.21	17.5665
2	63	m-Xylene & p-Xylene	1.146	1.463	1.296	1.267	1.096	1.060	1.018	0.954	------	1.162	14.47	17.7336
	64	o-Xylene	1.116	1.450	1.333	1.347	1.181	1.146	1.115	1.074	1.030	1.199	11.93	18.7513
	65	Styrene	0.744	1.059	1.009	1.026	0.926	0.914	0.891	0.874	0.846	0.921	10.72	18.8195
	66	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	0	23.9518
	67	Isopropylbenzene	3.006	3.727	3.352	3.296	2.871	2.822	2.781	2.683	2.615	3.017	12.19	19.5503
	68	Bromoform	0.255	0.384	0.399	0.428	0.412	0.394	0.400	0.420	0.423	0.391	13.53	19.6793
	69	1,1,2,2-Tetrachloroethane	0.759	0.976	0.872	0.934	0.830	0.809	0.812	0.791	0.788	0.841	8.62	19.9295
	70	4-Bromofluorobenzene	1.153	1.046	0.917	1.085	0.938	0.941	------	------	------	1.013	9.43	20.1748
	71	1,2,3-Trichloropropane	0.133	0.191	0.169	0.191	0.159	0.149	0.149	0.141	0.140	0.158	13.59	20.2874
	72	trans-1,4-Dichloro-2-butene	------	0.111	0.104	0.122	0.126	0.122	0.131	0.144	0.158	0.127	13.67	20.4020
	73	n-Propylbenzene	3.740	4.685	4.290	4.117	3.676	3.591	3.514	3.322	3.178	3.790	12.80	20.4927
	74	Bromobenzene	0.693	0.974	0.892	0.870	0.798	0.773	0.775	0.768	0.760	0.811	10.46	20.6905
	75	1,3,5-Trimethylbenzene	2.455	3.101	2.825	2.741	2.451	2.384	2.350	2.285	2.232	2.536	11.42	20.8575
	76	2-Chlorotoluene	2.328	2.823	2.477	2.401	2.144	2.084	2.024	1.930	1.919	2.237	13.32	20.9767
	77	4-Chlorotoluene	2.262	2.696	2.425	2.413	2.102	1.992	2.023	1.929	1.933	2.197	12.19	21.0692
	78	tert-Butylbenzene	2.289	2.998	2.805	2.531	2.420	2.378	2.340	2.223	2.199	2.465	11.02	21.7200
	79	1,2,4-Trimethylbenzene	2.246	2.950	2.734	2.737	2.456	2.379	2.351	2.258	2.221	2.481	10.57	21.8175
	80	sec-Butylbenzene	3.160	4.197	3.790	3.745	3.327	3.197	3.162	2.968	2.923	3.386	12.70	22.2314
	81	p-Isopropyltoluene	2.336	3.082	2.705	2.854	2.564	2.523	2.449	2.395	2.372	2.587	9.66	22.5408
	82	1,3-Dichlorobenzene	1.442	1.846	1.613	1.617	1.439	1.377	1.378	1.344	1.326	1.487	11.56	22.8544
	83	1,4-Dichlorobenzene	1.414	1.798	1.620	1.574	1.412	1.371	1.379	1.326	1.320	1.468	10.99	23.1019
	84	n-Butylbenzene	2.092	2.622	2.484	2.541	2.356	2.296	2.307	2.227	2.214	2.349	7.27	23.5319
	85	1,2-Dichlorobenzene	1.303	1.721	1.483	1.496	1.327	1.277	1.271	1.245	1.227	1.372	11.88	24.0180
	86	1,2-Dibromo-3-chloropropane	------	0.143	0.119	0.144	0.123	0.119	0.113	0.125	0.130	0.127	8.91	25.8936
	87	1,2,4-Trichlorobenzene	0.541	0.804	0.759	0.774	0.756	0.750	0.788	0.798	0.822	0.755	11.07	28.0546
	88	Hexachlorobutadiene	0.363	0.574	0.501	0.511	0.481	0.483	0.470	0.471	0.495	0.483	11.37	28.3622
	89	Naphthalene	------	1.550	1.258	1.510	1.499	1.540	1.567	1.590	1.609	1.515	7.28	28.7216
	90	1,2,3-Trichlorobenzene	0.466	0.790	0.673	0.686	0.675	0.672	0.687	0.709	0.703	0.674	12.76	29.3132

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.9 Max_%RSD : 20.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
11	Acetone	0.01085	0.09017	0.9982
17	Methylene chloride	0.01665	0.42380	0.9994
46	4-Methyl-2-pentanone	0.05079	0.32469	0.9983

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SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKW014.D Vial: 14
Acq On : 2 Nov 2007 1:44 am Operator: DN
Sample : IVO06K0101 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	50.000	44.267	11.5	84	0.00
3	P,T	Chloromethane	50.000	44.747	10.5	86	0.00
4	C,T	Vinyl chloride	50.000	45.145	9.7	83	0.00
5	T	Bromomethane	50.000	47.599	4.8	101	-0.01
6	T	Chloroethane	50.000	48.016	4.0	90	0.00
7	T	Dichlorofluoromethane	50.000	47.649	4.7	94	0.00
8	T	Trichlorofluoromethane	50.000	44.892	10.2	85	0.00
9	T	Acrolein	200.000	200.904	-0.5	106	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	44.069	11.9	91	0.00
11	T	Acetone	200.000	218.762	-9.4	104	0.00
12	CMT	1,1-Dichloroethene	50.000	45.855	8.3	91	0.00
13	T	tert-Butyl alcohol	250.000	237.275	5.1	90	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	50.000	0.000	100.0#	0	0.00
16	T	Iodomethane	50.000	48.226	3.5	90	0.00
17	T	Methylene chloride	50.000	51.611	-3.2	98	0.00
18	T	Carbon disulfide	50.000	46.736	6.5	93	0.00
19	T	Acrylonitrile	250.000	260.835	-4.3	107	0.00
20	T	tert-Butyl methyl ether (MT	50.000	49.608	0.8	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.254	7.5	90	0.00
22	T	Isopropyl ether (DIPE)	50.000	51.095	-2.2	98	0.00
23	T	Vinyl acetate	50.000	48.857	2.3	93	0.00
24	P,T	1,1-Dichloroethane	50.000	48.908	2.2	95	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	50.573	-1.1	97	0.00
26	T	2-Butanone	200.000	202.221	-1.1	106	0.00
27	T	2,2-Dichloropropane	50.000	45.063	9.9	87	0.00
28	T	cis-1,2-Dichloroethene	50.000	47.351	5.3	93	0.00
29	C,T	Chloroform	50.000	48.347	3.3	94	0.00
30	T	Bromochloromethane	50.000	50.195	-0.4	96	0.00
31	T	1,1,1-Trichloroethane	50.000	45.898	8.2	88	0.00
32	T	Cyclohexane	50.000	0.000	100.0#	0	0.00
33	T	tert-Amyl methyl ether (TAM	50.000	52.636	-5.3	97	0.00
34	S	1,2-Dichloroethane-d4	50.000	50.171	-0.3	100	0.00
35	I	CHLOROBENZENE-D5	50.000	50.000	0.0	97	0.00
36	T	1,1-Dichloropropene	50.000	46.306	7.4	94	0.00
37	T	Carbon tetrachloride	50.000	44.708	10.6	87	0.00
38	T	1,2-Dichloroethane	50.000	48.281	3.4	93	0.00
39	TM	Benzene	50.000	47.580	4.8	95	0.00
40	TM	Trichloroethene	50.000	46.743	6.5	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKW014.D Vial : 14
Acq On : 2 Nov 2007 1:44 am Operator : DN
Sample : IVO06K0101 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr : 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	50.000	0.000	100.0#	0	0.00
42	C,T	1,2-Dichloropropane	50.000	50.361	-0.7	97	0.00
43	T	Bromodichloromethane	50.000	49.338	1.3	95	0.00
44	T	Dibromomethane	50.000	48.827	2.3	94	0.00
45	T	2-Chloroethyl vinyl ether	50.000	49.800	0.4	98	-0.01
46	T	4-Methyl-2-pentanone	200.000	225.023	-12.5	106	0.00
47	T	cis-1,3-Dichloropropene	50.000	49.053	1.9	93	0.00
48	S	Toluene-d8	50.000	50.750	-1.5	103	0.00
49	CMT	Toluene	50.000	47.723	4.6	95	0.00
50	T	Ethyl methacrylate	50.000	50.293	-0.6	94	0.00
51	T	trans-1,3-Dichloropropene	50.000	50.014	-0.0	92	0.00
52	T	2-Hexanone	200.000	204.523	-2.3	103	0.00
53	T	1,1,2-Trichloroethane	50.000	48.628	2.7	95	0.00
54	T	1,3-Dichloropropane	50.000	47.532	4.9	93	0.00
55	T	Tetrachloroethene	50.000	44.817	10.4	92	0.00
56	T	Dibromochloromethane	50.000	50.367	-0.7	94	0.00
57	T	2-Ethyl-1-butanol	50.000	0.000	100.0#	0	0.00
58	T	1,2-Dibromoethane	50.000	45.000	10.0	95	0.00
59	T	1-Chlorohexane	50.000	42.181	15.6	87	0.00
60	PM	Chlorobenzene	50.000	47.755	4.5	96	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	49.126	1.7	93	0.00
62	C,T	Ethylbenzene	50.000	46.850	6.3	93	0.00
63	T	m-Xylene & p-Xylene	100.000	90.011	10.0	92	0.00
64	T	o-Xylene	50.000	47.567	4.9	93	0.00
65	T	Styrene	50.000	49.138	1.7	95	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	96	0.00
67	T	Isopropylbenzene	50.000	45.690	8.6	92	0.00
68	P,T	Bromoform	50.000	51.380	-2.8	94	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	48.724	2.6	95	0.00
70	S	4-Bromofluorobenzene	50.000	48.816	2.4	101	0.00
71	T	1,2,3-Trichloropropane	50.000	47.993	4.0	92	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	44.581	10.8	86	0.00
73	T	n-Propylbenzene	50.000	45.040	9.9	89	0.00
74	T	Bromobenzene	50.000	48.849	2.3	95	0.00
75	T	1,3,5-Trimethylbenzene	50.000	45.579	8.8	91	0.00
76	T	2-Chlorotoluene	50.000	45.077	9.8	90	-0.01
77	T	4-Chlorotoluene	50.000	45.088	9.8	91	0.00
78	T	tert-Butylbenzene	50.000	45.588	8.8	89	0.00
79	T	1,2,4-Trimethylbenzene	50.000	46.430	7.1	90	0.00
80	T	sec-Butylbenzene	50.000	43.945	12.1	86	0.00

(#) = Out of Range

2086

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K01\RKW014.D Vial: 14
Acq On : 2 Nov 2007 1:44 am Operator: DN
Sample : IVO06K0101 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	44.142	11.7	86	0.00
82	T	1,3-Dichlorobenzene	50.000	45.769	8.5	91	0.00
83	T	1,4-Dichlorobenzene	50.000	45.874	8.3	92	0.00
84	T	n-Butylbenzene	50.000	43.669	12.7	84	0.00
85	T	1,2-Dichlorobenzene	50.000	46.476	7.0	92	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	47.117	5.8	93	0.00
87	T	1,2,4-Trichlorobenzene	50.000	45.421	9.2	87	0.00
88	T	Hexachlorobutadiene	50.000	43.172	13.7	83	0.00
89	T	Naphthalene	50.000	45.751	8.5	89	0.00
90	T	1,2,3-Trichlorobenzene	50.000	45.734	8.5	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

11/8/07

2087

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW135
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J955
BFB Injection Date : 11/05/07
BFB Injection Time : 09:34
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.66
75	30.0 - 60.0% of mass 95	50.36
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.61
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	81.46
175	5.0 - 9.0% of mass 174	6.56(8.1)1
176	95.0 - 101.0% of mass 174	82.01(100.7)1
177	5.0 - 9.0% of mass 176	4.22(5.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV006K0114	RKW137	11/05/07	10:52
2	MBLK1S	V006K13Q	RKW141	11/05/07	14:09
3	LCS1S	V006K13L	RKW138	11/05/07	11:31
4	LCD1S	V006K13C	RKW139	11/05/07	12:50
5	SB2-15'	J955-05	RKW147	11/05/07	18:02
6	SB4-60'	J955-18	RKW149	11/05/07	19:20
7	SB4-65'	J955-20	RKW151	11/05/07	20:37
8	SB4-70'	J955-21	RKW152	11/05/07	21:17

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RKW007
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J955
Date Analyzed: 11/01/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2880578	11.19	2782519	17.41	1331088	23.95
	UPPER LIMIT	5761156	11.69	5565038	17.91	2662176	24.45
	LOWER LIMIT	1440289	10.69	1391260	16.91	665544	23.45
	SAMPLE ID						
1	VSTD050	3099306	11.18	2921317	17.40	1396179	23.94
2	MBLK1S	3428106	11.19	3200182	17.41	1349547	23.95
3	LCS1S	2832324	11.18	2621986	17.41	1229230	23.94
4	LCD1S	3314405	11.18	3139198	17.41	1486921	23.94
5	SB2-15'	2432825	11.20	2117808	17.41	771576	23.95
6	SB4-60'	2405250	11.20	2225375	17.41	922916	23.95
7	SB4-65'	2391189	11.20	2195518	17.41	880272	23.95
8	SB4-70'	2318459	11.20	2124004	17.41	873397	23.95

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW137.D Vial: 3
Acq On : 5 Nov 2007 10:52 am Operator: DN
Sample : CVO06K0114 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	108	-0.01
2	T	Dichlorodifluoromethane	50.000	54.326	-8.7	116	0.00
3	P,T	Chloromethane	50.000	54.741	-9.5	118	-0.01
4	C,T	Vinyl chloride	50.000	54.625	-9.3	112	0.00
5	T	Bromomethane	50.000	50.936	-1.9	121	-0.01
6	T	Chloroethane	50.000	56.306	-12.6	118	0.00
7	T	Dichlorofluoromethane	50.000	46.302	7.4	103	0.00
8	T	Trichlorofluoromethane	50.000	54.419	-8.8	116	0.00
9	T	Acrolein	200.000	191.177	4.4	113	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	41.429	17.1	96	0.00
11	T	Acetone	200.000	208.952	-4.5	111	0.00
12	CMT	1,1-Dichloroethene	50.000	45.759	8.5	102	0.00
13	T	tert-Butyl alcohol	250.000	244.822	2.1	104	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	50.000	0.000	100.0#	0	0.00
16	T	Iodomethane	50.000	60.143	-20.3#	125	0.00
17	T	Methylene chloride	50.000	48.039	3.9	102	0.00
18	T	Carbon disulfide	50.000	45.504	9.0	101	0.00
19	T	Acrylonitrile	250.000	252.113	-0.8	116	0.00
20	T	tert-Butyl methyl ether (MT	50.000	47.161	5.7	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.982	8.0	100	0.00
22	T	Isopropyl ether (DIPE)	50.000	48.587	2.8	105	0.00
23	T	Vinyl acetate	50.000	49.785	0.4	106	0.00
24	P,T	1,1-Dichloroethane	50.000	47.884	4.2	104	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	47.795	4.4	103	0.00
26	T	2-Butanone	200.000	194.909	2.5	115	0.00
27	T	2,2-Dichloropropane	50.000	47.828	4.3	103	0.00
28	T	cis-1,2-Dichloroethene	50.000	46.069	7.9	101	0.00
29	C,T	Chloroform	50.000	46.736	6.5	102	0.00
30	T	Bromochloromethane	50.000	47.645	4.7	102	-0.01
31	T	1,1,1-Trichloroethane	50.000	45.571	8.9	98	0.00
32	T	Cyclohexane	50.000	0.000	100.0#	0	0.00
33	T	tert-Amyl methyl ether (TAM	50.000	49.250	1.5	102	0.00
34	S	1,2-Dichloroethane-d4	50.000	49.673	0.7	111	0.00
35	I	CHLOROBENZENE-D5	50.000	50.000	0.0	105	-0.01
36	T	1,1-Dichloropropene	50.000	45.135	9.7	99	0.00
37	T	Carbon tetrachloride	50.000	46.413	7.2	98	0.00
38	T	1,2-Dichloroethane	50.000	47.446	5.1	99	0.00
39	TM	Benzene	50.000	47.928	4.1	104	0.00
40	TM	Trichloroethene	50.000	46.701	6.6	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW137.D Vial: 3
Acq On : 5 Nov 2007 10:52 am Operator: DN
Sample : CVO06K0114 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	50.000	0.000	100.0#	0	0.00
42	C,T	1,2-Dichloropropane	50.000	50.016	-0.0	105	0.00
43	T	Bromodichloromethane	50.000	48.879	2.2	102	0.00
44	T	Dibromomethane	50.000	49.539	0.9	103	0.00
45	T	2-Chloroethyl vinyl ether	50.000	53.813	-7.6	115	-0.01
46	T	4-Methyl-2-pentanone	200.000	226.413	-13.2	116	0.00
47	T	cis-1,3-Dichloropropene	50.000	49.887	0.2	102	0.00
48	S	Toluene-d8	50.000	52.859	-5.7	116	0.00
49	CMT	Toluene	50.000	47.449	5.1	102	0.00
50	T	Ethyl methacrylate	50.000	50.258	-0.5	102	0.00
51	T	trans-1,3-Dichloropropene	50.000	50.794	-1.6	102	0.00
52	T	2-Hexanone	200.000	209.753	-4.9	114	0.00
53	T	1,1,2-Trichloroethane	50.000	48.607	2.8	103	0.00
54	T	1,3-Dichloropropane	50.000	48.440	3.1	103	0.00
55	T	Tetrachloroethene	50.000	43.946	12.1	98	0.00
56	T	Dibromochloromethane	50.000	50.685	-1.4	102	0.00
57	T	2-Ethyl-1-butanol	50.000	0.000	100.0#	0	0.00
58	T	1,2-Dibromoethane	50.000	46.996	6.0	107	0.00
59	T	1-Chlorohexane	50.000	42.596	14.8	96	0.00
60	PM	Chlorobenzene	50.000	47.642	4.7	104	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	49.581	0.8	102	0.00
62	C,T	Ethylbenzene	50.000	46.035	7.9	99	0.00
63	T	m-Xylene & p-Xylene	100.000	88.891	11.1	99	0.00
64	T	o-Xylene	50.000	47.013	6.0	100	0.00
65	T	Styrene	50.000	49.902	0.2	104	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	105	-0.01
67	T	Isopropylbenzene	50.000	45.797	8.4	101	0.00
68	P,T	Bromoform	50.000	51.603	-3.2	103	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	50.066	-0.1	106	0.00
70	S	4-Bromofluorobenzene	50.000	51.374	-2.7	116	0.00
71	T	1,2,3-Trichloropropane	50.000	48.833	2.3	102	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	50.429	-0.9	106	-0.01
73	T	n-Propylbenzene	50.000	45.599	8.8	99	0.00
74	T	Bromobenzene	50.000	47.649	4.7	102	0.00
75	T	1,3,5-Trimethylbenzene	50.000	45.131	9.7	98	0.00
76	T	2-Chlorotoluene	50.000	43.534	12.9	95	-0.01
77	T	4-Chlorotoluene	50.000	47.137	5.7	103	-0.01
78	T	tert-Butylbenzene	50.000	45.246	9.5	97	-0.01
79	T	1,2,4-Trimethylbenzene	50.000	46.370	7.3	98	0.00
80	T	sec-Butylbenzene	50.000	43.486	13.0	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW137.D Vial: 3
Acq On : 5 Nov 2007 10:52 am Operator: DN
Sample : CVO06K0114 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	44.707	10.6	95	0.00
82	T	1,3-Dichlorobenzene	50.000	46.100	7.8	100	0.00
83	T	1,4-Dichlorobenzene	50.000	46.512	7.0	101	0.00
84	T	n-Butylbenzene	50.000	43.710	12.6	91	0.00
85	T	1,2-Dichlorobenzene	50.000	47.518	5.0	103	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	53.926	-7.9	117	0.00
87	T	1,2,4-Trichlorobenzene	50.000	47.062	5.9	99	0.00
88	T	Hexachlorobutadiene	50.000	40.818	18.4	86	0.00
89	T	Naphthalene	50.000	49.433	1.1	105	0.00
90	T	1,2,3-Trichlorobenzene	50.000	47.981	4.0	100	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW137.D Vial: 3
Acq On : 5 Nov 2007 10:52 am Operator: DN
Sample : CVO06K0114 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	108	-0.01
2	T	Dichlorodifluoromethane	0.375	0.408	-8.8	116	0.00
3	P,T	Chloromethane	0.387	0.423	-9.3	118	-0.01
4	C,T	Vinyl chloride	0.321	0.351	-9.3	112	0.00
5	T	Bromomethane	0.256	0.261	-2.0	121	-0.01
6	T	Chloroethane	0.193	0.218	-13.0	118	0.00
7	T	Dichlorofluoromethane	0.611	0.566	7.4	103	0.00
8	T	Trichlorofluoromethane	0.531	0.578	-8.9	116	0.00
9	T	Acrolein	0.030	0.029	3.3	113	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.236	0.196	16.9	96	0.00
11	T	Acetone	0.104	0.097	6.7	111	0.00
12	CMT	1,1-Dichloroethene	0.525	0.480	8.6	102	0.00
13	T	tert-Butyl alcohol	0.038	0.037	2.6	104	0.00
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.266	0.320	-20.3#	125	0.00
17	T	Methylene chloride	0.507	0.424	16.4	102	0.00
18	T	Carbon disulfide	1.044	0.950	9.0	101	0.00
19	T	Acrylonitrile	0.104	0.105	-1.0	116	0.00
20	T	tert-Butyl methyl ether (MT	0.785	0.741	5.6	102	0.00
21	T	trans-1,2-Dichloroethene	0.504	0.464	7.9	100	0.00
22	T	Isopropyl ether (DIPE)	1.102	1.071	2.8	105	0.00
23	T	Vinyl acetate	0.655	0.652	0.5	106	0.00
24	P,T	1,1-Dichloroethane	0.615	0.589	4.2	104	0.00
25	T	tert-Butyl ethyl ether (ETB	0.937	0.895	4.5	103	0.00
26	T	2-Butanone	0.159	0.155	2.5	115	0.00
27	T	2,2-Dichloropropane	0.437	0.418	4.3	103	0.00
28	T	cis-1,2-Dichloroethene	0.549	0.506	7.8	101	0.00
29	C,T	Chloroform	0.615	0.575	6.5	102	0.00
30	T	Bromochloromethane	0.298	0.284	4.7	102	-0.01
31	T	1,1,1-Trichloroethane	0.496	0.452	8.9	98	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.824	0.812	1.5	102	0.00
34	S	1,2-Dichloroethane-d4	0.377	0.374	0.8	111	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	105	-0.01
36	T	1,1-Dichloropropene	0.160	0.144	10.0	99	0.00
37	T	Carbon tetrachloride	0.406	0.377	7.1	98	0.00
38	T	1,2-Dichloroethane	0.472	0.448	5.1	99	0.00
39	TM	Benzene	1.285	1.232	4.1	104	0.00
40	TM	Trichloroethene	0.371	0.347	6.5	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW137.D Vial: 3
Acq On : 5 Nov 2007 10:52 am Operator: DN
Sample : CVO06K0114 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.336	0.336	0.0	105	0.00
43	T	Bromodichloromethane	0.451	0.441	2.2	102	0.00
44	T	Dibromomethane	0.199	0.197	1.0	103	0.00
45	T	2-Chloroethyl vinyl ether	0.107	0.115	-7.5	115	-0.01
46	T	4-Methyl-2-pentanone	0.388	0.380	2.1	116	0.00
47	T	cis-1,3-Dichloropropene	0.470	0.469	0.2	102	0.00
48	S	Toluene-d8	1.125	1.190	-5.8	116	0.00
49	CMT	Toluene	1.307	1.241	5.0	102	0.00
50	T	Ethyl methacrylate	0.412	0.414	-0.5	102	0.00
51	T	trans-1,3-Dichloropropene	0.390	0.396	-1.5	102	0.00
52	T	2-Hexanone	0.228	0.239	-4.8	114	0.00
53	T	1,1,2-Trichloroethane	0.280	0.272	2.9	103	0.00
54	T	1,3-Dichloropropane	0.486	0.470	3.3	103	0.00
55	T	Tetrachloroethene	0.311	0.273	12.2	98	0.00
56	T	Dibromochloromethane	0.301	0.305	-1.3	102	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.221	0.208	5.9	107	0.00
59	T	1-Chlorohexane	0.484	0.412	14.9	96	0.00
60	PM	Chlorobenzene	0.891	0.849	4.7	104	0.00
61	T	1,1,1,2-Tetrachloroethane	0.303	0.300	1.0	102	0.00
62	C,T	Ethylbenzene	1.478	1.361	7.9	99	0.00
63	T	m-Xylene & p-Xylene	1.162	1.033	11.1	99	0.00
64	T	o-Xylene	1.199	1.127	6.0	100	0.00
65	T	Styrene	0.921	0.919	0.2	104	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	105	-0.01
67	T	Isopropylbenzene	3.017	2.763	8.4	101	0.00
68	P,T	Bromoform	0.391	0.403	-3.1	103	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.841	0.842	-0.1	106	0.00
70	S	4-Bromofluorobenzene	1.013	1.041	-2.8	116	0.00
71	T	1,2,3-Trichloropropane	0.158	0.154	2.5	102	0.00
72	T	trans-1,4-Dichloro-2-butene	0.127	0.128	-0.8	106	-0.01
73	T	n-Propylbenzene	3.790	3.457	8.8	99	0.00
74	T	Bromobenzene	0.811	0.773	4.7	102	0.00
75	T	1,3,5-Trimethylbenzene	2.536	2.289	9.7	98	0.00
76	T	2-Chlorotoluene	2.237	1.947	13.0	95	-0.01
77	T	4-Chlorotoluene	2.197	2.071	5.7	103	-0.01
78	T	tert-Butylbenzene	2.465	2.231	9.5	97	-0.01
79	T	1,2,4-Trimethylbenzene	2.481	2.301	7.3	98	0.00
80	T	sec-Butylbenzene	3.386	2.944	13.1	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW137.D Vial: 3
Acq On : 5 Nov 2007 10:52 am Operator: DN
Sample : CVO06K0114 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	2.587	2.313	10.6	95	0.00
82	T	1,3-Dichlorobenzene	1.487	1.371	7.8	100	0.00
83	T	1,4-Dichlorobenzene	1.468	1.366	6.9	101	0.00
84	T	n-Butylbenzene	2.349	2.053	12.6	91	0.00
85	T	1,2-Dichlorobenzene	1.372	1.304	5.0	103	0.00
86	T	1,2-Dibromo-3-chloropropane	0.127	0.137	-7.9	117	0.00
87	T	1,2,4-Trichlorobenzene	0.755	0.710	6.0	99	0.00
88	T	Hexachlorobutadiene	0.483	0.394	18.4	86	0.00
89	T	Naphthalene	1.515	1.498	1.1	105	0.00
90	T	1,2,3-Trichlorobenzene	0.674	0.646	4.2	100	0.00

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW153
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J955
BFB Injection Date : 11/05/07
BFB Injection Time : 21:55
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.08
75	30.0 - 60.0% of mass 95	43.56
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	5.84
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	86.47
175	5.0 - 9.0% of mass 174	6.35(7.3)1
176	95.0 - 101.0% of mass 174	83.25(96.3)1
177	5.0 - 9.0% of mass 176	4.19(5.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV006K0116	RKW156	11/05/07	23:52
2	MBLK2S	V006K15Q	RKW160	11/06/07	02:28
3	LCS2S	V006K15L	RKW157	11/06/07	00:31
4	LCD2S	V006K15C	RKW158	11/06/07	01:10
5	SB2-40'DL	J955-10T	RKW161	11/06/07	03:07
6	SB2-45'DL	J955-11I	RKW162	11/06/07	03:46
7	SB2-45'DL	J955-11T	RKW163	11/06/07	04:25
8	SB2-60'DL	J955-14T	RKW164	11/06/07	05:05
9	SB2-65'DL	J955-15T	RKW165	11/06/07	05:44

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RKW007
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J955
Date Analyzed: 11/01/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2880578	11.19	2782519	17.41	1331088	23.95
	UPPER LIMIT	5761156	11.69	5565038	17.91	2662176	24.45
	LOWER LIMIT	1440289	10.69	1391260	16.91	665544	23.45
	SAMPLE ID						
1	VSTD050	3326725	11.20	3127134	17.41	1535086	23.95
2	MBLK2S	3502688	11.20	3343068	17.41	1555815	23.95
3	LCS2S	3465031	11.19	3267984	17.41	1607684	23.95
4	LCD2S	3488287	11.20	3341787	17.41	1585774	23.95
5	SB2-40'DL	3119448	11.20	2991706	17.41	1431265	23.95
6	SB2-45'DL	3147415	11.20	2967321	17.41	1341601	23.95
7	SB2-45'DL	2714654	11.20	2645577	17.41	1292146	23.95
8	SB2-60'DL	2923262	11.20	2795066	17.41	1337647	23.95
9	SB2-65'DL	2857541	11.19	2734516	17.41	1311267	23.95

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW156.D Vial: 4
Acq On : 5 Nov 2007 11:52 pm Operator: DN
Sample : CVO06K0116 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	115	0.00
2	T	Dichlorodifluoromethane	50.000	44.725	10.5	102	0.00
3	P,T	Chloromethane	50.000	46.568	6.9	108	0.00
4	C,T	Vinyl chloride	50.000	45.646	8.7	100	0.00
5	T	Bromomethane	50.000	44.371	11.3	113	0.00
6	T	Chloroethane	50.000	47.158	5.7	106	0.00
7	T	Dichlorofluoromethane	50.000	48.135	3.7	114	0.00
8	T	Trichlorofluoromethane	50.000	45.497	9.0	104	0.00
9	T	Acrolein	200.000	163.304	18.3	104	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	45.817	8.4	113	0.00
11	T	Acetone	200.000	192.928	3.5	110	0.00
12	CMT	1,1-Dichloroethene	50.000	46.144	7.7	110	0.00
13	T	tert-Butyl alcohol	250.000	242.275	3.1	110	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	50.000	0.000	100.0#	0	0.00
16	T	Iodomethane	50.000	58.890	-17.8	131	0.00
17	T	Methylene chloride	50.000	50.431	-0.9	115	0.00
18	T	Carbon disulfide	50.000	45.833	8.3	109	0.00
19	T	Acrylonitrile	250.000	235.684	5.7	117	0.00
20	T	tert-Butyl methyl ether (MT	50.000	49.656	0.7	115	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.071	5.9	110	0.00
22	T	Isopropyl ether (DIPE)	50.000	50.713	-1.4	117	0.00
23	T	Vinyl acetate	50.000	47.397	5.2	108	0.00
24	P,T	1,1-Dichloroethane	50.000	48.936	2.1	114	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	50.162	-0.3	116	0.00
26	T	2-Butanone	200.000	173.357	13.3	109	0.00
27	T	2,2-Dichloropropane	50.000	46.241	7.5	107	0.00
28	T	cis-1,2-Dichloroethene	50.000	49.460	1.1	116	0.00
29	C,T	Chloroform	50.000	48.776	2.4	114	0.00
30	T	Bromochloromethane	50.000	50.014	-0.0	115	0.00
31	T	1,1,1-Trichloroethane	50.000	46.928	6.1	108	0.00
32	T	Cyclohexane	50.000	0.000	100.0#	0	0.00
33	T	tert-Amyl methyl ether (TAM	50.000	52.805	-5.6	117	0.00
34	S	1,2-Dichloroethane-d4	50.000	50.258	-0.5	121	0.00
35	I	CHLOROBENZENE-D5	50.000	50.000	0.0	112	0.00
36	T	1,1-Dichloropropene	50.000	47.936	4.1	113	0.00
37	T	Carbon tetrachloride	50.000	48.521	3.0	110	0.00
38	T	1,2-Dichloroethane	50.000	50.208	-0.4	112	0.00
39	TM	Benzene	50.000	50.094	-0.2	116	0.00
40	TM	Trichloroethene	50.000	49.296	1.4	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW156.D Vial: 4
Acq On : 5 Nov 2007 11:52 pm Operator: DN
Sample : CVO06K0116 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	50.000	0.000	100.0#	0	0.00
42	C,T	1,2-Dichloropropane	50.000	52.625	-5.3	118	0.00
43	T	Bromodichloromethane	50.000	52.125	-4.3	117	0.00
44	T	Dibromomethane	50.000	51.158	-2.3	114	0.00
45	T	2-Chloroethyl vinyl ether	50.000	55.853	-11.7	128	-0.01
46	T	4-Methyl-2-pentanone	200.000	214.022	-7.0	117	0.00
47	T	cis-1,3-Dichloropropene	50.000	53.736	-7.5	118	0.00
48	S	Toluene-d8	50.000	53.016	-6.0	125	0.00
49	CMT	Toluene	50.000	50.073	-0.1	116	0.00
50	T	Ethyl methacrylate	50.000	52.910	-5.8	115	0.00
51	T	trans-1,3-Dichloropropene	50.000	55.520	-11.0	119	0.00
52	T	2-Hexanone	200.000	191.718	4.1	112	0.00
53	T	1,1,2-Trichloroethane	50.000	52.303	-4.6	119	0.00
54	T	1,3-Dichloropropane	50.000	51.553	-3.1	117	0.00
55	T	Tetrachloroethene	50.000	48.864	2.3	116	0.00
56	T	Dibromochloromethane	50.000	55.700	-11.4	120	0.00
57	T	2-Ethyl-1-butanol	50.000	0.000	100.0#	0	0.00
58	T	1,2-Dibromoethane	50.000	52.778	-5.6	129	0.00
59	T	1-Chlorohexane	50.000	49.085	1.8	118	0.00
60	PM	Chlorobenzene	50.000	50.795	-1.6	118	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	53.361	-6.7	118	0.00
62	C,T	Ethylbenzene	50.000	49.724	0.6	115	0.00
63	T	m-Xylene & p-Xylene	100.000	96.257	3.7	115	0.00
64	T	o-Xylene	50.000	50.334	-0.7	115	0.00
65	T	Styrene	50.000	52.880	-5.8	118	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	115	0.00
67	T	Isopropylbenzene	50.000	48.247	3.5	117	0.00
68	P,T	Bromoform	50.000	55.650	-11.3	122	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	51.893	-3.8	121	0.00
70	S	4-Bromofluorobenzene	50.000	51.772	-3.5	129	0.00
71	T	1,2,3-Trichloropropane	50.000	49.646	0.7	114	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	53.751	-7.5	125	0.00
73	T	n-Propylbenzene	50.000	48.399	3.2	115	0.00
74	T	Bromobenzene	50.000	49.749	0.5	117	0.00
75	T	1,3,5-Trimethylbenzene	50.000	48.232	3.5	115	0.00
76	T	2-Chlorotoluene	50.000	48.485	3.0	117	0.00
77	T	4-Chlorotoluene	50.000	48.324	3.4	117	0.00
78	T	tert-Butylbenzene	50.000	50.449	-0.9	119	0.00
79	T	1,2,4-Trimethylbenzene	50.000	49.831	0.3	116	0.00
80	T	sec-Butylbenzene	50.000	49.326	1.3	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW156.D Vial: 4
Acq On : 5 Nov 2007 11:52 pm Operator: DN
Sample : CVO06K0116 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	51.090	-2.2	119	0.00
82	T	1,3-Dichlorobenzene	50.000	49.946	0.1	119	0.00
83	T	1,4-Dichlorobenzene	50.000	50.113	-0.2	120	0.00
84	T	n-Butylbenzene	50.000	50.040	-0.1	115	0.00
85	T	1,2-Dichlorobenzene	50.000	50.225	-0.5	120	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	56.475	-13.0	134	0.00
87	T	1,2,4-Trichlorobenzene	50.000	52.868	-5.7	122	0.00
88	T	Hexachlorobutadiene	50.000	51.309	-2.6	119	0.00
89	T	Naphthalene	50.000	52.073	-4.1	121	0.00
90	T	1,2,3-Trichlorobenzene	50.000	52.905	-5.8	122	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW156.D Vial: 4
Acq On : 5 Nov 2007 11:52 pm Operator: DN
Sample : CVO06K0116 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	115	0.00
2	T	Dichlorodifluoromethane	0.375	0.336	10.4	102	0.00
3	P,T	Chloromethane	0.387	0.360	7.0	108	0.00
4	C,T	Vinyl chloride	0.321	0.293	8.7	100	0.00
5	T	Bromomethane	0.256	0.227	11.3	113	0.00
6	T	Chloroethane	0.193	0.182	5.7	106	0.00
7	T	Dichlorofluoromethane	0.611	0.589	3.6	114	0.00
8	T	Trichlorofluoromethane	0.531	0.484	8.9	104	0.00
9	T	Acrolein	0.030	0.025	16.7	104	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.236	0.217	8.1	113	0.00
11	T	Acetone	0.104	0.090	13.5	110	0.00
12	CMT	1,1-Dichloroethene	0.525	0.484	7.8	110	0.00
13	T	tert-Butyl alcohol	0.038	0.037	2.6	110	0.00
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.266	0.313	-17.7	131	0.00
17	T	Methylene chloride	0.507	0.444	12.4	115	0.00
18	T	Carbon disulfide	1.044	0.957	8.3	109	0.00
19	T	Acrylonitrile	0.104	0.098	5.8	117	0.00
20	T	tert-Butyl methyl ether (MT	0.785	0.780	0.6	115	0.00
21	T	trans-1,2-Dichloroethene	0.504	0.475	5.8	110	0.00
22	T	Isopropyl ether (DIPE)	1.102	1.117	-1.4	117	0.00
23	T	Vinyl acetate	0.655	0.621	5.2	108	0.00
24	P,T	1,1-Dichloroethane	0.615	0.602	2.1	114	0.00
25	T	tert-Butyl ethyl ether (ETB	0.937	0.940	-0.3	116	0.00
26	T	2-Butanone	0.159	0.137	13.8	109	0.00
27	T	2,2-Dichloropropane	0.437	0.404	7.6	107	0.00
28	T	cis-1,2-Dichloroethene	0.549	0.543	1.1	116	0.00
29	C,T	Chloroform	0.615	0.600	2.4	114	0.00
30	T	Bromochloromethane	0.298	0.299	-0.3	115	0.00
31	T	1,1,1-Trichloroethane	0.496	0.466	6.0	108	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.824	0.870	-5.6	117	0.00
34	S	1,2-Dichloroethane-d4	0.377	0.378	-0.3	121	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	112	0.00
36	T	1,1-Dichloropropene	0.160	0.153	4.4	113	0.00
37	T	Carbon tetrachloride	0.406	0.394	3.0	110	0.00
38	T	1,2-Dichloroethane	0.472	0.474	-0.4	112	0.00
39	TM	Benzene	1.285	1.287	-0.2	116	0.00
40	TM	Trichloroethene	0.371	0.366	1.3	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW156.D Vial: 4
Acq On : 5 Nov 2007 11:52 pm Operator: DN
Sample : CVO06K0116 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.336	0.354	-5.4	118	0.00
43	T	Bromodichloromethane	0.451	0.470	-4.2	117	0.00
44	T	Dibromomethane	0.199	0.204	-2.5	114	0.00
45	T	2-Chloroethyl vinyl ether	0.107	0.120	-12.1	128	-0.01
46	T	4-Methyl-2-pentanone	0.388	0.360	7.2	117	0.00
47	T	cis-1,3-Dichloropropene	0.470	0.505	-7.4	118	0.00
48	S	Toluene-d8	1.125	1.193	-6.0	125	0.00
49	CMT	Toluene	1.307	1.309	-0.2	116	0.00
50	T	Ethyl methacrylate	0.412	0.435	-5.6	115	0.00
51	T	trans-1,3-Dichloropropene	0.390	0.433	-11.0	119	0.00
52	T	2-Hexanone	0.228	0.218	4.4	112	0.00
53	T	1,1,2-Trichloroethane	0.280	0.293	-4.6	119	0.00
54	T	1,3-Dichloropropane	0.486	0.501	-3.1	117	0.00
55	T	Tetrachloroethene	0.311	0.304	2.3	116	0.00
56	T	Dibromochloromethane	0.301	0.335	-11.3	120	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.221	0.234	-5.9	129	0.00
59	T	1-Chlorohexane	0.484	0.475	1.9	118	0.00
60	PM	Chlorobenzene	0.891	0.905	-1.6	118	0.00
61	T	1,1,1,2-Tetrachloroethane	0.303	0.323	-6.6	118	0.00
62	C,T	Ethylbenzene	1.478	1.470	0.5	115	0.00
63	T	m-Xylene & p-Xylene	1.162	1.119	3.7	115	0.00
64	T	o-Xylene	1.199	1.207	-0.7	115	0.00
65	T	Styrene	0.921	0.974	-5.8	118	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	115	0.00
67	T	Isopropylbenzene	3.017	2.911	3.5	117	0.00
68	P,T	Bromoform	0.391	0.435	-11.3	122	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.841	0.873	-3.8	121	0.00
70	S	4-Bromofluorobenzene	1.013	1.049	-3.6	129	0.00
71	T	1,2,3-Trichloropropane	0.158	0.157	0.6	114	0.00
72	T	trans-1,4-Dichloro-2-butene	0.127	0.137	-7.9	125	0.00
73	T	n-Propylbenzene	3.790	3.669	3.2	115	0.00
74	T	Bromobenzene	0.811	0.807	0.5	117	0.00
75	T	1,3,5-Trimethylbenzene	2.536	2.446	3.5	115	0.00
76	T	2-Chlorotoluene	2.237	2.169	3.0	117	0.00
77	T	4-Chlorotoluene	2.197	2.124	3.3	117	0.00
78	T	tert-Butylbenzene	2.465	2.487	-0.9	119	0.00
79	T	1,2,4-Trimethylbenzene	2.481	2.473	0.3	116	0.00
80	T	sec-Butylbenzene	3.386	3.340	1.4	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K05\RKW156.D Vial: 4
Acq On : 5 Nov 2007 11:52 pm Operator: DN
Sample : CVO06K0116 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	2.587	2.643	-2.2	119	0.00
82	T	1,3-Dichlorobenzene	1.487	1.485	0.1	119	0.00
83	T	1,4-Dichlorobenzene	1.468	1.471	-0.2	120	0.00
84	T	n-Butylbenzene	2.349	2.351	-0.1	115	0.00
85	T	1,2-Dichlorobenzene	1.372	1.378	-0.4	120	0.00
86	T	1,2-Dibromo-3-chloropropane	0.127	0.144	-13.4	134	0.00
87	T	1,2,4-Trichlorobenzene	0.755	0.798	-5.7	122	0.00
88	T	Hexachlorobutadiene	0.483	0.496	-2.7	119	0.00
89	T	Naphthalene	1.515	1.578	-4.2	121	0.00
90	T	1,2,3-Trichlorobenzene	0.674	0.713	-5.8	122	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW171
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J955
BFB Injection Date : 11/06/07
BFB Injection Time : 09:38
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.38
75	30.0 - 60.0% of mass 95	46.42
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.39
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	87.01
175	5.0 - 9.0% of mass 174	6.01(6.9)1
176	95.0 - 101.0% of mass 174	84.99(97.7)1
177	5.0 - 9.0% of mass 176	5.61(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV006K0117	RKW172	11/06/07	10:18
2	MBLK3S	V006K16B	RKW175	11/06/07	12:16
3	LCS3S	V006K16L	RKW173	11/06/07	10:57
4	LCD3S	V006K16C	RKW174	11/06/07	11:36
5	SB2-30'	J955-08R	RKW177	11/06/07	13:32
6	SB2-30'MS	J955-08U	RKW178	11/06/07	14:12
7	SB2-30'MSD	J955-08V	RKW179	11/06/07	14:51
8	SB2-15'DUP	J955-06R	RKW181	11/06/07	17:29
9	SB2-20'	J955-07R	RKW182	11/06/07	18:08
10	SB2-60'	J955-14R	RKW184	11/06/07	19:26
11	SB2-65'	J955-15R	RKW185	11/06/07	20:04
12	SB2-40'	J955-10R	RKW186	11/06/07	20:43
13	SB2-45'	J955-11R	RKW187	11/06/07	21:21

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RKW007
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J955
Date Analyzed: 11/01/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2880578	11.19	2782519	17.41	1331088	23.95
	UPPER LIMIT	5761156	11.69	5565038	17.91	2662176	24.45
	LOWER LIMIT	1440289	10.69	1391260	16.91	665544	23.45
	SAMPLE ID						
1	VSTD050	2773592	11.19	2737504	17.41	1295526	23.95
2	MBLK3S	3749956	11.19	3517578	17.42	1490042	23.97
3	LCS3S	3448714	11.19	3200732	17.41	1517611	23.95
4	LCD3S	3413877	11.20	3189876	17.41	1474283	23.95
5	SB2-30'	3198817	11.20	3056900	17.43	1450216	23.95
6	SB2-30'MS	2465019	11.19	2437340	17.42	1225859	23.95
7	SB2-30'MSD	3263548	11.20	3197896	17.41	1585378	23.95
8	SB2-15'DUP	3022011	11.20	2521798	17.41	815639	23.95
9	SB2-20'	3038437	11.20	2883146	17.41	1227426	23.95
10	SB2-60'	3008704	11.20	2860581	17.41	1312613	23.95
11	SB2-65'	3027348	11.20	2854638	17.41	1251690	23.95
12	SB2-40'	2933667	11.20	2828019	17.41	1440501	23.95
13	SB2-45'	3034980	11.18	2928366	17.41	1417362	23.94

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	50.000	45.148	9.7	86	0.00
3	P,T	Chloromethane	50.000	48.051	3.9	93	0.00
4	C,T	Vinyl chloride	50.000	49.469	1.1	91	0.01
5	T	Bromomethane	50.000	45.479	9.0	96	0.00
6	T	Chloroethane	50.000	48.609	2.8	91	0.01
7	T	Dichlorofluoromethane	50.000	54.334	-8.7	108	0.00
8	T	Trichlorofluoromethane	50.000	46.891	6.2	89	0.00
9	T	Acrolein	200.000	195.313	2.3	103	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	51.934	-3.9	107	0.00
11	T	Acetone	200.000	234.380	-17.2	111	0.00
12	CMT	1,1-Dichloroethene	50.000	54.079	-8.2	108	0.00
13	T	tert-Butyl alcohol	250.000	281.162	-12.5	107	0.01
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	50.000	0.000	100.0#	0	0.00
16	T	Iodomethane	50.000	78.037	-56.1#	145	0.00
17	T	Methylene chloride	50.000	56.213	-12.4	106	0.00
18	T	Carbon disulfide	50.000	51.290	-2.6	102	0.00
19	T	Acrylonitrile	250.000	272.657	-9.1	112	0.00
20	T	tert-Butyl methyl ether (MT	50.000	56.372	-12.7	109	0.00
21	T	trans-1,2-Dichloroethene	50.000	54.367	-8.7	106	0.00
22	T	Isopropyl ether (DIPE)	50.000	56.635	-13.3	109	0.00
23	T	Vinyl acetate	50.000	55.899	-11.8	106	0.00
24	P,T	1,1-Dichloroethane	50.000	56.163	-12.3	109	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	57.217	-14.4	110	0.00
26	T	2-Butanone	200.000	211.694	-5.8	111	0.00
27	T	2,2-Dichloropropane	50.000	57.627	-15.3	111	0.00
28	T	cis-1,2-Dichloroethene	50.000	56.288	-12.6	110	0.00
29	C,T	Chloroform	50.000	56.255	-12.5	109	0.00
30	T	Bromochloromethane	50.000	56.649	-13.3	108	0.00
31	T	1,1,1-Trichloroethane	50.000	56.391	-12.8	109	0.00
32	T	Cyclohexane	50.000	0.000	100.0#	0	0.00
33	T	tert-Amyl methyl ether (TAM	50.000	55.199	-10.4	102	0.00
34	S	1,2-Dichloroethane-d4	50.000	52.613	-5.2	105	0.00
35	I	CHLOROBENZENE-D5	50.000	50.000	0.0	98	0.00
36	T	1,1-Dichloropropene	50.000	52.733	-5.5	109	0.00
37	T	Carbon tetrachloride	50.000	53.821	-7.6	107	0.00
38	T	1,2-Dichloroethane	50.000	56.398	-12.8	110	0.00
39	TM	Benzene	50.000	54.231	-8.5	110	0.00
40	TM	Trichloroethene	50.000	54.082	-8.2	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CV006K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	50.000	0.000	100.0#	0	0.00
42	C,T	1,2-Dichloropropane	50.000	56.639	-13.3	111	0.00
43	T	Bromodichloromethane	50.000	57.194	-14.4	112	0.00
44	T	Dibromomethane	50.000	55.752	-11.5	109	0.00
45	T	2-Chloroethyl vinyl ether	50.000	57.736	-15.5	116	-0.01
46	T	4-Methyl-2-pentanone	200.000	234.896	-17.4	112	0.00
47	T	cis-1,3-Dichloropropene	50.000	60.569	-21.1#	117	0.00
48	S	Toluene-d8	50.000	51.306	-2.6	106	0.00
49	CMT	Toluene	50.000	54.682	-9.4	111	0.00
50	T	Ethyl methacrylate	50.000	57.284	-14.6	109	0.00
51	T	trans-1,3-Dichloropropene	50.000	61.292	-22.6#	115	0.00
52	T	2-Hexanone	200.000	215.783	-7.9	110	0.00
53	T	1,1,2-Trichloroethane	50.000	57.293	-14.6	114	0.00
54	T	1,3-Dichloropropane	50.000	57.425	-14.8	114	0.00
55	T	Tetrachloroethene	50.000	52.885	-5.8	110	0.00
56	T	Dibromochloromethane	50.000	58.387	-16.8	110	0.00
57	T	2-Ethyl-1-butanol	50.000	0.000	100.0#	0	0.00
58	T	1,2-Dibromoethane	50.000	56.984	-14.0	122	0.00
59	T	1-Chlorohexane	50.000	53.680	-7.4	113	0.00
60	PM	Chlorobenzene	50.000	55.767	-11.5	114	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	57.211	-14.4	111	0.00
62	C,T	Ethylbenzene	50.000	55.044	-10.1	111	0.00
63	T	m-Xylene & p-Xylene	100.000	106.809	-6.8	111	0.00
64	T	o-Xylene	50.000	55.844	-11.7	112	0.00
65	T	Styrene	50.000	58.421	-16.8	114	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	97	0.00
67	T	Isopropylbenzene	50.000	54.839	-9.7	112	0.00
68	P,T	Bromoform	50.000	60.116	-20.2#	111	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	56.914	-13.8	112	0.00
70	S	4-Bromofluorobenzene	50.000	51.291	-2.6	108	0.00
71	T	1,2,3-Trichloropropane	50.000	55.516	-11.0	107	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	62.357	-24.7#	122	0.00
73	T	n-Propylbenzene	50.000	56.098	-12.2	113	0.01
74	T	Bromobenzene	50.000	56.494	-13.0	112	0.00
75	T	1,3,5-Trimethylbenzene	50.000	55.648	-11.3	112	0.00
76	T	2-Chlorotoluene	50.000	52.956	-5.9	108	0.00
77	T	4-Chlorotoluene	50.000	55.828	-11.7	114	0.00
78	T	tert-Butylbenzene	50.000	56.669	-13.3	112	0.00
79	T	1,2,4-Trimethylbenzene	50.000	56.130	-12.3	110	0.00
80	T	sec-Butylbenzene	50.000	56.160	-12.3	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	56.728	-13.5	111	0.00
82	T	1,3-Dichlorobenzene	50.000	55.522	-11.0	112	0.00
83	T	1,4-Dichlorobenzene	50.000	56.066	-12.1	113	0.00
84	T	n-Butylbenzene	50.000	56.274	-12.5	109	0.00
85	T	1,2-Dichlorobenzene	50.000	56.102	-12.2	113	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	66.676	-33.4#	134	0.00
87	T	1,2,4-Trichlorobenzene	50.000	57.790	-15.6	112	0.00
88	T	Hexachlorobutadiene	50.000	54.997	-10.0	108	0.00
89	T	Naphthalene	50.000	54.116	-8.2	107	0.00
90	T	1,2,3-Trichlorobenzene	50.000	56.379	-12.8	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CV006K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	0.375	0.339	9.6	86	0.00
3	P,T	Chloromethane	0.387	0.372	3.9	93	0.00
4	C,T	Vinyl chloride	0.321	0.318	0.9	91	0.01
5	T	Bromomethane	0.256	0.233	9.0	96	0.00
6	T	Chloroethane	0.193	0.188	2.6	91	0.01
7	T	Dichlorofluoromethane	0.611	0.664	-8.7	108	0.00
8	T	Trichlorofluoromethane	0.531	0.498	6.2	89	0.00
9	T	Acrolein	0.030	0.029	3.3	103	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.236	0.246	-4.2	107	0.00
11	T	Acetone	0.104	0.108	-3.8	111	0.00
12	CMT	1,1-Dichloroethene	0.525	0.568	-8.2	108	0.00
13	T	tert-Butyl alcohol	0.038	0.042	-10.5	107	0.01
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.266	0.415	-56.0#	145	0.00
17	T	Methylene chloride	0.507	0.493	2.8	106	0.00
18	T	Carbon disulfide	1.044	1.071	-2.6	102	0.00
19	T	Acrylonitrile	0.104	0.113	-8.7	112	0.00
20	T	tert-Butyl methyl ether (MT	0.785	0.885	-12.7	109	0.00
21	T	trans-1,2-Dichloroethene	0.504	0.548	-8.7	106	0.00
22	T	Isopropyl ether (DIPE)	1.102	1.248	-13.2	109	0.00
23	T	Vinyl acetate	0.655	0.732	-11.8	106	0.00
24	P,T	1,1-Dichloroethane	0.615	0.691	-12.4	109	0.00
25	T	tert-Butyl ethyl ether (ETB	0.937	1.072	-14.4	110	0.00
26	T	2-Butanone	0.159	0.168	-5.7	111	0.00
27	T	2,2-Dichloropropane	0.437	0.503	-15.1	111	0.00
28	T	cis-1,2-Dichloroethene	0.549	0.618	-12.6	110	0.00
29	C,T	Chloroform	0.615	0.692	-12.5	109	0.00
30	T	Bromochloromethane	0.298	0.338	-13.4	108	0.00
31	T	1,1,1-Trichloroethane	0.496	0.560	-12.9	109	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.824	0.910	-10.4	102	0.00
34	S	1,2-Dichloroethane-d4	0.377	0.396	-5.0	105	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00
36	T	1,1-Dichloropropene	0.160	0.169	-5.6	109	0.00
37	T	Carbon tetrachloride	0.406	0.437	-7.6	107	0.00
38	T	1,2-Dichloroethane	0.472	0.532	-12.7	110	0.00
39	TM	Benzene	1.285	1.394	-8.5	110	0.00
40	TM	Trichloroethene	0.371	0.402	-8.4	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.336	0.381	-13.4	111	0.00
43	T	Bromodichloromethane	0.451	0.516	-14.4	112	0.00
44	T	Dibromomethane	0.199	0.222	-11.6	109	0.00
45	T	2-Chloroethyl vinyl ether	0.107	0.124	-15.9	116	-0.01
46	T	4-Methyl-2-pentanone	0.388	0.394	-1.5	112	0.00
47	T	cis-1,3-Dichloropropene	0.470	0.570	-21.3#	117	0.00
48	S	Toluene-d8	1.125	1.155	-2.7	106	0.00
49	CMT	Toluene	1.307	1.430	-9.4	111	0.00
50	T	Ethyl methacrylate	0.412	0.471	-14.3	109	0.00
51	T	trans-1,3-Dichloropropene	0.390	0.478	-22.6#	115	0.00
52	T	2-Hexanone	0.228	0.245	-7.5	110	0.00
53	T	1,1,2-Trichloroethane	0.280	0.321	-14.6	114	0.00
54	T	1,3-Dichloropropane	0.486	0.558	-14.8	114	0.00
55	T	Tetrachloroethene	0.311	0.329	-5.8	110	0.00
56	T	Dibromochloromethane	0.301	0.351	-16.6	110	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.221	0.252	-14.0	122	0.00
59	T	1-Chlorohexane	0.484	0.520	-7.4	113	0.00
60	PM	Chlorobenzene	0.891	0.994	-11.6	114	0.00
61	T	1,1,1,2-Tetrachloroethane	0.303	0.347	-14.5	111	0.00
62	C,T	Ethylbenzene	1.478	1.627	-10.1	111	0.00
63	T	m-Xylene & p-Xylene	1.162	1.242	-6.9	111	0.00
64	T	o-Xylene	1.199	1.339	-11.7	112	0.00
65	T	Styrene	0.921	1.076	-16.8	114	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	97	0.00
67	T	Isopropylbenzene	3.017	3.309	-9.7	112	0.00
68	P,T	Bromoform	0.391	0.470	-20.2#	111	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.841	0.957	-13.8	112	0.00
70	S	4-Bromofluorobenzene	1.013	1.040	-2.7	108	0.00
71	T	1,2,3-Trichloropropane	0.158	0.175	-10.8	107	0.00
72	T	trans-1,4-Dichloro-2-butene	0.127	0.159	-25.2#	122	0.00
73	T	n-Propylbenzene	3.790	4.253	-12.2	113	0.01
74	T	Bromobenzene	0.811	0.917	-13.1	112	0.00
75	T	1,3,5-Trimethylbenzene	2.536	2.822	-11.3	112	0.00
76	T	2-Chlorotoluene	2.237	2.369	-5.9	108	0.00
77	T	4-Chlorotoluene	2.197	2.453	-11.7	114	0.00
78	T	tert-Butylbenzene	2.465	2.794	-13.3	112	0.00
79	T	1,2,4-Trimethylbenzene	2.481	2.785	-12.3	110	0.00
80	T	sec-Butylbenzene	3.386	3.803	-12.3	111	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K06\RKW172.D Vial: 2
Acq On : 6 Nov 2007 10:18 am Operator: DN
Sample : CVO06K0117 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	2.587	2.935	-13.5	111	0.00
82	T	1,3-Dichlorobenzene	1.487	1.651	-11.0	112	0.00
83	T	1,4-Dichlorobenzene	1.468	1.646	-12.1	113	0.00
84	T	n-Butylbenzene	2.349	2.644	-12.6	109	0.00
85	T	1,2-Dichlorobenzene	1.372	1.540	-12.2	113	0.00
86	T	1,2-Dibromo-3-chloropropane	0.127	0.170	-33.9#	134	0.00
87	T	1,2,4-Trichlorobenzene	0.755	0.872	-15.5	112	0.00
88	T	Hexachlorobutadiene	0.483	0.531	-9.9	108	0.00
89	T	Naphthalene	1.515	1.640	-8.3	107	0.00
90	T	1,2,3-Trichlorobenzene	0.674	0.760	-12.8	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKW208
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07J955
BFB Injection Date : 11/07/07
BFB Injection Time : 10:54
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.63
75	30.0 - 60.0% of mass 95	47.69
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.52
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	82.71
175	5.0 - 9.0% of mass 174	6.29(7.6)1
176	95.0 - 101.0% of mass 174	81.04(98.0)1
177	5.0 - 9.0% of mass 176	4.94(6.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV006K0118	RKW209	11/07/07	11:33
2	MBLK4S	V006K19B	RKW212	11/07/07	13:29
3	LCS4S	V006K19L	RKW210	11/07/07	12:12
4	LCD4S	V006K19C	RKW211	11/07/07	12:51
5	SB2-35'	J955-09R	RKW214	11/07/07	14:47
6	SB2-50'	J955-12R	RKW215	11/07/07	15:26
7	SB2-55	J955-13R	RKW216	11/07/07	16:05
8	SB2-70'	J955-16R	RKW217	11/07/07	16:43
9	SB4-55'	J955-17R	RKW218	11/07/07	17:22
10	SB4-60'DUP	J955-19R	RKW219	11/07/07	18:00
11	SB1-70'	J955-22R	RKW220	11/07/07	18:39

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RKW007
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07J955
Date Analyzed: 11/01/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2880578	11.19	2782519	17.41	1331088	23.95
	UPPER LIMIT	5761156	11.69	5565038	17.91	2662176	24.45
	LOWER LIMIT	1440289	10.69	1391260	16.91	665544	23.45
	SAMPLE ID						
1	VSTD050	3042266	11.18	2929780	17.41	1458997	23.93
2	MBLK4S	3042238	11.18	2842022	17.40	1236875	23.94
3	LCS4S	3137725	11.18	3037472	17.40	1439495	23.94
4	LCD4S	3105901	11.19	2940043	17.40	1390605	23.94
5	SB2-35'	3150341	11.18	3021910	17.40	1487908	23.94
6	SB2-50'	3032302	11.18	2877655	17.41	1393791	23.95
7	SB2-55	2851389	11.18	2741598	17.41	1214728	23.95
8	SB2-70'	2666898	11.19	2578074	17.40	1126581	23.94
9	SB4-55'	2835345	11.18	2732790	17.41	1222590	23.94
10	SB4-60'DUP	2830246	11.18	2706847	17.39	1185721	23.94
11	SB1-70'	2578409	11.18	2496656	17.40	1056051	23.94

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.
page 1 of 1

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW209.D Vial: 2
Acq On : 7 Nov 2007 11:33 am Operator: DN
Sample : CVO06K0118 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	106	-0.02
2	T	Dichlorodifluoromethane	50.000	45.043	9.9	94	0.00
3	P,T	Chloromethane	50.000	43.934	12.1	93	0.00
4	C,T	Vinyl chloride	50.000	44.248	11.5	89	0.00
5	T	Bromomethane	50.000	41.200	17.6	96	0.00
6	T	Chloroethane	50.000	46.217	7.6	95	0.00
7	T	Dichlorofluoromethane	50.000	47.505	5.0	103	0.00
8	T	Trichlorofluoromethane	50.000	46.401	7.2	97	0.00
9	T	Acrolein	200.000	150.790	24.6#	87	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	45.278	9.4	103	0.00
11	T	Acetone	200.000	186.970	6.5	98	0.00
12	CMT	1,1-Dichloroethene	50.000	45.442	9.1	99	0.00
13	T	tert-Butyl alcohol	250.000	247.494	1.0	103	0.00
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	50.000	0.000	100.0#	0	0.00
16	T	Iodomethane	50.000	61.264	-22.5#	125	-0.01
17	T	Methylene chloride	50.000	49.760	0.5	104	0.00
18	T	Carbon disulfide	50.000	42.819	14.4	94	0.00
19	T	Acrylonitrile	250.000	222.215	11.1	100	0.00
20	T	tert-Butyl methyl ether (MT	50.000	49.458	1.1	105	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.146	7.7	99	0.00
22	T	Isopropyl ether (DIPE)	50.000	48.814	2.4	103	0.00
23	T	Vinyl acetate	50.000	48.896	2.2	102	0.00
24	P,T	1,1-Dichloroethane	50.000	49.487	1.0	106	0.00
25	T	tert-Butyl ethyl ether (ETB	50.000	50.790	-1.6	107	0.00
26	T	2-Butanone	200.000	172.158	13.9	99	0.00
27	T	2,2-Dichloropropane	50.000	49.739	0.5	105	0.00
28	T	cis-1,2-Dichloroethene	50.000	48.646	2.7	104	0.00
29	C,T	Chloroform	50.000	49.097	1.8	105	0.00
30	T	Bromochloromethane	50.000	50.470	-0.9	106	0.00
31	T	1,1,1-Trichloroethane	50.000	49.354	1.3	104	0.00
32	T	Cyclohexane	50.000	0.000	100.0#	0	0.00
33	T	tert-Amyl methyl ether (TAM	50.000	49.591	0.8	101	0.00
34	S	1,2-Dichloroethane-d4	50.000	52.814	-5.6	116	0.00
35	I	CHLOROBENZENE-D5	50.000	50.000	0.0	105	0.00
36	T	1,1-Dichloropropene	50.000	46.994	6.0	104	0.00
37	T	Carbon tetrachloride	50.000	49.713	0.6	105	0.00
38	T	1,2-Dichloroethane	50.000	50.732	-1.5	106	0.00
39	TM	Benzene	50.000	48.354	3.3	105	0.00
40	TM	Trichloroethene	50.000	48.416	3.2	105	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW209.D Vial: 2
Acq On : 7 Nov 2007 11:33 am Operator: DN
Sample : CVO06K0118 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	50.000	0.000	100.0#	0	0.00
42	C,T	1,2-Dichloropropane	50.000	50.676	-1.4	106	0.00
43	T	Bromodichloromethane	50.000	52.095	-4.2	109	0.00
44	T	Dibromomethane	50.000	51.995	-4.0	109	0.00
45	T	2-Chloroethyl vinyl ether	50.000	56.331	-12.7	121	-0.02
46	T	4-Methyl-2-pentanone	200.000	204.094	-2.0	105	0.00
47	T	cis-1,3-Dichloropropene	50.000	54.390	-8.8	112	0.00
48	S	Toluene-d8	50.000	51.701	-3.4	114	0.00
49	CMT	Toluene	50.000	48.499	3.0	105	0.00
50	T	Ethyl methacrylate	50.000	52.601	-5.2	107	0.00
51	T	trans-1,3-Dichloropropene	50.000	57.238	-14.5	115	0.00
52	T	2-Hexanone	200.000	181.882	9.1	99	0.00
53	T	1,1,2-Trichloroethane	50.000	51.798	-3.6	110	0.00
54	T	1,3-Dichloropropane	50.000	52.580	-5.2	112	0.00
55	T	Tetrachloroethene	50.000	47.576	4.8	106	0.00
56	T	Dibromochloromethane	50.000	54.763	-9.5	111	0.00
57	T	2-Ethyl-1-butanol	50.000	0.000	100.0#	0	0.00
58	T	1,2-Dibromoethane	50.000	53.288	-6.6	122	0.00
59	T	1-Chlorohexane	50.000	48.827	2.3	110	0.00
60	PM	Chlorobenzene	50.000	50.341	-0.7	110	0.00
61	T	1,1,1,2-Tetrachloroethane	50.000	53.547	-7.1	111	0.00
62	C,T	Ethylbenzene	50.000	49.687	0.6	107	0.00
63	T	m-Xylene & p-Xylene	100.000	95.871	4.1	107	0.00
64	T	o-Xylene	50.000	50.413	-0.8	108	0.00
65	T	Styrene	50.000	53.126	-6.3	111	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	110	-0.02
67	T	Isopropylbenzene	50.000	47.649	4.7	110	0.00
68	P,T	Bromoform	50.000	57.059	-14.1	118	0.00
69	P,T	1,1,2,2-Tetrachloroethane	50.000	50.101	-0.2	111	0.00
70	S	4-Bromofluorobenzene	50.000	50.962	-1.9	121	0.00
71	T	1,2,3-Trichloropropane	50.000	49.417	1.2	107	0.00
72	T	trans-1,4-Dichloro-2-butene	50.000	59.580	-19.2	131	0.00
73	T	n-Propylbenzene	50.000	48.548	2.9	110	0.00
74	T	Bromobenzene	50.000	49.801	0.4	111	0.00
75	T	1,3,5-Trimethylbenzene	50.000	47.534	4.9	108	0.00
76	T	2-Chlorotoluene	50.000	46.085	7.8	105	-0.02
77	T	4-Chlorotoluene	50.000	50.573	-1.1	116	0.00
78	T	tert-Butylbenzene	50.000	49.602	0.8	111	-0.02
79	T	1,2,4-Trimethylbenzene	50.000	48.876	2.2	108	0.00
80	T	sec-Butylbenzene	50.000	49.147	1.7	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW209.D Vial: 2
Acq On : 7 Nov 2007 11:33 am Operator: DN
Sample : CVO06K0118 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	50.000	50.080	-0.2	111	0.00
82	T	1,3-Dichlorobenzene	50.000	49.118	1.8	111	0.00
83	T	1,4-Dichlorobenzene	50.000	49.366	1.3	112	0.00
84	T	n-Butylbenzene	50.000	49.724	0.6	109	0.00
85	T	1,2-Dichlorobenzene	50.000	49.711	0.6	113	0.00
86	T	1,2-Dibromo-3-chloropropane	50.000	52.902	-5.8	120	0.00
87	T	1,2,4-Trichlorobenzene	50.000	50.614	-1.2	111	0.00
88	T	Hexachlorobutadiene	50.000	48.472	3.1	107	0.00
89	T	Naphthalene	50.000	47.733	4.5	106	0.00
90	T	1,2,3-Trichlorobenzene	50.000	50.360	-0.7	110	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW209.D Vial: 2
Acq On : 7 Nov 2007 11:33 am Operator: DN
Sample : CVO06K0118 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	106	-0.02
2	T	Dichlorodifluoromethane	0.375	0.338	9.9	94	0.00
3	P,T	Chloromethane	0.387	0.340	12.1	93	0.00
4	C,T	Vinyl chloride	0.321	0.284	11.5	89	0.00
5	T	Bromomethane	0.256	0.211	17.6	96	0.00
6	T	Chloroethane	0.193	0.179	7.3	95	0.00
7	T	Dichlorofluoromethane	0.611	0.581	4.9	103	0.00
8	T	Trichlorofluoromethane	0.531	0.493	7.2	97	0.00
9	T	Acrolein	0.030	0.023	23.3#	87	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.236	0.214	9.3	103	0.00
11	T	Acetone	0.104	0.087	16.3	98	0.00
12	CMT	1,1-Dichloroethene	0.525	0.477	9.1	99	0.00
13	T	tert-Butyl alcohol	0.038	0.037	2.6	103	0.00
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.266	0.326	-22.6#	125	-0.01
17	T	Methylene chloride	0.507	0.438	13.6	104	0.00
18	T	Carbon disulfide	1.044	0.894	14.4	94	0.00
19	T	Acrylonitrile	0.104	0.092	11.5	100	0.00
20	T	tert-Butyl methyl ether (MT	0.785	0.777	1.0	105	0.00
21	T	trans-1,2-Dichloroethene	0.504	0.465	7.7	99	0.00
22	T	Isopropyl ether (DIPE)	1.102	1.076	2.4	103	0.00
23	T	Vinyl acetate	0.655	0.640	2.3	102	0.00
24	P,T	1,1-Dichloroethane	0.615	0.609	1.0	106	0.00
25	T	tert-Butyl ethyl ether (ETB	0.937	0.952	-1.6	107	0.00
26	T	2-Butanone	0.159	0.137	13.8	99	0.00
27	T	2,2-Dichloropropane	0.437	0.434	0.7	105	0.00
28	T	cis-1,2-Dichloroethene	0.549	0.534	2.7	104	0.00
29	C,T	Chloroform	0.615	0.604	1.8	105	0.00
30	T	Bromochloromethane	0.298	0.301	-1.0	106	0.00
31	T	1,1,1-Trichloroethane	0.496	0.490	1.2	104	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.824	0.817	0.8	101	0.00
34	S	1,2-Dichloroethane-d4	0.377	0.398	-5.6	116	0.00
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	105	0.00
36	T	1,1-Dichloropropene	0.160	0.150	6.3	104	0.00
37	T	Carbon tetrachloride	0.406	0.404	0.5	105	0.00
38	T	1,2-Dichloroethane	0.472	0.479	-1.5	106	0.00
39	TM	Benzene	1.285	1.243	3.3	105	0.00
40	TM	Trichloroethene	0.371	0.360	3.0	105	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW209.D Vial: 2
Acq On : 7 Nov 2007 11:33 am Operator: DN
Sample : CVO06K0118 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.336	0.341	-1.5	106	0.00
43	T	Bromodichloromethane	0.451	0.470	-4.2	109	0.00
44	T	Dibromomethane	0.199	0.207	-4.0	109	0.00
45	T	2-Chloroethyl vinyl ether	0.107	0.121	-13.1	121	-0.02
46	T	4-Methyl-2-pentanone	0.388	0.344	11.3	105	0.00
47	T	cis-1,3-Dichloropropene	0.470	0.512	-8.9	112	0.00
48	S	Toluene-d8	1.125	1.164	-3.5	114	0.00
49	CMT	Toluene	1.307	1.268	3.0	105	0.00
50	T	Ethyl methacrylate	0.412	0.433	-5.1	107	0.00
51	T	trans-1,3-Dichloropropene	0.390	0.447	-14.6	115	0.00
52	T	2-Hexanone	0.228	0.207	9.2	99	0.00
53	T	1,1,2-Trichloroethane	0.280	0.290	-3.6	110	0.00
54	T	1,3-Dichloropropane	0.486	0.511	-5.1	112	0.00
55	T	Tetrachloroethene	0.311	0.296	4.8	106	0.00
56	T	Dibromochloromethane	0.301	0.329	-9.3	111	0.00
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.221	0.236	-6.8	122	0.00
59	T	1-Chlorohexane	0.484	0.473	2.3	110	0.00
60	PM	Chlorobenzene	0.891	0.897	-0.7	110	0.00
61	T	1,1,1,2-Tetrachloroethane	0.303	0.324	-6.9	111	0.00
62	C,T	Ethylbenzene	1.478	1.469	0.6	107	0.00
63	T	m-Xylene & p-Xylene	1.162	1.114	4.1	107	0.00
64	T	o-Xylene	1.199	1.209	-0.8	108	0.00
65	T	Styrene	0.921	0.979	-6.3	111	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	110	-0.02
67	T	Isopropylbenzene	3.017	2.875	4.7	110	0.00
68	P,T	Bromoform	0.391	0.446	-14.1	118	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.841	0.843	-0.2	111	0.00
70	S	4-Bromofluorobenzene	1.013	1.033	-2.0	121	0.00
71	T	1,2,3-Trichloropropane	0.158	0.156	1.3	107	0.00
72	T	trans-1,4-Dichloro-2-butene	0.127	0.152	-19.7	131	0.00
73	T	n-Propylbenzene	3.790	3.680	2.9	110	0.00
74	T	Bromobenzene	0.811	0.808	0.4	111	0.00
75	T	1,3,5-Trimethylbenzene	2.536	2.411	4.9	108	0.00
76	T	2-Chlorotoluene	2.237	2.061	7.9	105	-0.02
77	T	4-Chlorotoluene	2.197	2.222	-1.1	116	0.00
78	T	tert-Butylbenzene	2.465	2.445	0.8	111	-0.02
79	T	1,2,4-Trimethylbenzene	2.481	2.425	2.3	108	0.00
80	T	sec-Butylbenzene	3.386	3.328	1.7	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKW209.D Vial: 2
Acq On : 7 Nov 2007 11:33 am Operator: DN
Sample : CVO06K0118 Inst : TO06
Misc : 200PPB KET_AA/50PPB 8260/250PPB TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06K01.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Nov 02 10:32:28 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	2.587	2.591	-0.2	111	0.00
82	T	1,3-Dichlorobenzene	1.487	1.461	1.7	111	0.00
83	T	1,4-Dichlorobenzene	1.468	1.450	1.2	112	0.00
84	T	n-Butylbenzene	2.349	2.336	0.6	109	0.00
85	T	1,2-Dichlorobenzene	1.372	1.364	0.6	113	0.00
86	T	1,2-Dibromo-3-chloropropane	0.127	0.135	-6.3	120	0.00
87	T	1,2,4-Trichlorobenzene	0.755	0.764	-1.2	111	0.00
88	T	Hexachlorobutadiene	0.483	0.468	3.1	107	0.00
89	T	Naphthalene	1.515	1.447	4.5	106	0.00
90	T	1,2,3-Trichlorobenzene	0.674	0.678	-0.6	110	0.00

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.1.07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A06 -030

BATCH V006K016

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW001	BFB06K01 ✓	2ml	NA	NA	NA	5:10 pm
02	2	V006K011 ✓	16/2/.04µl				Ket/A 8 / 8x0 2 / TBA 10 ppb
03	3	2	.4/.5/1µl				20 / 5 / 25
04	4	3 ✓	.8/1/1.2µl				40 / 10 / 50
05	5	4 ✓	1.6/2/4µl				80 / 20 / 100
06	6	5 ✓	.4/.5/1µl				20 / 5 / 25
07	7	6 ✓	4/5/1µl				200 / 50 / 250
08	8	7 ✓	6.4/8/16µl				320 / 80 / 400
09	9	8 ✓	8/10/2µl				400 / 100 / 500
10	10	9 ✓	16/20/4µl				800 / 200 / 1000
11	11	10 ✓	24/30/6µl				1200 / 300 / 1500
12	12	IS/SS	5.0ml				
13	13	V006K01B	↓				
14	14	IV006K0101 ✓	4/5/1µl				200 / 50 / 250
15	15	02	↓	↓	↓	↓	200 / 50 / 250
16							2:24pm
17							
18							
19							
20					DN		11.2.07
21							
22							
23							
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	11/1/07
ICAL ID	V006K01

STANDARDS

NAME	ID	CONC. (mg/L)
DCC 8x60	SV1.13.10.3	10/250
DCC Ket-AA	.11.3	250
DCC Gas	.10.1	250
BFB	.5.3	50
IS/SURR. IS	SMC.11.99.2	250
IS/SURR. SS	.100.1	250
LCS 8x60	SV1.13.12.3	50/250
LCS Ket-AA	.13.3	250
LCS Gas	.2.1	250

SOLVENT	ID
METHANOL	
DATA FILE	07K01

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DN

Date Disposed: 11/2/07

Disposed By: DN

2122

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.5.07 ☑ 5-ml Purge ☐ 25-ml Purge **Book # A06 -031**

BATCH V0706K01 N

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	12KW136	BFB 06K13 ✓	2ml				9:34 am
02	136	V06K01 13	1/4/5ml				
03	137	↓ 14 ✓	↓				
04	138	V06K13L ✓	.4/1.6/2ml				
05	139	C ✓	↓				
06	140	B	5.0g				
07	141	↓ Q ✓	↓				
08	142	MRL 1 ✓	.1/.2/5ml				5/10/25 ppb
09	143	07J355-08	6.2g	.81		✓	Is low
10	144	07J351-06R ✓	5.5g	.91		↓	
11	145	↓ -07R ✓	5.6g	.89		↓	
12	146	RINSE					
13	147	07J955-05 ✓	7.0g	.71		✓	
14	148	MRL 2 ✓	.1/.2/.5ml				
15	149	07J955-18 ✓	6.5g	.77		✓	
16	150	-19	5.8g	.86		↓	broken vial
17	151	-20 ✓	3.2g	1.6		↓	
18	↓ 152	↓ -21 ✓	5.4g	.93		↓	9:17 pm
19							
20							
21							
22				DN 11.6.07			
23							
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	11.1.07
ICAL ID	V06K01

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SM1.13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	↓ .5.3	
IS/SURR.	SMC-11.99.2 ↓ .100.1	
LCS	SM1.13.12.3	50/250
LCS	.13.3	
LCS	↓ .2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K05

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DN

Date Disposed: 11/6/07

Disposed By: DN

2123

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.5.07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A06 -031

BATCH V0E6K01 16

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW153	BFB 06 K14 ✓	2ml				9:55 pm
02	154	↓ 15	↓				
03	155	V0E6K01 15	1/4/5ml				
04	156	↓ 16 ✓	↓				
05	157	V0E6K15L ✓	.4/1.6/2ml Hoagl				double spike surrogate
06	158	C ✓	↓				
07	159	B	100ml				
08	160	Q ✓	↓				
09	161	07J955-10T ✓	100ml	41			
10	162	-11I ✓	20ml	220			
11	163	-11T	100ml	43			
12	164	-14T ✓		41			
13	165	-15T ✓		43			
14	166	-18T		44			
15	167	-19T		51			
16	168	-20T		43			
17	169	-21T		50			
18	170	-22T		49			8:09 am
19	~~171~~	DN 11.6.07					
20							
21							
22							
23			DN	11.6.07			
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	11.1.07
ICAL ID	V0E6K01

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SV1.13 10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.5.1	50/200
LCS	.12.3	
LCS	.13.3	
LCS	.2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K55

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DN

Date Disposed: 11/6/07

Disposed By: DN

2121

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.6.07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A06 -031

BATCH 07K06K01 17

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKW171	PFB 06K16 ✓	2ml				9:38 am
02	172	07K06K01 17 ✓	1.4/2ml				
03	173	V06K16L ✓	.4/1.6/2ml				
04	174	C ✓	↓				
05	175	B ✓	5.0g	1.0		✓	
06	176	07J346-13 ✓	5.5g	.91			
07	177	07J955-08R ✓	6.4g	.78			
08	178	-08V ✓	6.9g	.72			
09	179	-08V ✓	4.8g	1.0			
10	180	-22X ✓	6.1g	.82			
11	181	-06R ✓	5.6g	.89			
12	182	-07R ✓	5.7g	.88			
13	183	07J346-12R ✓	5.0g	1.0			
14	184	07J955-14R ✓	6.4g	.78			
15	185	-15R ✓	6.0g	.83			
16	186	-10R ✓	6.7g	.75			
17	187	-11R ✓	5.5g	.91			9:21 pm
18							
19							
20							
21							DN 11.7.07
22							
23							
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	11.1.07
ICAL ID	V06K01

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SV1. 13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.5.1	50/50
LCS	.12.3	
LCS	.13.3	
LCS	.2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K06

Electronic Data Archival	
Location	Date
HPCHEM_VOA/T006	

Comments:

Analyzed By: DN

Date Disposed: 11/7/07

Disposed By: DN

21125

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.7.07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A06 -031

BATCH 0706KW118

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	12KW 208	BFB 06K19 ✓	5ml				10:54 am
02	209	0706K01 18 ✓	1/4/5ml				
03	210	V06K19L ✓	.4/1.6/2ml				
04	211	C ✓	↓				
05	212	B ✓	5.0g	1		✓	
06	213	07J346 11R ✓	6.2g	.81			
07	214	07J955 09R ✓	6.1g	.98			
08	215	-12R ✓	5.9g	.85			
09	216	-13R ✓	5.5g	.91			
10	217	-16R ✓	6.5g	.77			
11	218	-17R ✓	6.3g	.79			
12	219	-19R ✓	5.9g	.85			
13	220	-22R ✓	5.8g	.86			6:39 pm
14							
15							
16							DN 11.8.07
17							
18							
19							
20							
21							
22							
23							
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	~~9.7.07~~ 10.1.07
ICAL ID	~~V06 Ext~~ V06K01
DN 11.8.07	STANDARDS

NAME	ID	CONC. (mg/L)
DCC	S1.13.10.3	
DCC	.11.3	
DCC	10.1	
BFB	5.3	
IS/SURR.	5.1	50/250
LCS	12.3	
LCS	13.3	
LCS	2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K07

Electronic Data Archival	
Location	Date
HPCHEM_VOA/T006	

Comments:

Analyzed By: DN

Date Disposed: 11/8/07

Disposed By: DN

2126

EXTRACTION LOGS

PRESERVATION LOG FOR VOLATILES

METHOD [X] 5035 **Book #** E02-018

Matrix: SOIL STARTING DATE 11/3/07 12:00 Ending Date 11/3/07 13:00:00 PM

Lab Sample ID	W1 (g)	Wf (g)	Ws(g)	D.F.
BLANK	30.0	35.0	5.0	1.00
07J955-05	31.9	38.9	7.0	0.71
07J955-06	31.7	37.9	6.2	0.81
07J955-07	31.9	38.3	6.4	0.78
07J955-08	31.7	38.4	6.7	0.75
07J955-08M	31.8	38.1	6.3	0.79
07J955-08S	32.0	38.7	6.7	0.75
07J955-09	31.9	38.3	6.4	0.78
07J955-10	31.9	38.0	6.1	0.82
07J955-11	31.9	37.3	5.4	0.93
07J955-12	31.8	37.8	6.0	0.83
07J955-13	32.0	38.1	6.1	0.82
07J955-14	31.8	38.8	7.0	0.71
07J955-15	32.0	37.5	5.5	0.91
07J955-16	32.1	37.7	5.6	0.89
07J955-17	31.8	38.0	6.2	0.81
07J955-18	31.9	38.4	6.5	0.77
07J955-19	31.9	37.7	5.8	0.86
07J955-20	32.1	35.3	3.2	1.56
07J955-21	31.9	37.3	5.4	0.93
07J955-22	31.8	37.9	6.1	0.82

Standards / Reagents	ID / Lot#	Amount Added (ml)
SURROGATE		
LCS/MS		
REAGENT (WATER)		5.0 ML
NaHS04 H20		
SAND	SW1A-03-331	5.0G

DISPENSER CHECK WITH 5.0 ML
VOLUMETRIC FLASK.
J955 ARE PRE-WEIGHED VIALS.

Prepared By: MH / CR

Standard Added By:

Witnessed By:

Checked By: DN

Extract Received By: DN

Extract Location VS05

PRESERVATION LOG FOR VOLATILES

METHOD [X] 5035 **Book #** E02-018

Matrix: SOIL STARTING DATE 11/5/07 15:00 Ending Date 11/3/07 15:30

Lab Sample ID	W1 (g)	Wf (g)	Ws(g)	D.F.
BLANK	30.0	35.0	5.0	1.00
07J955-05R	31.7	39.0	7.3	0.68
07J955-06R	31.8	37.4	5.6	0.89
07J955-07R	31.9	37.6	5.7	0.88
07J955-08R	32.0	38.4	6.4	0.78
07J955-08U	31.8	38.7	6.9	0.72
07J955-08V	31.9	36.7	4.8	1.04
07J955-09R	31.9	37.0	5.1	0.98
07J955-10R	31.8	38.5	6.7	0.75
07J955-11R	31.8	37.3	5.5	0.91
07J955-12R	31.7	37.6	5.9	0.85
07J955-13R	31.8	37.3	5.5	0.91
07J955-14R	31.9	38.3	6.4	0.78
07J955-15R	32.1	38.1	6.0	0.83
07J955-16R	32.0	38.5	6.5	0.77
07J955-17R	31.8	38.1	6.3	0.79
07J955-18R	31.7	38.3	6.6	0.76
07J955-19R	32.1	38.0	5.9	0.85
07J955-20R	32.1	37.6	5.5	0.91
07J955-21R	31.9	37.1	5.2	0.96
07J955-22R	31.8	37.6	5.8	0.86

Standards / Reagents	ID / Lot#	Amount Added (ml)
SURROGATE		
LCS/MS		
REAGENT (WATER)		5.0 ML
NaHS04 H20		
SAND	SW-1A-03-331	5.0gm

J955 ARE PRE-WEIGHED VIALS.

Prepared By: GL / CR

Standard Added By:

Witnessed By:

Checked By: DN

Extract Received By: DN

Extract Location VS05

EMAX LABORATORIES, INC.

EXTRACTION LOG FOR VOLATILES

METHOD [X] **Book #** E01-024

Matrix: SOIL STARTING DATE/TIME 11/05/07 15:00 ENDING DATE/TIME 11/5/07 16:00

Lab Sample ID *	W1 (g)	Wf (g)	Ws(g)	Extract Vol. (ml)	Prep. Factor
BLANK	30.0	35.0	5.00	5.00	1.00
07J955-05T	29.7	34.7	5.00	5.00	1.00
07J955-06T	30.10	34.3	4.20	5.00	1.19
07J955-07T	29.4	35.0	5.60	5.00	0.89
07J955-08T	29.2	34.9	5.70	5.00	0.88
07J955-08TM	29.4	35.7	6.30	5.00	0.79
07J955-08TS	29.6	35.2	5.60	5.00	0.89
07J955-09T	29.1	33.3	4.20	5.00	1.19
07J955-10T	29.2	35.3	6.10	5.00	0.82
07J955-11T	29.3	35.1	5.80	5.00	0.86
07J955-12T	29.4	35.2	5.80	5.00	0.86
07J955-13T	29.4	33.4	4.00	5.00	1.25
07J955-14T	29.4	35.6	6.20	5.00	0.81
07J955-15T	29.5	35.3	5.80	5.00	0.86
07J955-16T	29.4	35.4	6.00	5.00	0.83
07J955-17T	29.4	36.2	6.80	5.00	0.74
07J955-18T	29.3	35.0	5.70	5.00	0.88
07J955-19T	29.2	34.1	4.90	5.00	1.02
07J955-20T	29.4	35.3	5.90	5.00	0.85
07J955-21T	29.2	36.4	7.20	5.00	0.69
07J955-22T	29.50	34.60	5.10	5.00	0.98

Standards / Reagents	ID / Lot#	Amount Added (ml)
SAND	SV1A-03-331	5.0G
Methanol/Surr.	SV1C-13-16-2	5.0ml

DISPENSER CHECK WITH 5.0 ML VOLUMETRIC FLASK.

** J346 -ARE PRE-WEIGHED VIALS.

Prepared By: GL / CR

Standard Added By:

Witnessed By:

Checked By: DN

Extract Location: VW05

Extract Received By: CR

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METALS / MERCURY

SDG#: 07J955

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J955

METHOD 3010A/3050B/6010B
METALS BY ICP

Three (3) water and eighteen (18) soil samples were received on 10/31/07 for Metals analysis by Method 3010A/3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Samples J955-08 and J393-01 from another SDG were analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample J955-08 was spiked. Recoveries were within QC limit except Antimony in both MS/MSD was out of the limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception.

LAB CHRONICLE
METALS BY ICP

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J955
Instrument ID : T-ID8

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPK010WB	1	NA	11/14/0717:59	11/06/0713:10	ID8K012037	ID8K012035	IPK010W	Method Blank
LCS1W	IPK010WL	1	NA	11/14/0718:04	11/06/0713:10	ID8K012038	ID8K012035	IPK010W	Lab Control Sample (LCS)
LCD1W	IPK010WC	1	NA	11/14/0718:10	11/06/0713:10	ID8K012039	ID8K012035	IPK010W	LCS Duplicate
TF-35AS	J393-02A	1	NA	11/14/0718:15	11/06/0713:10	ID8K012040	ID8K012035	IPK010W	Analytical Spike Sample
TF-35	J393-02	1	NA	11/14/0718:20	11/06/0713:10	ID8K012041	ID8K012035	IPK010W	Field Sample
TF-35DL	J393-02J	5	NA	11/14/0718:26	11/06/0713:10	ID8K012042	ID8K012035	IPK010W	Diluted Sample
LEB1-103007	J955-02	1	NA	11/14/0719:27	11/06/0713:10	ID8K012053	ID8K012047	IPK010W	Field Sample
LEB2-103007	J955-03	1	NA	11/14/0719:32	11/06/0713:10	ID8K012054	ID8K012047	IPK010W	Field Sample
SB5-58'	J955-04	1	NA	11/14/0719:38	11/06/0713:10	ID8K012055	ID8K012047	IPK010W	Field Sample

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
SB2-30'AS	J955-08A	1	9.8	11/16/0723:25	11/05/0711:00	ID8K014071	ID8K014063	IPK009S	Analytical Spike Sample
SB2-30'	J955-08	1	9.8	11/16/0723:30	11/05/0711:00	ID8K014072	ID8K014063	IPK009S	Field Sample
SB2-30'DL	J955-08J	5	9.8	11/16/0723:36	11/05/0711:00	ID8K014073	ID8K014063	IPK009S	Diluted Sample
MBLK1S	IPK009SB	1	NA	11/16/0723:58	11/05/0711:00	ID8K014077	ID8K014075	IPK009S	Method Blank
LCS1S	IPK009SL	1	NA	11/17/0700:03	11/05/0711:00	ID8K014078	ID8K014075	IPK009S	Lab Control Sample (LCS)
LCD1S	IPK009SC	1	NA	11/17/0700:08	11/05/0711:00	ID8K014079	ID8K014075	IPK009S	LCS Duplicate
SB2-30'MS	J955-08M	1	9.8	11/17/0700:14	11/05/0711:00	ID8K014080	ID8K014075	IPK009S	Matrix Spike Sample (MS)
SB2-30'MSD	J955-08S	1	9.8	11/17/0700:19	11/05/0711:00	ID8K014081	ID8K014075	IPK009S	MS Duplicate (MSD)
SB2-15'	J955-05	1	11.7	11/17/0700:25	11/05/0711:00	ID8K014082	ID8K014075	IPK009S	Field Sample
SB2-15'DUP	J955-06	1	8.5	11/17/0700:30	11/05/0711:00	ID8K014083	ID8K014075	IPK009S	Field Sample
SB2-20'	J955-07	1	12.5	11/17/0700:35	11/05/0711:00	ID8K014084	ID8K014075	IPK009S	Field Sample
SB2-35'	J955-09	1	9.8	11/17/0700:41	11/05/0711:00	ID8K014085	ID8K014075	IPK009S	Field Sample
SB2-40'	J955-10	1	8.2	11/17/0701:03	11/05/0711:00	ID8K014089	ID8K014087	IPK009S	Field Sample
SB2-45'	J955-11	1	10.7	11/17/0701:08	11/05/0711:00	ID8K014090	ID8K014087	IPK009S	Field Sample
SB2-50'	J955-12	1	5.1	11/17/0701:14	11/05/0711:00	ID8K014091	ID8K014087	IPK009S	Field Sample
SB2-55	J955-13	1	4.4	11/17/0701:19	11/05/0711:00	ID8K014092	ID8K014087	IPK009S	Field Sample
SB2-60'	J955-14	1	8.3	11/17/0701:25	11/05/0711:00	ID8K014093	ID8K014087	IPK009S	Field Sample
SB2-65'	J955-15	1	8.1	11/17/0701:30	11/05/0711:00	ID8K014094	ID8K014087	IPK009S	Field Sample
SB2-70'	J955-16	1	9.5	11/17/0701:36	11/05/0711:00	ID8K014095	ID8K014087	IPK009S	Field Sample
SB4-55'	J955-17	1	10.6	11/17/0701:41	11/05/0711:00	ID8K014096	ID8K014087	IPK009S	Field Sample
SB4-60'	J955-18	1	8.2	11/17/0701:46	11/05/0711:00	ID8K014097	ID8K014087	IPK009S	Field Sample
SB4-60'DUP	J955-19	1	8.4	11/17/0702:09	11/05/0711:00	ID8K014101	ID8K014099	IPK009S	Field Sample
SB4-65'	J955-20	1	8.6	11/17/0702:14	11/05/0711:00	ID8K014102	ID8K014099	IPK009S	Field Sample
SB4-70'	J955-21	1	9.1	11/17/0702:20	11/05/0711:00	ID8K014103	ID8K014099	IPK009S	Field Sample
SB1-70'	J955-22	1	9.3	11/17/0702:25	11/05/0711:00	ID8K014104	ID8K014099	IPK009S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 07:45
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/06/07 13:10
Sample ID:	LEB1-103007	Date Analyzed:	11/14/07 19:27
Lab Samp ID:	J955-02	Dilution Factor:	1
Lab File ID:	ID8K012053	Matrix :	WATER
Ext Btch ID:	IPK010W	% Moisture :	NA
Calib. Ref.:	ID8K012047	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 08:05
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/06/07 13:10
Sample ID:	LEB2-103007	Date Analyzed:	11/14/07 19:32
Lab Samp ID:	J955-03	Dilution Factor:	1
Lab File ID:	ID8K012054	Matrix :	WATER
Ext Btch ID:	IPK010W	% Moisture :	NA
Calib. Ref.:	ID8K012047	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 08:00
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/06/07 13:10
Sample ID:	SB5-58'	Date Analyzed:	11/14/07 19:38
Lab Samp ID:	J955-04	Dilution Factor:	1
Lab File ID:	ID8K012055	Matrix :	WATER
Ext Btch ID:	IPK010W	% Moisture :	NA
Calib. Ref.:	ID8K012047	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.0115	0.0100	0.00500
Barium	1.41	0.0100	0.00200
Beryllium	0.00870J	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	0.0122	0.0100	0.00500
Cobalt	0.0189	0.0100	0.00500
Copper	0.0493	0.0100	0.00500
Lead	0.0195	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	0.0164J	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	0.128	0.0100	0.00500
Zinc	0.198	0.0100	0.00500

Revised Report

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 09:25
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-15'	Date Analyzed:	11/17/07 00:25
Lab Samp ID:	J955-05	Dilution Factor:	1
Lab File ID:	ID8K014082	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	11.7
Calib. Ref.:	ID8K014075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.3	2.27
Arsenic	2.40	1.13	0.453
Barium	160	1.13	0.227
Beryllium	0.513J	1.13	0.227
Cadmium	ND	1.13	0.566
Chromium	19.7	2.27	1.13
Cobalt	10.9	2.27	1.13
Copper	21.0	2.27	0.566
Lead	6.86	1.13	0.227
Molybdenum	ND	5.66	0.566
Nickel	17.5	2.27	1.13
Selenium	0.569J	1.13	0.566
Silver	ND	2.27	0.566
Thallium	0.757J	1.13	0.566
Vanadium	47.6	2.27	0.566
Zinc	61.4	1.13	0.566

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 09:30
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-15'DUP	Date Analyzed:	11/17/07 00:30
Lab Samp ID:	J955-06	Dilution Factor:	1
Lab File ID:	ID8K014083	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	8.5
Calib. Ref.:	ID8K014075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.19
Arsenic	3.41	1.09	0.437
Barium	314	1.09	0.219
Beryllium	0.484J	1.09	0.219
Cadmium	0.556J	1.09	0.546
Chromium	21.6	2.19	1.09
Cobalt	10.9	2.19	1.09
Copper	21.4	2.19	0.546
Lead	7.18	1.09	0.219
Molybdenum	ND	5.46	0.546
Nickel	17.3	2.19	1.09
Selenium	0.678J	1.09	0.546
Silver	ND	2.19	0.546
Thallium	0.845J	1.09	0.546
Vanadium	51.1	2.19	0.546
Zinc	62.7	1.09	0.546

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 09:36
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-20'	Date Analyzed:	11/17/07 00:35
Lab Samp ID:	J955-07	Dilution Factor:	1
Lab File ID:	ID8K014084	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	12.5
Calib. Ref.:	ID8K014075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.4	2.29
Arsenic	5.17	1.14	0.457
Barium	161	1.14	0.229
Beryllium	0.803J	1.14	0.229
Cadmium	0.783J	1.14	0.571
Chromium	27.7	2.29	1.14
Cobalt	14.0	2.29	1.14
Copper	30.5	2.29	0.571
Lead	10.3	1.14	0.229
Molybdenum	ND	5.71	0.571
Nickel	21.5	2.29	1.14
Selenium	0.967J	1.14	0.571
Silver	ND	2.29	0.571
Thallium	0.949J	1.14	0.571
Vanadium	59.3	2.29	0.571
Zinc	68.7	1.14	0.571

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 10:20
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-30'	Date Analyzed:	11/16/07 23:30
Lab Samp ID:	J955-08	Dilution Factor:	1
Lab File ID:	ID8K014072	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	9.8
Calib. Ref.:	ID8K014063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	2.22
Arsenic	8.90	1.11	0.443
Barium	115	1.11	0.222
Beryllium	0.755J	1.11	0.222
Cadmium	ND	1.11	0.554
Chromium	36.3	2.22	1.11
Cobalt	12.7	2.22	1.11
Copper	25.4	2.22	0.554
Lead	7.44	1.11	0.222
Molybdenum	ND	5.54	0.554
Nickel	22.3	2.22	1.11
Selenium	1.21	1.11	0.554
Silver	ND	2.22	0.554
Thallium	0.970J	1.11	0.554
Vanadium	65.2	2.22	0.554
Zinc	71.2	1.11	0.554

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 10:25
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-35'	Date Analyzed:	11/17/07 00:41
Lab Samp ID:	J955-09	Dilution Factor:	1
Lab File ID:	ID8K014085	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	9.8
Calib. Ref.:	ID8K014075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	2.22
Arsenic	7.61	1.11	0.443
Barium	177	1.11	0.222
Beryllium	0.804J	1.11	0.222
Cadmium	0.659J	1.11	0.554
Chromium	44.3	2.22	1.11
Cobalt	12.9	2.22	1.11
Copper	28.4	2.22	0.554
Lead	8.55	1.11	0.222
Molybdenum	ND	5.54	0.554
Nickel	22.9	2.22	1.11
Selenium	1.15	1.11	0.554
Silver	ND	2.22	0.554
Thallium	0.967J	1.11	0.554
Vanadium	60.2	2.22	0.554
Zinc	71.4	1.11	0.554

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 10:45
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-40'	Date Analyzed:	11/17/07 01:03
Lab Samp ID:	J955-10	Dilution Factor:	1
Lab File ID:	ID8K014089	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	8.2
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	2.78	1.09	0.436
Barium	67.6	1.09	0.218
Beryllium	0.491J	1.09	0.218
Cadmium	ND	1.09	0.545
Chromium	14.0	2.18	1.09
Cobalt	7.86	2.18	1.09
Copper	16.6	2.18	0.545
Lead	4.76	1.09	0.218
Molybdenum	ND	5.45	0.545
Nickel	15.1	2.18	1.09
Selenium	0.998J	1.09	0.545
Silver	ND	2.18	0.545
Thallium	0.980J	1.09	0.545
Vanadium	29.7	2.18	0.545
Zinc	48.0	1.09	0.545

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 10:50
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-45'	Date Analyzed:	11/17/07 01:08
Lab Samp ID:	J955-11	Dilution Factor:	1
Lab File ID:	ID8K014090	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	10.7
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.2	2.24
Arsenic	5.82	1.12	0.448
Barium	161	1.12	0.224
Beryllium	0.908J	1.12	0.224
Cadmium	0.861J	1.12	0.560
Chromium	24.7	2.24	1.12
Cobalt	14.3	2.24	1.12
Copper	33.0	2.24	0.560
Lead	16.0	1.12	0.224
Molybdenum	ND	5.60	0.560
Nickel	25.0	2.24	1.12
Selenium	0.947J	1.12	0.560
Silver	ND	2.24	0.560
Thallium	0.943J	1.12	0.560
Vanadium	53.8	2.24	0.560
Zinc	85.8	1.12	0.560

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 11:10
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-50'	Date Analyzed:	11/17/07 01:14
Lab Samp ID:	J955-12	Dilution Factor:	1
Lab File ID:	ID8K014091	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	5.1
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.5	2.11
Arsenic	5.29	1.05	0.421
Barium	109	1.05	0.211
Beryllium	0.427J	1.05	0.211
Cadmium	0.780J	1.05	0.527
Chromium	19.2	2.11	1.05
Cobalt	7.51	2.11	1.05
Copper	19.2	2.11	0.527
Lead	8.57	1.05	0.211
Molybdenum	ND	5.27	0.527
Nickel	13.5	2.11	1.05
Selenium	ND	1.05	0.527
Silver	ND	2.11	0.527
Thallium	ND	1.05	0.527
Vanadium	30.0	2.11	0.527
Zinc	46.5	1.05	0.527

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 11:40
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-55	Date Analyzed:	11/17/07 01:19
Lab Samp ID:	J955-13	Dilution Factor:	1
Lab File ID:	ID8K014092	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	4.4
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.5	2.09
Arsenic	4.96	1.05	0.418
Barium	125	1.05	0.209
Beryllium	0.696J	1.05	0.209
Cadmium	0.890J	1.05	0.523
Chromium	27.4	2.09	1.05
Cobalt	10.8	2.09	1.05
Copper	22.5	2.09	0.523
Lead	9.17	1.05	0.209
Molybdenum	ND	5.23	0.523
Nickel	18.3	2.09	1.05
Selenium	0.913J	1.05	0.523
Silver	ND	2.09	0.523
Thallium	0.783J	1.05	0.523
Vanadium	56.8	2.09	0.523
Zinc	60.3	1.05	0.523

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 12:40
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-60'	Date Analyzed:	11/17/07 01:25
Lab Samp ID:	J955-14	Dilution Factor:	1
Lab File ID:	ID8K014093	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	8.3
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	1.98	1.09	0.436
Barium	65.3	1.09	0.218
Beryllium	0.407J	1.09	0.218
Cadmium	ND	1.09	0.545
Chromium	11.5	2.18	1.09
Cobalt	5.55	2.18	1.09
Copper	9.80	2.18	0.545
Lead	3.95	1.09	0.218
Molybdenum	ND	5.45	0.545
Nickel	9.07	2.18	1.09
Selenium	0.628J	1.09	0.545
Silver	ND	2.18	0.545
Thallium	0.583J	1.09	0.545
Vanadium	26.8	2.18	0.545
Zinc	34.6	1.09	0.545

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 13:03
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-65'	Date Analyzed:	11/17/07 01:30
Lab Samp ID:	J955-15	Dilution Factor:	1
Lab File ID:	ID8K014094	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	8.1
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	0.847J	1.09	0.435
Barium	35.0	1.09	0.218
Beryllium	0.248J	1.09	0.218
Cadmium	ND	1.09	0.544
Chromium	13.1	2.18	1.09
Cobalt	2.86	2.18	1.09
Copper	7.15	2.18	0.544
Lead	1.92	1.09	0.218
Molybdenum	ND	5.44	0.544
Nickel	6.29	2.18	1.09
Selenium	ND	1.09	0.544
Silver	ND	2.18	0.544
Thallium	ND	1.09	0.544
Vanadium	14.8	2.18	0.544
Zinc	20.8	1.09	0.544

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 13:16
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB2-70'	Date Analyzed:	11/17/07 01:36
Lab Samp ID:	J955-16	Dilution Factor:	1
Lab File ID:	ID8K014095	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	9.5
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.21
Arsenic	0.949J	1.10	0.442
Barium	36.3	1.10	0.221
Beryllium	0.254J	1.10	0.221
Cadmium	ND	1.10	0.552
Chromium	8.11	2.21	1.10
Cobalt	3.37	2.21	1.10
Copper	6.03	2.21	0.552
Lead	2.24	1.10	0.221
Molybdenum	ND	5.52	0.552
Nickel	5.16	2.21	1.10
Selenium	ND	1.10	0.552
Silver	ND	2.21	0.552
Thallium	ND	1.10	0.552
Vanadium	17.9	2.21	0.552
Zinc	20.5	1.10	0.552

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 16:10
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB4-55'	Date Analyzed:	11/17/07 01:41
Lab Samp ID:	J955-17	Dilution Factor:	1
Lab File ID:	ID8K014096	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	10.6
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.2	2.24
Arsenic	6.32	1.12	0.447
Barium	147	1.12	0.224
Beryllium	0.823J	1.12	0.224
Cadmium	0.666J	1.12	0.559
Chromium	24.1	2.24	1.12
Cobalt	13.6	2.24	1.12
Copper	29.0	2.24	0.559
Lead	11.5	1.12	0.224
Molybdenum	ND	5.59	0.559
Nickel	26.5	2.24	1.12
Selenium	1.09J	1.12	0.559
Silver	ND	2.24	0.559
Thallium	1.19	1.12	0.559
Vanadium	55.4	2.24	0.559
Zinc	85.8	1.12	0.559

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 16:20
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB4-60'	Date Analyzed:	11/17/07 01:46
Lab Samp ID:	J955-18	Dilution Factor:	1
Lab File ID:	ID8K014097	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	8.2
Calib. Ref.:	ID8K014087	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	7.51	1.09	0.436
Barium	108	1.09	0.218
Beryllium	0.708J	1.09	0.218
Cadmium	ND	1.09	0.545
Chromium	22.7	2.18	1.09
Cobalt	11.4	2.18	1.09
Copper	23.4	2.18	0.545
Lead	8.31	1.09	0.218
Molybdenum	ND	5.45	0.545
Nickel	20.1	2.18	1.09
Selenium	1.13	1.09	0.545
Silver	ND	2.18	0.545
Thallium	0.798J	1.09	0.545
Vanadium	48.4	2.18	0.545
Zinc	61.8	1.09	0.545

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 16:25
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB4-60'DUP	Date Analyzed:	11/17/07 02:09
Lab Samp ID:	J955-19	Dilution Factor:	1
Lab File ID:	ID8K014101	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	8.4
Calib. Ref.:	ID8K014099	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	8.20	1.09	0.437
Barium	126	1.09	0.218
Beryllium	0.821J	1.09	0.218
Cadmium	0.632J	1.09	0.546
Chromium	25.2	2.18	1.09
Cobalt	12.8	2.18	1.09
Copper	27.2	2.18	0.546
Lead	9.49	1.09	0.218
Molybdenum	ND	5.46	0.546
Nickel	22.8	2.18	1.09
Selenium	1.32	1.09	0.546
Silver	ND	2.18	0.546
Thallium	0.817J	1.09	0.546
Vanadium	54.6	2.18	0.546
Zinc	75.3	1.09	0.546

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 16:27
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB4-65'	Date Analyzed:	11/17/07 02:14
Lab Samp ID:	J955-20	Dilution Factor:	1
Lab File ID:	ID8K014102	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	8.6
Calib. Ref.:	ID8K014099	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.19
Arsenic	0.832J	1.09	0.438
Barium	60.1	1.09	0.219
Beryllium	0.324J	1.09	0.219
Cadmium	ND	1.09	0.547
Chromium	53.1	2.19	1.09
Cobalt	5.17	2.19	1.09
Copper	12.4	2.19	0.547
Lead	2.65	1.09	0.219
Molybdenum	ND	5.47	0.547
Nickel	8.90	2.19	1.09
Selenium	ND	1.09	0.547
Silver	ND	2.19	0.547
Thallium	ND	1.09	0.547
Vanadium	24.3	2.19	0.547
Zinc	34.0	1.09	0.547

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 16:36
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB4-70'	Date Analyzed:	11/17/07 02:20
Lab Samp ID:	J955-21	Dilution Factor:	1
Lab File ID:	ID8K014103	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	9.1
Calib. Ref.:	ID8K014099	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.20
Arsenic	1.23	1.10	0.440
Barium	46.3	1.10	0.220
Beryllium	0.297J	1.10	0.220
Cadmium	ND	1.10	0.550
Chromium	10.9	2.20	1.10
Cobalt	3.95	2.20	1.10
Copper	8.24	2.20	0.550
Lead	3.05	1.10	0.220
Molybdenum	ND	5.50	0.550
Nickel	6.55	2.20	1.10
Selenium	ND	1.10	0.550
Silver	ND	2.20	0.550
Thallium	ND	1.10	0.550
Vanadium	16.3	2.20	0.550
Zinc	27.9	1.10	0.550

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/30/07 17:23
Project	: LMC BEAUMONT SITE 2	Date Received:	10/31/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	SB1-70'	Date Analyzed:	11/17/07 02:25
Lab Samp ID:	J955-22	Dilution Factor:	1
Lab File ID:	ID8K014104	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	9.3
Calib. Ref.:	ID8K014099	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.21
Arsenic	0.777J	1.10	0.441
Barium	40.2	1.10	0.221
Beryllium	0.267J	1.10	0.221
Cadmium	ND	1.10	0.551
Chromium	8.51	2.21	1.10
Cobalt	3.25	2.21	1.10
Copper	6.89	2.21	0.551
Lead	2.48	1.10	0.221
Molybdenum	ND	5.51	0.551
Nickel	5.34	2.21	1.10
Selenium	ND	1.10	0.551
Silver	ND	2.21	0.551
Thallium	ND	1.10	0.551
Vanadium	13.5	2.21	0.551
Zinc	22.0	1.10	0.551

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/06/07
SDG NO.	: 07J955	Date Extracted:	11/06/07 13:10
Sample ID:	MBLK1W	Date Analyzed:	11/14/07 17:59
Lab Samp ID:	IPK010WB	Dilution Factor:	1
Lab File ID:	ID8K012037	Matrix :	WATER
Ext Btch ID:	IPK010W	% Moisture :	NA
Calib. Ref.:	ID8K012035	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPK010WB	IPK010WL	IPK010WC		
LAB FILE ID:	ID8K012037	ID8K012038	ID8K012039		
DATIME EXTRCTD:	11/06/0713:10	11/06/0713:10	11/06/0713:10	DATE COLLECTED:	NA
DATIME ANALYZD:	11/14/0717:59	11/14/0718:04	11/14/0718:10	DATE RECEIVED:	11/06/07
PREP. BATCH:	IPK010W	IPK010W	IPK010W		
CALIB. REF:	ID8K012035	ID8K012035	ID8K012035		

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	5.01	100	5	4.87	97	3	80-120	20
Arsenic	ND	1	.995	99	1	.97	97	3	80-120	20
Barium	ND	1	.961	96	1	.947	95	1	80-120	20
Beryllium	ND	1	1.03	103	1	.999	100	3	80-120	20
Cadmium	ND	1	1.03	103	1	1.01	101	2	80-120	20
Chromium	ND	1	.985	98	1	.942	94	4	80-120	20
Cobalt	ND	1	1.01	101	1	.99	99	2	80-120	20
Copper	ND	1	.987	99	1	.957	96	3	80-120	20
Lead	ND	1	1	100	1	.98	98	2	80-120	20
Molybdenum	ND	1	1.04	104	1	1.02	102	1	80-120	20
Nickel	ND	1	1.01	101	1	.985	99	2	80-120	20
Selenium	ND	1	.976	98	1	.943	94	3	80-120	20
Silver	ND	1	.975	97	1	.933	93	4	80-120	20
Thallium	ND	1	.962	96	1	.944	94	2	80-120	20
Vanadium	ND	1	1	100	1	.961	96	4	80-120	20
Zinc	ND	1	1.04	104	1	1.03	103	1	80-120	20

Revised Report

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	TF-35	TF-35DL		
EMAX SAMP ID:	J393-02	J393-02J		
LAB FILE ID:	ID8K012041	ID8K012042		
DATE EXTRACTED:	11/06/0713:10	11/06/0713:10	DATE COLLECTED:	10/30/07 11:25
DATE ANALYZED:	11/14/0718:20	11/14/0718:26	DATE RECEIVED:	10/31/07
PREP. BATCH:	IPK010W	IPK010W		
CALIB. REF:	ID8K012035	ID8K012035		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	0.157	0.142	10	10
Barium	0.239	0.235	2	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	ND	ND	0	10
Cobalt	ND	ND	0	10
Copper	ND	ND	0	10
Lead	ND	ND	0	10
Molybdenum	0.0595	0.0581J	NA	10
Nickel	ND	ND	0	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	ND	ND	0	10
Zinc	ND	ND	0	10

Revised Report

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	TF-35			
CONTROL NO.:	J393-02	J393-02A		
LAB FILE ID:	ID8K012041	ID8K012040		
DATIME EXTRCTD:	11/06/0713:10	11/06/0713:10	DATE COLLECTED:	10/30/07 11:25
DATIME ANALYZD:	11/14/0718:20	11/14/0718:15	DATE RECEIVED:	10/31/07
PREP. BATCH:	IPK010W	IPK010W		
CALIB. REF:	ID8K012035	ID8K012035		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
Antimony	ND	5	5.18	104	75-125
Arsenic	.157	1	1.2	105	75-125
Barium	.239	1	1.18	94	75-125
Beryllium	ND	1	.986	99	75-125
Cadmium	ND	1	1	100	75-125
Chromium	ND	1	.933	93	75-125
Cobalt	ND	1	.966	97	75-125
Copper	ND	1	.895	89	75-125
Lead	ND	1	.963	96	75-125
Molybdenum	.0595	1	1.06	100	75-125
Nickel	ND	1	.963	96	75-125
Selenium	ND	1	1.06	106	75-125
Silver	ND	1	.958	96	75-125
Thallium	ND	1	.897	90	75-125
Vanadium	ND	1	.959	96	75-125
Zinc	ND	1	1.03	103	75-125

Revised Report

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/05/07
SDG NO.	: 07J955	Date Extracted:	11/05/07 11:00
Sample ID:	MBLK1S	Date Analyzed:	11/16/07 23:58
Lab Samp ID:	IPK009SB	Dilution Factor:	1
Lab File ID:	ID8K014077	Matrix :	SOIL
Ext Btch ID:	IPK009S	% Moisture :	NA
Calib. Ref.:	ID8K014075	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	2.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.500
Chromium	ND	2.00	1.00
Cobalt	ND	2.00	1.00
Copper	ND	2.00	0.500
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	2.00	1.00
Selenium	ND	1.00	0.500
Silver	ND	2.00	0.500
Thallium	ND	1.00	0.500
Vanadium	ND	2.00	0.500
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPK009SB	IPK009SL	IPK009SC		
LAB FILE ID:	ID8K014077	ID8K014078	ID8K014079		
DATIME EXTRCTD:	11/05/0711:00	11/05/0711:00	11/05/0711:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/16/0723:58	11/17/0700:03	11/17/0700:08	DATE RECEIVED:	11/05/07
PREP. BATCH:	IPK009S	IPK009S	IPK009S		
CALIB. REF:	ID8K014075	ID8K014075	ID8K014075		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	500	483	97	500	483	97	0	80-120	20
Arsenic	ND	100	96.4	96	100	96.3	96	0	80-120	20
Barium	ND	100	98.1	98	100	97.7	98	0	80-120	20
Beryllium	ND	100	101	101	100	100	100	0	80-120	20
Cadmium	ND	100	101	101	100	101	101	0	80-120	20
Chromium	ND	100	94.7	95	100	94.8	95	0	80-120	20
Cobalt	ND	100	100	100	100	99.8	100	0	80-120	20
Copper	ND	100	100	100	100	99.9	100	0	80-120	20
Lead	ND	100	99	99	100	98.6	99	0	80-120	20
Molybdenum	ND	100	104	104	100	104	104	0	80-120	20
Nickel	ND	100	100	100	100	99.6	100	0	80-120	20
Selenium	ND	100	93.9	94	100	93.8	94	0	80-120	20
Silver	ND	100	94.1	94	100	94.2	94	0	80-120	20
Thallium	ND	100	96.9	97	100	96.7	97	0	80-120	20
Vanadium	ND	100	97.6	98	100	97.7	98	0	80-120	20
Zinc	ND	100	104	104	100	103	103	0	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	9.8
DILTN FACTR:	1	1	1		
SAMPLE ID:	SB2-30'				
CONTROL NO.:	J955-08	J955-08M	J955-08S		
LAB FILE ID:	ID8K014072	ID8K014080	ID8K014081		
DATIME EXTRCTD:	11/05/0711:00	11/05/0711:00	11/05/0711:00	DATE COLLECTED:	10/30/07 10:20
DATIME ANALYZD:	11/16/0723:30	11/17/0700:14	11/17/0700:19	DATE RECEIVED:	10/31/07
PREP. BATCH:	IPK009S	IPK009S	IPK009S		
CALIB. REF:	ID8K014063	ID8K014075	ID8K014075		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	554	171	31*	554	163	29*	5	75-125	20
Arsenic	8.9	111	106	87	111	105	87	1	75-125	20
Barium	115	111	236	109	111	218	93	8	75-125	20
Beryllium	.755J	111	103	92	111	102	91	1	75-125	20
Cadmium	.554J	111	104	93	111	102	92	1	75-125	20
Chromium	36.3	111	132	86	111	131	85	1	75-125	20
Cobalt	12.7	111	114	92	111	113	90	1	75-125	20
Copper	25.4	111	128	93	111	128	93	0	75-125	20
Lead	7.44	111	108	91	111	107	90	1	75-125	20
Molybdenum	ND	111	103	93	111	101	91	2	75-125	20
Nickel	22.3	111	124	91	111	122	90	1	75-125	20
Selenium	1.21	111	92.8	83	111	90	80	3	75-125	20
Silver	ND	111	101	91	111	100	90	1	75-125	20
Thallium	.97J	111	95.9	86	111	94.3	84	2	75-125	20
Vanadium	65.2	111	163	88	111	166	91	2	75-125	20
Zinc	71.2	111	177	95	111	174	93	1	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	9.8
DILUTION FACTOR:	1	5		
SAMPLE ID:	SB2-30'	SB2-30'DL		
EMAX SAMP ID:	J955-08	J955-08J		
LAB FILE ID:	ID8K014072	ID8K014073		
DATE EXTRACTED:	11/05/0711:00	11/05/0711:00	DATE COLLECTED:	10/30/07 10:20
DATE ANALYZED:	11/16/0723:30	11/16/0723:36	DATE RECEIVED:	10/31/07
PREP. BATCH:	IPK009S	IPK009S		
CALIB. REF:	ID8K014063	ID8K014063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	8.90	8.39	6	10
Barium	115	114	1	10
Beryllium	0.755J	ND	NA	10
Cadmium	0.554J	ND	NA	10
Chromium	36.3	37.6	4	10
Cobalt	12.7	12.6	1	10
Copper	25.4	26.2	3	10
Lead	7.44	6.62	11*	10
Molybdenum	ND	ND	0	10
Nickel	22.3	22.1	1	10
Selenium	1.21	ND	NA	10
Silver	ND	ND	0	10
Thallium	0.970J	ND	NA	10
Vanadium	65.2	66.2	2	10
Zinc	71.2	70.7	1	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	9.8
DILTN FACTR:	1	1		
SAMPLE ID:	SB2-30'			
CONTROL NO.:	J955-08	J955-08A		
LAB FILE ID:	ID8K014072	ID8K014071		
DATIME EXTRCTD:	11/05/0711:00	11/05/0711:00	DATE COLLECTED:	10/30/07 10:20
DATIME ANALYZD:	11/16/0723:30	11/16/0723:25	DATE RECEIVED:	10/31/07
PREP. BATCH:	IPK009S	IPK009S		
CALIB. REF:	ID8K014063	ID8K014063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Antimony	ND	554	543	98	75-125
Arsenic	8.9	111	118	98	75-125
Barium	115	111	221	96	75-125
Beryllium	.755J	111	110	98	75-125
Cadmium	.554J	111	113	101	75-125
Chromium	36.3	111	138	92	75-125
Cobalt	12.7	111	122	99	75-125
Copper	25.4	111	133	97	75-125
Lead	7.44	111	116	98	75-125
Molybdenum	ND	111	116	105	75-125
Nickel	22.3	111	130	98	75-125
Selenium	1.21	111	107	96	75-125
Silver	ND	111	107	97	75-125
Thallium	.97J	111	105	93	75-125
Vanadium	65.2	111	169	94	75-125
Zinc	71.2	111	182	100	75-125

TRACE-LOW ICP QC CHECK TABLE

QC	ICV HIGH	ICV	CCV	ICSAB	ICSA
Limit%	95-105	90-110	90-110	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg/L
Al	10	5	5	500	500
Sb	1	0.5	0.5	1	0
As	1	0.5	0.5	1	0
Ba	1	0.5	0.5	0.5	0
Be	1	0.5	0.5	0.5	0
B	1	0.5	0.5	0.5	0
Cd	1	0.5	0.5	1	0
Ca	100	50	50	500	500
Cr	1	0.5	0.5	0.5	0
Co	1	0.5	0.5	0.5	0
Cu	1	0.5	0.5	0.5	0
Fe	10	5	5	200	200
Pb	1	0.5	0.5	1	0
Li	1	0.5	0.5	0.5	0
Mg	100	50	50	500	500
Mn	1	0.5	0.5	0.5	0
Mo	1	0.5	0.5	1	0
Ni	1	0.5	0.5	1	0
K	100	50	50	75	0
Se	1	0.5	0.5	1	0
Si	1	0.5	0.5	1	0
Ag	1	0.5	0.5	1	0
Na	100	50	50	75	0
Sr	1	0.5	0.5	0.5	0
Tl	1	0.5	0.5	1	0
Sn	1	0.5	0.5	1	0
Ti	1	0.5	0.5	1	0
U	10	5	5	1	0
V	1	0.5	0.5	0.5	0
Zn	1	0.5	0.5	1	0

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/14/07 14:39

End Date: 11/15/07 02:43

Comments:

ICV B↑

1PK0295B ↑Se

K191-01A ↑Se

Book #: AD8-003

Instrument No.: D8

Analytical Batch: 1D8K012

Analytical Sequence: S_6010107 (V8)

Method File: 6010107 (V8)

SOP #	Rev. #
☑ EMAX-6010	5
☑ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	SM1B11-01.03
S3	NA
S4	NA
S5	SM1B11-01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B10.93.05
CCV	10-93.04
ICSA	10.93.03
ICSAB	10.95.05
CRI/MRL	

Analyzed By: CJC

Date: 11/15/07

SEQUENCE FILE : ID8K012

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K012001	Blank	14:39	11/14/07	1.000
ID8K012002	S2	14:45	11/14/07	1.000
ID8K012003	S5	14:50	11/14/07	1.000
ID8K012004	S8	14:56	11/14/07	1.000
ID8K012005	ICV	15:01	11/14/07	1.000
ID8K012006	ICB	15:07	11/14/07	1.000
ID8K012007	CCV	15:12	11/14/07	1.000
ID8K012008	CCB	15:18	11/14/07	1.000
ID8K012009	ICSAI	15:23	11/14/07	1.000
ID8K012010	ICSABI	15:29	11/14/07	1.000
ID8K012011	CCV1	15:34	11/14/07	1.000
ID8K012012	CCB1	15:40	11/14/07	1.000
ID8K012013	J254-01	15:45	11/14/07	1.000
ID8K012014	J254-01D	15:51	11/14/07	1.000
ID8K012015	J254-01J	15:56	11/14/07	5.000
ID8K012016	J254-01	16:02	11/14/07	1.000
ID8K012017	IPK000WB	16:07	11/14/07	1.000
ID8K012018	IPK000WL	16:13	11/14/07	1.000
ID8K012019	IPK000WC	16:18	11/14/07	1.000
ID8K012020	BLANK	16:23	11/14/07	1.000
ID8K012021	ICSAF	16:29	11/14/07	1.000
ID8K012022	ICSABF	16:34	11/14/07	1.000
ID8K012023	CCV2	16:40	11/14/07	1.000
ID8K012024	CCB2	16:45	11/14/07	1.000
ID8K012025	G144-01	16:51	11/14/07	1.000
ID8K012026	G144-01D	16:56	11/14/07	1.000
ID8K012027	BLANK	17:02	11/14/07	1.000
ID8K012028	B	17:07	11/14/07	1.000
ID8K012029	Fe	17:13	11/14/07	1.000
ID8K012030	Mn	17:18	11/14/07	1.000
ID8K012031	V	17:24	11/14/07	1.000
ID8K012032	BLANK	17:29	11/14/07	1.000
ID8K012033	J254-01	17:37	11/14/07	1.000
ID8K012034	J254-01D	17:42	11/14/07	1.000
ID8K012035	CCV3	17:48	11/14/07	1.000
ID8K012036	CCB3	17:53	11/14/07	1.000
ID8K012037	IPK010WB	17:59	11/14/07	1.000
ID8K012038	IPK010WL	18:04	11/14/07	1.000
ID8K012039	IPK010WC	18:10	11/14/07	1.000
ID8K012040	J393-02A	18:15	11/14/07	1.000
ID8K012041	J393-02	18:20	11/14/07	1.000
ID8K012042	J393-02J	18:26	11/14/07	5.000
ID8K012043	J393-03	18:31	11/14/07	1.000
ID8K012044	J393-04	18:37	11/14/07	1.000
ID8K012045	K008-03	18:43	11/14/07	1.000
ID8K012046	BLANK	18:48	11/14/07	1.000
ID8K012047	CCV4	18:54	11/14/07	1.000
ID8K012048	CCB4	18:59	11/14/07	1.000
ID8K012049	K008-04	19:05	11/14/07	1.000
ID8K012050	J549-01	19:10	11/14/07	1.000
ID8K012051	K017-02	19:16	11/14/07	1.000
ID8K012052	K017-03	19:21	11/14/07	1.000
ID8K012053	J955-02	19:27	11/14/07	1.000
ID8K012054	J955-03	19:32	11/14/07	1.000
ID8K012055	J955-04	19:38	11/14/07	1.000

ID8K012056	BLANK	19:44	11/14/07	1.000
ID8K012057	ICSAF	19:49	11/14/07	1.000
ID8K012058	ICSABF	19:55	11/14/07	1.000
ID8K012059	CCV5	20:00	11/14/07	1.000
ID8K012060	CCB5	20:06	11/14/07	1.000
ID8K012061	IPJ066SB	20:11	11/14/07	1.000
ID8K012062	IPJ066SL	20:17	11/14/07	1.000
ID8K012063	IPJ066SC	20:22	11/14/07	1.000
ID8K012064	J346-02M	20:27	11/14/07	1.000
ID8K012065	J346-02S	20:33	11/14/07	1.000
ID8K012066	J346-02A	20:38	11/14/07	1.000
ID8K012067	J346-02	20:44	11/14/07	1.000
ID8K012068	J346-02J	20:49	11/14/07	5.000
ID8K012069	J346-01	20:55	11/14/07	1.000
ID8K012070	BLANK	21:00	11/14/07	1.000
ID8K012071	CCV6	21:06	11/14/07	1.000
ID8K012072	CCB6	21:11	11/14/07	1.000
ID8K012073	J346-03	21:17	11/14/07	1.000
ID8K012074	J346-04	21:22	11/14/07	1.000
ID8K012075	J346-05	21:28	11/14/07	1.000
ID8K012076	J346-06	21:33	11/14/07	1.000
ID8K012077	J346-07	21:39	11/14/07	1.000
ID8K012078	J346-08	21:44	11/14/07	1.000
ID8K012079	J346-09	21:50	11/14/07	1.000
ID8K012080	J346-10	21:56	11/14/07	1.000
ID8K012081	J346-11	22:01	11/14/07	1.000
ID8K012082	BLANK	22:06	11/14/07	1.000
ID8K012083	CCV7	22:12	11/14/07	1.000
ID8K012084	CCB7	22:17	11/14/07	1.000
ID8K012085	J346-12	22:23	11/14/07	1.000
ID8K012086	J346-13	22:28	11/14/07	1.000
ID8K012087	K044-03	22:34	11/14/07	1.000
ID8K012088	K044-16	22:40	11/14/07	1.000
ID8K012089	BLANK	22:45	11/14/07	1.000
ID8K012090	CCV8	22:51	11/14/07	1.000
ID8K012091	CCB8	22:56	11/14/07	1.000
ID8K012092	IPK029SB	23:02	11/14/07	1.000
ID8K012093	IPK029SL	23:07	11/14/07	1.000
ID8K012094	IPK029SC	23:13	11/14/07	1.000
ID8K012095	K191-01A	23:18	11/14/07	1.000
ID8K012096	K191-01	23:24	11/14/07	1.000
ID8K012097	K191-01J	23:29	11/14/07	5.000
ID8K012098	K191-02	23:35	11/14/07	1.000
ID8K012099	K191-03	23:40	11/14/07	1.000
ID8K012100	BLANK	23:46	11/14/07	1.000
ID8K012101	CCV9	23:52	11/14/07	1.000
ID8K012102	CCB9	23:57	11/14/07	1.000
ID8K012103	IPK025WB	00:02	11/15/07	1.000
ID8K012104	WTK001SB	00:08	11/15/07	1.000
ID8K012105	IPK025WL	00:14	11/15/07	1.000
ID8K012106	IPK025WC	00:19	11/15/07	1.000
ID8K012107	J951-01A	00:24	11/15/07	1.000
ID8K012108	J951-01	00:30	11/15/07	1.000
ID8K012109	J951-01J	00:35	11/15/07	5.000
ID8K012110	J951-02	00:41	11/15/07	1.000
ID8K012111	BLANK	00:46	11/15/07	1.000
ID8K012112	CCV10	00:52	11/15/07	1.000
ID8K012113	CCB10	00:57	11/15/07	1.000

ID8K012114	J331-01	01:03	11/15/07	10.000
ID8K012115	J347-04	01:09	11/15/07	10.000
ID8K012116	J347-06	01:14	11/15/07	20.000
ID8K012117	J347-11M	01:20	11/15/07	20.000
ID8K012118	J347-11S	01:25	11/15/07	20.000
ID8K012119	J347-11A	01:31	11/15/07	20.000
ID8K012120	J347-11	01:36	11/15/07	20.000
ID8K012121	J347-11J	01:42	11/15/07	100.000
ID8K012122	J347-07	01:47	11/15/07	20.000
ID8K012123	BLANK	01:53	11/15/07	1.000
ID8K012124	CCV11	01:59	11/15/07	1.000
ID8K012125	CCB11	02:04	11/15/07	1.000
ID8K012126	J347-08	02:10	11/15/07	20.000
ID8K012127	J347-09	02:15	11/15/07	20.000
ID8K012128	J347-10	02:21	11/15/07	20.000
ID8K012129	J347-12	02:26	11/15/07	20.000
ID8K012130	BLANK	02:32	11/15/07	1.000
ID8K012131	CCV12	02:37	11/15/07	1.000
ID8K012132	CCB12	02:43	11/15/07	1.000

SDG : 07J955 UNIT : % SUMMARY of ICV and CCV : ID8K012 DATE : 11/14/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	96	100	100	97	100	111*	100	100	99	99	94	102	99	98	97	101	99	98	99	101	98	94	102	102
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV	96	97	98	97	99	102	102	99	96	99	92	97	97	98	95	103	99	96	99	98	97	94	100	101
CCB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	90	----	----	----	----	----	----	94	----	----	----	93	----	100	----	----	----	----	----	----	----	----	----	----
ICSABI	91	104	104	105	100	99	104	94	98	100	95	94	95	100	94	107	99	109	103	111	108	91	102	102
CCV1	98	98	98	96	99	103	101	99	97	99	93	98	97	99	96	103	98	97	99	99	97	94	100	100
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	90	----	----	----	----	----	----	93	----	----	----	91	----	100	----	----	----	----	----	----	----	----	----	----
ICSABF	90	104	103	104	100	98	103	93	97	99	95	93	95	100	95	107	98	108	102	111	107	91	100	102
CCV2	100	100	100	97	100	105	103	100	99	100	95	101	98	101	97	105	100	98	100	101	98	95	102	102
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	98	99	99	96	100	105	102	99	98	100	96	100	98	100	96	105	100	97	100	99	98	95	100	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	101	99	96	100	107	102	98	98	99	99	101	98	100	95	105	99	98	100	101	98	96	99	101
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J549-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

7038

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	93	----	----	----	----	----	----	93	----	----	----	94	----	102	----	----	----	----	----	----	----	----	----	----
ICSABF	93	105	103	103	100	99	103	91	95	98	99	94	95	100	93	107	98	108	103	109	106	92	97	104
CCV5	104	101	99	94	99	106	99	96	97	97	99	101	97	99	94	103	97	97	100	100	97	95	98	100
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	100	101	98	93	99	104	100	96	96	97	99	101	97	100	94	103	97	97	99	97	96	95	97	102
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	101	101	99	94	99	103	101	95	95	98	99	100	97	100	94	104	98	96	100	97	96	96	97	101
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	101	101	98	93	98	105	100	95	97	97	100	102	98	100	93	103	97	97	99	99	96	96	97	102
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	103	103	100	94	98	107	101	95	98	98	103	103	99	100	93	104	98	98	101	100	97	97	98	102
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	102	102	99	94	98	106	100	94	97	98	102	102	98	98	92	103	98	98	101	99	97	96	97	101
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	103	104	100	95	99	108	101	96	98	99	105	103	99	99	92	104	99	100	102	100	99	97	99	103
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	102	102	99	94	97	106	100	94	97	97	104	102	98	97	91	103	97	99	100	99	98	95	97	101
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 07J955 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K012 (WATER) DATE : 11/14/07 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-4.57	.810	1.61	-.920	-.080	-.960	.030	-313	.270	-.030	-.350	2.18	-.240	-127	-1.19	.050	-.200	-49.8	-1.34	.420	-629	.450	.080	-1.12
CCV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB	-4.74	1.25	-.300	-.740	.080	-.650	.070	-297	.060	.120	-.270	1.49	-.080	-173	-1.67	.010	.230	-51.8	-.300	.230	-646	.950	.060	-1.19
ICSAI	----	1.72	-6.84	-1.55	-.260	-48.9	3.77	----	.370	.310	2.63	----	-17.7	----	-1.01	-2.05	-.090	5.96	4.36	.030	-507	-.650	.160	5.76
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.04	.530	1.53	-1.07	.050	-.870	.090	-297	.220	.040	-.300	4.50	-.190	-85.1	-1.40	.020	-.020	10.6	.250	.130	-634	.520	.080	-1.18
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	4.51	-9.65	-.580	-.340	-48.8	3.91	----	.430	.450	2.34	----	-18.1	----	-2.57	-1.97	-.340	-46.9	5.90	5.45	-527	-.990	.110	-5.93
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.26	2.34	-.390	-.160	-.080	-.480	.110	-293	.250	-.050	-.240	5.80	.430	-129	-2.26	.150	.110	-9.94	-1.82	.340	-635	.610	.160	-.980
G144-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-9.85	.730	-.330	-1.07	.320	.490	.060	-307	.220	-.040	-.160	-.020	-.610	-147	-2.29	.080	-.090	-57.0	-1.35	.280	-663	.590	.240	-.830
IPK010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-8.99	1.14	-.370	-.910	.010	.480	.040	-304	.110	-.020	.140	-1.59	-.040	-183	-1.76	.050	-.180	-28.1	-.840	.190	-543	.830	-.060	-.210
K008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J549-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	2.84	-5.64	-2.14	-.040	-43.2	5.37	----	.180	.260	2.74	----	-17.7	----	-3.99	-1.98	-.050	71.2	6.64	-.340	-320	-.760	-.300	-6.09
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	2.95	.940	-.020	-.870	.210	-.640	.040	-308	-.020	.050	.010	1.62	.220	-192	-.780	.070	-.050	16.3	-.160	.270	-589	.810	-.030	-1.53
IPJ066SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-9.63	1.61	-1.76	-1.06	.120	-.400	.080	-288	.030	.040	-.040	-1.48	.170	-132	-.780	.110	.010	-67.2	-.550	.380	-651	1.000	-.120	-1.11
J346-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-9.64	1.26	-.310	-1.60	.180	-.660	.040	-305	.030	-.120	-.030	1.57	-.580	-140	-2.45	.070	-.130	-7.09	.050	.260	-678	.540	-.040	-.210
J346-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-2.14	1.26	.070	-1.48	.180	-.130	.030	-293	.150	.080	-.090	2.03	-.730	-125	-2.64	.110	-.030	-21.0	-.260	.150	-697	.270	.080	5.63
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-8.57	1.35	-.810	-1.31	.170	-.780	.100	-311	.130	-.110	.210	2.36	.000	-113	-1.62	-.040	-.230	-16.1	-.790	.300	-543	.770	-.010	-1.59
IPK025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-9.93	1.000	.060	-1.90	-.230	-.710	.030	-314	.080	.000	-.030	-.130	.230	-133	-.890	.130	.080	-9.35	.260	.000	-395	1.04	-.160	-1.84

J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-12.4	1.20	-.910	-1.03	-.130	1.10	.100	-317	.270	-.070	-.110	-1.25	.320	-176	-1.61	.090	.100	-28.0	-.730	.070	-492	.990	-.090	-1.79
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-11.8	.990	-.670	-.720	.300	.780	.050	-312	.160	-.070	.150	-2.27	-.160	-167	-1.86	.070	.230	-19.6	.680	.270	-551	.930	.050	-1.39

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	QC	CCV4		ID8K012047			1	☒	CCV	Continue
48	44	QC	CCB4		ID8K012048			1	☒	CCB1	Continue
49	45	Unk	K008-04		ID8K012049			1	☐		Continue
50	46	Unk	J549-01		ID8K012050			1	☐		Continue
51	47	Unk	K017-02		ID8K012051			1	☐		Continue
52	48	Unk	K017-03		ID8K012052			1	☐		Continue
53	49	Unk	J955-02		ID8K012053			1	☐		Continue
54	50	Unk	J955-03		ID8K012054			1	☐		Continue
55	51	Unk	J955-04		ID8K012055			1	☐		Continue
56	52	Unk	BLANK		ID8K012056			1	☐		Continue
57	53	QC	ICSAF		ID8K012057			1	☒	ICSA	Continue
58	54	QC	ICSABF		ID8K012058			1	☒	ICSAB	Continue
59	55	QC	CCV5		ID8K012059			1	☒	CCV	Continue
60	56	QC	CCB5		ID8K012060			1	☒	CCB1	Continue
61	57	QC	IPJ066SB		ID8K012061			1	☒	CCB1	Continue
62	58	QC	IPJ066SL		ID8K012062			1	☒	LCS	Continue
63	59	QC	IPJ066SC		ID8K012063			1	☒	LCS	Continue
64	60	Unk	J346-02M		ID8K012064			1	☐		Continue
65	61	Unk	J346-02S		ID8K012065			1	☐		Continue
66	62	Unk	J346-02A		ID8K012066			1	☐		Continue
67	63	Unk	J346-02		ID8K012067			1	☐		Continue
68	64	Unk	J346-02J		ID8K012068			1	☐		Continue
69	65	Unk	J346-01		ID8K012069			1	☐		Continue
70	66	Unk	BLANK		ID8K012070			1	☐		Continue
71	67	QC	CCV6		ID8K012071			1	☒	CCV	Continue
72	68	QC	CCB6		ID8K012072			1	☒	CCB1	Continue
73	69	Unk	J346-03		ID8K012073			1	☐		Continue
74	70	Unk	J346-04		ID8K012074			1	☐		Continue
75	71	Unk	J346-05		ID8K012075			1	☐		Continue
76	72	Unk	J346-06		ID8K012076			1	☐		Continue
77	73	Unk	J346-07		ID8K012077			1	☐		Continue
78	74	Unk	J346-08		ID8K012078			1	☐		Continue
79	75	Unk	J346-09		ID8K012079			1	☐		Continue
80	76	Unk	J346-10		ID8K012080			1	☐		Continue
81	77	Unk	J346-11		ID8K012081			1	☐		Continue
82	78	Unk	BLANK		ID8K012082			1	☐		Continue
83	79	QC	CCV7		ID8K012083			1	☒	CCV	Continue
84	80	QC	CCB7		ID8K012084			1	☒	CCB1	Continue
85	81	Unk	J346-12		ID8K012085			1	☐		Continue
86	82	Unk	J346-13		ID8K012086			1	☐		Continue
87	83	Unk	K044-03	IPK015S	ID8K012087			1	☐		Continue
88	84	Unk	K044-16	↑Sn	ID8K012088			1	☐		Continue
89	85	Unk	BLANK		ID8K012089			1	☐		Continue
90	86	QC	CCV8		ID8K012090			1	☒	CCV	Continue
91	87	QC	CCB8		ID8K012091			1	☒	CCB1	Continue
92	88	QC	IPK029SB	↑Se	ID8K012092			1	☒	CCB1	Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	QC	IPK029SL		ID8K012093			1	☒	LCS	Continue
94	90	QC	IPK029SC		ID8K012094			1	☒	LCS	Continue
95	91	Unk	K191-01A	Je	ID8K012095			1	☐		Continue
96	92	Unk	K191-01		ID8K012096			1	☐		Continue
97	93	Unk	K191-01J		ID8K012097			1	☐		Continue
98	94	Unk	K191-02		ID8K012098			1	☐		Continue
99	95	Unk	K191-03		ID8K012099			1	☐		Continue
100	96	Unk	BLANK		ID8K012100			1	☐		Continue
101	97	QC	CCV9		ID8K012101			1	☒	CCV	Continue
102	98	QC	CCB9		ID8K012102			1	☒	CCB1	Continue
103	99	QC	IPK025WB		ID8K012103			1	☒	CCB1	Continue
104	100	QC	WTK001SB		ID8K012104			1	☒	CCB1	Continue
105	101	QC	IPK025WL		ID8K012105			1	☒	LCS	Continue
106	102	QC	IPK025WC		ID8K012106			1	☒	LCS	Continue
107	103	Unk	J951-01A		ID8K012107			1	☐		Continue
108	104	Unk	J951-01		ID8K012108			1	☐		Continue
109	105	Unk	J951-01J		ID8K012109			1	☐		Continue
110	106	Unk	J951-02		ID8K012110			1	☐		Continue
111	107	Unk	BLANK		ID8K012111			1	☐		Continue
112	108	QC	CCV10		ID8K012112			1	☒	CCV	Continue
113	109	QC	CCB10		ID8K012113			1	☒	CCB1	Continue
114	110	Unk	J331-01	10X, IPJ062W ↑Na	ID8K012114			1	☐		Continue
115	111	Unk	J347-04	10X	ID8K012115			1	☐		Continue
116	112	Unk	J347-06	20X	ID8K012116			1	☐		Continue
117	113	Unk	J347-11M	20X	ID8K012117			1	☐		Continue
118	114	Unk	J347-11S	20X	ID8K012118			1	☐		Continue
119	115	Unk	J347-11A	20X	ID8K012119			1	☐		Continue
120	116	Unk	J347-11	20X	ID8K012120			1	☐		Continue
121	117	Unk	J347-11J	100X	ID8K012121			1	☐		Continue
122	118	Unk	J347-07	20X	ID8K012122			1	☐		Continue
123	119	Unk	BLANK		ID8K012123			1	☐		Continue
124	120	QC	CCV11		ID8K012124			1	☒	CCV	Continue
125	121	QC	CCB11		ID8K012125			1	☒	CCB1	Continue
126	122	Unk	J347-08	20X	ID8K012126			1	☐		Continue
127	123	Unk	J347-09	20X	ID8K012127			1	☐		Continue
128	124	Unk	J347-10	20X	ID8K012128			1	☐		Continue
129	125	Unk	J347-12	20X	ID8K012129			1	☐		Continue
130	126	Unk	BLANK		ID8K012130			1	☐		Continue
131	127	QC	CCV12		ID8K012131			1	☒	CCV	Continue
132	128	QC	CCB12		ID8K012132			1	☒	CCB1	Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8K012001			1	☐		Continue
2	0	Unk	S2		ID8K012002			1	☐		Continue
3	0	Unk	S5		ID8K012003			1	☐		Continue
4	0	Unk	S8		ID8K012004			1	☐		Continue
5	1	QC	ICV	Bafuted	ID8K012005			1	☒	ICV	Continue
6	2	QC	ICB	↓Ca, ↓Mg, ↓Na	ID8K012006			1	☒	CCB1	Continue
7	3	QC	CCV		ID8K012007			1	☒	CCV	Continue
8	4	QC	CCB		ID8K012008			1	☒	CCB1	Continue
9	5	QC	ICSAI		ID8K012009			1	☒	ICSA	Continue
10	6	QC	ICSABI		ID8K012010			1	☒	ICSAB	Continue
11	7	QC	CCV1		ID8K012011			1	☒	CCV	Continue
12	8	QC	CCB1		ID8K012012			1	☒	CCB1	Continue
13	12	Unk	J254-01		ID8K012013			1	☐		Continue
14	13	Unk	J254-01D		ID8K012014			1	☐		Continue
15	14	Unk	J254-01J		ID8K012015			1	☐		Continue
16	15	Unk	J254-01	undigested	ID8K012016			1	☐		Continue
17	9	QC	IPK000WB		ID8K012017			1	☒	CCB1	Continue
18	10	QC	IPK000WL		ID8K012018			1	☒	LCS	Continue
19	11	QC	IPK000WC		ID8K012019			1	☒	LCS	Continue
20	16	Unk	BLANK		ID8K012020			1	☐		Continue
21	17	QC	ICSAF		ID8K012021			1	☒	ICSA	Continue
22	18	QC	ICSABF		ID8K012022			1	☒	ICSAB	Continue
23	19	QC	CCV2		ID8K012023			1	☒	CCV	Continue
24	20	QC	CCB2		ID8K012024			1	☒	CCB1	Continue
25	21	Unk	G144-01	undigested	ID8K012025			1	☐		Continue
26	22	Unk	G144-01D	undigested	ID8K012026			1	☐		Continue
27	23	Unk	BLANK		ID8K012027			1	☐		Continue
28	24	Unk	B	2.16ppm	ID8K012028			1	☐		Continue
29	25	Unk	Fe	1.6ppm	ID8K012029			1	☐		Continue
30	26	Unk	Mn	0.326ppm	ID8K012030			1	☐		Continue
31	27	Unk	V	0.560ppm	ID8K012031			1	☐		Continue
32	28	Unk	BLANK		ID8K012032			1	☐		Continue
33	29	QC	J254-01		ID8K012033			1	☒	CCV	Continue
34	30	QC	J254-01D		ID8K012034			1	☒	CCB1	Continue
35	31	QC	CCV3		ID8K012035			1	☒	CCV	Continue
36	32	QC	CCB3		ID8K012036			1	☒	CCB1	Continue
37	33	QC	IPK010WB		ID8K012037			1	☒	CCB1	Continue
38	34	QC	IPK010WL		ID8K012038			1	☒	LCS	Continue
39	35	QC	IPK010WC		ID8K012039			1	☒	LCS	Continue
40	36	Unk	J393-02A		ID8K012040			1	☐		Continue
41	37	Unk	J393-02		ID8K012041			1	☐		Continue
42	38	Unk	J393-02J		ID8K012042			1	☐		Continue
43	39	Unk	J393-03		ID8K012043			1	☐		Continue
44	40	Unk	J393-04		ID8K012044			1	☐		Continue
45	41	Unk	K008-03		ID8K012045			1	☐		Continue
46	42	Unk	BLANK		ID8K012046			1	☐		Continue

	Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation
	Al 308.215 {109}	11/15/2007 10:10:59	Linear	1/Conc	0.001693	0.025588	0.000000	1.000000	1.000000
	Sb 206.833 {463}	11/15/2007 10:10:59	Linear	1/Conc	0.000020	0.007688	0.000000	1.000000	1.000000
	As 189.042 {478}	11/15/2007 10:10:59	Linear	1/Conc	-0.000022	0.004911	0.000000	1.000000	1.000000
	Ba 455.403 { 74}	11/15/2007 10:10:59	Linear	1/Conc	0.001985	0.916309	0.000000	1.000000	1.000000
	Be 313.042 {108}	11/15/2007 10:10:59	Linear	1/Conc	0.000036	0.721217	0.000000	1.000000	1.000000
	B 249.773 {135}	11/15/2007 10:10:59	Linear	1/Conc	0.000104	0.097187	0.000000	1.000000	1.000000
	Cd 226.502 {449}	11/15/2007 10:10:59	Linear	1/Conc	-0.000065	2.543757	0.000000	1.000000	1.000000
	Ca 317.933 {106}	11/15/2007 10:10:59	Linear	1/Conc	0.004858	0.015665	0.000000	1.000000	1.000000
	Cr 267.716 {126}	11/15/2007 10:10:59	Linear	1/Conc	0.000119	0.168733	0.000000	1.000000	1.000000
	Co 228.616 {447}	11/15/2007 10:10:59	Linear	1/Conc	-0.000221	0.708850	0.000000	1.000000	1.000000
	Cu 324.754 {104}	11/15/2007 10:10:59	Linear	1/Conc	0.005756	3.326001	0.000000	1.000000	1.000000
	Fe 271.441 {124}	11/15/2007 10:10:59	Linear	1/Conc	-0.000002	0.007098	0.000000	1.000000	1.000000
	Pb 220.353 {453}	11/15/2007 10:10:59	Linear	1/Conc	0.000077	0.188919	0.000000	1.000000	1.000000
	Li 670.784 { 50}	2/2/2007 14:25:23	Linear	1/Conc	0.002046	0.234028	0.000000	1.000000	1.000000
	Mg 279.079 {121}	11/15/2007 10:10:59	Linear	1/Conc	0.000191	0.001506	0.000000	1.000000	1.000000
	Mn 257.610 {131}	11/15/2007 10:10:59	Linear	1/Conc	0.000124	0.056534	0.000000	1.000000	1.000000
	Mo 202.030 {467}	11/15/2007 10:10:59	Linear	1/Conc	0.000024	0.719659	0.000000	1.000000	1.000000
	Ni 231.604 {446}	11/15/2007 10:10:59	Linear	1/Conc	-0.000431	0.653023	0.000000	1.000000	1.000000
	K 766.490 { 44}	11/15/2007 10:10:59	Linear	1/Conc	-0.000516	0.031397	0.000000	1.000000	1.000000
	Se 196.090 {472}	11/15/2007 10:10:59	Linear	1/Conc	0.000013	0.004796	0.000000	1.000000	1.000000
	Si 212.412 {459}	2/2/2007 14:25:23	Linear	1/Conc	0.006974	0.273496	0.000000	1.000000	1.000000
	Ag 328.068 {103}	11/15/2007 10:10:59	Linear	1/Conc	0.000150	0.201379	0.000000	1.000000	1.000000
	Na 589.592 { 57}	11/15/2007 10:10:59	Linear	1/Conc	0.060799	0.084366	0.000000	1.000000	1.000000
	Sr 421.552 { 80}	11/15/2007 10:10:59	Linear	1/Conc	0.003896	1.012272	0.000000	1.000000	1.000000
	Tl 190.856 {477}	11/15/2007 10:10:59	Linear	1/Conc	-0.000570	0.140233	0.000000	1.000000	1.000000
	Sn 189.989 {477}	11/15/2007 10:10:59	Linear	1/Conc	0.000089	0.147032	0.000000	1.000000	1.000000
	Ti 334.941 {101}	11/15/2007 10:10:59	Linear	1/Conc	-0.000066	0.064737	0.000000	1.000000	1.000000
	U 409.014 { 82}	2/2/2007 14:25:23	Linear	1/Conc	0.000061	0.011861	0.000000	1.000000	1.000000
	V 292.402 {115}	11/15/2007 10:10:59	Linear	1/Conc	-0.000154	0.159518	0.000000	1.000000	1.000000
	Zn 206.200 {463}	11/15/2007 10:10:59	Linear	1/Conc	0.002271	0.843658	0.000000	1.000000	1.000000
	Sc 227.318 {448}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
	Sc 361.384 { 93}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
	Sc 364.531 { 92}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000

Element, Wavelength and Order	Std Error of Est	MDL	MQL	Status	Reslope		QC Norm	
					Slope	Y-int	Slope factor	Offset
Al 308.215 {109}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Sb 206.833 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
As 189.042 {478}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ba 455.403 { 74}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Be 313.042 {108}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
B 249.773 {135}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Cd 226.502 {449}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ca 317.933 {106}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Cr 267.716 {126}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Co 228.616 {447}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Cu 324.754 {104}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Fe 271.441 {124}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Pb 220.353 {453}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Li 670.784 { 50}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Mg 279.079 {121}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Mn 257.610 {131}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Mo 202.030 {467}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ni 231.604 {446}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
K 766.490 { 44}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Se 196.090 {472}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Si 212.412 {459}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ag 328.068 {103}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Na 589.592 { 57}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Sr 421.552 { 80}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Tl 190.856 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Sn 189.989 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Ti 334.941 {101}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
U 409.014 { 82}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
V 292.402 {115}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Zn 206.200 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
Sc 227.318 {448}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
Sc 361.384 { 93}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
Sc 364.531 { 92}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/16/07 17:00

End Date: 11/17/07 5:33

Comments:

CCV10 Mn↓
1PK014WL, 1PK014WC Ag↓
J386 Na overrange
K410 Na overrange
CCV11 Cu↑ Fe↑ Sb↑ Ba↑ Cd↑ Co↑

Argon gas ran out before final CCV14, CCB14 were ran

Book #: AD8-003

Instrument No.: D8

Analytical Batch: 1D8K014

Analytical Sequence: S-6010K07 (V10)

Method File: 6010K07 (V10)

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	SM1B11.01.03
S3	NA
S4	NA
S5	SM1B11.01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B11.03.01
CCV	SM1B11.02.06
ICSA	SM1B10.93.03
ICSAB	SM1B10.95.05
CRI/MRL	

Analyzed By: TH /CRC

Date: 11/17/07

SEQUENCE FILE : ID8K014

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K014001	Blank	17:00	11/16/07	1.000
ID8K014002	S2	17:06	11/16/07	1.000
ID8K014003	S5	17:11	11/16/07	1.000
ID8K014004	S8	17:17	11/16/07	1.000
ID8K014005	ICV	17:22	11/16/07	1.000
ID8K014006	ICB	17:28	11/16/07	1.000
ID8K014007	ICSAI	17:33	11/16/07	1.000
ID8K014008	ICSABI	17:39	11/16/07	1.000
ID8K014009	CCV1	17:44	11/16/07	1.000
ID8K014010	CCB1	17:49	11/16/07	1.000
ID8K014011	IDL-01	17:55	11/16/07	1.000
ID8K014012	IDL-02	18:01	11/16/07	1.000
ID8K014013	IDL-03	18:06	11/16/07	1.000
ID8K014014	IDL-04	18:12	11/16/07	1.000
ID8K014015	IDL-05	18:17	11/16/07	1.000
ID8K014016	IDL-06	18:23	11/16/07	1.000
ID8K014017	IDL-07	18:29	11/16/07	1.000
ID8K014018	CCV2	18:34	11/16/07	1.000
ID8K014019	CCB2	18:39	11/16/07	1.000
ID8K014020	FeA1	18:45	11/16/07	1.000
ID8K014021	BLANK	18:50	11/16/07	1.000
ID8K014022	FeB	18:56	11/16/07	1.000
ID8K014023	BLANK	19:02	11/16/07	1.000
ID8K014024	Cd	19:07	11/16/07	1.000
ID8K014025	BLANK	19:13	11/16/07	1.000
ID8K014026	BLANK	19:18	11/16/07	1.000
ID8K014027	CCV3	19:24	11/16/07	1.000
ID8K014028	CCB3	19:29	11/16/07	1.000
ID8K014029	IPK028SB	19:35	11/16/07	1.000
ID8K014030	IPK028SL	19:40	11/16/07	1.000
ID8K014031	IPK028SC	19:46	11/16/07	1.000
ID8K014032	K033-05M	19:51	11/16/07	1.000
ID8K014033	K033-05S	19:56	11/16/07	1.000
ID8K014034	K033-05A	20:02	11/16/07	1.000
ID8K014035	K033-05	20:07	11/16/07	1.000
ID8K014036	K033-05J	20:13	11/16/07	5.000
ID8K014037	K033-03	20:18	11/16/07	1.000
ID8K014038	BLANK	20:24	11/16/07	1.000
ID8K014039	CCV4	20:29	11/16/07	1.000
ID8K014040	CCB4	20:35	11/16/07	1.000
ID8K014041	K033-04	20:40	11/16/07	1.000
ID8K014042	K033-06	20:46	11/16/07	1.000
ID8K014043	K033-07	20:51	11/16/07	1.000
ID8K014044	K033-08	20:57	11/16/07	1.000
ID8K014045	K033-09	21:02	11/16/07	1.000
ID8K014046	K033-10	21:08	11/16/07	1.000
ID8K014047	K033-11	21:13	11/16/07	1.000
ID8K014048	K033-12	21:19	11/16/07	1.000
ID8K014049	K033-13	21:24	11/16/07	1.000
ID8K014050	BLANK	21:30	11/16/07	1.000
ID8K014051	CCV5	21:35	11/16/07	1.000
ID8K014052	CCB5	21:41	11/16/07	1.000
ID8K014053	K033-14	21:46	11/16/07	1.000
ID8K014054	K033-15	21:52	11/16/07	1.000
ID8K014055	K033-16	21:57	11/16/07	1.000

ID8K014056	K033-17	22:03	11/16/07	1.000
ID8K014057	K033-18	22:08	11/16/07	1.000
ID8K014058	K033-19	22:14	11/16/07	1.000
ID8K014059	K033-20	22:19	11/16/07	1.000
ID8K014060	K033-21	22:25	11/16/07	1.000
ID8K014061	K033-22	22:30	11/16/07	1.000
ID8K014062	BLANK	22:36	11/16/07	1.000
ID8K014063	CCV6	22:41	11/16/07	1.000
ID8K014064	CCB6	22:47	11/16/07	1.000
ID8K014065	IPK029SB	22:52	11/16/07	1.000
ID8K014066	IPK029SL	22:58	11/16/07	1.000
ID8K014067	IPK029SC	23:03	11/16/07	1.000
ID8K014068	K033-23A	23:08	11/16/07	1.000
ID8K014069	K033-23	23:14	11/16/07	1.000
ID8K014070	K033-23J	23:19	11/16/07	5.000
ID8K014071	J955-08A	23:25	11/16/07	1.000
ID8K014072	J955-08	23:30	11/16/07	1.000
ID8K014073	J955-08J	23:36	11/16/07	5.000
ID8K014074	BLANK	23:41	11/16/07	1.000
ID8K014075	CCV7	23:47	11/16/07	1.000
ID8K014076	CCB7	23:52	11/16/07	1.000
ID8K014077	IPK009SB	23:58	11/16/07	1.000
ID8K014078	IPK009SL	00:03	11/17/07	1.000
ID8K014079	IPK009SC	00:08	11/17/07	1.000
ID8K014080	J955-08M	00:14	11/17/07	1.000
ID8K014081	J955-08S	00:19	11/17/07	1.000
ID8K014082	J955-05	00:25	11/17/07	1.000
ID8K014083	J955-06	00:30	11/17/07	1.000
ID8K014084	J955-07	00:35	11/17/07	1.000
ID8K014085	J955-09	00:41	11/17/07	1.000
ID8K014086	BLANK	00:46	11/17/07	1.000
ID8K014087	CCV8	00:52	11/17/07	1.000
ID8K014088	CCB8	00:57	11/17/07	1.000
ID8K014089	J955-10	01:03	11/17/07	1.000
ID8K014090	J955-11	01:08	11/17/07	1.000
ID8K014091	J955-12	01:14	11/17/07	1.000
ID8K014092	J955-13	01:19	11/17/07	1.000
ID8K014093	J955-14	01:25	11/17/07	1.000
ID8K014094	J955-15	01:30	11/17/07	1.000
ID8K014095	J955-16	01:36	11/17/07	1.000
ID8K014096	J955-17	01:41	11/17/07	1.000
ID8K014097	J955-18	01:46	11/17/07	1.000
ID8K014098	BLANK	01:52	11/17/07	1.000
ID8K014099	CCV9	01:58	11/17/07	1.000
ID8K014100	CCB9	02:03	11/17/07	1.000
ID8K014101	J955-19	02:09	11/17/07	1.000
ID8K014102	J955-20	02:14	11/17/07	1.000
ID8K014103	J955-21	02:20	11/17/07	1.000
ID8K014104	J955-22	02:25	11/17/07	1.000
ID8K014105	K411-01	02:30	11/17/07	1.000
ID8K014106	K417-01	02:36	11/17/07	1.000
ID8K014107	BLANK	02:41	11/17/07	1.000
ID8K014108	CCV10	02:47	11/17/07	1.000
ID8K014109	CCB10	02:52	11/17/07	1.000
ID8K014110	IPK014WB	02:58	11/17/07	1.000
ID8K014111	IPK014WL	03:04	11/17/07	1.000
ID8K014112	IPK014WC	03:09	11/17/07	1.000
ID8K014113	J386-06M	03:14	11/17/07	1.000

ID8K014114	J386-06S	03:20	11/17/07	1.000
ID8K014115	J386-06A	03:25	11/17/07	1.000
ID8K014116	J386-06	03:31	11/17/07	1.000
ID8K014117	J386-06J	03:36	11/17/07	5.000
ID8K014118	J386-05	03:42	11/17/07	1.000
ID8K014119	BLANK	03:48	11/17/07	1.000
ID8K014120	CCV11	03:53	11/17/07	1.000
ID8K014121	CCB11	03:59	11/17/07	1.000
ID8K014122	J386-07	04:04	11/17/07	1.000
ID8K014123	K025-04	04:10	11/17/07	1.000
ID8K014124	K038-01	04:15	11/17/07	1.000
ID8K014125	K045-01	04:21	11/17/07	1.000
ID8K014126	K045-02	04:26	11/17/07	1.000
ID8K014127	K045-03	04:32	11/17/07	1.000
ID8K014128	K023-02	04:38	11/17/07	1.000
ID8K014129	K033-02	04:43	11/17/07	1.000
ID8K014130	BLANK	04:49	11/17/07	1.000
ID8K014131	CCV12	04:54	11/17/07	1.000
ID8K014132	CCB12	05:00	11/17/07	1.000
ID8K014133	ICSAF	05:05	11/17/07	1.000
ID8K014134	ICSABF	05:11	11/17/07	1.000
ID8K014135	CCV13	05:16	11/17/07	1.000
ID8K014136	CCB13	05:22	11/17/07	1.000
ID8K014137	K410-01	05:27	11/17/07	1.000
ID8K014138	BLANK	05:33	11/17/07	1.000

SDG : 07J955 UNIT : % SUMMARY of ICV and CCV : ID8K014 DATE : 11/16/07 INST : EM

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	95	99	102	101	104	113*	103	100	101	102	96	100	102	99	99	103	102	96	102	102	98	97	104	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	91	----	----	----	----	----	----	95	----	----	----	92	----	100	----	----	----	----	----	----	----	----	----	----
ICSABI	90	101	102	106	100	107	102	94	97	98	94	92	95	98	94	106	97	108	101	111	107	90	101	101
CCV1	96	96	98	98	99	103	101	99	97	99	92	97	97	99	96	104	99	96	98	98	97	94	100	101
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	95	98	97	96	99	104	100	97	97	99	93	98	97	99	95	104	98	95	98	98	96	94	99	101
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FEAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FEB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CD	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	96	98	99	96	99	105	101	98	98	99	94	98	97	99	95	105	99	96	99	99	97	95	100	101
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	100	101	101	99	102	107	104	100	100	102	98	102	101	103	98	108	102	99	102	101	100	98	102	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	99	101	99	99	100	107	102	98	99	101	99	101	100	100	95	107	100	98	100	101	99	97	101	103
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K033-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	100	102	100	100	100	107	103	98	100	102	102	102	100	100	95	108	101	100	100	101	101	98	101	104
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	99	102	100	100	100	107	103	97	99	101	102	102	100	100	96	109	101	99	101	100	100	99	101	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	100	103	102	102	101	108	104	98	100	102	103	101	101	100	97	109	102	101	103	101	101	99	103	105
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	99	101	100	102	99	106	103	97	98	101	103	100	100	99	96	108	101	100	101	100	101	99	102	104
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K411-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K417-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	93	95	94	95	93	100	97	91	93	95	98	94	94	92	89*	101	95	94	95	94	95	92	95	100
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J386-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	109	110	108	111*	107	117*	113*	104	107	111*	116*	111*	109	105	101	120*	111*	112*	108	109	114*	109	110	115*
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K025-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K023-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	98	100	99	103	98	106	104	96	98	102	106	100	100	95	92	109	102	104	100	100	104	99	102	105
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	94	----	----	----	----	----	----	90	----	----	----	94	----	96	----	----	----	----	----	----	----	----	----	----
ICSABF	93	104	101	112	98	109	105	89	95	101	107	93	98	95	89	111	100	116	101	110	114	95	98	104
CCV13	100	101	100	103	98	106	104	95	98	102	108	101	101	96	91	110	102	104	100	99	105	100	101	105
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 07J955 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K014 (SOIL) DATE : 11/16/07 INST : EMA

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	.030	-.530	-.040	-.300	.030	.100	.130	-10.5	-.030	-.080	-.080	-3.42	-.680	-37.6	.230	.220	-.320	5.82	-.770	.030	-6.73	.590	.020	-.280
ICSAI	----	1.91	-7.25	-.160	-.290	-4.63	3.95	----	.200	.290	2.26	----	-9.92	----	1.27	-1.71	-.280	24.5	5.05	-.530	95.2	-.840	-.260	-5.15
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	2.25	-.120	-1.79	-.230	-.190	.060	.090	-.690	-.190	-.080	.170	-2.47	-.330	-62.7	.100	.300	-.140	27.1	-.850	.020	-9.73	.640	.080	-.560
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-2.94	-.460	-1.22	-.580	-.140	-.060	.030	-17.9	-.270	-.010	.190	-2.25	-.130	22.0	.860	.200	-.310	20.0	.760	.020	-14.8	1.12	-.110	-.860
FEAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FEB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CD	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-7.09	.340	-1.38	-.730	.060	.100	.160	-23.5	-.160	-.130	-.110	-3.21	-.760	-39.1	.120	.190	-.340	42.3	-1.26	.190	-16.6	.560	-.090	-1.22
IPK028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-3.21	-.400	-1.28	-.150	-.060	.320	.110	106	-.110	-.220	.370	-.990	-.190	-48.7	.410	.250	-.130	69.3	.040	.000	-3.06	.480	-.210	6.78
K033-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	3.27	.450	-2.30	-.440	.050	-.190	.060	26.9	.040	.080	.460	2.34	-.490	-16.0	1.31	.190	-.110	74.3	-.350	.000	-17.6	1.01	-.030	2.88
K033-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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K033-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-6.18	-.600	-2.24	-.360	-.110	-.220	.040	-16.0	-.150	-.060	.440	2.33	-.720	-38.8	-.180	.190	-.090	16.7	-.330	.330	-38.3	.150	.030	-.360
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-2.21	.860	-.640	-.200	-.180	.170	.090	-19.1	.060	-.050	.460	2.35	-1.03	-3.46	-.450	.370	-.240	16.9	.450	.120	-37.0	-.110	-.140	-.380
IPK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-1.39	.560	-1.85	-.540	-.070	-.110	.080	104	.050	.010	.450	4.97	-.110	-73.7	.180	.330	-.080	43.9	-1.06	-.120	-22.4	.220	.070	9.75
J955-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-5.31	-.420	-.490	-.400	-.120	-.280	.060	-20.8	-.090	-.120	.100	-.200	-.640	-55.3	1.45	.310	-.100	10.6	-1.57	.110	-50.0	.840	-.130	-.240
J955-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K411-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K417-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-6.29	-.280	-.530	-.350	-.010	-.190	.070	-18.0	-.220	.140	.180	.910	-.520	-39.7	-1.67	.340	-.240	-16.9	-.020	-.090	-50.7	.620	.010	-.370
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J386-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-4.87	.950	-1.30	-.140	-.130	2.96	.100	15.3	-.110	-.100	.330	3.96	-.180	6.47	.610	.300	-.250	160	.230	.050	415	.090	.120	1.53
J386-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K025-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K023-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	6.93	.590	-1.52	.530	.260	.810	.450	90.9	.200	.260	.780	20.6	.250	49.0	1.64	.600	.520	132	-.440	.050	273	1.18	.300	3.12
ICSAF	----	2.80	-7.78	.430	-.060	8.08	5.97	----	.080	.350	3.05	----	-8.27	----	-.320	-1.95	-.530	117	9.04	-.100	334	-.900	-.830	-5.54
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	2.90	-.060	-1.65	-.390	-.020	1.000	.100	67.3	-.190	-.120	.280	4.37	.250	11.2	1.62	.290	-.010	79.7	-.110	-.080	147	.820	-.070	4.73
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

24:27

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8K014001			1	☐		Continue
2	0	Unk	S1		ID8K014002			1	☐		Continue
3	0	Unk	S2		ID8K014003			1	☐		Continue
4	0	Unk	S3		ID8K014004			1	☐		Continue
5	1	QC	ICV		ID8K014005			1	☒	ICV	Continue
6	2	QC	ICB		ID8K014006			1	☒	CCB1	Continue
7	3	QC	ICSAI		ID8K014007			1	☒	ICSA	Continue
8	4	QC	ICSABI		ID8K014008			1	☒	ICSAB	Continue
9	5	QC	CCV1		ID8K014009			1	☒	CCV	Continue
10	6	QC	CCB1		ID8K014010			1	☒	CCB1	Continue
11	7	Unk	IDL-01		ID8K014011			1	☐		Continue
12	8	Unk	IDL-02		ID8K014012			1	☐		Continue
13	9	Unk	IDL-03		ID8K014013			1	☐		Continue
14	10	Unk	IDL-04		ID8K014014			1	☐		Continue
15	11	Unk	IDL-05		ID8K014015			1	☐		Continue
16	12	Unk	IDL-06		ID8K014016			1	☐		Continue
17	13	Unk	IDL-07		ID8K014017			1	☐		Continue
18	14	QC	CCV2		ID8K014018			1	☒	CCV	Continue
19	15	QC	CCB2		ID8K014019			1	☒	CCB1	Continue
20	16	Unk	FeAl	1.6ppmFe/2ppmAl	ID8K014020			1	☐		Continue
21	17	Unk	BLANK		ID8K014021			1	☐		Continue
22	18	Unk	FeB	1.6ppmFe/2ppmB	ID8K014022			1	☐		Continue
23	19	Unk	BLANK		ID8K014023			1	☐		Continue
24	20	Unk	Cd	20ppm	ID8K014024			1	☐		Continue
25	21	Unk	BLANK		ID8K014025			1	☐		Continue
26	22	Unk	BLANK		ID8K014026			1	☐		Continue
27	23	QC	CCV3		ID8K014027			1	☒	CCV	Continue
28	24	QC	CCB3		ID8K014028			1	☒	CCB1	Continue
29	25	QC	IPK028SB		ID8K014029			1	☒	CCB1	Continue
30	26	QC	IPK028SL		ID8K014030			1	☒	LCS	Continue
31	27	QC	IPK028SC		ID8K014031			1	☒	LCS	Continue
32	28	Unk	K033-05M		ID8K014032			1	☐		Continue
33	29	Unk	K033-05S		ID8K014033			1	☐		Continue
34	30	Unk	K033-05A		ID8K014034			1	☐		Continue
35	31	Unk	K033-05		ID8K014035			1	☐		Continue
36	32	Unk	K033-05J		ID8K014036			1	☐		Continue
37	33	Unk	K033-03		ID8K014037			1	☐		Continue
38	34	Unk	BLANK		ID8K014038			1	☐		Continue
39	35	QC	CCV4		ID8K014039			1	☒	CCV	Continue
40	36	QC	CCB4		ID8K014040			1	☒	CCB1	Continue
41	37	Unk	K033-04		ID8K014041			1	☐		Continue
42	38	Unk	K033-06		ID8K014042			1	☐		Continue
43	39	Unk	K033-07		ID8K014043			1	☐		Continue
44	40	Unk	K033-08		ID8K014044			1	☐		Continue
45	41	Unk	K033-09		ID8K014045			1	☐		Continue
46	42	Unk	K033-10		ID8K014046			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	Unk	K033-11		ID8K014047			1	☐		Continue
48	44	Unk	K033-12		ID8K014048			1	☐		Continue
49	45	Unk	K033-13		ID8K014049			1	☐		Continue
50	46	Unk	BLANK		ID8K014050			1	☐		Continue
51	47	QC	CCV5		ID8K014051			1	☒	CCV	Continue
52	48	QC	CCB5		ID8K014052			1	☒	CCB1	Continue
53	49	Unk	K033-14		ID8K014053			1	☐		Continue
54	50	Unk	K033-15		ID8K014054			1	☐		Continue
55	51	Unk	K033-16		ID8K014055			1	☐		Continue
56	52	Unk	K033-17		ID8K014056			1	☐		Continue
57	53	Unk	K033-18		ID8K014057			1	☐		Continue
58	54	Unk	K033-19		ID8K014058			1	☐		Continue
59	55	Unk	K033-20		ID8K014059			1	☐		Continue
60	56	Unk	K033-21		ID8K014060			1	☐		Continue
61	57	Unk	K033-22		ID8K014061			1	☐		Continue
62	58	Unk	BLANK		ID8K014062			1	☐		Continue
63	59	QC	CCV6		ID8K014063			1	☒	CCV	Continue
64	60	QC	CCB6		ID8K014064			1	☒	CCB1	Continue
65	61	QC	IPK029SB		ID8K014065			1	☒	CCB1	Continue
66	62	QC	IPK029SL		ID8K014066			1	☒	LCS	Continue
67	63	QC	IPK029SC		ID8K014067			1	☒	LCS	Continue
68	64	Unk	K033-23A		ID8K014068			1	☐		Continue
69	65	Unk	K033-23		ID8K014069			1	☐		Continue
70	66	Unk	K033-23J		ID8K014070			1	☐		Continue
71	67	Unk	J955-08A		ID8K014071			1	☐		Continue
72	68	Unk	J955-08		ID8K014072			1	☐		Continue
73	69	Unk	J955-08J		ID8K014073			1	☐		Continue
74	70	Unk	BLANK		ID8K014074			1	☐		Continue
75	71	QC	CCV7		ID8K014075			1	☒	CCV	Continue
76	72	QC	CCB7		ID8K014076			1	☒	CCB1	Continue
77	73	QC	IPK009SB		ID8K014077			1	☒	CCB1	Continue
78	74	QC	IPK009SL		ID8K014078			1	☒	LCS	Continue
79	75	QC	IPK009SC		ID8K014079			1	☒	LCS	Continue
80	76	Unk	J955-08M		ID8K014080			1	☐		Continue
81	77	Unk	J955-08S		ID8K014081			1	☐		Continue
82	78	Unk	J955-05		ID8K014082			1	☐		Continue
83	79	Unk	J955-06		ID8K014083			1	☐		Continue
84	80	Unk	J955-07		ID8K014084			1	☐		Continue
85	81	Unk	J955-09		ID8K014085			1	☐		Continue
86	82	Unk	BLANK		ID8K014086			1	☐		Continue
87	83	QC	CCV8		ID8K014087			1	☒	CCV	Continue
88	84	QC	CCB8		ID8K014088			1	☒	CCB1	Continue
89	85	Unk	J955-10		ID8K014089			1	☐		Continue
90	86	Unk	J955-11		ID8K014090			1	☐		Continue
91	87	Unk	J955-12		ID8K014091			1	☐		Continue
92	88	Unk	J955-13		ID8K014092			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	Unk	J955-14		ID8K014093			1	☐		Continue
94	90	Unk	J955-15		ID8K014094			1	☐		Continue
95	91	Unk	J955-16		ID8K014095			1	☐		Continue
96	92	Unk	J955-17		ID8K014096			1	☐		Continue
97	93	Unk	J955-18		ID8K014097			1	☐		Continue
98	94	Unk	BLANK		ID8K014098			1	☐		Continue
99	95	QC	CCV9		ID8K014099			1	☒	CCV	Continue
100	96	QC	CCB9		ID8K014100			1	☒	CCB1	Continue
101	97	Unk	J955-19		ID8K014101			1	☐		Continue
102	98	Unk	J955-20		ID8K014102			1	☐		Continue
103	99	Unk	J955-21		ID8K014103			1	☐		Continue
104	100	Unk	J955-22		ID8K014104			1	☐		Continue
105	101	Unk	K411-01		ID8K014105			1	☐		Continue
106	102	Unk	K417-01		ID8K014106			1	☐		Continue
107	103	Unk	BLANK		ID8K014107			1	☐		Continue
108	104	QC	CCV10	Mn↓	ID8K014108			1	☒	CCV	Continue
109	105	QC	CCB10		ID8K014109			1	☒	CCB1	Continue
110	106	QC	IPK014WB		ID8K014110			1	☒	CCB1	Continue
111	107	QC	IPK014WL	Ag↓	ID8K014111			1	☒	LCS	Continue
112	108	QC	IPK014WC	Mn↓	ID8K014112			1	☒	LCS	Continue
113	109	Unk	J386-06M		ID8K014113			1	☐		Continue
114	110	Unk	J386-06S		ID8K014114			1	☐		Continue
115	111	Unk	J386-06A		ID8K014115			1	☐		Continue
116	112	Unk	J386-06	↑Na	ID8K014116			1	☐		Continue
117	113	Unk	J386-06J		ID8K014117			1	☐		Continue
118	114	Unk	J386-05		ID8K014118			1	☐		Continue
119	115	Unk	BLANK		ID8K014119			1	☐		Continue
120	116	QC	CCV11 Cu↑ Fe↑	Sb↑ Ba↑ Cd↑ Co↑	ID8K014120			1	☒	CCV	Continue
121	117	QC	CCB11		ID8K014121			1	☒	CCB1	Continue
122	118	Unk	J386-07		ID8K014122			1	☐		Continue
123	119	Unk	K025-04		ID8K014123			1	☐		Continue
124	120	Unk	K038-01		ID8K014124			1	☐		Continue
125	121	Unk	K045-01		ID8K014125			1	☐		Continue
126	122	Unk	K045-02		ID8K014126			1	☐		Continue
127	123	Unk	K045-03		ID8K014127			1	☐		Continue
128	124	Unk	K023-02		ID8K014128			1	☐		Continue
129	125	Unk	K033-02		ID8K014129			1	☐		Continue
130	126	Unk	BLANK		ID8K014130			1	☐		Continue
131	127	QC	CCV12		ID8K014131			1	☒	CCV	Continue
132	128	QC	CCB12		ID8K014132			1	☒	CCB1	Continue
133	129	QC	ICSAF		ID8K014133			1	☒	ICSA	Continue
134	130	QC	ICSABF		ID8K014134			1	☒	ICSAB	Continue
135	131	QC	CCV13		ID8K014135			1	☒	CCV	Continue
136	132	QC	CCB13		ID8K014136			1	☒	CCB1	Continue
137	133	Unk	K410-01	↑ Na	ID8K014137			1	☐		Continue
138	134	Unk	BLANK	autosampler stopped	ID8K014138			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
139	135	Unk	BLANK		ID8K014139			1	☐		Continue
140	136	QC	CCV14		ID8K014140			1	☒	CCV	Continue
141	137	QC	CCB14		ID8K014141			1	☒	CCB1	Continue
142	0	Unk						1	☐		Continue
143	0	Unk						1	☐		Continue
144	0	Unk						1	☐		Continue
145	0	Unk						1	☐		Continue
146	0	Unk						1	☐		Continue
147	0	Unk						1	☐		Continue
148	0	Unk						1	☐		Continue
149	0	Unk						1	☐		Continue
150	0	Unk						1	☐		Continue
151	0	Unk						1	☐		Continue
152	0	Unk						1	☐		Continue
153	0	Unk						1	☐		Continue
154	0	Unk						1	☐		Continue
155	0	Unk						1	☐		Continue
156	0	Unk						1	☐		Continue
157	0	Unk						1	☐		Continue
158	0	Unk						1	☐		Continue
159	0	Unk						1	☐		Continue
160	0	Unk						1	☐		Continue

7052

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No. 4 ☐ EMAX-3010 Rev. No. 3 ☑ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: Soil Start Date: 11-5-07 Time: 11:00 Temp: 90°C Ending Date: 11-5-07 Time: 15:00 Temp.: 90°C

BATCH: IPK009-S

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | ~~ml~~)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPK009-SB					—	N/A	100		
02	-SL					—		100		
03	-SC					—		100		
04	J955-05					1.002		100		
05	-06					1.001		100		
06	-07					1.000		100		
07	-08					1.001		100		
08	-08M					1.002		100		
09	-08S					1.000		100		
10	-09					1.003		100		
11	-10					1.009		100		
12	-11					1.002		100		
13	-12					1.001		100		
14	-13					1.002		100		
15	-14					1.002		100		
16	-15					1.003		100		
17	-16					1.001		100		
18	-17					1.000		100		
19	-18					1.001		100		
20	-19					1.002		100		
21	-20					1.003		100		
22	-21					1.001		100		
23	-22					1.003		100		
24	K411-01					1.002		100		
25	K417-01					1.001		100		

Standards	ID	Amount Added (ml)
LCS -1	SM1A-10-99	1.0
LCS -2	SM1A-10-98	1.0
LCS -3	SM1A-10-97	1.0
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SW1A-03-645	10.0
HCl	SW1A-03-612	10.0
H_2O_2	SW1A-03-573	10.0
HNO3 (1:1)	SM5B-02-77	10.0

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 11/5/07

Checked By: CPC

Date Disposed: Disposed by:

7063

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No.4 ☑ EMAX-3010 Rev. No. 3 ☐ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: WATER Start Date: 11-6-7 Time: 13:10 Temp: 90 °C Ending Date: 11-6-7 Time: 17:10 Temp.: 90 °C

BATCH: IPK010-W

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g|ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPK010-WB					50	—	50		
02	-WL					50	—	50		
03	-WC					50	—	50		
04	J955-02	cm				50	<2	50		
05	-03					50		50		
06	-04					50		50		
07	J363-03 TOTAL	Cmm		Fe, Mn		50		50		
08	-03M	Clr				50		50		
09	-03S					50		50		
10	J363-03 DISS					50		50		
11	-03M					50		50		
12	-03S					50		50		
13	J394-02	Cmm		Fe, Mn		50		50		
14	-03	Clr				50		50		
15	-03M					50		50		
16	-03S					50		50		
17	J549-01					50		50		
18	J393-02	full	ICS			50		50		
19	-03					50		50		
20	-04					50		50		
21	K008-03	full ICS				50		50		
22	-04					50		50		
23	K017-02	cm				50		50		
24	-03					50	✓	50		
25			11/6/7	MC						

Standards	ID	Amount Added (ml)
LCS -1	SMIA-10-99	0.5
LCS -2	SMIA-10-98	0.5
LCS -3	SMIA-10-97	0.5
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SWIA-02-645	1.5+1.5
HCl	SWIA-03-612	2.5
H_2O_2	N/A	
HNO3 (1:1)	N/A	

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 11/6/7

Checked By: CPC

Date Disposed: Disposed by:

7664

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J955

METHOD 7470A/7471A
MERCURY BY COLD VAPOR

Three (3) water and eighteen (18) soil samples were received on 10/31/07 for Mercury analysis by Method 7470A/7471A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Samples J955-08 and J363-02 from another SDG were analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Sample J955-08 was spiked. Recoveries were within QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07J955
Instrument ID : TI047

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGK022SB	1	NA	11/13/0716:13	11/13/0714:00	M47K013010	M47K013008	HGK022S	Method Blank
LCS1S	HGK022SL	1	NA	11/13/0716:15	11/13/0714:00	M47K013011	M47K013008	HGK022S	Lab Control Sample (LCS)
LCD1S	HGK022SC	1	NA	11/13/0716:17	11/13/0714:00	M47K013012	M47K013008	HGK022S	LCS Duplicate
SB2-30'	J955-08	1	9.8	11/13/0716:21	11/13/0714:00	M47K013014	M47K013008	HGK022S	Field Sample
SB2-30'DL	J955-08J	5	9.8	11/13/0716:23	11/13/0714:00	M47K013015	M47K013008	HGK022S	Diluted Sample
SB2-30'MS	J955-08M	1	9.8	11/13/0716:25	11/13/0714:00	M47K013016	M47K013008	HGK022S	Matrix Spike Sample (MS)
SB2-30'MSD	J955-08S	1	9.8	11/13/0716:27	11/13/0714:00	M47K013017	M47K013008	HGK022S	MS Duplicate (MSD)
SB2-15'	J955-05	1	11.7	11/13/0716:30	11/13/0714:00	M47K013018	M47K013008	HGK022S	Field Sample
SB2-15'DUP	J955-06	1	8.5	11/13/0716:32	11/13/0714:00	M47K013019	M47K013008	HGK022S	Field Sample
SB2-20'	J955-07	1	12.5	11/13/0716:38	11/13/0714:00	M47K013022	M47K013020	HGK022S	Field Sample
SB2-35'	J955-09	1	9.8	11/13/0716:40	11/13/0714:00	M47K013023	M47K013020	HGK022S	Field Sample
SB2-40'	J955-10	1	8.2	11/13/0716:42	11/13/0714:00	M47K013024	M47K013020	HGK022S	Field Sample
SB2-45'	J955-11	1	10.7	11/13/0716:44	11/13/0714:00	M47K013025	M47K013020	HGK022S	Field Sample
SB2-50'	J955-12	1	5.1	11/13/0716:46	11/13/0714:00	M47K013026	M47K013020	HGK022S	Field Sample
SB2-55	J955-13	1	4.4	11/13/0716:48	11/13/0714:00	M47K013027	M47K013020	HGK022S	Field Sample
SB2-60'	J955-14	1	8.3	11/13/0716:50	11/13/0714:00	M47K013028	M47K013020	HGK022S	Field Sample
SB2-65'	J955-15	1	8.1	11/13/0716:52	11/13/0714:00	M47K013029	M47K013020	HGK022S	Field Sample
SB2-70'	J955-16	1	9.5	11/13/0716:54	11/13/0714:00	M47K013030	M47K013020	HGK022S	Field Sample
SB4-55'	J955-17	1	10.6	11/13/0716:56	11/13/0714:00	M47K013031	M47K013020	HGK022S	Field Sample
SB4-60'	J955-18	1	8.2	11/13/0717:02	11/13/0714:00	M47K013034	M47K013032	HGK022S	Field Sample
SB4-60'DUP	J955-19	1	8.4	11/13/0717:04	11/13/0714:00	M47K013035	M47K013032	HGK022S	Field Sample
SB4-65'	J955-20	1	8.6	11/13/0717:06	11/13/0714:00	M47K013036	M47K013032	HGK022S	Field Sample
SB4-70'	J955-21	1	9.1	11/13/0717:08	11/13/0714:00	M47K013037	M47K013032	HGK022S	Field Sample
SB1-70'	J955-22	1	9.3	11/13/0717:10	11/13/0714:00	M47K013038	M47K013032	HGK022S	Field Sample
SB2-30'AS	J955-08A	1	9.8	11/13/0718:00	11/13/0714:00	M47K013062	M47K013056	HGK022S	Analytical Spike Sample

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGK011WB	1	NA	11/06/0717:27	11/06/0713:00	M47K006024	M47K006020	HGK011W	Method Blank
LCS1W	HGK011WL	1	NA	11/06/0717:29	11/06/0713:00	M47K006025	M47K006020	HGK011W	Lab Control Sample (LCS)
LCD1W	HGK011WC	1	NA	11/06/0717:31	11/06/0713:00	M47K006026	M47K006020	HGK011W	LCS Duplicate
U8-008AS	J363-03A	1	NA	11/06/0717:33	11/06/0713:00	M47K006027	M47K006020	HGK011W	Analytical Spike Sample
U8-008	J363-03	1	NA	11/06/0717:36	11/06/0713:00	M47K006028	M47K006020	HGK011W	Field Sample
U8-008DL	J363-03J	5	NA	11/06/0717:37	11/06/0713:00	M47K006029	M47K006020	HGK011W	Diluted Sample
LEB1-103007	J955-02	1	NA	11/06/0717:54	11/06/0713:00	M47K006037	M47K006032	HGK011W	Field Sample
LEB2-103007	J955-03	1	NA	11/06/0717:56	11/06/0713:00	M47K006038	M47K006032	HGK011W	Field Sample
SB5-58'	J955-04	1	NA	11/06/0717:58	11/06/0713:00	M47K006039	M47K006032	HGK011W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J955

Matrix : WATER
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGK011WB	ND	1	NA	0.500	0.100	11/06/0717:27	11/06/0713:00	M47K006024	M47K006020	HGK011W	NA	11/06/07
LCS1W	HGK011WL	5.14	1	NA	0.500	0.100	11/06/0717:29	11/06/0713:00	M47K006025	M47K006020	HGK011W	NA	11/06/07
LCD1W	HGK011WC	5.39	1	NA	0.500	0.100	11/06/0717:31	11/06/0713:00	M47K006026	M47K006020	HGK011W	NA	11/06/07
LEB1-103007	J955-02	ND	1	NA	0.500	0.100	11/06/0717:54	11/06/0713:00	M47K006037	M47K006032	HGK011W	10/30/07	10/31/07
LEB2-103007	J955-03	ND	1	NA	0.500	0.100	11/06/0717:56	11/06/0713:00	M47K006038	M47K006032	HGK011W	10/30/07	10/31/07
SB5-58'	J955-04	1.62	1	NA	0.500	0.100	11/06/0717:58	11/06/0713:00	M47K006039	M47K006032	HGK011W	10/30/07	10/31/07

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGK011WB	HGK011WL	HGK011WC		
LAB FILE ID:	M47K006024	M47K006025	M47K006026		
DATIME EXTRCTD:	11/06/0713:00	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/06/0717:27	11/06/0717:29	11/06/0717:31	DATE RECEIVED:	11/06/07
PREP. BATCH:	HGK011W	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020	M47K006020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	5.14	103	5.00	5.39	108	5	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	U8-008	U8-008DL		
EMAX SAMP ID:	J363-03	J363-03J		
LAB FILE ID:	M47K006028	M47K006029		
DATE EXTRACTED:	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	10/29/07
DATE ANALYZED:	11/06/0717:36	11/06/0717:37	DATE RECEIVED:	10/30/07
PREP. BATCH:	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SERIAL DIL RSLT (ug/L)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	U8-008			
CONTROL NO.:	J363-03	J363-03A		
LAB FILE ID:	M47K006028	M47K006027		
DATIME EXTRCTD:	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	10/29/07
DATIME ANALYZD:	11/06/0717:36	11/06/0717:33	DATE RECEIVED:	10/30/07
PREP. BATCH:	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	AS RSLT (ug/L)	AS % REC	QC LIMIT (%)
Mercury	ND	2.00	2.08	104	85-115

METHOD 7471A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J955

Matrix : SOIL
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGK022SB	ND	1	NA	0.100	0.0330	11/13/0716:13	11/13/0714:00	M47K013010	M47K013008	HGK022S	NA	11/13/07
LCS1S	HGK022SL	0.858	1	NA	0.100	0.0330	11/13/0716:15	11/13/0714:00	M47K013011	M47K013008	HGK022S	NA	11/13/07
LCD1S	HGK022SC	0.855	1	NA	0.100	0.0330	11/13/0716:17	11/13/0714:00	M47K013012	M47K013008	HGK022S	NA	11/13/07
SB2-30'	J955-08	ND	1	9.8	0.111	0.0366	11/13/0716:21	11/13/0714:00	M47K013014	M47K013008	HGK022S	10/30/07	10/31/07
SB2-30'DL	J955-08J	ND	5	9.8	0.554	0.183	11/13/0716:23	11/13/0714:00	M47K013015	M47K013008	HGK022S	10/30/07	10/31/07
SB2-30'MS	J955-08M	0.959	1	9.8	0.111	0.0366	11/13/0716:25	11/13/0714:00	M47K013016	M47K013008	HGK022S	10/30/07	10/31/07
SB2-30'MSD	J955-08S	0.953	1	9.8	0.111	0.0366	11/13/0716:27	11/13/0714:00	M47K013017	M47K013008	HGK022S	10/30/07	10/31/07
SB2-15'	J955-05	ND	1	11.7	0.113	0.0374	11/13/0716:30	11/13/0714:00	M47K013018	M47K013008	HGK022S	10/30/07	10/31/07
SB2-15'DUP	J955-06	ND	1	8.5	0.109	0.0361	11/13/0716:32	11/13/0714:00	M47K013019	M47K013008	HGK022S	10/30/07	10/31/07
SB2-20'	J955-07	ND	1	12.5	0.114	0.0377	11/13/0716:38	11/13/0714:00	M47K013022	M47K013020	HGK022S	10/30/07	10/31/07
SB2-35'	J955-09	ND	1	9.8	0.111	0.0366	11/13/0716:40	11/13/0714:00	M47K013023	M47K013020	HGK022S	10/30/07	10/31/07
SB2-40'	J955-10	ND	1	8.2	0.109	0.0359	11/13/0716:42	11/13/0714:00	M47K013024	M47K013020	HGK022S	10/30/07	10/31/07
SB2-45'	J955-11	ND	1	10.7	0.112	0.0370	11/13/0716:44	11/13/0714:00	M47K013025	M47K013020	HGK022S	10/30/07	10/31/07
SB2-50'	J955-12	ND	1	5.1	0.105	0.0348	11/13/0716:46	11/13/0714:00	M47K013026	M47K013020	HGK022S	10/30/07	10/31/07
SB2-55	J955-13	ND	1	4.4	0.105	0.0345	11/13/0716:48	11/13/0714:00	M47K013027	M47K013020	HGK022S	10/30/07	10/31/07
SB2-60'	J955-14	ND	1	8.3	0.109	0.0360	11/13/0716:50	11/13/0714:00	M47K013028	M47K013020	HGK022S	10/30/07	10/31/07
SB2-65'	J955-15	ND	1	8.1	0.109	0.0359	11/13/0716:52	11/13/0714:00	M47K013029	M47K013020	HGK022S	10/30/07	10/31/07
SB2-70'	J955-16	ND	1	9.5	0.110	0.0365	11/13/0716:54	11/13/0714:00	M47K013030	M47K013020	HGK022S	10/30/07	10/31/07
SB4-55'	J955-17	ND	1	10.6	0.112	0.0369	11/13/0716:56	11/13/0714:00	M47K013031	M47K013020	HGK022S	10/30/07	10/31/07
SB4-60'	J955-18	ND	1	8.2	0.109	0.0359	11/13/0717:02	11/13/0714:00	M47K013034	M47K013032	HGK022S	10/30/07	10/31/07
SB4-60'DUP	J955-19	ND	1	8.4	0.109	0.0360	11/13/0717:04	11/13/0714:00	M47K013035	M47K013032	HGK022S	10/30/07	10/31/07
SB4-65'	J955-20	ND	1	8.6	0.109	0.0361	11/13/0717:06	11/13/0714:00	M47K013036	M47K013032	HGK022S	10/30/07	10/31/07
SB4-70'	J955-21	ND	1	9.1	0.110	0.0363	11/13/0717:08	11/13/0714:00	M47K013037	M47K013032	HGK022S	10/30/07	10/31/07
SB1-70'	J955-22	ND	1	9.3	0.110	0.0364	11/13/0717:10	11/13/0714:00	M47K013038	M47K013032	HGK022S	10/30/07	10/31/07
SB2-30'AS	J955-08A	0.349	1	9.8	0.111	0.0366	11/13/0718:00	11/13/0714:00	M47K013062	M47K013056	HGK022S	10/30/07	10/31/07

7071

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGK022SB	HGK022SL	HGK022SC		
LAB FILE ID:	M47K013010	M47K013011	M47K013012		
DATIME EXTRCTD:	11/13/0714:00	11/13/0714:00	11/13/0714:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/13/0716:13	11/13/0716:15	11/13/0716:17	DATE RECEIVED:	11/13/07
PREP. BATCH:	HGK022S	HGK022S	HGK022S		
CALIB. REF:	M47K013008	M47K013008	M47K013008		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.858	103	0.833	0.855	103	0	80-120	20

1012

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	9.8
DILUTION FACTOR:	1	5		
SAMPLE ID:	SB2-30'	SB2-30'DL		
EMAX SAMP ID:	J955-08	J955-08J		
LAB FILE ID:	M47K013014	M47K013015		
DATE EXTRACTED:	11/13/0714:00	11/13/0714:00	DATE COLLECTED:	10/30/07
DATE ANALYZED:	11/13/0716:21	11/13/0716:23	DATE RECEIVED:	10/31/07
PREP. BATCH:	HGK022S	HGK022S		
CALIB. REF:	M47K013008	M47K013008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

7073

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 7471A

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MATRIX:	SOIL		% MOISTURE:	9.8
DILTN FACTR:	1	1		
SAMPLE ID:	SB2-30'			
CONTROL NO.:	J955-08	J955-08A		
LAB FILE ID:	M47K013014	M47K013062		
DATIME EXTRCTD:	11/13/0714:00	11/13/0714:00	DATE COLLECTED:	10/30/07
DATIME ANALYZD:	11/13/0716:21	11/13/0718:00	DATE RECEIVED:	10/31/07
PREP. BATCH:	HGK022S	HGK022S		
CALIB. REF:	M47K013008	M47K013056		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Mercury	ND	0.369	0.349	95	85-115

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07J955
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	9.8
DILTN FACTR:	1	1	1		
SAMPLE ID:	SB2-30'				
CONTROL NO.:	J955-08	J955-08M	J955-08S		
LAB FILE ID:	M47K013014	M47K013016	M47K013017		
DATIME EXTRCTD:	11/13/0714:00	11/13/0714:00	11/13/0714:00	DATE COLLECTED:	10/30/07
DATIME ANALYZD:	11/13/0716:21	11/13/0716:25	11/13/0716:27	DATE RECEIVED:	10/31/07
PREP. BATCH:	HGK022S	HGK022S	HGK022S		
CALIB. REF:	M47K013008	M47K013008	M47K013008		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.924	0.959	104	0.924	0.953	103	1	75-125	20

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/6/07 **Start Time:** 16:33

End Date: 11/6/07 **End Time:** 19:40

Comments:

QC OK

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47K006

Method File: Hg

SOP #	Rev. #
☑ EMAX-7470	3
☐ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-715
S3	↓
S4	↓
S5	↓
S6	↓
ICV	SM3B-07-716
CCV	↓
LCS	↓
Analytical Spike	
	SM3B-07-686

Analyzed By: NT

Date: 11/6/07

"M47K006"

EMAX1fid	EMAX1sid	conc	Raw_resp	rsd/rf	adatetime	DF
M47K006000	STD1REP1	0	309		11/06/0716:33	1
M47K006001	STD2REP1	.2	13652		11/06/0716:35	1
M47K006002	STD3REP1	1	50519		11/06/0716:37	1
M47K006003	STD4REP1	2	100009		11/06/0716:39	1
M47K006004	STD5REP1	5	247407		11/06/0716:41	1
M47K006005	STD6REP1	10	486043		11/06/0716:43	1
M47K006006	ICV	2.05	101952	0	11/06/0716:52	1
M47K006007	ICB	-.001	2576	0	11/06/0716:53	1
M47K006008	CCV1	5.06	247681	0	11/06/0716:55	1
M47K006009	CCB1	-.052	81	0	11/06/0716:58	1
M47K006010	HGK010WB	-.017	1811	0	11/06/0717:00	1
M47K006011	HGK010WL	5.1	249606	0	11/06/0717:02	1
M47K006012	HGK010WC	5.1	249975	0	11/06/0717:04	1
M47K006013	TXK001SB	-.032	1076	0	11/06/0717:06	1
M47K006014	K007-01A	2.18	108086	0	11/06/0717:08	1
M47K006015	K007-01	-.029	1241	0	11/06/0717:10	1
M47K006016	K007-01J	.007	2987	0	11/06/0717:12	5
M47K006017	K007-01M	5.47	267860	0	11/06/0717:14	1
M47K006018	K007-01S	5.24	256661	0	11/06/0717:16	1
M47K006019	K002-01A	2.12	105574	0	11/06/0717:18	1
M47K006020	CCV2	5.23	255954	0	11/06/0717:19	1
M47K006021	CCB2	-.04	670	0	11/06/0717:21	1
M47K006022	K002-01	-.062	-375	0	11/06/0717:23	1
M47K006023	K002-01J	.002	2712	0	11/06/0717:25	5
M47K006024	HGK011WB	-.001	2575	0	11/06/0717:27	1
M47K006025	HGK011WL	5.14	251913	0	11/06/0717:29	1
M47K006026	HGK011WC	5.39	263700	0	11/06/0717:31	1
M47K006027	J363-03A	2.08	103654	0	11/06/0717:33	1
M47K006028	J363-03	-.02	1648	0	11/06/0717:36	1
M47K006029	J363-03J	-.061	-330	0	11/06/0717:37	5
M47K006030	J363-03M	5.38	263582	0	11/06/0717:39	1
M47K006031	J363-03S	5.36	262397	0	11/06/0717:41	1
M47K006032	CCV3	5.2	254841	0	11/06/0717:43	1
M47K006033	CCB3	-.027	1334	0	11/06/0717:46	1
M47K006034	J345-02	.003	2791	0	11/06/0717:48	1
M47K006035	J549-01	.072	6130	0	11/06/0717:50	1
M47K006036	J385-02	.001	2687	0	11/06/0717:52	1
M47K006037	J955-02	.007	2957	0	11/06/0717:54	1
M47K006038	J955-03	.034	4287	0	11/06/0717:56	1
M47K006039	J955-04	1.62	81095	0	11/06/0717:58	1
M47K006040	K051-03	-.014	1927	0	11/06/0718:00	1
M47K006041	J393-04	-.004	2425	0	11/06/0718:02	1
M47K006042	K017-02	-.013	1996	0	11/06/0718:04	1
M47K006043	K017-03	.026	3868	0	11/06/0718:06	1
M47K006044	CCV4	5.22	255832	0	11/06/0718:08	1
M47K006045	CCB4	.015	3351	0	11/06/0718:10	1
M47K006046	K038-01	-.054	-13	0	11/06/0718:12	1
M47K006047	K033-02	.021	3635	0	11/06/0718:14	1
M47K006048	K047-04	.022	3683	0	11/06/0718:16	1
M47K006049	K047-05	.033	4210	0	11/06/0718:18	1
M47K006050	K047-06	-.004	2447	0	11/06/0718:21	1
M47K006051	K047-07	-.029	1205	0	11/06/0718:23	1
M47K006052	K047-08	-.049	237	0	11/06/0718:25	1
M47K006053	K047-09	-.011	2109	0	11/06/0718:27	1
M47K006054	K410-01	.053	5217	0	11/06/0718:29	1
M47K006055	HGK012WB	-.014	1948	0	11/06/0718:31	1
M47K006056	CCV5	5.16	252873	0	11/06/0718:33	1
M47K006057	CCB5	-.007	2299	0	11/06/0718:35	1
M47K006058	HGK012WL	5.25	257134	0	11/06/0718:37	1
M47K006059	HGK012WC	5.41	264798	0	11/06/0718:39	1
M47K006060	K032-04A	2.12	105201	0	11/06/0718:41	1
M47K006061	K032-04	-.016	1848	0	11/06/0718:43	1
M47K006062	K032-04J	.017	3452	0	11/06/0718:45	5
M47K006063	K032-04M	5.51	269492	0	11/06/0718:47	1
M47K006064	K032-04S	5.51	269658	0	11/06/0718:49	1
M47K006065	K032-05	-.074	-942	0	11/06/0718:51	1
M47K006066	K021-02	-.004	2432	0	11/06/0718:53	1
M47K006067	K021-03	-.047	361	0	11/06/0718:55	1
M47K006068	CCV6	5.34	261677	0	11/06/0718:58	1
M47K006069	CCB6	-.018	1730	0	11/06/0719:00	1
M47K006070	K021-04	-.035	905	0	11/06/0719:02	1
M47K006071	K021-05	-.024	1481	0	11/06/0719:04	1
M47K006072	K021-06	-.025	1397	0	11/06/0719:06	1
M47K006073	K021-08	-.032	1076	0	11/06/0719:08	1
M47K006074	J391-01	.013	3260	0	11/06/0719:10	1

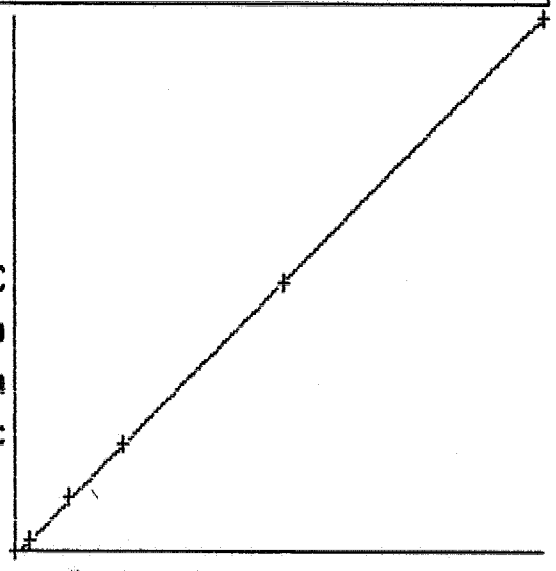
M47K006075	J391-02	-.014	1971	0	11/06/0719:12	1
M47K006076	J391-03	-.012	2045	0	11/06/0719:14	1
M47K006077	J391-05	.014	3290	0	11/06/0719:16	1
M47K006078	J391-06	.026	3885	0	11/06/0719:18	1
M47K006079	J391-07	.022	3688	0	11/06/0719:20	1
M47K006080	CCV7	5.3	259596	0	11/06/0719:22	1
M47K006081	CCB7	-.042	613	0	11/06/0719:24	1
M47K006082	K003-01	.011	3156	0	11/06/0719:26	1
M47K006083	K003-02	-.019	1699	0	11/06/0719:28	1
M47K006084	K003-03	.025	3814	0	11/06/0719:30	1
M47K006085	K003-04	.01	3133	0	11/06/0719:32	1
M47K006086	K003-06	.017	3463	0	11/06/0719:34	1
M47K006087	K003-07	.005	2875	0	11/06/0719:36	1
M47K006088	CCV8	5.25	256904	0	11/06/0719:38	1
M47K006089	CCB8	-.04	681	0	11/06/0719:40	1
**********	**********	**********	**********	**********	**********	***
EMAX1fid	EMAX1sid	Xint	Yint	rrf	adatetime	DF
M47K006000	BLANK	-5.443732E-02	2638.44	.9999567	11/06/0719:40	1

RunProt: HGCOM
RunFold: M47K006 Seq: 6 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 16:44:05 06 Nov 2007 Xmit: Off Gas: 0.35 LPM
State: Idle User: MTMTH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	-.048	-.048	Quadratic
S2	.200	.227	.027	Wtdlinear
S3	1.00	.988	-.012	C
S4	2.00	2.01	.009	Accept o
S5	5.00	5.05	.050	n
S6	10.0	9.97	-.027	c

A .0000000 r .999957
B 2.06306e-5 C -5.41697e-2



Relative Absorbance

	Mean		SD	
S1	309	0	SD	309
S2	13652	0	%RSD	13652
S3	50519	0	%RSD	50519
S4	100009	0	%RSD	100009
S5	247407	0	%RSD	247407
S6	486043	0	%RSD	486043

New cal coefficients stored

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/13/07 **Start Time:** 15:45

End Date: 11/13/07 **End Time:** 18:04

Comments:

QC OK

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47K013

Method File: Hg

SOP #	Rev. #
☐ EMAX-7470	3
☑ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-727
S3	↓
S4	
S5	
S6	
ICV	SM3B-07-728
CCV	↓
LCS	
Analytical Spike	
	SM3B-07-685

Analyzed By: NT

Date: 11/13/07

"M47K013"

EMAXlfid	EMAXlsid	conc	Raw_resp	rsd/rf	adatetime	DF
M47K013000	STD1REP1	0	348		11/13/0715:45	1
M47K013001	STD2REP1	.2	20906		11/13/0715:47	1
M47K013002	STD3REP1	1	98058		11/13/0715:49	1
M47K013003	STD4REP1	2	191075		11/13/0715:51	1
M47K013004	STD5REP1	5	478717		11/13/0715:53	1
M47K013005	STD6REP1	10	905843		11/13/0715:56	1
M47K013006	ICV	2.03	191660	0	11/13/0716:05	1
M47K013007	ICB	-.039	3282	0	11/13/0716:07	1
M47K013008	CCV1	5.22	481391	0	11/13/0716:09	1
M47K013009	CCB1	-.065	943	0	11/13/0716:11	1
M47K013010	HGK022SB	-.038	3423	0	11/13/0716:13	1
M47K013011	HGK022SL	5.15	475271	0	11/13/0716:15	1
M47K013012	HGK022SC	5.13	472850	0	11/13/0716:17	1
M47K013013	ZZZZ	1.37	130992	0	11/13/0716:19	1
M47K013014	J955-08	-.008	6141	0	11/13/0716:21	1
M47K013015	J955-08J	-.065	900	0	11/13/0716:23	5
M47K013016	J955-08M	5.19	478606	0	11/13/0716:25	1
M47K013017	J955-08S	5.16	476168	0	11/13/0716:27	1
M47K013018	J955-05	-.015	5467	0	11/13/0716:30	1
M47K013019	J955-06	-.045	2724	0	11/13/0716:32	1
M47K013020	CCV2	5.2	479347	0	11/13/0716:34	1
M47K013021	CCB2	-.046	2699	0	11/13/0716:36	1
M47K013022	J955-07	-.017	5270	0	11/13/0716:38	1
M47K013023	J955-09	.056	11901	0	11/13/0716:40	1
M47K013024	J955-10	.173	22608	0	11/13/0716:42	1
M47K013025	J955-11	.089	14943	0	11/13/0716:44	1
M47K013026	J955-12	.096	15589	0	11/13/0716:46	1
M47K013027	J955-13	.035	9986	0	11/13/0716:48	1
M47K013028	J955-14	-.044	2805	0	11/13/0716:50	1
M47K013029	J955-15	-.054	1983	0	11/13/0716:52	1
M47K013030	J955-16	-.04	3217	0	11/13/0716:54	1
M47K013031	J955-17	.061	12360	0	11/13/0716:56	1
M47K013032	CCV3	5.15	474778	0	11/13/0716:58	1
M47K013033	CCB3	-.072	350	0	11/13/0717:00	1
M47K013034	J955-18	.017	8359	0	11/13/0717:02	1
M47K013035	J955-19	.053	11665	0	11/13/0717:04	1
M47K013036	J955-20	-.064	1074	0	11/13/0717:06	1
M47K013037	J955-21	0	6844	0	11/13/0717:08	1
M47K013038	J955-22	-.048	2506	0	11/13/0717:10	1
M47K013039	HGK023SB	-.046	2665	0	11/13/0717:12	1
M47K013040	HGK023SL	5.04	464897	0	11/13/0717:14	1
M47K013041	HGK023SC	5.03	464373	0	11/13/0717:16	1
M47K013042	K058-04A	2.03	191757	0	11/13/0717:18	1
M47K013043	K058-04	.036	10107	0	11/13/0717:21	1
M47K013044	CCV4	5.06	466298	0	11/13/0717:23	1
M47K013045	CCB4	-.051	2259	0	11/13/0717:25	1
M47K013046	K058-04J	-.005	6382	0	11/13/0717:27	5
M47K013047	K058-04M	5.19	478363	0	11/13/0717:29	1
M47K013048	K058-04S	5.32	490204	0	11/13/0717:31	1
M47K013049	K058-05	.095	15511	0	11/13/0717:33	1
M47K013050	K058-06	.01	7777	0	11/13/0717:35	1
M47K013051	K058-16	.035	10058	0	11/13/0717:37	1
M47K013052	K058-17	-.014	5602	0	11/13/0717:40	1
M47K013053	K058-18	.033	9828	0	11/13/0717:42	1
M47K013054	J385-03	-.031	4061	0	11/13/0717:44	1
M47K013055	J385-04	-.025	4613	0	11/13/0717:46	1
M47K013056	CCV5	5.05	465967	0	11/13/0717:48	1
M47K013057	CCB5	-.046	2668	0	11/13/0717:50	1
M47K013058	J385-05	.172	22453	0	11/13/0717:52	1
M47K013059	J385-06	.046	11059	0	11/13/0717:54	1
M47K013060	K411-01	-.106	-2793	0-	11/13/0717:56	1
M47K013061	K417-01	-.028	4319	0	11/13/0717:58	1
M47K013062	J955-08A	1.89	178321	0	11/13/0718:00	1
M47K013063	CCV6	5.05	465687	0	11/13/0718:02	1
M47K013064	CCB6	-.065	904	0	11/13/0718:04	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47K013000	BLANK	-7.771212E-02	7056.466	.9996224	11/13/0718:04	1

RunProt: HGCOM

RunFold: M47K013 Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 16:03:17 13 Nov 2007 Xmit: Off Gas: 0.35 LPM

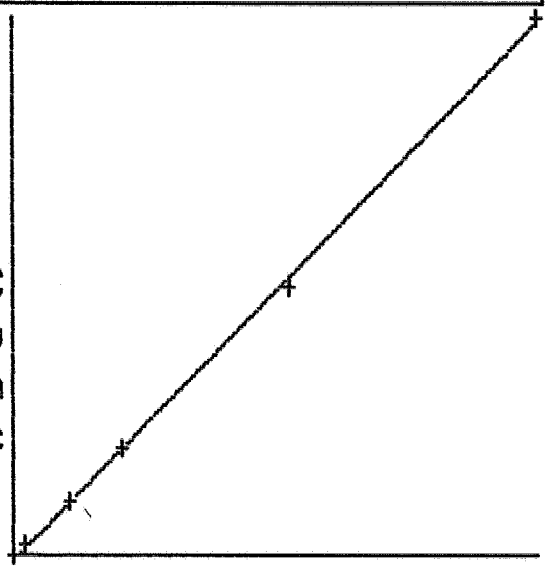
State: Idle User: NT\TH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	-.072	-.072	Quadratic
S2	.200	.155	-.045	Wtdlinear
S3	1.00	1.00	.004	C
S4	2.00	2.03	.027	Accept o
S5	5.00	5.19	.193	n
S6	10.0	9.89	-.107	c

A .0000000 r .999622

B 1.10046e-5 C -7.53629e-2



Relative Absorbance

	Mean		
S1	348	0 SD	348
S2	20906	0 %RSD	20906
S3	98058	0 %RSD	98058
S4	191075	0 %RSD	191075
S5	478717	0 %RSD	478717
S6	905843	0 %RSD	905843

New cal coefficients stored

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/6/07 Time: 13:00 Ending Date: 11/6/07 Time: 15:30 Book # E47-058

BATCH: HGK011W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g / ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	75	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK011WB				50					
12	WL									
13	WC									
14	J363-03						<2			
15	03M						<2			
16	035						<2			
17	J345-02						<2			
18	J549-01	Bn	Td				<2			
19	J385-02	Cr	Cr				<2			
20	J955-02						<2			
21	03						<2			
22	04						<2			
23	K051-03						<2			
24	J393-04						<2			
25	K017-02						<2			
26	03						<2			
27	K038-01						<2			
28	K033-02						<2			

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL	SM3B-07-715	50	0.2,1,2,5,10
ICV	SM3B-07-716		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3	SW1A-03-601		
HCl	N/A		
H_2SO_4	SW1A-03-617		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$		76	
$NH_2OH.HCl$		75	
$SnCl_2$		68	

Temp of Digestion Bath: 95 °C

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7083

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/6/07 Time: 13:00 Ending Date: 11/6/07 Time: 15:30 Book # E47-058

BATCH: HGK011W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g | ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	K047-04	Cr	Cr	N/A	50	N/A	<2	75	Cr	Cr
02	05						<2			
03	06						<2			
04	07						<2			
05	08						<2			
06	09						<2			
07	K410-01	Yw	Td				10			
08										
09										
10										
11										
12										
13										
14										
15										
16						NT				
17						11/6/07				
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL			
ICV			
CCV/MS			
LCS			
Reagent	Lot# / ID		
HNO_3			
HCl			
H_2SO_4			
$KMnO_4$			
$K_2S_2O_8$			
$NH_2OH.HCl$			
$SnCl_2$			
Temp of Digestion Bath:	°C		
Legend			

SAME AS PAGE 81

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

1081

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☒ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Soil Start Date: 11/13/07 Time: 14:00 Ending Date: 11/13/07 Time: 15:00 Book # E47-058

BATCH: HGK022S

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g/ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	100	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK022SB				0.600g					
12	5L				0.600					
13	5C				0.600					
14	J955-05	Bn	Fn		0.601					
15	06				0.600					
16	07				0.601					
17	08				0.602					
18	08M				0.602					
19	08S				0.601					
20	09				0.601					
21	10				0.601					
22	11				0.603					
23	12				0.601					
24	13				0.601					
25	14				0.602					
26	15				0.602					
27	16				0.602					
28	17				0.601					

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL SM	3B-07-727	100	0.2,1,2,5,10
ICV SM	3B-07-728		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3 / HCl aqua regia	SW1A-03-601 / SW1A-03-612		
H_2SO_4	N/A		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$	N/A		
$NH_2OH.HCl$	SM5B-02-75		
$SnCl_2$	68		
Temp of Digestion Bath:	95 °C		

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7085

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☑ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Soil Start Date: 11/13/07 Time: 14:00 Ending Date: 11/13/07 Time: 15:00 Book # E47-058

BATCH: HGK022S

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g | ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	J955-18	Bn	Fn	N/A	0.601	N/A	N/A	100	Cr	Cr
02	19				0.602					
03	20				0.604					
04	21				0.604					
05	22				0.601					
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL			
ICV			
CCV/MS			
LCS			
Reagent	Lot# / ID		
HNO_3			
HCl			
H_2SO_4			
$KMnO_4$			
$K_2S_2O_8$			
$NH_2OH.HCl$			
$SnCl_2$			
Temp of Digestion Bath:	°C		

SAME AS PAGE 99

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7086

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 314.0
PERCHLORATE

SDG#: 07J955

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07J955

METHOD 314.0
PERCHLORATE

Three (3) water and eighteen (18) soil samples were received on 10/31/07 for Perchlorate analysis by Method 314.0 in accordance with "Method for Determination of Perchlorate by Ion Chromatography", EPA 600/98-118.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at half of the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control sample results were within QC limits.

4. Duplicate

Sample J955-08 was analyzed for duplicate. %RPD was within QC limit.

5. Matrix Spike

Sample J955-08 was spiked. % Recovery was within QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J955

Matrix : WATER
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCK003WB	ND	1	NA	2.00	0.500	11/06/0714:37	NA	JK06002	JK06001	PCK003W	NA	NA
LCS1W	PCK003WL	22.3	1	NA	2.00	0.500	11/06/0715:19	NA	JK06004	JK06001	PCK003W	NA	NA
LCD1W	PCK003WC	23.1	1	NA	2.00	0.500	11/06/0715:40	NA	JK06005	JK06001	PCK003W	NA	NA
LEB1-103007	J955-02	ND	1	NA	2.00	0.500	11/06/0719:26	NA	JK06013	JK06012	PCK003W	10/30/0707:45	10/31/07
LEB2-103007	J955-03	ND	1	NA	2.00	0.500	11/06/0719:47	NA	JK06014	JK06012	PCK003W	10/30/0708:05	10/31/07
MBLK2W	PCK007WB	ND	1	NA	2.00	0.500	11/09/0716:28	NA	JK08052	JK08048	PCK007W	NA	NA
LCS2W	PCK007WL	21.9	1	NA	2.00	0.500	11/09/0715:46	NA	JK08050	JK08048	PCK007W	NA	NA
LCD2W	PCK007WC	21.9	1	NA	2.00	0.500	11/09/0716:07	NA	JK08051	JK08048	PCK007W	NA	NA
SB5-58'	J955-04	278000	10000	NA	20000	5000	11/09/0701:14	NA	JK08035	JK08025	PCK007W	10/30/0708:00	10/31/07

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07J955

Matrix : SOIL
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PCK006SB	ND	1	NA	20.0	10.0	11/08/0715:09	11/07/0714:30	JK08007	JK08002	PCK006S	NA	11/07/07
LCS1S	PCK006SL	233	1	NA	20.0	10.0	11/08/0714:25	11/07/0714:30	JK08005	JK08002	PCK006S	NA	11/07/07
LCD1S	PCK006SC	235	1	NA	20.0	10.0	11/08/0714:46	11/07/0714:30	JK08006	JK08002	PCK006S	NA	11/07/07
SB2-15'	J955-05	ND	1	11.7	22.7	11.3	11/08/0715:30	11/07/0714:30	JK08008	JK08002	PCK006S	10/30/0709:25	10/31/07
SB2-15'DUP	J955-06	ND	1	8.5	21.9	10.9	11/08/0715:54	11/07/0714:30	JK08009	JK08002	PCK006S	10/30/0709:30	10/31/07
SB2-20'	J955-07	27.2	1	12.5	22.9	11.4	11/08/0716:15	11/07/0714:30	JK08010	JK08002	PCK006S	10/30/0709:36	10/31/07
SB2-35'	J955-09	ND	1	9.8	22.2	11.1	11/08/0716:57	11/07/0714:30	JK08012	JK08002	PCK006S	10/30/0710:25	10/31/07
SB2-30'	J955-08	ND	1	9.8	22.2	11.1	11/08/0718:00	11/07/0714:30	JK08015	JK08014	PCK006S	10/30/0710:20	10/31/07
SB2-30'DUP	J955-08D	ND	1	9.8	22.2	11.1	11/08/0718:21	11/07/0714:30	JK08016	JK08014	PCK006S	10/30/0710:20	10/31/07
SB2-30'MS	J955-08M	113	1	9.8	22.2	11.1	11/08/0718:42	11/07/0714:30	JK08017	JK08014	PCK006S	10/30/0710:20	10/31/07
SB2-65'	J955-15	296	1	8.1	21.8	10.9	11/08/0721:02	11/07/0714:30	JK08023	JK08014	PCK006S	10/30/0713:03	10/31/07
SB2-70'	J955-16	35.0	1	9.5	22.1	11.0	11/08/0722:05	11/07/0714:30	JK08026	JK08025	PCK006S	10/30/0713:16	10/31/07
SB4-60'DUP	J955-19	52.9	1	8.4	21.8	10.9	11/08/0723:08	11/07/0714:30	JK08029	JK08025	PCK006S	10/30/0716:25	10/31/07
SB4-70'	J955-21	68.1	1	9.1	22.0	11.0	11/08/0723:50	11/07/0714:30	JK08031	JK08025	PCK006S	10/30/0716:36	10/31/07
SB1-70'	J955-22	ND	1	9.3	22.1	11.0	11/09/0700:11	11/07/0714:30	JK08032	JK08025	PCK006S	10/30/0717:23	10/31/07
SB2-40'	J955-10	3140	20	8.2	436	218	11/09/0710:25	11/07/0714:30	JK08039	JK08037	PCK006S	10/30/0710:45	10/31/07
SB2-55	J955-13	1320	10	4.4	209	105	11/09/0711:28	11/07/0714:30	JK08042	JK08037	PCK006S	10/30/0711:40	10/31/07
SB2-60'	J955-14	1090	5	8.3	109	54.5	11/09/0711:49	11/07/0714:30	JK08043	JK08037	PCK006S	10/30/0712:40	10/31/07
SB4-55'	J955-17	413	2	10.6	44.7	22.4	11/09/0712:10	11/07/0714:30	JK08044	JK08037	PCK006S	10/30/0716:10	10/31/07
SB4-60'	J955-18	334	2	8.2	43.6	21.8	11/09/0712:31	11/07/0714:30	JK08045	JK08037	PCK006S	10/30/0716:20	10/31/07
SB4-65'	J955-20	1470	10	8.6	219	109	11/09/0712:52	11/07/0714:30	JK08046	JK08037	PCK006S	10/30/0716:27	10/31/07
SB2-45'	J955-11	25800	100	10.7	2240	1120	11/09/0713:13	11/07/0714:30	JK08047	JK08037	PCK006S	10/30/0710:50	10/31/07
SB2-50'	J955-12	7970	100	5.1	2110	1050	11/09/0713:55	11/07/0714:30	JK08049	JK08048	PCK006S	10/30/0711:10	10/31/07

QC SUMMARY

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	PCK003WB	PCK003WL	PCK003WC		
LAB FILE ID:	JK06002	JK06004	JK06005		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/06/0714:37	11/06/0715:19	11/06/0715:40	DATE RECEIVED:	NA
PREP. BATCH:	PCK003W	PCK003W	PCK003W		
CALIB. REF:	JK06001	JK06001	JK06001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	22.3	89	25.0	23.1	92	4	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	PCK007WB	PCK007WL	PCK007WC		
LAB FILE ID:	JK08052	JK08050	JK08051		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/09/0716:28	11/09/0715:46	11/09/0716:07	DATE RECEIVED:	NA
PREP. BATCH:	PCK007W	PCK007W	PCK007W		
CALIB. REF:	JK08048	JK08048	JK08048		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	21.9	88	25.0	21.9	88	0	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 314.0

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	PCK006SB	PCK006SL	PCK006SC		
LAB FILE ID:	JK08007	JK08005	JK08006		
DATE EXTRACTED:	11/07/0714:30	11/07/0714:30	11/07/0714:30	DATE COLLECTED:	NA
DATE ANALYZED:	11/08/0715:09	11/08/0714:25	11/08/0714:46	DATE RECEIVED:	11/07/07
PREP. BATCH:	PCK006S	PCK006S	PCK006S		
CALIB. REF:	JK08002	JK08002	JK08002		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	250	233	93	250	235	94	1	85-115	20

8998

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 314.0

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MATRIX:	SOIL		% MOISTURE:	9.8
DILUTION FACTOR:	1	1		
SAMPLE ID:	SB2-30'			
LAB SAMP ID:	J955-08	J955-08M		
LAB FILE ID:	JK08015	JK08017		
DATE EXTRACTED:	11/07/0714:30	11/07/0714:30	DATE COLLECTED:	10/30/07 10:20
DATE ANALYZED:	11/08/0718:00	11/08/0718:42	DATE RECEIVED:	10/31/07
PREP. BATCH:	PCK006S	PCK006S		
CALIB. REF:	JK08014	JK08014		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	QC LIMIT (%)
Perchlorate	ND	111	113	102	80-120

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07J955
METHOD: METHOD 314.0

MATRIX:	SOIL		% MOISTURE:	9.8
DILUTION FACTOR:	1	1		
SAMPLE ID:	SB2-30'			
EMAX SAMP ID:	J955-08	J955-08D		
LAB FILE ID:	JK08015	JK08016		
DATE EXTRACTED:	11/07/0714:30	11/07/0714:30	DATE COLLECTED:	10/30/07 10:20
DATE ANALYZED:	11/08/0718:00	11/08/0718:21	DATE RECEIVED:	10/31/07
PREP. BATCH:	PCK006S	PCK006S		
CALIB. REF:	JK08014	JK08014		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	DUPL RSLT (ug/kg)	RPD RSLT %	QC LIMIT (%)
Perchlorate	ND	ND	0	20

INITIAL CALIBRATION

IC SEQ FORM (ESD)

LFID	LSID	SELCOMP	METHOD	DateTime	DF
JI07001	IB	P	IC57I07	09/07/0712:02	1
JI07002	S-0.0	P	IC57I07	09/07/0712:23	1
JI07003	S-2.0	P	IC57I07	09/07/0712:44	1
JI07004	S-4.0	P	IC57I07	09/07/0713:06	1
JI07005	S-10.0	P	IC57I07	09/07/0713:27	1
JI07006	S-25.0	P	IC57I07	09/07/0713:48	1
JI07007	S-30.0	P	IC57I07	09/07/0714:09	1
JI07008	ICV	P	IC57I07	09/07/0714:30	1
JI07009	ICB	P	IC57I07	09/07/0715:14	1

PW 9-7-07

Method : c:\ezchrom\methods\ic57i07.met
Printed : Sep 07, 2007 15:50:05
Channel : A
Peak : PERCHLORATE

* - Replicate Not Used

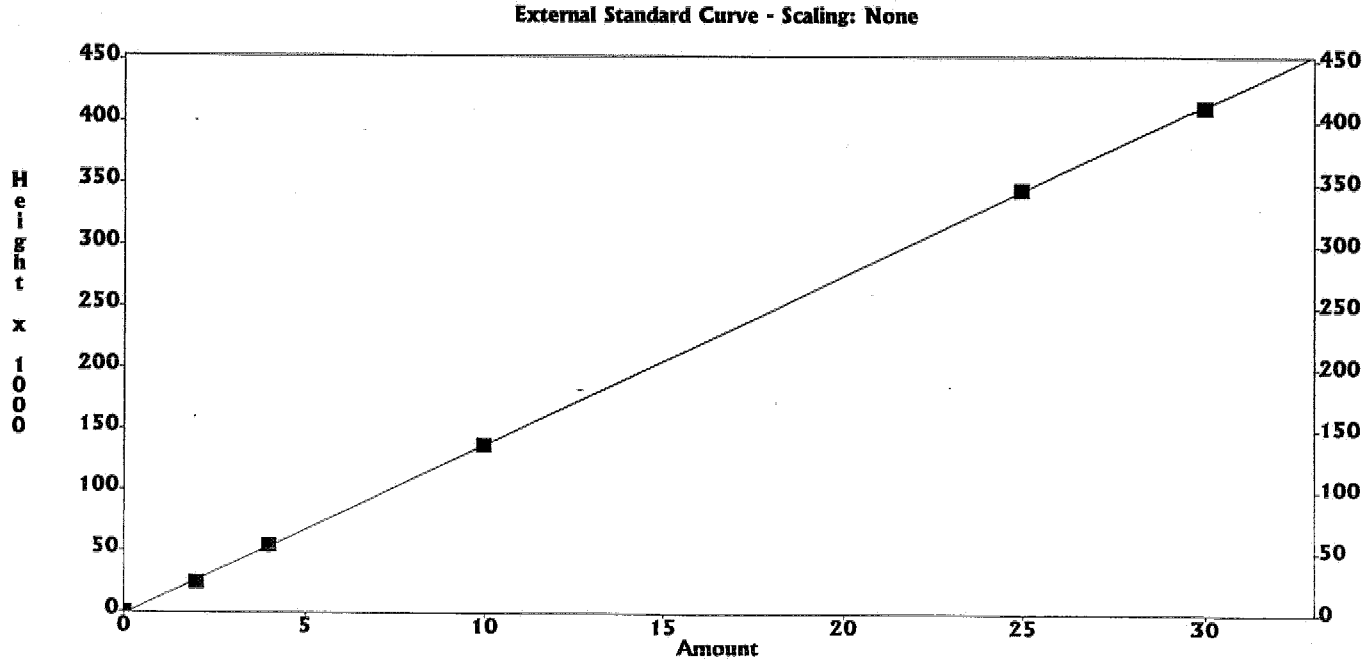
Level	Height	Amount	RF	Rep Hgt 1	Rep Hgt 2	Rep Hgt 3	Rep Hgt 4	Rep Hgt 5	Replic STD	Replic %RSD	Old Height
2	24283	2	12141.50	24283							0
3	54790	4	13697.50	54790							0
4	137022	10	13702.20	137022							0
5	345226	25	13809.04	345226							0
6	412192	30	13739.73	412192							0

Calib Flag: Replace

Average RF: 13418
RF StdDev: 714.977
RF %RSD: 5.328

RF Definition: Height / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 7.22736e-005 x Height + 0.128135
R^2 = 0.999945



RW 9-7-07

8013

SECOND SOURCE

IC RESULT FORM CalVersion: PCHLO314.I07/JI07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JI07001	IB	P	.000	09/07/0712:02	1
JI07002	S-0.0	P	.0000	09/07/0712:23	1
JI07003	S-2.0	P	2	09/07/0712:44	1
JI07004	S-4.0	P	4	09/07/0713:06	1
JI07005	S-10.0	P	10	09/07/0713:27	1
JI07006	S-25.0	P	25	09/07/0713:48	1
JI07007	S-30.0	P	30	09/07/0714:09	1
JI07008	ICV	P	95%	09/07/0714:30	1
JI07009	ICB	P	.000	09/07/0715:14	1

DAILY CALIBRATION

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK06001	IPCS	P	84.5%	11/06/0714:16	1
JK06002	PCK003WB	P	.000	11/06/0714:37	1
JK06003	MRL	P	102%	11/06/0714:58	1
JK06004	PCK003WL	P	22.3	11/06/0715:19	1
JK06005	PCK003WC	P	23.1	11/06/0715:40	1
JK06006	J344-02	P	.000	11/06/0716:15	1
JK06007	J345-02	P	.000	11/06/0716:36	1
JK06008	K042-02	P	.000	11/06/0716:57	1
JK06009	K042-03	P	4.94	11/06/0717:18	1
JK06010	J385-02	P	3.53	11/06/0717:39	1
JK06011	K042-02	P	.000	11/06/0718:00	5
JK06012	CCV49-15	P	92%	11/06/0718:21	1
JK06013	J955-02	P	.000	11/06/0719:26	1
JK06014	J955-03	P	.000	11/06/0719:47	1
JK06015	K033-02	P	.000	11/06/0720:08	1
JK06016	K017-02	P	.000	11/06/0720:29	1
JK06017	K017-03	*	45.3E	11/06/0720:50	1
JK06018	J396-01	P	51.4	11/06/0721:11	5
JK06019	J396-02	P	2.42	11/06/0721:32	1
JK06020	RINSE	P	.000	11/06/0721:53	1
JK06021	J396-02R	P	2.65	11/06/0722:14	1
JK06022	RINSE	P	.000	11/06/0722:35	1
JK06023	CCV50-30	P	88.9%*	11/06/0722:56	1
JK06024	J396-03	P	2.23	11/06/0723:17	1
JK06025	RINSE	P	.000	11/06/0723:38	1
JK06026	J396-03R	P	2.42	11/06/0723:59	1
JK06027	RINSE	P	.000	11/07/0700:20	1
JK06028	J396-01D	P	51	11/07/0700:41	5
JK06029	J396-01M	P	95	11/07/0701:02	5
JK06030	J955-04	*	.000	11/07/0701:23	5
JK06031	K042-03R	P	6.13	11/07/0701:44	1
JK06032	J344-08	*	1990E	11/07/0702:05	50
JK06033	J344-07	*	10400E	11/07/0702:26	200
JK06034	CCV51-15	P	89.8%*	11/07/0702:47	1
JK06035	J344-07D	*	10400E	11/07/0703:08	200
JK06036	J344-07M	*	12100E	11/07/0703:29	200
JK06037	J344-09	*	1090E	11/07/0703:50	20
JK06038	J344-12	*	802E	11/07/0704:11	20
JK06039	J345-06	*	763E	11/07/0704:32	20
JK06040	J345-07	P	486	11/07/0704:53	20
JK06041	J345-08	P	588	11/07/0705:15	20
JK06042	J345-09	P	412	11/07/0705:36	20
JK06043	J345-10	P	409	11/07/0705:57	20
JK06044	J345-15	P	254	11/07/0706:18	20
JK06045	CCV52-30	P	87.6%*	11/07/0706:39	1
JK06046	J345-16	P	69.4	11/07/0707:00	10
JK06047	J345-17	P	255	11/07/0707:21	20
JK06048	J345-18	P	265	11/07/0707:42	20
JK06049	J345-19	P	583	11/07/0708:03	20
JK06050	J345-20	*	766E	11/07/0708:24	20
JK06051	J345-20D	*	768E	11/07/0708:45	20
JK06052	J345-20M	*	965E	11/07/0709:06	20
JK06053	J346-01	*	1510E	11/07/0709:27	50
JK06054	CCV53-15	P	89.8%*	11/07/0709:48	1
JK06055	IPCS	P	84.7%	11/07/0712:06	1
JK06056	PCK004SB	P	.000	11/07/0712:27	1
JK06057	MRL	P	112%	11/07/0712:48	1
JK06058	PCK004SL	P	22	11/07/0713:09	1
JK06059	PCK004SC	P	21.7	11/07/0713:30	1
JK06060	J346-03	P	1.39	11/07/0713:51	1
JK06061	J346-04	P	.000	11/07/0714:12	1
JK06062	J346-05	P	.000	11/07/0714:33	1
JK06063	J346-06	P	.000	11/07/0714:54	1
JK06064	J346-07	P	.000	11/07/0715:15	1
JK06065	RINSE	P	1.22	11/07/0715:36	1
JK06066	CCV54-30	P	86.5%*	11/07/0715:57	1
JK06067	J346-08	P	.000	11/07/0716:18	1
JK06068	J346-09	P	.000	11/07/0716:39	1
JK06069	J346-10	P	.000	11/07/0717:00	1
JK06070	J346-11	P	1.55	11/07/0717:22	1
JK06071	J346-12	*	63.8E	11/07/0717:43	1
JK06072	J346-13	*	.000	11/07/0718:11	1
JK06073	J385-03	*	.000	11/07/0718:47	1
JK06074	J385-04	*	.000	11/07/0719:09	1

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK08001	NO	P	.000	11/08/0712:29	1
JK08002	IPCS	P	82%	11/08/0713:06	1
JK08003	TEST	P	12	11/08/0713:43	1
JK08004	MRL	P	104%	11/08/0714:04	1
JK08005	PCK006SL	P	23.3	11/08/0714:25	1
JK08006	PCK006SC	P	23.5	11/08/0714:46	1
JK08007	PCK006SB	P	.000	11/08/0715:09	1
JK08008	J955-05	P	.000	11/08/0715:30	1
JK08009	J955-06	P	.000	11/08/0715:54	1
JK08010	J955-07	P	2.38	11/08/0716:15	1
JK08011	NO	P	2.38	11/08/0716:15	1
JK08012	J955-09	P	.000	11/08/0716:57	1
JK08013	RINSE	P	1.63	11/08/0717:18	1
JK08014	CCV60-30	P	91%	11/08/0717:39	1
JK08015	J955-08	P	.000	11/08/0718:00	1
JK08016	J955-08D	P	.000	11/08/0718:21	1
JK08017	J955-08M	P	10.2	11/08/0718:42	1
JK08018	J955-10	*	49.7E	11/08/0719:03	1
JK08019	J955-11	*	50.6E	11/08/0719:24	1
JK08020	J955-12	*	55.9E	11/08/0719:45	1
JK08021	NO	*	55.9E	11/08/0719:45	1
JK08022	J955-14	*	61E	11/08/0720:41	1
JK08023	J955-15	P	27.2	11/08/0721:02	1
JK08024	J955-13	*	62.7E	11/08/0721:23	1
JK08025	CCV61-15	P	94.5%	11/08/0721:44	1
JK08026	J955-16	P	3.17	11/08/0722:05	1
JK08027	J955-17	*	36.8E	11/08/0722:26	1
JK08028	J955-18	*	30.5E	11/08/0722:47	1
JK08029	J955-19	P	4.85	11/08/0723:08	1
JK08030	J955-20	*	63.2E	11/08/0723:29	1
JK08031	J955-21	P	6.19	11/08/0723:50	1
JK08032	J955-22	P	.000	11/09/0700:11	1
JK08033	K017-03	P	3270	11/09/0700:32	200
JK08034	J955-04	*	281000E	11/09/0700:53	5000
JK08035	J955-04	P	278000	11/09/0701:14	10000
JK08036	CCV62-30	P	.000%*	11/09/0701:35	1
JK08037	IPCS	P	82.4%	11/09/0709:39	1
JK08038	MRL	P	109%	11/09/0710:04	1
JK08039	J955-10	P	288	11/09/0710:25	20
JK08040	J955-11	*	2320E	11/09/0710:46	50
JK08041	J955-12	*	774E	11/09/0711:07	20
JK08042	J955-13	P	126	11/09/0711:28	10
JK08043	J955-14	P	100	11/09/0711:49	5
JK08044	J955-17	P	36.9	11/09/0712:10	2
JK08045	J955-18	P	30.7	11/09/0712:31	2
JK08046	J955-20	P	134	11/09/0712:52	10
JK08047	J955-11	P	2300	11/09/0713:13	100
JK08048	CCV63-15	P	89.4%*	11/09/0713:34	1
JK08049	J955-12	P	756	11/09/0713:55	100
JK08050	PCK007WL	P	21.9	11/09/0715:46	1
JK08051	PCK007WC	P	21.9	11/09/0716:07	1
JK08052	PCK007WB	P	.000	11/09/0716:28	1
JK08053	CCV64-30	P	88.4%*	11/09/0716:49	1

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * No OH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JI07

Method File: IC57107

Analytical Batch: N/A

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	-988
CCV	N/A
CCV-15	N/A
CCV-30	N/A
LCS	N/A
MS	N/A
IPC	N/A
CMC	N/A
MRL	N/A

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
N/A	(±) 30	N/A

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: Sd

Date: 9/7/2007

8020

Method: Ic57i07.met Batch: Ji07.seq Data: Ji06.010 - [Batch: ji07.seq]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IB	ic57i07.met	JI07.001	1	
2	S-0.0	ic57i07.met	JI07.002	1	
3	S-2.0	ic57i07.met	JI07.003	1	
4	S-4.0	ic57i07.met	JI07.004	1	
5	S-10.0	ic57i07.met	JI07.005	1	
6	S-25.0	ic57i07.met	JI07.006	1	
7	S-30.0	ic57i07.met	JI07.007	1	
8	ICV	ic57i07.met	JI07.008	1	
9	ICB	ic57i07.met	JI07.009	1	
10	B	ic57i07.met	JI07.010	1	
11	B	ic57i07.met	JI07.011	1	
12	B	ic57i07.met	JI07.012	1	
13	B	ic57i07.met	JI07.013	1	
14	B	ic57i07.met	JI07.014	1	
15	B	ic57i07.met	JI07.015	1	
16	B	ic57i07.met	JI07.016	1	
17	B	ic57i07.met	JI07.017	1	
18	B	ic57i07.met	JI07.018	1	
19	B	ic57i07.met	JI07.019	1	
20	B	ic57i07.met	JI07.020	1	
21	B	ic57i07.met	JI07.021	1	
22	B	ic57i07.met	JI07.022	1	
23	B	ic57i07.met	JI07.023	1	
24	B	ic57i07.met	JI07.024	1	
25	B	ic57i07.met	JI07.025	1	

Instrument 1: T057

Friday, September 07, 2007

Start EZChrom Chromatography... Method: Ic57i07.met Method: Ic57i05.met Bat... 12:01 PM

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW84-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK06

Method File: IC57I07

Analytical Batch: PCK003W, PCK004WS & PCK005W
ak 11/06/07

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	↓ 988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1016 ~~1017~~ ak 11/06/07
LCS	1018
MS	999
IPC	1014
CMC	SW8B-02-~~957~~ 1027
MRL	SW8B-02-1015 ak 11/06/07

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
145.8 µS/cm	(±) 30	25°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: ak

Date: 11/06/07

Method: Ic57i07.met Batch: Jk06.seq Data: Jk02.054 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4820 µS/cm	ic57i07.met	JK06.001	1	
2	PCK003WB *BAH	ic57i07.met	JK06.002	1	
3	MRL	ic57i07.met	JK06.003	1	
4	PCK003WL *BAH	ic57i07.met	JK06.004	1	
5	PCK003WC	ic57i07.met	JK06.005	1	
6	J344-02 3.10 µS/cm	ic57i07.met	JK06.006	1	
7	J345-02 2.80 µS/cm	ic57i07.met	JK06.007	1	
8	K042-02 1158 µS/cm	ic57i07.met	JK06.008	1	Rec; not used.
9	K042-03 518	ic57i07.met	JK06.009	1	Rec.
10	J385-02 ok 11/06/07 3.60 µS/cm	ic57i07.met	JK06.010	1	
11	~~RINSE~~ K042-02 DF=5	ic57i07.met	JK06.011	5 1	ok 11/06/07
12	CCV49-15	ic57i07.met	JK06.012	1	
13	J955-02 2.05 µS/cm *BAH	ic57i07.met	JK06.013	1	
14	J955-03 2.70	ic57i07.met	JK06.014	1	
15	K033-02 ok 11/06/07 3.01 µS/cm	ic57i07.met	JK06.015	1	
16	K017-02 3.35 µS/cm	ic57i07.met	JK06.016	1	
17	K017-03 572	ic57i07.met	JK06.017	1	
18	J396-01 DF=5 358 µS/cm 4 DF1	ic57i07.met	JK06.018	5	
19	J396-02 355 µS/cm	ic57i07.met	JK06.019	1	
20	RINSE	ic57i07.met	JK06.020	1	
21	J396-02R *BAH	ic57i07.met	JK06.021	1	RE-ANALYSIS (FOR CONFIRMATION)
22	RINSE	ic57i07.met	JK06.022	1	
23	CCV50-30	ic57i07.met	JK06.023	1	
24	J396-03 335 µS/cm *BAH	ic57i07.met	JK06.024	1	
25	RINSE	ic57i07.met	JK06.025	1	

Instrument 1: T057

Tuesday, November 06, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | 12:42 PM

8023

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK08

Method File: IC57 I07

Analytical Batch: PCK0 06S & PCK007W

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-~~1016~~ 987 (ol 11/08/07)
ICV	988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1017
LCS	1018
MS	999
IPC	1014
CMC	SWP1-01-127
MRL	SW8B-02-1015

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
146.0 µS/cm	(±) 30	20°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: ol

Date: 11/08/07

8024

Method: Ic57i07.met Batch: Jk08.seq Data: Jk08.015 - [Batch: jk08.seq]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | STOP | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	NO DATA	ic57i07.met	JK08.001	1	
2	IPCS 4820 uS/cm	ic57i07.met	JK08.002	1	
3	TEST	ic57i07.met	JK08.003	1	
4	MRL	ic57i07.met	JK08.004	1	
5	PCK006SL *BAH	ic57i07.met	JK08.005	1	
6	PCK006SC	ic57i07.met	JK08.006	1	
7	PCK006SB	ic57i07.met	JK08.007	1	
8	J955-05 91.8 uS/cm	ic57i07.met	JK08.008	1	
9	J955-06 87.2	ic57i07.met	JK08.009	1	
10	J955-07 106.7	ic57i07.met	JK08.010	1	
11	NO DATA 204 uS/cm	ic57i07.met	JK08.011	1	
12	J955-09 167 uS 11/8/07	ic57i07.met	JK08.012	1	
13	RINSE	ic57i07.met	JK08.013	1	
14	CCV60-30	ic57i07.met	JK08.014	1	
15	J955-08 167.5 uS/cm *BAH	ic57i07.met	JK08.015	1	
16	J955-08D	ic57i07.met	JK08.016	1	
17	J955-08M	ic57i07.met	JK08.017	1	
18	J955-10 157.7 uS/cm	ic57i07.met	JK08.018	1	
19	J955-11 174.3	ic57i07.met	JK08.019	1	
20	J955-12 130.3	ic57i07.met	JK08.020	1	
21	J955-13 111.3	ic57i07.met	JK08.021	1	
22	J955-14 110.0	ic57i07.met	JK08.022	1	
23	J955-15 73.8	ic57i07.met	JK08.023	1	
24	RINSE	ic57i07.met	JK08.024	1	
25	CCV61-15	ic57i07.met	JK08.025	1	

Instrument 1 [T057] – Running J955-08 [Run 15]...

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | Exploring - Jk08 | Thursday, November 08, 2007 6:11 PM

8925

Method: Ic57i07.met Batch: Jk08.seq Data: Jk08.052 - [Batch: jk08.seq]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
25	CCV61-15	ic57i07.met	JK08.025	1	
26	J955-16 77.2 µS/cm	*BAH ic57i07.met	JK08.026	1	
27	J955-17 123.3	ic57i07.met	JK08.027	1	
28	J955-18 110.8	ic57i07.met	JK08.028	1	
29	J955-19 130.6	ic57i07.met	JK08.029	1	
30	J955-20 50.2	ic57i07.met	JK08.030	1	
31	J955-21 120.6	ic57i07.met	JK08.031	1	
32	J955-22 112.3	ic57i07.met	JK08.032	1	
33	K017-03 DF=200	ic57i07.met	JK08.033	200	
34	J955-04 DF=5000	ic57i07.met	JK08.034	5000	
35	J955-04 DF=10000	ic57i07.met	JK08.035	10000	
36	CCV62-30	ic57i07.met	JK08.036	1	
37	IPCS 4820 µS/cm	ic57i07.met	JK08.037	1	
38	MRL	ic57i07.met	JK08.038	1	
39	J955-10 DF=20	*BAH ic57i07.met	JK08.039	20	
40	J955-11 DF=50	ic57i07.met	JK08.040	50	
41	J955-12 DF=20	ic57i07.met	JK08.041	20	
42	J955-13 DF=10	ic57i07.met	JK08.042	10	
43	J955-14 DF=5	ic57i07.met	JK08.043	5	
44	J955-17 DF=2	ic57i07.met	JK08.044	2	
45	J955-18 DF=2	ic57i07.met	JK08.045	2	
46	J955-20 DF=10	ic57i07.met	JK08.046	10	
47	J955-11 DF=100	ic57i07.met	JK08.047	100	
48	CCV63-15	ic57i07.met	JK08.048	1	
49	J955-12 DF=100	ic57i07.met	JK08.049	50	

Instrument 1: T057

Start | EZChrom Chro... | Method: Ic5... | Method: Ic57i0... | Calculator | untitled - Paint

Friday, November 09, 2007 3:15 PM

8025

Method: Ic57i07.met Batch: Jk08.seq Data: Jk08.052 - [Batch: jk08.seq]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
49	J955-12 DF=100 *BA#	ic57i07.met	JK08.049	100	
50	PCK007WL	ic57i07.met	JK08.050	1	
51	PCK007WC	ic57i07.met	JK08.051	1	
52	PCK007WB	ic57i07.met	JK08.052	1	
53	CCV64-30	ic57i07.met	JK08.053	1	
54	IB	ic57i07.met	JK08.054	1	
55	IB	ic57i07.met	JK08.055	1	
56	IB	ic57i07.met	JK08.056	1	
57	IB	ic57i07.met	JK08.057	1	
58	IB	ic57i07.met	JK08.058	1	
59	IB	ic57i07.met	JK08.059	1	
60	IB	ic57i07.met	JK08.060	1	
61	IB	ic57i07.met	JK08.061	1	
62	IB	ic57i07.met	JK08.062	1	
63	IB	ic57i07.met	JK08.063	1	
64	IB	ic57i07.met	JK08.064	1	
65	IB	ic57i07.met	JK08.065	1	
66	IB	ic57i07.met	JK08.066	1	
67	IB	ic57i07.met	JK08.067	1	
68	IB	ic57i07.met	JK08.068	1	
69	IB	ic57i07.met	JK08.069	1	
70	IB	ic57i07.met	JK08.070	1	
71	IB	ic57i07.met	JK08.071	1	
72	IB	ic57i07.met	JK08.072	1	
73	IB	ic57i07.met	JK08.073	1	

Instrument 1: T057

Start | EZChrom Chromatog... | Method: Ic57i07... | Method: Ic57i07.met... | Calculator | untitled - Paint | 3:16 PM

8027

EXTRACTION LOG

SAMPLE PREPARATION LOG FOR ORGANIC ACID/PERCHLORATE

SOP ☑ EMAX-314.0 ☐ EMAX-300.0M Book # E0P-002

Matrix Soil Start Date 11/07/07 Time 14:30 End Date 11/07/07 Time 16:00

PREPARATION BATCH # PCK0065

Sample Prep ID	Lab Sample ID	Sample Amount (g)	Dilution Volume (ml)	Extract Volume (ml)	Notes
*01	PCK0065B	10.000g	100mL	100mL	
*02	L				
*03	C				
*04	07J955-05				
*05	-06				
*06	-07				
*07	-09				
*08	-08				
*09	-08D				
*10	-08M				
*11	-10				
*12	-11				
*13	-12				
*14	-13				
*15	-14				
*16	-15				
*17	-16				
*18	-17				
*19	-18				
*20	-19				
*21	-20				
*22	-21				
*23	-22				
*24					
*25					

11/07/07

Standards	ID	Amount Added (ml)
Acetate		
Butyrate		
Lactate		
Propionate		
Pyruvate		
Perchlorate LCS/MS	SWB-02-999	2.5mL/1.0mL

Reagent	Lot # / ID
H_2SO_4	
Nanopure	DI

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Br = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Og = Orange Rd = Red	Fn = Fine	Td = turbid	Vg= Vegetation
Yw = Yellow			

Comments:

Prepared By: MBA / cl

Standard Added By: cl

Checked By:

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

8929

TABLE OF CONTENTS

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07K017**

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1005
GC/MS-VOA	METHOD 5030B/8260B	2000 – 2029
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	METHOD 3010A/6010B METHOD 7470A	7000 – 7085 7086 – 7097
WET	METHOD 314.0	8000 – 8023
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 11-29-2007
EMAX Batch No.: 07K017

Attn: Michael Wilson

Tetra Tech, Inc.
348 W Hospitality Lane, Ste 100
San Bernardino CA 92408

Subject: Laboratory Report
Project: LMC Beaumont Site 2

Enclosed is the Laboratory report for samples received on 11/01/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
LTB-103107	K017-01	10/31/07	WATER	VOLATILE ORGANICS BY GC/MS
LEB1-103107	K017-02	10/31/07	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB4-66'	K017-03	10/31/07	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Acting Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

T.T. 0610

SHIP TO: EMax
1835 W. 205th St.
Torrance CA
90501
310-

07K017

DATE 10-31-07 PAGE 1 OF 1

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: David Bertolacci
TC #: 19892-03
SAMPLERS (Signatures): L. Marguelis

TURN-AROUND TIME: 10 Day Rush

OBSERVATIONS/COMMENTS: Please Email Results to David.Bertolacci@tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOC's & oxygenates (SW8260B)	Perchlorate (314.0)	Com 17 (6000/7000 Series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
1.	LTB-103107	10-31-07	700	X	~~X~~ cm	~~X~~ cm	un	W	G	2	HCl
2.	LEB1-103107	↓	900	X	X	X	un	W	P/G	5	See bottle
3.	SB4-66'	↓	916	X	X	X	un	W	P/G	5	↓
4.											
5.											
6.											
7.											
8.											
9.											
10.											

L. Marguelis 11-1-07

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 12
L. Marguelis	Linda Marguelis	TETRA TECH, INC.	11-1-07	630	
RECEIVED BY: Ali Bahromani	Ali Bah	COMPANY: Top Line	DATE: 11-01-07	TIME: 11:15	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: Ali Bahromani	Ali Bah	COMPANY: Top Line	DATE: 11.01.07	TIME: 16:15	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Carol Di Puglio	SIGNATURE: Carol Di Puglio	COMPANY: EMAX	DATE: 11/01/07	TIME: 1615	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

T. 32°C

1001

X:\GIS\ATT-MISC\COCR.CDR

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 07K017
☐ Client Delivery		Recepient ZDP
☑ Third Party	T.L.C.	Date 11/01/07
		Time 1615

COC Inspection

☑ Client Name ☑ Client PM/FC ☑ Sampler Name ☑ Sampling Date/Time/Location ☑ Sample ID ☑ Matrix
☑ Address ☑ Tel # / Fax # ☑ Courier Signature ☑ Analysis Required ☑ Preservative (if any) ☑ TAT

Safety Issues

☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ _____
Temperatures	☑ Cooler 1 3.2 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code

REVIEWS

Sample Labeling ZDP
Date 11/01/07

SRF
Date 11/01/07

PM Quinlin for Ye
Date 11/02/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	_____
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	_____
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1	_____		
C3	Leaking container	H2	_____		
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

Pick-up + Delivery: 310-235-2190
Fax: 310-235-2197
New Accounts: 310-235-2190

top line courier

Date	Nov.01.07
Ref. No.	
Invoice No.	30035
Order No. 1	
Order No. 2	

Serving Southern California

CHARGE TO:	ADDRESS:	ACCOUNT NO.

PICK-UP FROM: Terror Tech	DELIVER TO NO. 1: E Max
ADDRESS: 348 Hospitality Lane #100	ADDRESS: 1835 205th Street
CITY: San Bernardino, Ca 92408	CITY: Torrance, Ca — Zip: 90501
SENDER'S NAME: — EXT. NO./DEPT.	RECEIVER'S NAME: — TEL. NO. /DEPT.
	DELIVER TO NO. 2: 07K017
	ADDRESS: 11/01/07
	CITY: — ZIP:
	RECEIVER'S NAME: — TEL. NO. /DEPT.

30 MIN.: (30 MIN.)	SUPER RUSH: (1 HOUR)	RUSH (2 HOURS)	REGULAR: (4 HOURS)	
RETURN:	WAIT TIME:	NEXT DAY:	8:30	10:00 / 12:00
FILING:	DEPT.:	WINDOW:		
DRIVER # 300	SERVING:	RECORDING:	BANK DEPOSIT:	

NO. PKG.	DESCRIPTION AND SPECIAL INSTRUCTIONS
1	0kgs 30LB

SIGNATURE ON RETURN X	DEL. TIME	print name	RELEASE SIGNATURE: *Sign to authorize delivery without obtaining signature*
SIGNATURE ON DELIVERY X Carol Di Puglio	DEL. TIME 1615	print name	By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

1003

Pick-up + Delivery: 310-235-2190
Fax: 310-235-2197
New Accounts: 310-235-2190

top line courier

Date	Nov. 01. 07
Ref. No.	
Invoice No.	30035
Order No. 1	
Order No. 2	

Serving Southern California

CHARGE TO:	ADDRESS:	ACCOUNT NO.

PICK-UP FROM: Terror Tech	DELIVER TO NO. 1: E Max
ADDRESS: 348 Hospitality Lane #100	ADDRESS: 1835 205th Street
CITY: San Bernardino, Ca 92408	CITY: Torrance, Ca Zip: 90501
SENDER'S NAME: EXT. NO./DEPT.	RECEIVER'S NAME: TEL. NO. /DEPT.

30 MIN.: (30 MIN.) ☐	SUPER RUSH: (1 HOUR) ☐	RUSH (2 HOURS) ☐	REGULAR: (4 HOURS) ☐	DELIVER TO NO. 2: 07K017
RETURN: ☐	WAIT TIME: ☐	NEXT DAY: ☐ 8:30 ☐ 10:00 ☐ 12:00		ADDRESS: 11/01/07
FILING: ☐	DEPT.: ☐	WINDOW: ☐		CITY: ZIP:
DRIVER # 300	SERVING: ☐	RECORDING: ☐	BANK DEPOSIT: ☐	RECEIVER'S NAME: TEL. NO. /DEPT.

NO. PKG.	DESCRIPTION AND SPECIAL INSTRUCTIONS
4	Pkgs 30LB

SIGNATURE ON RETURN X	DEL. TIME		RELEASE SIGNATURE: *Sign to authorize delivery without obtaining signature*
SIGNATURE ON DELIVERY X Carol M Pugliese	DEL. TIME 1615		By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

C

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07K017

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07K017

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Three (3) water samples were received on 11/01/07 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd edition.

1. Holding Time

Analytical holding time was met.

2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

Recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

6. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07K017
Instrument ID : T-001

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V001K24Q	1	NA	11/08/0714:57	11/08/0714:57	RKV245	RIV148	V001K24	Method Blank
LCS1W	V001K24L	1	NA	11/08/0713:02	11/08/0713:02	RKV242	RIV148	V001K24	Lab Control Sample (LCS)
LCD1W	V001K24C	1	NA	11/08/0713:40	11/08/0713:40	RKV243	RIV148	V001K24	LCS Duplicate
LTB-103107	K017-01	1	NA	11/08/0720:49	11/08/0720:49	RKV254	RIV148	V001K24	Field Sample
LEB1-103107	K017-02	1	NA	11/08/0721:28	11/08/0721:28	RKV255	RIV148	V001K24	Field Sample
SB4-66'	K017-03	1	NA	11/08/0722:05	11/08/0722:05	RKV256	RIV148	V001K24	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/31/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/01/07
Batch No.	: 07K017	Date Extracted:	11/08/07 20:49
Sample ID:	LTB-103107	Date Analyzed:	11/08/07 20:49
Lab Samp ID:	K017-01	Dilution Factor:	1
Lab File ID:	RKV254	Matrix	: WATER
Ext Btch ID:	VO01K24	% Moisture	: NA
Calib. Ref.:	RIV148	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	70-140
4-BROMOFLUOROBENZENE	107	70-130
TOLUENE-D8	95	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/31/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/01/07
Batch No.	: 07K017	Date Extracted:	11/08/07 21:28
Sample ID:	LEB1-103107	Date Analyzed:	11/08/07 21:28
Lab Samp ID:	K017-02	Dilution Factor:	1
Lab File ID:	RKV255	Matrix :	WATER
Ext Btch ID:	V001K24	% Moisture :	NA
Calib. Ref.:	RIV148	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	5.5J	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	70-140
4-BROMOFLUOROBENZENE	107	70-130
TOLUENE-D8	93	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	10/31/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/01/07
Batch No.	: 07K017	Date Extracted:	11/08/07 22:05
Sample ID:	SB4-66'	Date Analyzed:	11/08/07 22:05
Lab Samp ID:	K017-03	Dilution Factor:	1
Lab File ID:	RKV256	Matrix :	WATER
Ext Btch ID:	VO01K24	% Moisture :	NA
Calib. Ref.:	RIV148	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	6.3	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	9.7J	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	7.6	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	70-140
4-BROMOFLUOROBENZENE	106	70-130
TOLUENE-D8	94	70-140

QC SUMMARIES

2007

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/08/07
Batch No.	: 07K017	Date Extracted:	11/08/07 14:57
Sample ID:	MBLK1W	Date Analyzed:	11/08/07 14:57
Lab Samp ID:	V001K24Q	Dilution Factor:	1
Lab File ID:	RKV245	Matrix :	WATER
Ext Btch ID:	V001K24	% Moisture :	NA
Calib. Ref.:	RIV148	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	70-140
4-BROMOFLUOROBENZENE	104	70-130
TOLUENE-D8	91	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K017
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V001K24Q	V001K24L	V001K24C		
LAB FILE ID:	RKV245	RKV242	RKV243		
DATE EXTRACTED:	11/08/0714:57	11/08/0713:02	11/08/0713:40	DATE COLLECTED:	NA
DATE ANALYZED:	11/08/0714:57	11/08/0713:02	11/08/0713:40	DATE RECEIVED:	11/08/07
PREP. BATCH:	V001K24	V001K24	V001K24		
CALIB. REF:	RIV148	RIV148	RIV148		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	8.61	86	10.0	8.31	83	4	60-130	30
Benzene	ND	10.0	8.23	82	10.0	8.28	83	1	70-130	30
Chlorobenzene	ND	10.0	9.39	94	10.0	9.14	91	3	70-120	30
Toluene	ND	10.0	8.34	83	10.0	8.29	83	1	70-130	30
Trichloroethene	ND	10.0	8.95	89	10.0	8.97	90	0	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	9.94	99	70-140
4-Bromofluorobenzene	10.0	10.2	102	10.0	10.4	104	70-130
Toluene-d8	10.0	9.23	92	10.0	9.68	97	70-130

INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RIV142
Instrument ID: T-001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07K017
BFB Injection Date : 09/24/07
BFB Injection Time : 15:29
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.71
75	30.0 - 60.0% of mass 95	42.56
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.64
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	86.34
175	5.0 - 9.0% of mass 174	5.99(6.9)1
176	95.0 - 101.0% of mass 174	82.52(95.6)1
177	5.0 - 9.0% of mass 176	5.38(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V0011241	RIV143	09/24/07	16:08
2	VSTD0.5	V0011242	RIV144	09/24/07	16:45
3	VSTD01	V0011243	RIV145	09/24/07	17:24
4	VSTD02	V0011244	RIV146	09/24/07	18:03
5	VSTD05	V0011245	RIV147	09/24/07	18:40
6	VSTD010	V0011246	RIV148	09/24/07	19:18
7	VSTD020	V0011247	RIV149	09/24/07	19:56
8	VSTD030	V0011248	RIV150	09/24/07	20:33
9	VSTD040	V0011249	RIV151	09/24/07	21:12
10	VSTD050	V00112410	RIV152	09/24/07	21:50
11	VSTD010	IV00112401	RIV155	09/24/07	23:44

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T001
Beginning DateTime :09/24/07 16:08
Spike Units :PPB
IC File :RIV148

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :09/24/07 21:50
HPChem Method :V001124

M	IDX	Parameters	.3 16:08 RIV143	.5 16:45 RIV144	1 17:24 RIV145	2 18:03 RIV146	5 18:40 RIV147	10 19:18 RIV148	20 19:56 RIV149	30 20:33 RIV150	40 21:12 RIV151	50 21:50 RIV152	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	11.5873
	2	Dichlorodifluoromethane	0.370	0.301	0.286	0.333	0.317	0.352	0.339	0.316	0.314	0.293	0.322	8.26	3.5041
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	0.377	0.340	0.323	0.362	0.352	0.391	0.381	0.362	0.364	0.353	0.361	5.53	3.9338
	5	Vinyl chloride	0.300	0.287	0.276	0.328	0.302	0.303	0.252	0.210	------	------	0.282	13.00	4.1273
	6	Bromomethane	------	0.116	0.126	0.119	0.150	0.203	0.255	0.277	0.299	0.307	0.206	38.96	4.8838
	7	Chloroethane	------	0.200	0.173	0.191	0.184	0.203	0.186	0.175	0.168	0.160	0.182	7.91	5.0243
	8	Dichlorofluoromethane	0.621	0.576	0.565	0.552	0.674	0.634	0.710	0.616	0.631	0.621	0.620	7.76	5.0833
	9	Trichlorofluoromethane	0.494	0.408	0.398	0.464	0.441	0.475	0.458	0.433	0.429	0.417	0.442	6.96	5.4654
	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
2	11	Acrolein	------	------	------	0.010	0.011	0.011	0.014	0.012	0.014	0.014	0.012	13.70	6.1658
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.252	0.237	0.275	0.245	0.252	0.221	0.300	0.226	0.276	0.276	0.256	9.84	6.1911
2	13	Acetone	------	------	------	------	0.032	0.024	0.029	0.024	0.027	0.028	0.027	10.96	6.2702
	14	1,1-Dichloroethene	0.437	0.360	0.386	0.365	0.444	0.357	0.475	0.409	0.414	0.422	0.407	9.74	6.5420
5	15	tert-Butyl alcohol	------	------	------	0.006	0.010	0.009	0.010	0.009	0.009	0.010	0.009	17.47	6.6288
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	18	Iodomethane	------	0.156	0.198	0.207	0.388	0.487	0.627	0.603	0.592	0.616	0.431	45.95	7.1325
	19	Methylene chloride	------	1.053	0.670	0.516	0.494	0.409	0.433	0.382	0.391	0.384	0.526	41.55	7.3555
	20	Carbon disulfide	0.752	0.656	0.703	0.728	0.950	0.863	1.027	0.923	0.938	0.936	0.848	15.03	7.4491
3	21	Acrylonitrile	------	------	0.025	0.031	0.037	0.035	0.038	0.037	0.035	0.035	0.034	12.43	7.5317
	22	tert-Butyl methyl ether (MTBE)	0.231	0.243	0.252	0.257	0.313	0.274	0.324	0.293	0.307	0.304	0.280	11.68	7.6067
	23	trans-1,2-Dichloroethene	0.443	0.392	0.388	0.382	0.465	0.407	0.479	0.411	0.428	0.437	0.423	7.76	7.8654
	24	Isopropyl ether (DIPE)	0.727	0.737	0.784	0.759	0.914	0.795	0.919	0.803	0.842	0.845	0.812	8.27	8.3561
	25	Vinyl acetate	------	0.069	0.063	0.074	0.090	0.087	0.113	0.104	0.111	0.113	0.092	21.50	8.5153
	26	1,1-Dichloroethane	0.544	0.541	0.555	0.532	0.621	0.562	0.655	0.565	0.580	0.588	0.574	6.70	8.5792
	27	tert-Butyl ethyl ether (ETBE)	0.331	0.312	0.341	0.341	0.411	0.372	0.431	0.386	0.402	0.415	0.374	10.96	9.0401
2	28	2-Butanone	------	0.034	0.044	0.055	0.056	0.051	0.053	0.052	0.052	0.053	0.050	14.00	9.2407
	29	2,2-Dichloropropane	0.324	0.314	0.326	0.318	0.371	0.327	0.403	0.344	0.358	0.373	0.346	8.48	9.5085
	30	cis-1,2-Dichloroethene	0.441	0.432	0.446	0.432	0.512	0.456	0.541	0.469	0.475	0.483	0.469	7.61	9.5903
	31	Chloroform	0.598	0.596	0.617	0.583	0.677	0.587	0.679	0.599	0.627	0.641	0.620	5.70	9.8446
	32	Bromochloromethane	0.187	0.185	0.200	0.200	0.238	0.212	0.239	0.211	0.214	0.220	0.211	8.79	10.1271
	33	Tetrahydrofuran	------	------	0.024	0.027	0.032	0.029	0.032	0.030	0.032	0.033	0.030	10.74	10.1990
	34	1,1,1-Trichloroethane	0.399	0.389	0.406	0.377	0.446	0.395	0.465	0.410	0.436	0.445	0.417	7.01	10.5122
	35	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	tert-Amyl methyl ether (TAME)	0.254	0.267	0.295	0.297	0.356	0.312	0.372	0.328	0.343	0.357	0.318	12.53	10.9271
	37	1,2-Dichloroethane-d4	------	------	------	0.208	0.205	0.136	0.192	0.179	0.186	0.186	0.184	12.96	10.9900
	38	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	16.8810
	39	1,1-Dichloropropene	0.160	0.142	0.153	0.135	0.173	0.152	0.181	0.158	0.163	0.165	0.158	8.70	10.7606
	40	Carbon tetrachloride	0.400	0.372	0.393	0.355	0.441	0.385	0.455	0.396	0.406	0.417	0.402	7.49	10.9479
	41	1,2-Dichloroethane	0.212	0.220	0.222	0.206	0.252	0.215	0.249	0.223	0.226	0.224	0.225	6.65	11.1428
	42	Benzene	1.480	1.467	1.490	1.309	1.592	1.359	1.603	1.409	1.443	1.447	1.460	6.26	11.2022
	43	Trichloroethene	0.458	0.411	0.423	0.384	0.478	0.410	0.490	0.423	0.436	0.440	0.435	7.43	12.1732
	44	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	45	1,2-Dichloropropane	0.306	0.317	0.337	0.308	0.377	0.333	0.378	0.328	0.337	0.341	0.336	7.44	12.4394
	46	Bromodichloromethane	0.406	0.405	0.428	0.400	0.496	0.427	0.499	0.446	0.467	0.463	0.444	8.23	12.8334
	47	Dibromomethane	0.177	0.177	0.186	0.182	0.221	0.190	0.218	0.194	0.195	0.193	0.193	7.98	12.9390
	48	4-Methyl-2-pentanone	0.158	0.129	0.141	0.161	0.176	0.160	0.159	0.157	0.153	0.152	0.154	8.07	13.3093
	49	2-Chloroethyl vinyl ether	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	50	cis-1,3-Dichloropropene	0.363	0.354	0.398	0.393	0.491	0.435	0.507	0.455	0.471	0.470	0.434	12.44	13.6959
	51	Toluene-d8	------	------	------	1.178	1.253	0.836	1.205	1.105	1.145	1.175	1.128	12.12	14.1509
	52	Toluene	1.533	1.400	1.473	1.349	1.642	1.441	1.682	1.452	1.555	1.484	1.501	6.92	14.2907
	53	Ethyl methacrylate	------	0.169	0.196	0.198	0.258	0.227	0.265	0.237	0.249	0.243	0.227	14.21	14.4418
	54	trans-1,3-Dichloropropene	0.224	0.232	0.255	0.249	0.325	0.289	0.334	0.307	0.318	0.320	0.285	14.62	14.5286
	55	1,1,2-Trichloroethane	0.198	0.193	0.200	0.184	0.228	0.198	0.227	0.205	0.216	0.216	0.207	7.05	14.8319
2	56	2-Hexanone	------	------	0.076	0.094	0.116	0.111	0.112	0.111	0.110	0.109	0.105	12.86	14.7734
	57	1,3-Dichloropropane	0.322	0.337	0.356	0.334	0.414	0.361	0.412	0.366	0.381	0.383	0.367	8.52	15.2647
	58	Tetrachloroethene	0.379	0.344	0.366	0.321	0.389	0.341	0.414	0.361	0.383	0.394	0.369	7.69	15.4639

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59	Dibromochloromethane	0.299	0.284	0.303	0.290	0.369	0.320	0.370	0.331	0.344	0.345	0.325	9.69	15.8134
60	1,2-Dibromoethane	0.197	0.191	0.212	0.199	0.246	0.218	0.252	0.227	0.238	0.236	0.222	9.73	16.1866
61	1-Chlorohexane	1.578	1.571	1.668	1.474	1.869	1.653	1.998	1.806	1.769	1.606	1.699	9.37	16.3665
62	Chlorobenzene	1.003	0.872	0.900	0.809	1.001	0.878	1.032	0.915	0.942	0.962	0.931	7.48	16.9554
63	1,1,1,2-Tetrachloroethane	0.313	0.322	0.333	0.303	0.380	0.332	0.391	0.347	0.359	0.356	0.344	8.23	17.0044
64	Ethylbenzene	1.865	1.704	1.735	1.521	1.922	1.683	2.019	1.789	1.807	1.646	1.769	8.13	17.0059
2 65	m-Xylene & p-Xylene	1.356	1.246	1.273	1.131	1.408	1.254	1.475	1.265	------	------	1.301	8.27	17.1497
66	o-Xylene	1.246	1.197	1.243	1.125	1.409	1.240	1.479	1.298	1.366	1.356	1.296	8.22	18.0022
67	Styrene	0.823	0.788	0.839	0.774	0.994	0.890	1.069	0.958	1.004	1.022	0.916	11.64	18.0557
68	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	22.5345
69	Isopropylbenzene	3.752	3.509	3.674	3.412	3.941	3.359	4.062	3.337	3.594	------	3.627	7.05	18.6716
70	Bromoform	0.348	0.346	0.363	0.369	0.426	0.362	0.432	0.376	0.408	0.407	0.384	8.27	18.7888
71	1,1,2,2-Tetrachloroethane	0.658	0.658	0.695	0.681	0.762	0.629	0.731	0.628	0.674	0.667	0.678	6.22	18.9955
72	4-Bromofluorobenzene	------	------	------	0.990	0.997	0.652	0.953	0.831	0.892	0.905	0.888	13.46	19.2045
73	1,2,3-Trichloropropane	0.287	0.319	0.315	0.305	0.327	0.262	0.298	0.257	0.267	0.256	0.289	9.42	19.2944
74	trans-1,4-Dichloro-2-butene	------	------	0.055	0.057	0.082	0.072	0.090	0.078	0.084	0.083	0.075	17.05	19.3737
75	n-Propylbenzene	5.664	5.087	5.372	4.873	5.652	4.896	5.827	4.886	4.616	------	5.208	8.30	19.4795
76	Bromobenzene	1.019	0.895	0.932	0.867	1.013	0.867	1.029	0.880	0.950	0.974	0.943	6.79	19.6587
77	1,3,5-Trimethylbenzene	2.755	2.628	2.792	2.508	2.940	2.587	3.105	2.581	2.737	2.806	2.744	6.60	19.7910
78	2-Chlorotoluene	2.992	2.650	2.696	2.457	2.973	2.546	2.903	2.345	2.661	2.783	2.701	8.00	19.9040
79	4-Chlorotoluene	2.819	2.360	2.530	2.285	2.451	2.152	2.605	2.341	2.349	2.376	2.427	7.68	19.9844
80	tert-Butylbenzene	2.731	2.491	2.634	2.382	2.873	2.462	2.958	2.435	2.642	2.695	2.631	7.26	20.5375
81	1,2,4-Trimethylbenzene	2.908	2.618	2.766	2.506	2.909	2.533	3.063	2.563	2.752	2.793	2.741	6.74	20.6282
82	sec-Butylbenzene	4.448	3.992	4.285	3.859	4.520	3.959	4.900	4.123	4.223	------	4.257	7.69	20.9896
83	p-Isopropyltoluene	3.183	3.008	3.202	2.892	3.543	3.043	3.761	3.163	3.376	3.231	3.240	8.01	21.2572
84	1,3-Dichlorobenzene	2.167	1.831	1.942	1.727	2.057	1.762	2.126	1.831	1.924	1.976	1.934	7.74	21.5501
85	1,4-Dichlorobenzene	2.025	1.728	1.831	1.647	1.900	1.699	2.039	1.741	1.865	1.887	1.836	7.25	21.7643
86	n-Butylbenzene	3.489	3.190	3.474	3.103	3.822	3.390	4.168	3.580	3.732	------	3.550	9.21	22.1379
87	1,2-Dichlorobenzene	1.812	1.583	1.601	1.482	1.708	1.506	1.757	1.536	1.614	1.626	1.623	6.64	22.5955
88	1,2-Dibromo-3-chloropropane	------	------	0.076	0.074	0.094	0.087	0.103	0.094	0.097	0.095	0.090	11.25	24.2901
89	1,2,4-Trichlorobenzene	0.785	0.701	0.733	0.655	0.829	0.727	0.899	0.831	0.799	0.819	0.778	9.36	26.3219
90	Hexachlorobutadiene	0.653	0.589	0.635	0.540	0.662	0.564	0.735	0.644	0.617	0.621	0.626	8.74	26.6178
91	Naphthalene	1.050	0.796	0.806	0.845	1.124	0.999	1.218	1.159	1.105	1.137	1.024	15.21	26.9479
92	1,2,3-Trichlorobenzene	0.593	0.519	0.557	0.523	0.679	0.581	0.699	0.656	0.625	0.645	0.608	10.41	27.5189

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.7 Max_%RSD : 45.9

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
15	tert-Butyl alcohol	-0.00254	0.00969	0.9979
18	Iodomethane	-0.04050	0.60728	0.9966
19	Methylene chloride	0.03258	0.38347	0.9990
25	Vinyl acetate	-0.00419	0.11001	0.9977
74	trans-1,4-Dichloro-2-butene	-0.00357	0.08358	0.9984
91	Naphthalene	-0.01557	1.13681	0.9986

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
6	Bromomethane	-0.00787	0.19785	0.02395	0.9987

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SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I24\RIV155.D
Acq On : 24 Sep 2007 11:44 pm
Sample : IVO01I2401
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA
MS Integration Params: 524TAIL.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	10.000	10.011	-0.1	100	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	0	0.00
4	P,T	Chloromethane	10.000	10.145	-1.4	102	0.00
5	C,T	Vinyl chloride	10.000	10.431	-4.3	106	0.00
6	T	Bromomethane	10.000	10.499	-5.0	122	0.00
7	T	Chloroethane	10.000	10.298	-3.0	101	0.00
8	T	Dichlorofluoromethane	10.000	9.799	2.0	105	0.00
9	T	Trichlorofluoromethane	10.000	10.346	-3.5	105	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
11	T	Acrolein	20.000	15.370	23.2#	92	-0.02
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.238	7.6	117	0.01
13	T	Acetone	20.000	16.316	18.4	103	0.01
14	C,T	1,1-Dichloroethene	10.000	10.136	-1.4	126	0.00
15	T	tert-Butyl alcohol	50.000	49.477	1.0	114	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
18	T	Iodomethane	10.000	7.654	23.5#	95	0.00
19	T	Methylene chloride	10.000	8.998	10.0	101	0.00
20	T	Carbon disulfide	10.000	10.098	-1.0	108	0.00
21	T	Acrylonitrile	30.000	28.943	3.5	103	0.00
22	T	tert-Butyl methyl ether (MT	10.000	10.175	-1.8	114	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.954	0.5	113	0.00
24	T	Isopropyl ether (DIPE)	10.000	10.320	-3.2	115	0.00
25	T	Vinyl acetate	10.000	8.204	18.0	108	0.00
26	P,T	1,1-Dichloroethane	10.000	9.921	0.8	111	0.00
27	T	tert-Butyl ethyl ether (ETB	10.000	9.896	1.0	109	0.00
28	T	2-Butanone	20.000	18.782	6.1	101	0.00
29	T	2,2-Dichloropropane	10.000	9.732	2.7	113	0.00
30	T	cis-1,2-Dichloroethene	10.000	9.958	0.4	112	0.00
31	C,T	Chloroform	10.000	9.867	1.3	114	0.00
32	T	Bromochloromethane	10.000	10.022	-0.2	109	0.00
33	T	Tetrahydrofuran	10.000	9.292	7.1	107	0.00
34	T	1,1,1-Trichloroethane	10.000	9.830	1.7	113	0.00
35	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
36	T	tert-Amyl methyl ether (TAM	10.000	9.892	1.1	110	0.00
37	S	1,2-Dichloroethane-d4	10.000	11.078	-10.8	165	0.00
38	I	CHLOROBENZENE-D5	10.000	10.000	0.0	109	0.00
39	T	1,1-Dichloropropene	10.000	9.841	1.6	112	0.00
40	T	Carbon tetrachloride	10.000	9.951	0.5	113	0.00

(#) = Out of Range

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2015

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I24\RIV155.D Vial: 15
Acq On : 24 Sep 2007 11:44 pm Operator: DN
Sample : IVO01I2401 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	10.000	9.761	2.4	111	0.00
42	T	Benzene	10.000	9.922	0.8	116	0.00
43	T	Trichloroethene	10.000	9.949	0.5	115	0.00
44	T	Methylcyclohexane	-1.000	0.000	0.0	114	-0.02
45	C,T	1,2-Dichloropropane	10.000	10.004	-0.0	110	0.00
46	T	Bromodichloromethane	10.000	10.123	-1.2	115	0.00
47	T	Dibromomethane	10.000	10.216	-2.2	113	0.00
48	T	4-Methyl-2-pentanone	20.000	20.139	-0.7	106	0.00
49	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	0.00
50	T	cis-1,3-Dichloropropene	10.000	10.400	-4.0	113	0.00
51	S	Toluene-d8	10.000	11.683	-16.8	172	0.00
52	C,T	Toluene	10.000	10.098	-1.0	115	0.00
53	T	Ethyl methacrylate	10.000	10.025	-0.3	109	-0.02
54	T	trans-1,3-Dichloropropene	10.000	10.326	-3.3	111	0.00
55	T	1,1,2-Trichloroethane	10.000	10.178	-1.8	116	-0.02
56	T	2-Hexanone	20.000	19.517	2.4	100	-0.02
57	T	1,3-Dichloropropane	10.000	9.968	0.3	110	-0.02
58	T	Tetrachloroethene	10.000	10.234	-2.3	121	0.00
59	T	Dibromochloromethane	10.000	10.229	-2.3	114	-0.02
60	T	1,2-Dibromoethane	10.000	10.168	-1.7	113	-0.02
61	T	1-Chlorohexane	10.000	10.610	-6.1	119	0.00
62	P	Chlorobenzene	10.000	9.960	0.4	115	0.00
63	T	1,1,1,2-Tetrachloroethane	10.000	10.138	-1.4	115	-0.02
64	C,T	Ethylbenzene	10.000	10.217	-2.2	117	0.00
65	T	m-Xylene & p-Xylene	20.000	20.670	-3.4	117	0.00
66	T	o-Xylene	10.000	10.219	-2.2	117	-0.02
67	T	Styrene	10.000	10.336	-3.4	116	0.00
68	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	106	-0.02
69	T	Isopropylbenzene	10.000	9.981	0.2	114	0.00
70	P,T	Bromoform	10.000	10.051	-0.5	113	-0.02
71	P,T	1,1,2,2-Tetrachloroethane	10.000	9.639	3.6	110	-0.02
72	S	4-Bromofluorobenzene	10.000	11.622	-16.2	168	-0.02
73	T	1,2,3-Trichloropropane	10.000	9.775	2.2	114	-0.02
74	T	trans-1,4-Dichloro-2-butene	10.000	9.700	3.0	113	0.00
75	T	n-Propylbenzene	10.000	10.227	-2.3	115	0.00
76	T	Bromobenzene	10.000	10.030	-0.3	115	0.00
77	T	1,3,5-Trimethylbenzene	10.000	10.250	-2.5	115	0.00
78	T	2-Chlorotoluene	10.000	9.666	3.3	108	-0.02
79	T	4-Chlorotoluene	10.000	10.379	-3.8	124	0.00
80	T	tert-Butylbenzene	10.000	9.865	1.3	111	0.00

(#) = Out of Range

CV 9/26/07

2016

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I24\RIV155.D Vial: 15
Acq On : 24 Sep 2007 11:44 pm Operator: DN
Sample : IVO01I2401 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	10.000	10.072	-0.7	115	0.00
82	T	sec-Butylbenzene	10.000	10.186	-1.9	116	-0.02
83	T	p-Isopropyltoluene	10.000	10.362	-3.6	117	-0.02
84	T	1,3-Dichlorobenzene	10.000	9.893	1.1	115	0.00
85	T	1,4-Dichlorobenzene	10.000	9.836	1.6	112	0.00
86	T	n-Butylbenzene	10.000	10.258	-2.6	114	0.00
87	T	1,2-Dichlorobenzene	10.000	9.794	2.1	112	-0.02
88	T	1,2-Dibromo-3-chloropropane	10.000	9.531	4.7	105	0.00
89	T	1,2,4-Trichlorobenzene	10.000	9.963	0.4	113	0.00
90	T	Hexachlorobutadiene	10.000	9.879	1.2	116	0.00
91	T	Naphthalene	10.000	9.048	9.5	107	0.00
92	T	1,2,3-Trichlorobenzene	10.000	10.030	-0.3	111	-0.02

ar 9/26/07 2017

DAILY CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKV239
Instrument ID: T-001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07K017
BFB Injection Date : 11/08/07
BFB Injection Time : 11:08
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.80
75	30.0 - 60.0% of mass 95	43.80
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.61
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	96.73
175	5.0 - 9.0% of mass 174	6.84(7.1)1
176	95.0 - 101.0% of mass 174	93.16(96.3)1
177	5.0 - 9.0% of mass 176	6.25(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSID010	CV001I24150	RKV240	11/08/07	11:45
2	MBLK1W	V001K24Q	RKV245	11/08/07	14:57
3	LCS1W	V001K24L	RKV242	11/08/07	13:02
4	LCD1W	V001K24C	RKV243	11/08/07	13:40
5	LTB-103107	K017-01	RKV254	11/08/07	20:49
6	LEB1-103107	K017-02	RKV255	11/08/07	21:28
7	SB4-66'	K017-03	RKV256	11/08/07	22:05

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RIV148
Instrument ID: T-001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07K017
Date Analyzed: 09/24/07
Time Analyzed: 19:18
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2727732	11.58	2605411	16.87	1194715	22.54
	UPPER LIMIT	5455464	12.08	5210822	17.37	2389430	23.04
	LOWER LIMIT	1363866	11.08	1302706	16.37	597358	22.04
	SAMPLE ID						
1	VSTD010	3042052	11.58	2961870	16.87	1327099	22.52
2	MBLK1W	2924424	11.58	2848398	16.87	1184669	22.52
3	LCS1W	3088753	11.58	3062855	16.87	1329738	22.52
4	LCD1W	3253044	11.58	3131378	16.87	1374544	22.52
5	LTB-103107	2982553	11.58	2842019	16.88	1081841	22.53
6	LEB1-103107	3005284	11.58	2918471	16.87	1157005	22.52
7	SB4-66'	3044235	11.58	2924797	16.87	1184154	22.52

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K08\RKV240.D Vial: 2
Acq On : 8 Nov 2007 11:45 am Operator: DN
Sample : CVO01I24150 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	112	0.00
2	T	Dichlorodifluoromethane	10.000	7.880	21.2#	80	0.03
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	0	0.00
4	P,T	Chloromethane	10.000	7.064	29.4#	73	0.01
5	C,T	Vinyl chloride	10.000	8.782	12.2	91	0.03
6	T	Bromomethane	10.000	8.300	17.0	95	0.01
7	T	Chloroethane	10.000	7.796	22.0#	78	0.03
8	T	Dichlorofluoromethane	10.000	9.151	8.5	100	0.01
9	T	Trichlorofluoromethane	10.000	7.545	24.6#	78	-0.03
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
11	T	Acrolein	20.000	10.745	HT 46.3#	66	-0.02
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	7.346	26.5#	95	0.00
13	T	Acetone	20.000	17.318	13.4	111	-0.02
14	C,T	1,1-Dichloroethene	10.000	8.314	16.9	106	-0.02
15	T	tert-Butyl alcohol	50.000	37.383	25.2#	86	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
18	T	Iodomethane	10.000	9.939	0.6	129	-0.02
19	T	Methylene chloride	10.000	7.381	26.2#	86	-0.02
20	T	Carbon disulfide	10.000	7.239	27.6#	79	-0.02
21	T	Acrylonitrile	30.000	24.045	19.8	87	-0.03
22	T	tert-Butyl methyl ether (MT	10.000	9.560	4.4	109	0.00
23	T	trans-1,2-Dichloroethene	10.000	8.194	18.1	95	-0.02
24	T	Isopropyl ether (DIPE)	10.000	8.895	11.1	101	-0.02
25	T	Vinyl acetate	10.000	9.889	1.1	134	0.00
26	P,T	1,1-Dichloroethane	10.000	8.726	12.7	99	-0.02
27	T	tert-Butyl ethyl ether (ETB	10.000	11.581	-15.8	130	0.00
28	T	2-Butanone	20.000	15.813	20.9#	87	0.00
29	T	2,2-Dichloropropane	10.000	10.071	-0.7	119	0.00
30	T	cis-1,2-Dichloroethene	10.000	8.957	10.4	103	-0.02
31	C,T	Chloroform	10.000	8.455	15.4	100	0.00
32	T	Bromochloromethane	10.000	9.404	6.0	104	0.00
33	T	Tetrahydrofuran	10.000	7.834	21.7#	92	0.00
34	T	1,1,1-Trichloroethane	10.000	8.968	10.3	105	0.00
35	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
36	T	tert-Amyl methyl ether (TAM	10.000	11.573	-15.7	132	-0.02
37	S	1,2-Dichloroethane-d4	10.000	9.913	0.9	150	0.00
38	I	CHLOROBENZENE-D5	10.000	10.000	0.0	114	0.00
39	T	1,1-Dichloropropene	10.000	8.285	17.1	98	0.00
40	T	Carbon tetrachloride	10.000	9.562	4.4	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K08\RKV240.D Vial: 2
Acq On : 8 Nov 2007 11:45 am Operator: DN
Sample : CV001I24150 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	10.000	8.988	10.1	107	0.00
42	T	Benzene	10.000	8.091	19.1	99	0.00
43	T	Trichloroethene	10.000	8.897	11.0	107	0.00
44	T	Methylcyclohexane	-1.000	0.000	0.0	118	0.00
45	C,T	1,2-Dichloropropane	10.000	9.182	8.2	105	-0.02
46	T	Bromodichloromethane	10.000	8.810	11.9	104	0.00
47	T	Dibromomethane	10.000	8.062	19.4	93	0.00
48	T	4-Methyl-2-pentanone	20.000	18.516	7.4	102	-0.02
49	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	-0.02
50	T	cis-1,3-Dichloropropene	10.000	9.041	9.6	102	0.00
51	S	Toluene-d8	10.000	9.406	5.9	144	0.00
52	C,T	Toluene	10.000	8.260	17.4	98	0.00
53	T	Ethyl methacrylate	10.000	8.769	12.3	99	-0.02
54	T	trans-1,3-Dichloropropene	10.000	9.483	5.2	106	0.00
55	T	1,1,2-Trichloroethane	10.000	8.424	15.8	100	-0.02
56	T	2-Hexanone	20.000	16.697	16.5	89	-0.02
57	T	1,3-Dichloropropane	10.000	8.776	12.2	101	-0.02
58	T	Tetrachloroethene	10.000	8.476	15.2	104	0.00
59	T	Dibromochloromethane	10.000	9.804	2.0	113	-0.02
60	T	1,2-Dibromoethane	10.000	8.905	11.0	103	-0.02
61	T	1-Chlorohexane	10.000	8.487	15.1	99	-0.02
62	P	Chlorobenzene	10.000	9.174	8.3	111	0.00
63	T	1,1,1,2-Tetrachloroethane	10.000	9.771	2.3	115	-0.02
64	C,T	Ethylbenzene	10.000	8.594	14.1	103	-0.02
65	T	m-Xylene & p-Xylene	20.000	17.298	13.5	102	0.00
66	T	o-Xylene	10.000	8.989	10.1	107	-0.02
67	T	Styrene	10.000	9.386	6.1	110	0.00
68	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	111	-0.02
69	T	Isopropylbenzene	10.000	9.809	1.9	118	-0.02
70	P,T	Bromoform	10.000	9.462	5.4	111	-0.02
71	P,T	1,1,2,2-Tetrachloroethane	10.000	8.617	13.8	103	-0.02
72	S	4-Bromofluorobenzene	10.000	10.467	-4.7	158	-0.02
73	T	1,2,3-Trichloropropane	10.000	8.565	14.4	105	-0.02
74	T	trans-1,4-Dichloro-2-butene	10.000	10.388	-3.9	128	0.00
75	T	n-Propylbenzene	10.000	9.503	5.0	112	0.00
76	T	Bromobenzene	10.000	9.125	8.8	110	0.00
77	T	1,3,5-Trimethylbenzene	10.000	9.964	0.4	117	0.00
78	T	2-Chlorotoluene	10.000	8.915	10.9	105	-0.02
79	T	4-Chlorotoluene	10.000	9.565	4.4	120	0.00
80	T	tert-Butylbenzene	10.000	10.311	-3.1	122	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K08\RKV240.D Vial: 2
Acq On : 8 Nov 2007 11:45 am Operator: DN
Sample : CVO01I24150 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	10.000	9.947	0.5	120	0.00
82	T	sec-Butylbenzene	10.000	10.178	-1.8	122	-0.02
83	T	p-Isopropyltoluene	10.000	10.874	-8.7	129	-0.02
84	T	1,3-Dichlorobenzene	10.000	9.663	3.4	118	0.00
85	T	1,4-Dichlorobenzene	10.000	9.630	3.7	116	-0.02
86	T	n-Butylbenzene	10.000	10.192	-1.9	119	-0.02
87	T	1,2-Dichlorobenzene	10.000	9.463	5.4	113	-0.02
88	T	1,2-Dibromo-3-chloropropane	10.000	8.852	11.5	102	-0.02
89	T	1,2,4-Trichlorobenzene	10.000	11.089	-10.9	132	0.00
90	T	Hexachlorobutadiene	10.000	11.764	-17.6	145	0.00
91	T	Naphthalene	10.000	9.583	4.2	119	0.00
92	T	1,2,3-Trichlorobenzene	10.000	11.103	-11.0	129	-0.02

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K08\RKV240.D Vial: 2
Acq On : 8 Nov 2007 11:45 am Operator: DN
Sample : CVO01I24150 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	112	0.00
2	T	Dichlorodifluoromethane	0.322	0.254	21.1#	80	0.03
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	0#	0.00
4	P,T	Chloromethane	0.361	0.255	29.4#	73	0.01
5	C,T	Vinyl chloride	0.282	0.248	12.1	91	0.03
6	T	Bromomethane	0.206	0.173	16.0	95	0.01
7	T	Chloroethane	0.182	0.142	22.0#	78	0.03
8	T	Dichlorofluoromethane	0.620	0.567	8.5	100	0.01
9	T	Trichlorofluoromethane	0.442	0.333	24.7#	78	-0.03
10	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
11	T	Acrolein	0.012	0.007	41.7#	66	-0.02
12	T	1,1,2-Trichloro-1,2,2-trifl	0.256	0.188	26.6#	95	0.00
13	T	Acetone	0.027	0.024	11.1	111	-0.02
14	C,T	1,1-Dichloroethene	0.407	0.338	17.0	106	-0.02
15	T	tert-Butyl alcohol	0.009	0.007	22.2#	86	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
18	T	Iodomethane	0.431	0.563	-30.6#	129	-0.02
19	T	Methylene chloride	0.526	0.316	39.9#	86	-0.02
20	T	Carbon disulfide	0.848	0.613	27.7#	79	-0.02
21	T	Acrylonitrile	0.034	0.027	20.6#	87	-0.03
22	T	tert-Butyl methyl ether (MT	0.280	0.268	4.3	109	0.00
23	T	trans-1,2-Dichloroethene	0.423	0.347	18.0	95	-0.02
24	T	Isopropyl ether (DIPE)	0.812	0.723	11.0	101	-0.02
25	T	Vinyl acetate	0.092	0.105	-14.1	134	0.00
26	P,T	1,1-Dichloroethane	0.574	0.501	12.7	99	-0.02
27	T	tert-Butyl ethyl ether (ETB	0.374	0.433	-15.8	130	0.00
28	T	2-Butanone	0.050	0.040	20.0#	87	0.00
29	T	2,2-Dichloropropane	0.346	0.348	-0.6	119	0.00
30	T	cis-1,2-Dichloroethene	0.469	0.420	10.4	103	-0.02
31	C,T	Chloroform	0.620	0.525	15.3	100	0.00
32	T	Bromochloromethane	0.211	0.198	6.2	104	0.00
33	T	Tetrahydrofuran	0.030	0.023	23.3#	92	0.00
34	T	1,1,1-Trichloroethane	0.417	0.374	10.3	105	0.00
35	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
36	T	tert-Amyl methyl ether (TAM	0.318	0.368	-15.7	132	-0.02
37	S	1,2-Dichloroethane-d4	0.184	0.183	0.5	150	0.00
38	I	CHLOROBENZENE-D5	1.000	1.000	0.0	114	0.00
39	T	1,1-Dichloropropene	0.158	0.131	17.1	98	0.00
40	T	Carbon tetrachloride	0.402	0.384	4.5	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K08\RKV240.D Vial: 2
Acq On : 8 Nov 2007 11:45 am Operator: DN
Sample : CV001I24150 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	0.225	0.202	10.2	107	0.00
42	T	Benzene	1.460	1.181	19.1	99	0.00
43	T	Trichloroethene	0.435	0.387	11.0	107	0.00
44	T	Methylcyclohexane	0.000	0.000	0.0	118	0.00
45	C,T	1,2-Dichloropropane	0.336	0.309	8.0	105	-0.02
46	T	Bromodichloromethane	0.444	0.391	11.9	104	0.00
47	T	Dibromomethane	0.193	0.156	19.2	93	0.00
48	T	4-Methyl-2-pentanone	0.154	0.143	7.1	102	-0.02
49	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	-0.02
50	T	cis-1,3-Dichloropropene	0.434	0.392	9.7	102	0.00
51	S	Toluene-d8	1.128	1.061	5.9	144	0.00
52	C,T	Toluene	1.501	1.240	17.4	98	0.00
53	T	Ethyl methacrylate	0.227	0.199	12.3	99	-0.02
54	T	trans-1,3-Dichloropropene	0.285	0.270	5.3	106	0.00
55	T	1,1,2-Trichloroethane	0.207	0.174	15.9	100	-0.02
56	T	2-Hexanone	0.105	0.087	17.1	89	-0.02
57	T	1,3-Dichloropropane	0.367	0.322	12.3	101	-0.02
58	T	Tetrachloroethene	0.369	0.313	15.2	104	0.00
59	T	Dibromochloromethane	0.325	0.319	1.8	113	-0.02
60	T	1,2-Dibromoethane	0.222	0.197	11.3	103	-0.02
61	T	1-Chlorohexane	1.699	1.442	15.1	99	-0.02
62	P	Chlorobenzene	0.931	0.854	8.3	111	0.00
63	T	1,1,1,2-Tetrachloroethane	0.344	0.336	2.3	115	-0.02
64	C,T	Ethylbenzene	1.769	1.521	14.0	103	-0.02
65	T	m-Xylene & p-Xylene	1.301	1.125	13.5	102	0.00
66	T	o-Xylene	1.296	1.165	10.1	107	-0.02
67	T	Styrene	0.916	0.860	6.1	110	0.00
68	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	111	-0.02
69	T	Isopropylbenzene	3.627	3.558	1.9	118	-0.02
70	P,T	Bromoform	0.384	0.363	5.5	111	-0.02
71	P,T	1,1,2,2-Tetrachloroethane	0.678	0.584	13.9	103	-0.02
72	S	4-Bromofluorobenzene	0.888	0.930	-4.7	158	-0.02
73	T	1,2,3-Trichloropropane	0.289	0.248	14.2	105	-0.02
74	T	trans-1,4-Dichloro-2-butene	0.075	0.083	-10.7	128	0.00
75	T	n-Propylbenzene	5.208	4.949	5.0	112	0.00
76	T	Bromobenzene	0.943	0.860	8.8	110	0.00
77	T	1,3,5-Trimethylbenzene	2.744	2.734	0.4	117	0.00
78	T	2-Chlorotoluene	2.701	2.408	10.8	105	-0.02
79	T	4-Chlorotoluene	2.427	2.321	4.4	120	0.00
80	T	tert-Butylbenzene	2.631	2.712	-3.1	122	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K08\RKV240.D Vial: 2
Acq On : 8 Nov 2007 11:45 am Operator: DN
Sample : CVO01I24150 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	2.741	2.727	0.5	120	0.00
82	T	sec-Butylbenzene	4.257	4.333	-1.8	122	-0.02
83	T	p-Isopropyltoluene	3.240	3.523	-8.7	129	-0.02
84	T	1,3-Dichlorobenzene	1.934	1.869	3.4	118	0.00
85	T	1,4-Dichlorobenzene	1.836	1.768	3.7	116	-0.02
86	T	n-Butylbenzene	3.550	3.618	-1.9	119	-0.02
87	T	1,2-Dichlorobenzene	1.623	1.535	5.4	113	-0.02
88	T	1,2-Dibromo-3-chloropropane	0.090	0.080	11.1	102	-0.02
89	T	1,2,4-Trichlorobenzene	0.778	0.863	-10.9	132	0.00
90	T	Hexachlorobutadiene	0.626	0.736	-17.6	145	0.00
91	T	Naphthalene	1.024	1.074	-4.9	119	0.00
92	T	1,2,3-Trichlorobenzene	0.608	0.675	-11.0	129	-0.02

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Book # A01 -025

Start Date: 9.24.07 ☐ 5-mL Purge ☑ 25-mL Purge

BATCH V001I24 6

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		RIV 141	BFB01 I15	2µl	NA	NA		2:51 pm
02		142	16 ✓					8260, Gas/Ket-A/TBA/ACN
03		143	V001I24 1 ✓	.03/.05 .15µl				.3/.5/1.5/.9 ppb
04		144	2 ✓	.05/.1 .25µl				.5/1/2.5/1.5
05		145	3 ✓	.1/.2/.5µl				1/2/5/3
06		146	4 ✓	.2/.4/1µl				2/4/10/6
07		147	5 ✓	.5/1/2.5µl				5/10/25/15
08		148	6 ✓	1/2/5µl				10/20/50/30
09		149	7 ✓	2/4/10µl				20/40/100/60
10		150	8 ✓	3/6/15µl				30/60/150/90
11		151	9 ✓	4/8/20µl				40/80/200/120
12		152	10 ✓	5/10/25µl				50/100/250/150ppb
13		153	IS/SS	25ml				
14		154	V001I15 B					
15		155	IV001I24 01 ✓	1/2/5µl				10/20/50/30 ppb
16		156	02					12:23pm
17								
18								
19								
20								
21								DN 9.25.07
22								
23								
24								
25								

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	9.24.07
ICAL ID	V001I24

STANDARDS

NAME	ID	CONC. (mg/L)
DCC 8260	SV1.13.1.2	50/250
DCC Ket-AA	.3.1	250
DCC Gas	.1.3	250
BFB	SV1C.11.87.3	50
IS/SURR. IS	SV1C-11.99.2	250
SS	.100.1	250
LCS 8260	SV1C-11.99.1	50/250
LCS Ket-AA	SV1.13.3.2	250
LCS Gas	.2.3	250

SOLVENT	ID
METHANOL	
DATA FILE	07I24

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: DN

Date Disposed: 9/25/07

Disposed By: DN

22028

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
VOLATILES

SOP ☒ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Book # A01 -025

Start Date: 11 8.07 ☐ 5-mL Purge ☑ 25-mL Purge

BATCH V001I24 IC

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKV 239	BFB01K24 ✓	2 µl				11:08 am
02	240	V001I24 IS0 ✓	1/1/5 µl				
03	241	151					
04	242	V001K24L ✓					
05	243	C ✓					
06	244	B	25 mL				
07	245	Q ✓					
08	246	07K021-05N ✓	25 mL	1	<2		
09	247	-08N ✓					
10	248	RINSE					
11	249	07K021-03T ✓	25 mL	10	<2		
12	250	-04N ✓	25 mL	1			
13	251	07K045-01 ✓					
14	252	-02					1X
15	253	-03 ✓					
16	254	07K017-01 ✓					
17	255	-02 ✓					
18	256	-03 ✓					10:05 pm
19							
20							
21					DN	11/9/07	
22							
23							
24							

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	9/24/07
ICAL ID	V001I24

STANDARDS

NAME	ID	CONC. (mg/L)
DCC	S/1.17.1.2	
DCC	.3.1	
DCC	.1.3	
BFB	S/1C.11.87.3	
IS/SURR.	S/1.17.5.1	50/200
LCS	S/1C.11.99.1	
LCS	S/1.17.13.2	
LCS	.2.3	

SOLVENT	ID
METHANOL	
DATA FILE	07K08

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: DN

Date Disposed: 11/9/07

Disposed By: DN

22029

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METALS / MERCURY

SDG#: 07K017

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07K017

METHOD 3010A/6010B
METALS BY ICP

Two (2) water samples were received on 11/01/07 for Metals analysis by Method 3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample J393-02 from another SDG was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
METALS BY ICP

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07K017
Instrument ID : T-ID8

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPK010WB	1	NA	11/14/0717:59	11/06/0713:10	ID8K012037	ID8K012035	IPK010W	Method Blank
LCS1W	IPK010WL	1	NA	11/14/0718:04	11/06/0713:10	ID8K012038	ID8K012035	IPK010W	Lab Control Sample (LCS)
LCD1W	IPK010WC	1	NA	11/14/0718:10	11/06/0713:10	ID8K012039	ID8K012035	IPK010W	LCS Duplicate
TF-35AS	J393-02A	1	NA	11/14/0718:15	11/06/0713:10	ID8K012040	ID8K012035	IPK010W	Analytical Spike Sample
TF-35	J393-02	1	NA	11/14/0718:20	11/06/0713:10	ID8K012041	ID8K012035	IPK010W	Field Sample
TF-35DL	J393-02J	5	NA	11/14/0718:26	11/06/0713:10	ID8K012042	ID8K012035	IPK010W	Diluted Sample
LEB1-103107	K017-02	1	NA	11/14/0719:16	11/06/0713:10	ID8K012051	ID8K012047	IPK010W	Field Sample
SB4-66'	K017-03	1	NA	11/14/0719:21	11/06/0713:10	ID8K012052	ID8K012047	IPK010W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/31/07 09:00
Project	: LMC BEAUMONT SITE 2	Date Received:	11/01/07
SDG NO.	: 07K017	Date Extracted:	11/06/07 13:10
Sample ID:	LEB1-103107	Date Analyzed:	11/14/07 19:16
Lab Samp ID:	K017-02	Dilution Factor:	1
Lab File ID:	ID8K012051	Matrix :	WATER
Ext Btch ID:	IPK010W	% Moisture :	NA
Calib. Ref.:	ID8K012047	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	10/31/07 09:16
Project	: LMC BEAUMONT SITE 2	Date Received:	11/01/07
SDG NO.	: 07K017	Date Extracted:	11/06/07 13:10
Sample ID:	SB4-66'	Date Analyzed:	11/14/07 19:21
Lab Samp ID:	K017-03	Dilution Factor:	1
Lab File ID:	ID8K012052	Matrix :	WATER
Ext Btch ID:	IPK010W	% Moisture :	NA
Calib. Ref.:	ID8K012047	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	0.0839	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	0.0268J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	0.0390	0.0100	0.00500
Zinc	0.0320	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/06/07
SDG NO.	: 07K017	Date Extracted:	11/06/07 13:10
Sample ID:	MBLK1W	Date Analyzed:	11/14/07 17:59
Lab Samp ID:	IPK010WB	Dilution Factor:	1
Lab File ID:	ID8K012037	Matrix :	WATER
Ext Btch ID:	IPK010W	% Moisture :	NA
Calib. Ref.:	ID8K012035	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K017
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPK010WB	IPK010WL	IPK010WC		
LAB FILE ID:	ID8K012037	ID8K012038	ID8K012039		
DATIME EXTRCTD:	11/06/0713:10	11/06/0713:10	11/06/0713:10	DATE COLLECTED:	NA
DATIME ANALYZD:	11/14/0717:59	11/14/0718:04	11/14/0718:10	DATE RECEIVED:	11/06/07
PREP. BATCH:	IPK010W	IPK010W	IPK010W		
CALIB. REF:	ID8K012035	ID8K012035	ID8K012035		

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	5.01	100	5	4.87	97	3	80-120	20
Arsenic	ND	1	.995	99	1	.97	97	3	80-120	20
Barium	ND	1	.961	96	1	.947	95	1	80-120	20
Beryllium	ND	1	1.03	103	1	.999	100	3	80-120	20
Cadmium	ND	1	1.03	103	1	1.01	101	2	80-120	20
Chromium	ND	1	.985	98	1	.942	94	4	80-120	20
Cobalt	ND	1	1.01	101	1	.99	99	2	80-120	20
Copper	ND	1	.987	99	1	.957	96	3	80-120	20
Lead	ND	1	1	100	1	.98	98	2	80-120	20
Molybdenum	ND	1	1.04	104	1	1.02	102	1	80-120	20
Nickel	ND	1	1.01	101	1	.985	99	2	80-120	20
Selenium	ND	1	.976	98	1	.943	94	3	80-120	20
Silver	ND	1	.975	97	1	.933	93	4	80-120	20
Thallium	ND	1	.962	96	1	.944	94	2	80-120	20
Vanadium	ND	1	1	100	1	.961	96	4	80-120	20
Zinc	ND	1	1.04	104	1	1.03	103	1	80-120	20

Revised Report

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K017
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	TF-35	TF-35DL		
EMAX SAMP ID:	J393-02	J393-02J		
LAB FILE ID:	ID8K012041	ID8K012042		
DATE EXTRACTED:	11/06/0713:10	11/06/0713:10	DATE COLLECTED:	10/30/07 11:25
DATE ANALYZED:	11/14/0718:20	11/14/0718:26	DATE RECEIVED:	10/31/07
PREP. BATCH:	IPK010W	IPK010W		
CALIB. REF:	ID8K012035	ID8K012035		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	0.157	0.142	10	10
Barium	0.239	0.235	2	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	ND	ND	0	10
Cobalt	ND	ND	0	10
Copper	ND	ND	0	10
Lead	ND	ND	0	10
Molybdenum	0.0595	0.0581J	NA	10
Nickel	ND	ND	0	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	ND	ND	0	10
Zinc	ND	ND	0	10

Revised Report

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K017
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	TF-35			
CONTROL NO.:	J393-02	J393-02A		
LAB FILE ID:	ID8K012041	ID8K012040		
DATIME EXTRCTD:	11/06/0713:10	11/06/0713:10	DATE COLLECTED:	10/30/07 11:25
DATIME ANALYZD:	11/14/0718:20	11/14/0718:15	DATE RECEIVED:	10/31/07
PREP. BATCH:	IPK010W	IPK010W		
CALIB. REF:	ID8K012035	ID8K012035		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
Antimony	ND	5	5.18	104	75-125
Arsenic	.157	1	1.2	105	75-125
Barium	.239	1	1.18	94	75-125
Beryllium	ND	1	.986	99	75-125
Cadmium	ND	1	1	100	75-125
Chromium	ND	1	.933	93	75-125
Cobalt	ND	1	.966	97	75-125
Copper	ND	1	.895	89	75-125
Lead	ND	1	.963	96	75-125
Molybdenum	.0595	1	1.06	100	75-125
Nickel	ND	1	.963	96	75-125
Selenium	ND	1	1.06	106	75-125
Silver	ND	1	.958	96	75-125
Thallium	ND	1	.897	90	75-125
Vanadium	ND	1	.959	96	75-125
Zinc	ND	1	1.03	103	75-125

Revised Report

TRACE-LOW ICP QC CHECK TABLE

QC	ICV HIGH	ICV	CCV	ICSAB	ICSA
Limit%	95-105	90-110	90-110	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg/L
Al	10	5	5	500	500
Sb	1	0.5	0.5	1	0
As	1	0.5	0.5	1	0
Ba	1	0.5	0.5	0.5	0
Be	1	0.5	0.5	0.5	0
B	1	0.5	0.5	0.5	0
Cd	1	0.5	0.5	1	0
Ca	100	50	50	500	500
Cr	1	0.5	0.5	0.5	0
Co	1	0.5	0.5	0.5	0
Cu	1	0.5	0.5	0.5	0
Fe	10	5	5	200	200
Pb	1	0.5	0.5	1	0
Li	1	0.5	0.5	0.5	0
Mg	100	50	50	500	500
Mn	1	0.5	0.5	0.5	0
Mo	1	0.5	0.5	1	0
Ni	1	0.5	0.5	1	0
K	100	50	50	75	0
Se	1	0.5	0.5	1	0
Si	1	0.5	0.5	1	0
Ag	1	0.5	0.5	1	0
Na	100	50	50	75	0
Sr	1	0.5	0.5	0.5	0
Tl	1	0.5	0.5	1	0
Sn	1	0.5	0.5	1	0
Ti	1	0.5	0.5	1	0
U	10	5	5	1	0
V	1	0.5	0.5	0.5	0
Zn	1	0.5	0.5	1	0

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/14/07 14:39

End Date: 11/15/07 02:43

Comments:

ICV B↑

IPK029SB ↑Se

K191-01A ↑Se

Book #: AD8-003

Instrument No.: D8

Analytical Batch: ID8K012

Analytical Sequence: S_60101C07 (V8)

Method File: 60101C07 (V8)

SOP #	Rev. #
☑ EMAX-6010	5
☑ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	SM1B11-01.03
S3	NA
S4	NA
S5	SM1B11-01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B10.93.05
CCV	10-93.04
ICSA	10.93.03
ICSAB	10.95.05
CRI/MRL	

Analyzed By: CJC

Date: 11/15/07

SEQUENCE FILE : ID8K012

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K012001	Blank	14:39	11/14/07	1.000
ID8K012002	S2	14:45	11/14/07	1.000
ID8K012003	S5	14:50	11/14/07	1.000
ID8K012004	S8	14:56	11/14/07	1.000
ID8K012005	ICV	15:01	11/14/07	1.000
ID8K012006	ICB	15:07	11/14/07	1.000
ID8K012007	CCV	15:12	11/14/07	1.000
ID8K012008	CCB	15:18	11/14/07	1.000
ID8K012009	ICSAI	15:23	11/14/07	1.000
ID8K012010	ICSABI	15:29	11/14/07	1.000
ID8K012011	CCV1	15:34	11/14/07	1.000
ID8K012012	CCB1	15:40	11/14/07	1.000
ID8K012013	J254-01	15:45	11/14/07	1.000
ID8K012014	J254-01D	15:51	11/14/07	1.000
ID8K012015	J254-01J	15:56	11/14/07	5.000
ID8K012016	J254-01	16:02	11/14/07	1.000
ID8K012017	IPK000WB	16:07	11/14/07	1.000
ID8K012018	IPK000WL	16:13	11/14/07	1.000
ID8K012019	IPK000WC	16:18	11/14/07	1.000
ID8K012020	BLANK	16:23	11/14/07	1.000
ID8K012021	ICSAF	16:29	11/14/07	1.000
ID8K012022	ICSABF	16:34	11/14/07	1.000
ID8K012023	CCV2	16:40	11/14/07	1.000
ID8K012024	CCB2	16:45	11/14/07	1.000
ID8K012025	G144-01	16:51	11/14/07	1.000
ID8K012026	G144-01D	16:56	11/14/07	1.000
ID8K012027	BLANK	17:02	11/14/07	1.000
ID8K012028	B	17:07	11/14/07	1.000
ID8K012029	Fe	17:13	11/14/07	1.000
ID8K012030	Mn	17:18	11/14/07	1.000
ID8K012031	V	17:24	11/14/07	1.000
ID8K012032	BLANK	17:29	11/14/07	1.000
ID8K012033	J254-01	17:37	11/14/07	1.000
ID8K012034	J254-01D	17:42	11/14/07	1.000
ID8K012035	CCV3	17:48	11/14/07	1.000
ID8K012036	CCB3	17:53	11/14/07	1.000
ID8K012037	IPK010WB	17:59	11/14/07	1.000
ID8K012038	IPK010WL	18:04	11/14/07	1.000
ID8K012039	IPK010WC	18:10	11/14/07	1.000
ID8K012040	J393-02A	18:15	11/14/07	1.000
ID8K012041	J393-02	18:20	11/14/07	1.000
ID8K012042	J393-02J	18:26	11/14/07	5.000
ID8K012043	J393-03	18:31	11/14/07	1.000
ID8K012044	J393-04	18:37	11/14/07	1.000
ID8K012045	K008-03	18:43	11/14/07	1.000
ID8K012046	BLANK	18:48	11/14/07	1.000
ID8K012047	CCV4	18:54	11/14/07	1.000
ID8K012048	CCB4	18:59	11/14/07	1.000
ID8K012049	K008-04	19:05	11/14/07	1.000
ID8K012050	J549-01	19:10	11/14/07	1.000
ID8K012051	K017-02	19:16	11/14/07	1.000
ID8K012052	K017-03	19:21	11/14/07	1.000
ID8K012053	J955-02	19:27	11/14/07	1.000
ID8K012054	J955-03	19:32	11/14/07	1.000
ID8K012055	J955-04	19:38	11/14/07	1.000

ID8K012056	BLANK	19:44	11/14/07	1.000
ID8K012057	ICSAF	19:49	11/14/07	1.000
ID8K012058	ICSABF	19:55	11/14/07	1.000
ID8K012059	CCV5	20:00	11/14/07	1.000
ID8K012060	CCB5	20:06	11/14/07	1.000
ID8K012061	IPJ066SB	20:11	11/14/07	1.000
ID8K012062	IPJ066SL	20:17	11/14/07	1.000
ID8K012063	IPJ066SC	20:22	11/14/07	1.000
ID8K012064	J346-02M	20:27	11/14/07	1.000
ID8K012065	J346-02S	20:33	11/14/07	1.000
ID8K012066	J346-02A	20:38	11/14/07	1.000
ID8K012067	J346-02	20:44	11/14/07	1.000
ID8K012068	J346-02J	20:49	11/14/07	5.000
ID8K012069	J346-01	20:55	11/14/07	1.000
ID8K012070	BLANK	21:00	11/14/07	1.000
ID8K012071	CCV6	21:06	11/14/07	1.000
ID8K012072	CCB6	21:11	11/14/07	1.000
ID8K012073	J346-03	21:17	11/14/07	1.000
ID8K012074	J346-04	21:22	11/14/07	1.000
ID8K012075	J346-05	21:28	11/14/07	1.000
ID8K012076	J346-06	21:33	11/14/07	1.000
ID8K012077	J346-07	21:39	11/14/07	1.000
ID8K012078	J346-08	21:44	11/14/07	1.000
ID8K012079	J346-09	21:50	11/14/07	1.000
ID8K012080	J346-10	21:56	11/14/07	1.000
ID8K012081	J346-11	22:01	11/14/07	1.000
ID8K012082	BLANK	22:06	11/14/07	1.000
ID8K012083	CCV7	22:12	11/14/07	1.000
ID8K012084	CCB7	22:17	11/14/07	1.000
ID8K012085	J346-12	22:23	11/14/07	1.000
ID8K012086	J346-13	22:28	11/14/07	1.000
ID8K012087	K044-03	22:34	11/14/07	1.000
ID8K012088	K044-16	22:40	11/14/07	1.000
ID8K012089	BLANK	22:45	11/14/07	1.000
ID8K012090	CCV8	22:51	11/14/07	1.000
ID8K012091	CCB8	22:56	11/14/07	1.000
ID8K012092	IPK029SB	23:02	11/14/07	1.000
ID8K012093	IPK029SL	23:07	11/14/07	1.000
ID8K012094	IPK029SC	23:13	11/14/07	1.000
ID8K012095	K191-01A	23:18	11/14/07	1.000
ID8K012096	K191-01	23:24	11/14/07	1.000
ID8K012097	K191-01J	23:29	11/14/07	5.000
ID8K012098	K191-02	23:35	11/14/07	1.000
ID8K012099	K191-03	23:40	11/14/07	1.000
ID8K012100	BLANK	23:46	11/14/07	1.000
ID8K012101	CCV9	23:52	11/14/07	1.000
ID8K012102	CCB9	23:57	11/14/07	1.000
ID8K012103	IPK025WB	00:02	11/15/07	1.000
ID8K012104	WTK001SB	00:08	11/15/07	1.000
ID8K012105	IPK025WL	00:14	11/15/07	1.000
ID8K012106	IPK025WC	00:19	11/15/07	1.000
ID8K012107	J951-01A	00:24	11/15/07	1.000
ID8K012108	J951-01	00:30	11/15/07	1.000
ID8K012109	J951-01J	00:35	11/15/07	5.000
ID8K012110	J951-02	00:41	11/15/07	1.000
ID8K012111	BLANK	00:46	11/15/07	1.000
ID8K012112	CCV10	00:52	11/15/07	1.000
ID8K012113	CCB10	00:57	11/15/07	1.000

ID8K012114	J331-01	01:03	11/15/07	10.000
ID8K012115	J347-04	01:09	11/15/07	10.000
ID8K012116	J347-06	01:14	11/15/07	20.000
ID8K012117	J347-11M	01:20	11/15/07	20.000
ID8K012118	J347-11S	01:25	11/15/07	20.000
ID8K012119	J347-11A	01:31	11/15/07	20.000
ID8K012120	J347-11	01:36	11/15/07	20.000
ID8K012121	J347-11J	01:42	11/15/07	100.000
ID8K012122	J347-07	01:47	11/15/07	20.000
ID8K012123	BLANK	01:53	11/15/07	1.000
ID8K012124	CCV11	01:59	11/15/07	1.000
ID8K012125	CCB11	02:04	11/15/07	1.000
ID8K012126	J347-08	02:10	11/15/07	20.000
ID8K012127	J347-09	02:15	11/15/07	20.000
ID8K012128	J347-10	02:21	11/15/07	20.000
ID8K012129	J347-12	02:26	11/15/07	20.000
ID8K012130	BLANK	02:32	11/15/07	1.000
ID8K012131	CCV12	02:37	11/15/07	1.000
ID8K012132	CCB12	02:43	11/15/07	1.000

SDG : _____ UNIT : % SUMMARY of ICV and CCV : IDBK012 DATE : 11/14/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	96	100	100	97	100	111*	100	100	99	99	94	102	99	98	97	101	99	98	99	101	98	94	102	102
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV	96	97	98	97	99	102	102	99	96	99	92	97	97	98	95	103	99	96	99	98	97	94	100	101
CCB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	90	----	----	----	----	----	----	94	----	----	----	93	----	100	----	----	----	----	----	----	----	----	----	----
ICSABI	91	104	104	105	100	99	104	94	98	100	95	94	95	100	94	107	99	109	103	111	108	91	102	102
CCV1	98	98	98	96	99	103	101	99	97	99	93	98	97	99	96	103	98	97	99	99	97	94	100	100
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	90	----	----	----	----	----	----	93	----	----	----	91	----	100	----	----	----	----	----	----	----	----	----	----
ICSABF	90	104	103	104	100	98	103	93	97	99	95	93	95	100	95	107	98	108	102	111	107	91	100	102
CCV2	100	100	100	97	100	105	103	100	99	100	95	101	98	101	97	105	100	98	100	101	98	95	102	102
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	98	99	99	96	100	105	102	99	98	100	96	100	98	100	96	105	100	97	100	99	98	95	100	106
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	104	101	99	96	100	107	102	98	98	99	99	101	98	100	95	105	99	98	100	101	98	96	99	101
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J549-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	93	----	----	----	----	----	----	93	----	----	----	94	----	102	----	----	----	----	----	----	----	----	----	----
ICSABF	93	105	103	103	100	99	103	91	95	98	99	94	95	100	93	107	98	108	103	109	106	92	97	104
CCV5	104	101	99	94	99	106	99	96	97	97	99	101	97	99	94	103	97	97	100	100	97	95	98	100
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	100	101	98	93	99	104	100	96	96	97	99	101	97	100	94	103	97	97	99	97	96	95	97	102
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	101	101	99	94	99	103	101	95	95	98	99	100	97	100	94	104	98	96	100	97	96	96	97	101
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	101	101	98	93	98	105	100	95	97	97	100	102	98	100	93	103	97	97	99	99	96	96	97	102
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	103	103	100	94	98	107	101	95	98	98	103	103	99	100	93	104	98	98	101	100	97	97	98	102
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	102	102	99	94	98	106	100	94	97	98	102	102	98	98	92	103	98	98	101	99	97	96	97	101
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	103	104	100	95	99	108	101	96	98	99	105	103	99	99	92	104	99	100	102	100	99	97	99	103
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	102	102	99	94	97	106	100	94	97	97	104	102	98	97	91	103	97	99	100	99	98	95	97	101
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : _____ UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K012 (WATER) DATE : 11/14/07 INST : EMAX1

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-4.57	.810	1.61	-.920	-.080	-.960	.030	-313	.270	-.030	-.350	2.18	-.240	-127	-1.19	.050	-.200	-49.8	-1.34	.420	-629	.450	.080	-1.12
CCV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB	-4.74	1.25	-.300	-.740	.080	-.650	.070	-297	.060	.120	-.270	1.49	-.080	-173	-1.67	.010	.230	-51.8	-.300	.230	-646	.950	.060	-1.19
ICSAI	----	1.72	-6.84	-1.55	-.260	-48.9	3.77	----	.370	.310	2.63	----	-17.7	----	-1.01	-2.05	-.090	5.96	4.36	.030	-507	-.650	.160	5.76
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.04	.530	1.53	-1.07	.050	-.870	.090	-297	.220	.040	-.300	4.50	-.190	-85.1	-1.40	.020	-.020	10.6	.250	.130	-634	.520	.080	-1.18
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	4.51	-9.65	-.580	-.340	-48.8	3.91	----	.430	.450	2.34	----	-18.1	----	-2.57	-1.97	-.340	-46.9	5.90	5.45	-527	-.990	.110	-5.93
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.26	2.34	-.390	-.160	-.080	-.480	.110	-293	.250	-.050	-.240	5.80	.430	-129	-2.26	.150	.110	-9.94	-1.82	.340	-635	.610	.160	-.980
G144-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-9.85	.730	-.330	-1.07	.320	.490	.060	-307	.220	-.040	-.160	-.020	-.610	-147	-2.29	.080	-.090	-57.0	-1.35	.280	-663	.590	.240	-.830
IPK010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-8.99	1.14	-.370	-.910	.010	.480	.040	-304	.110	-.020	.140	-1.59	-.040	-183	-1.76	.050	-.180	-28.1	-.840	.190	-543	.830	-.060	-.210
K008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J549-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

TOL 7

BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	2.84	-5.64	-2.14	-.040	-43.2	5.37	----	.180	.260	2.74	----	-17.7	----	-3.99	-1.98	-.050	71.2	6.64	-.340	-320	-.760	-.300	-6.09
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	2.95	.940	-.020	-.870	.210	-.640	.040	-308	-.020	.050	.010	1.62	.220	-192	-.780	.070	-.050	16.3	-.160	.270	-589	.810	-.030	-1.53
IPJ066SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-9.63	1.61	-1.76	-1.06	.120	-.400	.080	-288	.030	.040	-.040	-1.48	.170	-132	-.780	.110	.010	-67.2	-.550	.380	-651	1.000	-.120	-1.11
J346-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-9.64	1.26	-.310	-1.60	.180	-.660	.040	-305	.030	-.120	-.030	1.57	-.580	-140	-2.45	.070	-.130	-7.09	.050	.260	-678	.540	-.040	-.210
J346-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-2.14	1.26	.070	-1.48	.180	-.130	.030	-293	.150	.080	-.090	2.03	-.730	-125	-2.64	.110	-.030	-21.0	-.260	.150	-697	.270	.080	5.63
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-8.57	1.35	-.810	-1.31	.170	-.780	.100	-311	.130	-.110	.210	2.36	.000	-113	-1.62	-.040	-.230	-16.1	-.790	.300	-543	.770	-.010	-1.59
IPK025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-9.93	1.000	.060	-1.90	-.230	-.710	.030	-314	.080	.000	-.030	-.130	.230	-133	-.890	.130	.080	-9.35	.260	.000	-395	1.04	-.160	-1.84

J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-12.4	1.20	-.910	-1.03	-.130	1.10	.100	-317	.270	-.070	-.110	-1.25	.320	-176	-1.61	.090	.100	-28.0	-.730	.070	-492	.990	-.090	-1.79
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-11.8	.990	-.670	-.720	.300	.780	.050	-312	.160	-.070	.150	-2.27	-.160	-167	-1.86	.070	.230	-19.6	.680	.270	-551	.930	.050	-1.39

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : _____ UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K012 (SOIL) DATE : 11/14/07 INST : EMAX

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-4.57	.810	1.61	-.920	-.080	-.960	.030	-313	.270	-.030	-.350	2.18	-.240	-127	-1.19	.050	-.200	-49.8	-1.34	.420	-629	.450	.080	-1.12
CCV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB	-4.74	1.25	-.300	-.740	.080	-.650	.070	-297	.060	.120	-.270	1.49	-.080	-173	-1.67	.010	.230	-51.8	-.300	.230	-646	.950	.060	-1.19
ICSAI	----	1.72	-6.84	-1.55	-.260	-48.9	3.77	----	.370	.310	2.63	----	-17.7	----	-1.01	-2.05	-.090	5.96	4.36	.030	-507	-.650	.160	5.76
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	5.04	.530	1.53	-1.07	.050	-.870	.090	-297	.220	.040	-.300	4.50	-.190	-85.1	-1.40	.020	-.020	10.6	.250	.130	-634	.520	.080	-1.18
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK000WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	4.51	-9.65	-.580	-.340	-48.8	3.91	----	.430	.450	2.34	----	-18.1	----	-2.57	-1.97	-.340	-46.9	5.90	5.45	-527	-.990	.110	-5.93
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.26	2.34	-.390	-.160	-.080	-.480	.110	-293	.250	-.050	-.240	5.80	.430	-129	-2.26	.150	.110	-9.94	-1.82	.340	-635	.610	.160	-.980
G144-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
G144-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FE	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MN	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
V	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J254-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-9.85	.730	-.330	-1.07	.320	.490	.060	-307	.220	-.040	-.160	-.020	-.610	-147	-2.29	.080	-.090	-57.0	-1.35	.280	-663	.590	.240	-.830
IPK010WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK010WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J393-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K008-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-8.99	1.14	-.370	-.910	.010	.480	.040	-304	.110	-.020	.140	-1.59	-.040	-183	-1.76	.050	-.180	-28.1	-.840	.190	-543	.830	-.060	-.210
K008-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J549-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K017-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	----	2.84	-5.64	-2.14	-.040	-43.2	5.37	----	.180	.260	2.74	----	-17.7	----	-3.99	-1.98	-.050	71.2	6.64	-.340	-320	-.760	-.300	-6.09
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	2.95	.940	-.020	-.870	.210	-.640	.040	-308	-.020	.050	.010	1.62	.220	-192	-.780	.070	-.050	16.3	-.160	.270	-589	.810	-.030	-1.53
IPJ066SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPJ066SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-9.63	1.61	-1.76	-1.06	.120	-.400	.080	-288	.030	.040	-.040	-1.48	.170	-132	-.780	.110	.010	-67.2	-.550	.380	-651	1.000	-.120	-1.11
J346-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-9.64	1.26	-.310	-1.60	.180	-.660	.040	-305	.030	-.120	-.030	1.57	-.580	-140	-2.45	.070	-.130	-7.09	.050	.260	-678	.540	-.040	-.210
J346-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J346-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K044-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-2.14	1.26	.070	-1.48	.180	-.130	.030	-293	.150	.080	-.090	2.03	-.730	-125	-2.64	.110	-.030	-21.0	-.260	.150	-697	.270	.080	5.63
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K191-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-8.57	1.35	-.810	-1.31	.170	-.780	.100	-311	.130	-.110	.210	2.36	.000	-113	-1.62	-.040	-.230	-16.1	-.790	.300	-543	.770	-.010	-1.59
IPK025WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTK001SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK025WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J951-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-9.93	1.000	.060	-1.90	-.230	-.710	.030	-314	.080	.000	-.030	-.130	.230	-133	-.890	.130	.080	-9.35	.260	.000	-395	1.04	-.160	-1.84

J331-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-11J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-12.4	1.20	-.910	-1.03	-.130	1.10	.100	-317	.270	-.070	-.110	-1.25	.320	-176	-1.61	.090	.100	-28.0	-.730	.070	-492	.990	-.090	-1.79
J347-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J347-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-11.8	.990	-.670	-.720	.300	.780	.050	-312	.160	-.070	.150	-2.27	-.160	-167	-1.86	.070	.230	-19.6	.680	.270	-551	.930	.050	-1.39

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	QC	CCV4		ID8K012047			1	☒	CCV	Continue
48	44	QC	CCB4		ID8K012048			1	☒	CCB1	Continue
49	45	Unk	K008-04		ID8K012049			1	☐		Continue
50	46	Unk	J549-01		ID8K012050			1	☐		Continue
51	47	Unk	K017-02		ID8K012051			1	☐		Continue
52	48	Unk	K017-03		ID8K012052			1	☐		Continue
53	49	Unk	J955-02		ID8K012053			1	☐		Continue
54	50	Unk	J955-03		ID8K012054			1	☐		Continue
55	51	Unk	J955-04		ID8K012055			1	☐		Continue
56	52	Unk	BLANK		ID8K012056			1	☐		Continue
57	53	QC	ICSAF		ID8K012057			1	☒	ICSA	Continue
58	54	QC	ICSABF		ID8K012058			1	☒	ICSAB	Continue
59	55	QC	CCV5		ID8K012059			1	☒	CCV	Continue
60	56	QC	CCB5		ID8K012060			1	☒	CCB1	Continue
61	57	QC	IPJ066SB		ID8K012061			1	☒	CCB1	Continue
62	58	QC	IPJ066SL		ID8K012062			1	☒	LCS	Continue
63	59	QC	IPJ066SC		ID8K012063			1	☒	LCS	Continue
64	60	Unk	J346-02M		ID8K012064			1	☐		Continue
65	61	Unk	J346-02S		ID8K012065			1	☐		Continue
66	62	Unk	J346-02A		ID8K012066			1	☐		Continue
67	63	Unk	J346-02		ID8K012067			1	☐		Continue
68	64	Unk	J346-02J		ID8K012068			1	☐		Continue
69	65	Unk	J346-01		ID8K012069			1	☐		Continue
70	66	Unk	BLANK		ID8K012070			1	☐		Continue
71	67	QC	CCV6		ID8K012071			1	☒	CCV	Continue
72	68	QC	CCB6		ID8K012072			1	☒	CCB1	Continue
73	69	Unk	J346-03		ID8K012073			1	☐		Continue
74	70	Unk	J346-04		ID8K012074			1	☐		Continue
75	71	Unk	J346-05		ID8K012075			1	☐		Continue
76	72	Unk	J346-06		ID8K012076			1	☐		Continue
77	73	Unk	J346-07		ID8K012077			1	☐		Continue
78	74	Unk	J346-08		ID8K012078			1	☐		Continue
79	75	Unk	J346-09		ID8K012079			1	☐		Continue
80	76	Unk	J346-10		ID8K012080			1	☐		Continue
81	77	Unk	J346-11		ID8K012081			1	☐		Continue
82	78	Unk	BLANK		ID8K012082			1	☐		Continue
83	79	QC	CCV7		ID8K012083			1	☒	CCV	Continue
84	80	QC	CCB7		ID8K012084			1	☒	CCB1	Continue
85	81	Unk	J346-12		ID8K012085			1	☐		Continue
86	82	Unk	J346-13		ID8K012086			1	☐		Continue
87	83	Unk	K044-03	IPK015S	ID8K012087			1	☐		Continue
88	84	Unk	K044-16	↑3n	ID8K012088			1	☐		Continue
89	85	Unk	BLANK		ID8K012089			1	☐		Continue
90	86	QC	CCV8		ID8K012090			1	☒	CCV	Continue
91	87	QC	CCB8		ID8K012091			1	☒	CCB1	Continue
92	88	QC	IPK029SB	↑5c	ID8K012092			1	☒	CCB1	Continue

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	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	QC	IPK029SL		ID8K012093			1	☒	LCS	Continue
94	90	QC	IPK029SC		ID8K012094			1	☒	LCS	Continue
95	91	Unk	K191-01A	Je	ID8K012095			1	☐		Continue
96	92	Unk	K191-01		ID8K012096			1	☐		Continue
97	93	Unk	K191-01J		ID8K012097			1	☐		Continue
98	94	Unk	K191-02		ID8K012098			1	☐		Continue
99	95	Unk	K191-03		ID8K012099			1	☐		Continue
100	96	Unk	BLANK		ID8K012100			1	☐		Continue
101	97	QC	CCV9		ID8K012101			1	☒	CCV	Continue
102	98	QC	CCB9		ID8K012102			1	☒	CCB1	Continue
103	99	QC	IPK025WB		ID8K012103			1	☒	CCB1	Continue
104	100	QC	WTK001SB		ID8K012104			1	☒	CCB1	Continue
105	101	QC	IPK025WL		ID8K012105			1	☒	LCS	Continue
106	102	QC	IPK025WC		ID8K012106			1	☒	LCS	Continue
107	103	Unk	J951-01A		ID8K012107			1	☐		Continue
108	104	Unk	J951-01		ID8K012108			1	☐		Continue
109	105	Unk	J951-01J		ID8K012109			1	☐		Continue
110	106	Unk	J951-02		ID8K012110			1	☐		Continue
111	107	Unk	BLANK		ID8K012111			1	☐		Continue
112	108	QC	CCV10		ID8K012112			1	☒	CCV	Continue
113	109	QC	CCB10		ID8K012113			1	☒	CCB1	Continue
114	110	Unk	J331-01	10X, IPJ062W ↑Na	ID8K012114			1	☐		Continue
115	111	Unk	J347-04	10X	ID8K012115			1	☐		Continue
116	112	Unk	J347-06	20X	ID8K012116			1	☐		Continue
117	113	Unk	J347-11M	20X	ID8K012117			1	☐		Continue
118	114	Unk	J347-11S	20X	ID8K012118			1	☐		Continue
119	115	Unk	J347-11A	20X	ID8K012119			1	☐		Continue
120	116	Unk	J347-11	20X	ID8K012120			1	☐		Continue
121	117	Unk	J347-11J	100X	ID8K012121			1	☐		Continue
122	118	Unk	J347-07	20X	ID8K012122			1	☐		Continue
123	119	Unk	BLANK		ID8K012123			1	☐		Continue
124	120	QC	CCV11		ID8K012124			1	☒	CCV	Continue
125	121	QC	CCB11		ID8K012125			1	☒	CCB1	Continue
126	122	Unk	J347-08	20X	ID8K012126			1	☐		Continue
127	123	Unk	J347-09	20X	ID8K012127			1	☐		Continue
128	124	Unk	J347-10	20X	ID8K012128			1	☐		Continue
129	125	Unk	J347-12	20X	ID8K012129			1	☐		Continue
130	126	Unk	BLANK		ID8K012130			1	☐		Continue
131	127	QC	CCV12		ID8K012131			1	☒	CCV	Continue
132	128	QC	CCB12		ID8K012132			1	☒	CCB1	Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8K012001			1	☐		Continue
2	0	Unk	S2		ID8K012002			1	☐		Continue
3	0	Unk	S5		ID8K012003			1	☐		Continue
4	0	Unk	S8		ID8K012004			1	☐		Continue
5	1	QC	ICV	B failed	ID8K012005			1	☒	ICV	Continue
6	2	QC	ICB	↓Ca, ↓Mg, ↓Na	ID8K012006			1	☒	CCB1	Continue
7	3	QC	CCV		ID8K012007			1	☒	CCV	Continue
8	4	QC	CCB		ID8K012008			1	☒	CCB1	Continue
9	5	QC	ICSAI		ID8K012009			1	☒	ICSA	Continue
10	6	QC	ICSABI		ID8K012010			1	☒	ICSAB	Continue
11	7	QC	CCV1		ID8K012011			1	☒	CCV	Continue
12	8	QC	CCB1		ID8K012012			1	☒	CCB1	Continue
13	12	Unk	J254-01		ID8K012013			1	☐		Continue
14	13	Unk	J254-01D		ID8K012014			1	☐		Continue
15	14	Unk	J254-01J		ID8K012015			1	☐		Continue
16	15	Unk	J254-01	undigested	ID8K012016			1	☐		Continue
17	9	QC	IPK000WB		ID8K012017			1	☒	CCB1	Continue
18	10	QC	IPK000WL		ID8K012018			1	☒	LCS	Continue
19	11	QC	IPK000WC		ID8K012019			1	☒	LCS	Continue
20	16	Unk	BLANK		ID8K012020			1	☐		Continue
21	17	QC	ICSAF		ID8K012021			1	☒	ICSA	Continue
22	18	QC	ICSABF		ID8K012022			1	☒	ICSAB	Continue
23	19	QC	CCV2		ID8K012023			1	☒	CCV	Continue
24	20	QC	CCB2		ID8K012024			1	☒	CCB1	Continue
25	21	Unk	G144-01	undigested	ID8K012025			1	☐		Continue
26	22	Unk	G144-01D	undigested	ID8K012026			1	☐		Continue
27	23	Unk	BLANK		ID8K012027			1	☐		Continue
28	24	Unk	B	2.16ppm	ID8K012028			1	☐		Continue
29	25	Unk	Fe	1.6ppm	ID8K012029			1	☐		Continue
30	26	Unk	Mn	0.326ppm	ID8K012030			1	☐		Continue
31	27	Unk	V	0.560ppm	ID8K012031			1	☐		Continue
32	28	Unk	BLANK		ID8K012032			1	☐		Continue
33	29	QC	J254-01		ID8K012033			1	☒	CCV	Continue
34	30	QC	J254-01D		ID8K012034			1	☒	CCB1	Continue
35	31	QC	CCV3		ID8K012035			1	☒	CCV	Continue
36	32	QC	CCB3		ID8K012036			1	☒	CCB1	Continue
37	33	QC	IPK010WB		ID8K012037			1	☒	CCB1	Continue
38	34	QC	IPK010WL		ID8K012038			1	☒	LCS	Continue
39	35	QC	IPK010WC		ID8K012039			1	☒	LCS	Continue
40	36	Unk	J393-02A		ID8K012040			1	☐		Continue
41	37	Unk	J393-02		ID8K012041			1	☐		Continue
42	38	Unk	J393-02J		ID8K012042			1	☐		Continue
43	39	Unk	J393-03		ID8K012043			1	☐		Continue
44	40	Unk	J393-04		ID8K012044			1	☐		Continue
45	41	Unk	K008-03		ID8K012045			1	☐		Continue
46	42	Unk	BLANK		ID8K012046			1	☐		Continue

ID8K012 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00169	.00002	-.00002	.00198	.00004	.00010	-.00006	.00486	.00012	-.00022	Blank
2	S2				.91829	.72186	.09727	2.5440		.16897	.70987	S2
3	S5		.00771	.00489								S5
4	S8	.25757							1.5714			S8
5	ICV	4.8139	.50070	.49954	.48460	.50190	.55577*	.50045	50.029	.49687	.49657	ICV
6	ICB	-.00457	.00081	.00161	-.00092	-.00008	-.00096	.00003	-.31313*	.00027	-.00003	ICB
7	CCV	4.8191	.48622	.49154	.48556	.49426	.51026	.50760	49.517	.48106	.49447	CCV
8	CCB	-.00474	.00125	-.00030	-.00074	.00008	-.00065	.00007	-.29668*	.00006	.00012	CCB
9	ICSAI	451.55	.00172	-.00684	-.00155	-.00026	-.04893	.00377	471.34	.00037	.00031	ICSAI
10	ICSABI	453.38	1.0393	1.0381	.52629	.49915	.49386	1.0354	471.74	.48994	.49971	ICSABI
11	CCV1	4.8812	.48803	.49077	.48049	.49273	.51563	.50538	49.590	.48635	.49390	CCV1
12	CCB1	.00504	.00053	.00153	-.00107	.00005	-.00087	.00009	-.29738*	.00022	.00004	CCB1
13	J254-01	.56073	.04962	.05104	2.6272	.00860	1.9197	.02925	-.26247	.01618	-.00021	J254-01
14	J254-01D	.56367	.05107	.05302	2.6359	.00847	1.9937	.02904	-.31369	.01636	-.00021	J254-01D
15	J254-01J	.10542	.01076	.00997	.52289	.00154	.37424	.00579	-.30116	.00344	-.00007	J254-01J
16	J254-01	.53235	.04701	.05157	2.5518	.00844	1.8945	.02832	-.30462	.01579	-.00024	J254-01
17	IPK000WB	.00157	.00058	-.00108	-.00105	-.00005	.00128	-.00001	-.30653*	.00021	-.00006	IPK000WB
18	IPK000WL	10.366	5.3418	1.0764	.98903	1.0508	1.2085*	1.0324	50.314	1.0234	.99665	IPK000WL
19	IPK000WC	10.578	5.4443	1.0919	1.0157	1.0763	1.2211*	1.0614	51.510	1.0243	1.0242	IPK000WC
20	BLANK	.00693	.00711	.00145	-.00141	.00003	.00233	.00012	-.26900	.00019	-.00006	BLANK
21	ICSAF	448.31	.00451	-.00965	-.00058	-.00034	-.04884	.00391	466.39	.00043	.00045	ICSAF
22	ICSABF	452.21	1.0389	1.0277	.52233	.49891	.49207	1.0346	467.38	.48527	.49715	ICSABF
23	CCV2	4.9888	.49846	.49962	.48389	.49999	.52705	.51262	50.018	.49594	.49994	CCV2
24	CCB2	-.00126	.00234	-.00039	-.00016	-.00008	-.00048	.00011	-.29312*	.00025	-.00005	CCB2
25	G144-01	2.0442	.04514	.03674	1.9984	.00654	2.3931	.03429	-.24028	.19662	.00006	G144-01
26	G144-01D	2.0395	.04649	.03614	1.9998	.00649	2.4372	.03419	-.30153	.20003	-.00013	G144-01D
27	BLANK	-.00175	.00190	.00063	-.00055	-.00002	.00265	.00000	-.27763	.00024	.00001	BLANK
28	B	-.00011	.00175	.00016	-.00126	.00003	2.1956	.00000	-.29145	.00013	-.00019	B
29	Fe	-.00395	.00104	-.00103	-.00081	.00004	.00122	.00001	-.30706	.00014	-.00017	Fe
30	Mn	-.00303	.00108	.00033	-.00086	.00008	.00065	.00005	-.30082	.00023	-.00001	Mn
31	V	-.01567	.00057	.00007	-.00127	-.00003	-.00041	-.00002	-.30432	.00009	-.00022	V
32	BLANK	.00040	.00064	-.00025	-.00061	.00004	.00063	.00004	-.27939	.00013	-.00005	BLANK
33	J254-01	.53882*	.04966*	.05128*	2.5225*	.00850*	1.9043*	.02835*	-.29364*	.01560*	-.00034*	J254-01
34	J254-01D	.53463*	.04992	.04979*	2.4960*	.00841	1.9074*	.02799*	-.27827*	.01574*	-.00020	J254-01D
35	CCV3	4.9065	.49719	.49729	.48054	.49862	.52276	.51162	49.447	.48777	.49891	CCV3
36	CCB3	-.00985	.00073	-.00033	-.00107	.00032	.00049	.00006	-.30718*	.00022	-.00004	CCB3
37	IPK010WB	-.01016	.00069	-.00079	-.00085	-.00001	-.00022	.00006	-.29110*	.00013	-.00003	IPK010WB
38	IPK010WL	9.4720	5.0101	.99489	.96099	1.0256	1.0678	1.0272	49.718	.98483	1.0142	IPK010WL
39	IPK010WC	9.2521	4.8749	.96984	.94715	.99883	1.0279	1.0077	48.495	.94151	.98976	IPK010WC
40	J393-02A	9.6428	5.1811	1.2044	1.1754	.98582	3.3881	1.0046	85.354	.93271	.96627	J393-02A
41	J393-02	.00486	.00253	.15740	.23921	-.00016	2.3331	.00024	39.508	.00075	-.00007	J393-02
42	J393-02J	.00493	.00218	.02845	.04708	-.00010	.45720	.00006	7.6914	.00018	-.00006	J393-02J
43	J393-03	.02092	.00028	.13920	.21957	-.00025	3.0785	.00014	30.982	.00038	-.00035	J393-03
44	J393-04	.01208	-.00105	.15454	.06889	-.00048	3.4297	.00010	16.723	.00051	-.00023	J393-04
45	K008-03	.01232	.00028	.07028	.11052	-.00005	3.1407	.00002	15.590	.00071	-.00021	K008-03
46	BLANK	-.00085	.00188	.00105	-.00093	-.00017	.00719	.00009	-.23055	.00023	.00000	BLANK
47	CCV4	5.1763	.50562	.49447	.47998	.49753	.53486	.50801	48.927	.48831	.49678	CCV4
48	CCB4	-.00899	.00114	-.00037	-.00091	.00001	.00048	.00004	-.30382*	.00011	-.00002	CCB4
49	K008-04	.01671	.00016	.00410	.03661	-.00004	1.3284	.00008	41.649	.00342	-.00030	K008-04
50	J549-01	1.5665	.01422	-.00137	.04663	-.00023	.56998	.01103	31.942	.04436	.00326	J549-01
51	K017-02	.02726	.00045	.00153	-.00081	.00017	.00693	.00013	-.14134	.00142	.00003	K017-02
52	K017-03	2.1397	-.00009	.00422	.08389	.00031	.27455	.00007	15.010	.00120	.00124	K017-03
53	J955-02	.00508	.00005	.00181	-.00170	.00006	.00066	.00000	-.24474	.00037	-.00003	J955-02
54	J955-03	.01250	.00031	.00041	-.00108	-.00004	.00643	.00006	-.18044	.00032	-.00012	J955-03
55	J955-04	15.166	.00015	.01147	1.4133	.00870	.68659	.00054	348.64	.01220	.01888	J955-04

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56	BLANK	.00418	.00083	-.00031	-.00099	.00003	.00165	.00002	-.24445	.00033	.00008	BLANK
57	ICSAF	467.48	.00284	-.00564	-.00214	-.00004	-.04316	.00537	465.72	.00018	.00026	ICSAF
58	ICSABF	463.27	1.0502	1.0256	.51572	.49805	.49703	1.0339	455.35	.47409	.49226	ICSABF
59	CCV5	5.2172	.50650	.49289	.47019	.49437	.53166	.49724	48.182	.48704	.48737	CCV5
60	CCB5	.00295	.00094	-.00002	-.00087	.00021	-.00064	.00004	-.30779*	-.00002	.00005	CCB5
61	IPJ066SB	-.00441	.00077	-.00026	-.00121	.00010	-.00104	.00001	-.29977*	.00019	-.00018	IPJ066SB
62	IPJ066SL	9.5443	4.8429	.95071	.91806	.99264	1.0186	.97997	46.198	.92298	.95802	IPJ066SL
63	IPJ066SC	9.7526	4.9610	.96360	.92683	1.0019	1.0561	.98180	47.052	.96072	.96971	IPJ066SC
64	J346-02M	138.99	1.3459	.87960	1.8943	.90097	.84854	.89797	247.71	.99100	.96777	J346-02M
65	J346-02S	129.58	1.4518	.87924	1.8639	.90205	.83347	.90396	259.82	.96462	.96338	J346-02S
66	J346-02A	137.79	4.8459	.99316	1.9967	.98702	1.0023	.99744	245.41	1.0730	1.0592	J346-02A
67	J346-02	133.24	-.00661	.02019	1.0955	.00521	-.02146	.00458	208.11	.17205	.09246	J346-02
68	J346-02J	28.226	-.00151	.00469	.21899	.00112	-.00552	.00064	42.357	.03602	.01830	J346-02J
69	J346-01	115.90	-.00462	.02840	.59251	.00647	-.02351	.00504	58.824	.16928	.07239	J346-01
70	BLANK	.00939	.00101	.00149	-.00096	-.00015	.00236	.00007	-.24221	.00031	.00016	BLANK
71	CCV6	5.0134	.50269	.49007	.46733	.49448	.51915	.50085	47.948	.48150	.48611	CCV6
72	CCB6	-.00963	.00161	-.00176	-.00106	.00012	-.00040	.00008	-.28821*	.00003	.00004	CCB6
73	J346-03	125.47	-.00902	.02145	1.0905	.00458	-.02545	.00460	320.28	.16173	.08539	J346-03
74	J346-04	147.47	-.01032	.02304	1.2195	.00538	-.02417	.00487	216.28	.18779	.10016	J346-04
75	J346-05	162.99	-.01196	.04499	1.6516	.00588	-.01184	.00565	351.13	.28165	.11222	J346-05
76	J346-06	161.23	-.01099	.09425	1.5722	.00565	-.02847	.00725	1051.1	.31412	.13492	J346-06
77	J346-07	166.61	-.00790	.07529	.87964	.00483	-.02384	.01117	1568.3	.48749	.11621	J346-07
78	J346-08	229.14	-.01316	.04758	1.6134	.00891	-.02213	.00974	800.77	.27849	.13825	J346-08
79	J346-09	160.53	-.00965	.03303	1.3420	.00584	-.02355	.00421	66.255	.30542	.09989	J346-09
80	J346-10	265.16	-.01207	.07031	1.3140	.01031	-.04271	.00930	172.43	.39378	.15798	J346-10
81	J346-11	90.515	-.00784	.03250	.78135	.00373	-.01970	.00224	41.780	.12051	.06490	J346-11
82	BLANK	.00743	.00109	.00018	-.00130	-.00009	.00140	.00005	-.24972	.00158	-.00023	BLANK
83	CCV7	5.0383	.50311	.49279	.47046	.49251	.51568	.50422	47.664	.47678	.48958	CCV7
84	CCB7	-.00964	.00126	-.00031	-.00160	.00018	-.00066	.00004	-.30545*	.00003	-.00012	CCB7
85	J346-12	143.28	-.00868	.04416	.73443	.00657	-.02951	.00426	67.176	.30477	.09022	J346-12
86	J346-13	160.43	-.00960	.03470	1.0430	.00643	-.03398	.00444	111.03	.26624	.10920	J346-13
87	K044-03	6.5436	-.00993	.08328	.06089	.00001	.05872	.01755	1082.4	.85054	.11380	K044-03
88	K044-16	3.8313	.01070	.01777	.02375	-.00007	-.06523	.05320	1046.6	1.0826	.09155	K044-16
89	BLANK	-.00300	.00048	.00071	-.00099	.00008	.68530	.00004	-.22295	.00015	-.00010	BLANK
90	CCV8	5.0559	.50459	.48835	.46620	.49128	.52732	.50012	47.507	.48379	.48749	CCV8
91	CCB8	-.00214	.00126	.00007	-.00148	.00018	-.00013	.00003	-.29252*	.00015	.00008	CCB8
92	IPK029SB	.00250	-.00365	.00330	.00110	-.00003	.00286	.00009	-.21736*	.00279	-.00023	IPK029SB
93	IPK029SL	9.7229	5.0017	.98255	.95091	1.0114	1.0412	1.0245	47.919	.94791	1.0021	IPK029SL
94	IPK029SC	9.6238	4.9863	.97534	.93685	.99831	1.0436	1.0073	47.268	.94055	.98331	IPK029SC
95	K191-01A	9.4402	5.3661	1.2104	.96356	.95208	1.1924	1.0404	45.978	.97577	1.0046	K191-01A
96	K191-01	.15074	-.00649	.05033	.03807	.00000	.05311	.00146	1.8939	.02570	.00465	K191-01
97	K191-01J	.03216	-.00004	.00877	.00588	-.00009	.00962	.00026	.16281	.00514	.00074	K191-01J
98	K191-02	207.59	-.03473	.03982	2.6645	.00676	-.04066	1.1304	55.270	.44990	.16747	K191-02
99	K191-03	124.07	-.03775	.04087	2.3690	.00279	.03753	1.0190	21.710	3.9563	.09399	K191-03
100	BLANK	.00485	.00078	.00089	-.00120	.00003	.00150	.00011	-.25037	.00029	.00003	BLANK
101	CCV9	5.1596	.51321	.49757	.47008	.49237	.53426	.50271	47.416	.48867	.49019	CCV9
102	CCB9	-.00857	.00135	-.00081	-.00131	.00017	-.00078	.00010	-.31062*	.00013	-.00011	CCB9
103	IPK025WB	-.01029	.00055	.00011	-.00108	-.00008	-.00104	.00004	-.30083*	.00003	-.00015	IPK025WB
104	WTK001SB	-.00463	.00051	.00005	-.00159	-.00009	-.00110	.00002	-.32685*	.00012	-.00002	WTK001SB
105	IPK025WL	9.4897	4.9276	.95386	.90854	.98409	1.0245	.97640	45.431	.92592	.95678	IPK025WL
106	IPK025WC	9.7445	5.0218	.97280	.92775	1.0036	1.0498	.99683	46.053	.94893	.97754	IPK025WC
107	J951-01A	200.09	4.8190	.98737	3.2105	.97926	.98204	1.0742	103.70	1.5260	1.1432	J951-01A
108	J951-01	194.50	-.02835	.04291	2.3447	.00643	-.03350	.08221	60.006	.62382	.17224	J951-01
109	J951-01J	41.557	-.00645	.00912	.46936	.00114	-.01131	.01526	12.262	.13061	.03374	J951-01J
110	J951-02	.39288	-.00423	.06284	.18758	.00010	.02823	.00301	8.2677	.00789	.00328	J951-02
111	BLANK	.00157	.00131	.00001	-.00087	-.00008	.00076	.00017	-.28334	.00028	.00004	BLANK
112	CCV10	5.1163	.51189	.49627	.46757	.48890	.52968	.50157	47.189	.48318	.48761	CCV10
113	CCB10	-.00993	.00100	.00006	-.00190	-.00023	-.00071	.00003	-.31403*	.00008	.00000	CCB10

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
114	J331-01	.00411	.00158	-.00121	.00073	-.00072	7.9362	.00003	34.663	.00092	-.00023	J331-01
115	J347-04	.00618	.00014	-.00028	-.00045	-.00015	1.2355	.00000	45.009	.00382	.00061	J347-04
116	J347-06	-.00027	.00081	-.00049	-.00042	-.00014	1.4945	.00005	23.024	.00788	-.00001	J347-06
117	J347-11M	.52628	.28472	.05631	.00350	.05109	3.1148	.05476	25.465	.06350	.05258	J347-11M
118	J347-11S	.51390	.28265	.05547	.01298	.05077	3.1101	.05357	25.309	.06338	.05163	J347-11S
119	J347-11A	9.8038	5.3180	1.0664	.93395	.96194	4.1195	1.0080	68.218	.96327	.98115	J347-11A
120	J347-11	.00245	.00259	-.00192	-.00002	-.00035	3.0597	.00004	22.629	.01304	-.00015	J347-11
121	J347-11J	-.00389	.00272	-.00091	-.00095	.00010	.58716	.00007	4.3712	.00257	-.00004	J347-11J
122	J347-07	.00032	.00052	.00054	-.00078	.00001	1.4908	.00000	23.028	.00788	.00002	J347-07
123	BLANK	-.00320	.00102	.00072	-.00061	.00013	.00493	.00005	-.27740	.00023	.00007	BLANK
124	CCV11	5.1567	.51824	.50140	.47620	.49337	.53966	.50736	47.904	.49170	.49404	CCV11
125	CCB11	-.01240	.00120	-.00091	-.00103	-.00013	.00110	.00010	-.31671*	.00027	-.00007	CCB11
126	J347-08	-.00086	.00036	.00021	-.00083	-.00004	1.0653	.00004	22.555	.00542	.00001	J347-08
127	J347-09	-.00307	.00058	-.00036	-.00080	-.00018	2.3152	.00003	21.174	.00587	-.00019	J347-09
128	J347-10	-.00416	.00042	.00017	-.00009	-.00010	2.1884	.00007	19.056	.00273	-.00018	J347-10
129	J347-12	-.00484	.00045	-.00136	-.00053	.00009	.57465	.00002	32.117	.00611	-.00014	J347-12
130	BLANK	-.00764	-.00005	.00024	-.00179	.00004	.00169	.00001	-.30954	.00023	-.00014	BLANK
131	CCV12	5.0855	.50956	.49469	.46980	.48642	.52989	.50014	47.167	.48488	.48713	CCV12
132	CCB12	-.01180	.00099	-.00067	-.00072	.00030	.00078	.00005	-.31171*	.00016	-.00007	CCB12

ID8K012 Section 1 of 3

ID8K012 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID
1	Blank	.00576	.00000	.00008	.00019	.00012	.00002	-.00043	-.00052	.00001	.00015	Blank
2	S2	3.3318		.18911		.05667		.65285			.20206	S2
3	S5						.71968			.00481		S5
4	S8		.07098		.15084				3.1389			S8
5	ICV	.47208	5.0830	.49733	48.775	.48481	.50272	.49429	48.884	.49584	.50274	ICV
6	ICB	-.00035	.00218	-.00024	-.12720*	-.00119	.00005	-.00020	-.04979	-.00134	.00042	ICB
7	CCV	.45844	4.8736	.48480	49.014	.47632	.51735	.49506	48.205	.49507	.48800	CCV
8	CCB	-.00027	.00149	-.00008	-.17345*	-.00167	.00001	.00023	-.05180	-.00030	.00023	CCB
9	ICSAI	.00263	186.08	-.01772	498.41	-.00101	-.00205	-.00009	.00596	.00436	.00003	ICSAI
10	ICSABI	.47363	187.28	.94975	497.55	.47030	1.0733	.98751	81.849	1.0320	1.1137	ICSABI
11	CCV1	.46493	4.9198	.48357	49.329	.47830	.51555	.49231	48.286	.49327	.49343	CCV1
12	CCB1	-.00030	.00450	-.00019	-.08508	-.00140	.00002	-.00002	.01064	.00025	.00013	CCB1
13	J254-01	.63087	1.8242	.01600	-.00612	.13729	.07378	.21535	-.09624	.09538	.07513	J254-01
14	J254-01D	.64928	1.8574	.01658	-.13021	.13672	.07375	.21633	-.11528	.09752	.07780	J254-01D
15	J254-01J	.12966	.36020	.00351	-.13868	.02362	.01533	.04356	-.09144	.01609	.01486	J254-01J
16	J254-01	.61450	1.7750	.01599	-.03462	.13334	.07084	.20999	-.13090	.09391	.07427	J254-01
17	IPK000WB	-.00029	.00136	-.00038	-.19179*	-.00373	.00001	-.00005	-.09958	-.00215	.00013	IPK000WB
18	IPK000WL	.96806	10.576	1.0027	50.128	.99178	1.0002	.99999	50.165	1.1187	.70886*	IPK000WL
19	IPK000WC	1.0011	10.697	1.0296	51.818	1.0174	1.0391	1.0290	51.563	1.1265	.73297*	IPK000WC
20	BLANK	-.00013	.00824	-.00002	-.13257	-.00017	.00015	.00020	-.04363	-.00064	.04217	BLANK
21	ICSAF	.00234	182.98	-.01812	499.51	-.00257	-.00197	-.00034	-.04691	.00590	.00545	ICSAF
22	ICSABF	.47674	186.30	.94930	499.30	.47511	1.0723	.98335	80.992	1.0236	1.1051	ICSABF
23	CCV2	.47528	5.0306	.49025	50.433	.48583	.52349	.49813	48.923	.50097	.50340	CCV2
24	CCB2	-.00024	.00580	.00043	-.12863*	-.00226	.00015	.00011	-.00994	-.00182	.00034	CCB2
25	G144-01	.93027	1.7831	.05067	-.04149	.32221	.03890	.11109	-.06005	.07256	.12073	G144-01
26	G144-01D	.95990	1.8071	.05153	-.13047	.32204	.03928	.11125	-.07051	.07248	.12290	G144-01D
27	BLANK	.00008	.00283	-.00013	-.12374	-.00168	-.00002	.00002	-.07577	-.00167	.00002	BLANK
28	B	-.00015	.00629	.00029	-.12410	-.00153	-.00009	.00011	-.06864	-.00092	.00004	B
29	Fe	-.00008	1.6225	-.00031	-.12324	-.00047	.00001	-.00011	-.10771	-.00109	.00020	Fe
30	Mn	-.00043	-.00185	.00014	-.14127	.32829	.00002	.00001	-.09642	.00081	.00011	Mn
31	V	-.00072	.06308	.00021	-.07817	-.00247	-.00019	-.00005	-.09978	-.00295	-.00412	V
32	BLANK	-.00020	.00545	-.00019	-.13227	-.00242	-.00008	.00009	-.06894	-.00131	.00018	BLANK
33	J254-01	.64305*	1.8104*	.01597*	-.17263*	.13281*	.07208*	.21004*	-.06636*	.09279*	.07381*	J254-01
34	J254-01D	.63744*	1.7974*	.01647*	-.13725*	.13103*	.07196*	.20856*	-.05324	.09045*	.07416*	J254-01D
35	CCV3	.47887	4.9887	.48985	49.953	.48090	.52348	.49806	48.643	.50053	.49460	CCV3
36	CCB3	-.00016	-.00002	-.00061	-.14728*	-.00229	.00008	-.00009	-.05696	-.00135	.00028	CCB3
37	IPK010WB	-.00040	-.00281	.00025	-.12974*	-.00202	-.00001	.00001	-.06078	.00067	.00007	IPK010WB
38	IPK010WL	.98686	10.185	1.0013	49.765	.97488	1.0371	1.0052	48.630	.97565	.97453	IPK010WL
39	IPK010WC	.95734	9.8905	.97958	48.350	.96194	1.0221	.98534	46.949	.94295	.93283	IPK010WC
40	J393-02A	.89486	14.559	.96314	94.077	1.0796	1.0616	.96299	78.050	1.0582	.95833	J393-02A
41	J393-02	.00051	5.0221	-.00073	46.143	.15122	.05945	.00181	27.540	-.00119	.00042	J393-02
42	J393-02J	.00079	1.0273	.00025	9.0700	.02599	.01161	.00156	5.0236	-.00059	.00013	J393-02J
43	J393-03	.00079	2.2152	-.00047	26.994	.09337	.08576	.00141	22.328	-.00034	.00006	J393-03
44	J393-04	.00053	2.1996	-.00098	20.793	.03473	.12157	.00318	22.408	-.00076	.00022	J393-04
45	K008-03	.00038	.82674	-.00058	16.548	.05287	.08684	.00116	19.286	-.00093	.00012	K008-03
46	BLANK	.00009	.00794	.00005	-.16316	-.00229	.00003	.00014	.06030	-.00138	.00003	BLANK
47	CCV4	.49501	5.0370	.49145	49.960	.47724	.52362	.49411	49.113	.50234	.50317	CCV4
48	CCB4	.00014	-.00159	-.00004	-.18284*	-.00176	.00005	-.00018	-.02809	-.00084	.00019	CCB4
49	K008-04	.00136	-.00885	-.00053	48.697	-.00158	.01554	.00087	25.057	.00730	.00022	K008-04
50	J549-01	1.8192	2.0928	.05883	26.607	.06676	.01958	.06832	698.07	.00681	.00111	J549-01
51	K017-02	.00214	.15260	-.00046	-.14407	.00452	.00007	.00035	.32832	-.00075	.00027	K017-02
52	K017-03	.00360	2.1218	.00137	.44398	.05605	.02677	.00382	2.0078	-.00185	-.00005	K017-03
53	J955-02	.00024	.00509	-.00056	-.19310	-.00368	-.00004	.00062	.06818	-.00107	.00013	J955-02
54	J955-03	.00033	.08183	-.00022	-.10691	-.00111	.00004	.00026	.05641	-.00146	.00015	J955-03
55	J955-04	.04933	6.2372	.01951	15.755	1.1518	.00131	.01637	10.416	.00491	-.00027	J955-04

56	BLANK	.00022	.02882	-.00007	-.12061	.00001	-.00018	.00025	.08114	-.00074	-.00020	BLANK
57	ICSAF	.00274	188.99	-.01771	508.58	-.00399	-.00198	-.00005	.07123	.00664	-.00034	ICSAF
58	ICSABF	.49723	187.28	.95203	500.76	.46696	1.0723	.97692	80.971	1.0256	1.0866	ICSABF
59	CCV5	.49672	5.0359	.48690	49.726	.46930	.51363	.48550	48.733	.49760	.50130	CCV5
60	CCB5	.00001	.00162	.00022	-.19234*	-.00078	.00007	-.00005	.01631	-.00016	.00027	CCB5
61	IPJ066SB	-.00019	-.00086	-.00009	-.12594*	-.00176	.00009	-.00002	-.01947	-.00044	.00022	IPJ066SB
62	IPJ066SL	.98022	9.8225	.96189	47.650	.91941	.99491	.95905	45.358	.93957	.92608	IPJ066SL
63	IPJ066SC	1.0005	10.076	.96877	47.832	.93910	1.0057	.96737	46.722	.95218	.96697	IPJ066SC
64	J346-02M	1.0905	181.51	.90917	119.08	4.2155	.88929	1.0188	69.706	.83276	.87790	J346-02M
65	J346-02S	1.0588	169.43	.90835	115.79	4.0629	.89005	1.0152	67.218	.83044	.85612	J346-02S
66	J346-02A	1.1601	182.76	1.0024	121.79	4.3008	1.0248	1.1052	76.048	.96137	.95087	J346-02A
67	J346-02	.19830	182.40	.04517	77.211	3.5319	.00031	.15033	28.884	.00960	-.00330	J346-02
68	J346-02J	.04036	38.349	.00766	15.581	.72232	.00002	.02992	5.5145	.00068	-.00075	J346-02J
69	J346-01	.11862	154.31	.03464	56.020	1.8590	.00229	.12477	17.134	.01005	-.00118	J346-01
70	BLANK	.00025	.02355	-.00032	-.06546	-.00219	.00005	.00025	-.03636	-.00076	.00002	BLANK
71	CCV6	.49622	5.0272	.48708	50.060	.46894	.51500	.48606	48.313	.49538	.48742	CCV6
72	CCB6	-.00004	-.00148	.00017	-.13181*	-.00078	.00011	.00001	-.06716	-.00055	.00038	CCB6
73	J346-03	.17735	168.10	.04205	73.030	3.4256	.00041	.13890	22.245	.00600	-.00319	J346-03
74	J346-04	.21437	200.60	.04834	84.729	3.8168	.00007	.16729	25.412	.00829	-.00355	J346-04
75	J346-05	.23646	219.40	.05531	89.730	4.1830	-.00055	.18999	27.780	.00875	-.00451	J346-05
76	J346-06	.27687	230.95	.05871	112.36	4.1027	-.00057	.22235	19.732	.01051	-.00473	J346-06
77	J346-07	.28001	203.86	.08783	104.17	4.3647	-.00018	.17698	27.815	.00391	-.00605	J346-07
78	J346-08	.32992	267.58	.11308	136.23	6.8153	-.00136	.20747	45.046	.00902	-.00485	J346-08
79	J346-09	.17409	206.00	.05228	96.309	2.7420	-.00107	.15474	21.816	.01020	-.00429	J346-09
80	J346-10	.41012	318.82	.12711	151.95	5.5285	-.00112	.27265	29.348	.01669	-.00729	J346-10
81	J346-11	.16093	117.49	.07033	49.739	2.8699	.00107	.10668	17.755	.00642	-.00219	J346-11
82	BLANK	.00010	.02492	.00008	-.13893	.00070	-.00005	.00017	-.04595	-.00010	.00015	BLANK
83	CCV7	.49457	5.0023	.48703	50.031	.46805	.52003	.48928	47.871	.49904	.48549	CCV7
84	CCB7	-.00003	.00157	-.00058	-.13965*	-.00245	.00007	-.00013	-.00709	.00005	.00026	CCB7
85	J346-12	.19635	195.92	.08246	81.389	2.6655	-.00057	.16651	24.290	.00995	-.00336	J346-12
86	J346-13	.24836	196.16	.05719	88.988	3.9343	-.00027	.19756	27.610	.00981	-.00332	J346-13
87	K044-03	.33010	554.71	.18665	10.901	4.1954	.06827	.13907	1.3043	.02874	.00009	K044-03
88	K044-16	.18747	442.68	.25012	5.8345	4.2350	.00163	.21203	1.1525	.02261	-.00114	K044-16
89	BLANK	.00010	.02443	.00003	-.15930	-.00011	.00004	-.00002	-.04669	.00001	-.00007	BLANK
90	CCV8	.50227	5.0948	.48858	49.934	.46476	.51581	.48682	48.306	.49622	.49295	CCV8
91	CCB8	-.00009	.00203	-.00073	-.12504*	-.00264	.00011	-.00003	-.02098	-.00026	.00015	CCB8
92	IPK029SB	.00018	.00863	.00035	-.10031*	.00035	.00013	.00160	.99788*	.01386*	.00034	IPK029SB
93	IPK029SL	1.0223	10.101	1.0027	49.417	.93752	1.0384	.99736	48.234	.96378	.94497	IPK029SL
94	IPK029SC	1.0152	10.042	.98900	49.108	.92907	1.0214	.97963	47.493	.95670	.93670	IPK029SC
95	K191-01A	1.0293	109.89	.98385	46.022	1.2088	1.0773	1.0187	62.947	1.3041	1.0617	K191-01A
96	K191-01	.16737	105.80	.02346	.09447	.31990	.00340	.02571	2.0895	.02228	.00029	K191-01
97	K191-01J	.03746	20.846	.00450	-.08237	.06381	.00055	.00503	.56589	.00352	.00010	K191-01J
98	K191-02	1.2704	290.33	.05248	113.37	4.9466	.00327	.50847	76.418	.01816	-.00394	K191-02
99	K191-03	1.0979	280.83	.50952	81.632	2.2973	.01763	.51544	73.096	.01675	.00262	K191-03
100	BLANK	.00017	.02988	.00024	-.14372	-.00242	.00007	.00013	.01990	-.00067	.00011	BLANK
101	CCV9	.51383	5.1421	.49404	49.927	.46341	.51992	.48968	48.998	.50260	.49850	CCV9
102	CCB9	.00021	.00236	.00000	-.11299*	-.00162	-.00004	-.00023	-.01607	-.00079	.00030	CCB9
103	IPK025WB	.00007	-.00054	-.00023	-.14081*	-.00241	.00003	-.00001	-.03721	-.00036	.00021	IPK025WB
104	WTK001SB	-.00021	.00317	-.00028	-.18104*	-.00290	.00008	-.00010	-.05014	-.00112	.00002	WTK001SB
105	IPK025WL	1.0098	9.9221	.96155	46.725	.90219	1.0044	.95767	45.720	.94047	.92840	IPK025WL
106	IPK025WC	1.0379	10.177	.98271	47.702	.92020	1.0242	.97855	46.631	.96226	.95215	IPK025WC
107	J951-01A	2.2990	283.69	1.0283	156.36	5.7687	1.0391	1.2096	115.00	.93633	.95214	J951-01A
108	J951-01	1.3280	281.84	.05755	111.48	5.0139	.00392	.24982	66.939	.01337	-.00450	J951-01
109	J951-01J	.26866	59.593	.01039	22.680	1.0264	.00073	.04916	12.940	.00211	-.00091	J951-01J
110	J951-02	.12881	2.4571	.17717	.62079	.24423	.00147	.02178	2.4079	.01635	.00027	J951-02
111	BLANK	.00033	.01250	.00007	-.12997	-.00184	.00008	.00019	.08571	.00077	.00029	BLANK
112	CCV10	.51179	5.0859	.48951	49.044	.45817	.51716	.48782	49.171	.50467	.49388	CCV10
113	CCB10	-.00003	-.00013	.00023	-.13336*	-.00089	.00013	.00008	-.00935	.00026	.00000	CCB10

INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID
114	J331-01	-.00024	.08217	-.00137	478.38	.05152	.00715	.00068	66.426	-.00079	.00019	J331-01
115	J347-04	.00017	.00041	.00000	5.5835	.00154	.02039	.00028	.41207	.00135	-.00013	J347-04
116	J347-06	.00049	-.00539	-.00016	26.351	-.00111	.01600	.00020	.33471	.00533	-.00005	J347-06
117	J347-11M	.05225	.53488	.04036	83.305	.04604	.08895	.05319	3.6936	.06959	.02244	J347-11M
118	J347-11S	.05186	.53109	.04202	82.393	.04665	.08696	.05207	3.6699	.06842	.03657	J347-11S
119	J347-11A	.95284	10.161	.97227	125.50	.89201	1.0490	.97928	56.746	1.0808	1.0189	J347-11A
120	J347-11	.00034	-.02506	-.00058	78.409	-.00343	.03376	.00008	.63965	.01211	.00020	J347-11
121	J347-11J	-.00012	-.00186	-.00054	15.616	-.00164	.00646	.00007	.12683	.00242	.00007	J347-11J
122	J347-07	.00122	-.00591	.00039	26.183	-.00135	.01571	.00121	.25932	.00692	.00024	J347-07
123	BLANK	.00019	.01218	.00034	-.11295	-.00130	-.00009	.00016	-.04065	-.00015	.00005	BLANK
124	CCV11	.52372	5.1479	.49500	49.537	.46021	.52199	.49356	50.174	.51093	.50090	CCV11
125	CCB11	-.00011	-.00125	.00032	-.17593*	-.00161	.00009	.00010	-.02801	-.00073	.00007	CCB11
126	J347-08	.00015	-.01007	-.00034	18.554	-.00197	.01898	.00030	.18522	.00366	-.00024	J347-08
127	J347-09	.00041	-.00631	-.00046	19.733	-.00159	.03299	.00011	.23807	.00627	.00011	J347-09
128	J347-10	.00017	-.00115	-.00011	7.7323	-.00180	.02819	.00012	.14777	-.00022	.00010	J347-10
129	J347-12	.00000	-.00479	.00048	14.614	-.00154	.01255	-.00001	.05133	.00318	-.00010	J347-12
130	BLANK	-.00002	-.00061	-.00046	-.17159	-.00300	.00017	.00001	-.05250	-.00082	-.00014	BLANK
131	CCV12	.51914	5.0801	.48865	48.573	.45451	.51507	.48638	49.563	.50236	.49455	CCV12
132	CCB12	.00015	-.00227	-.00016	-.16733*	-.00186	.00007	.00023	-.01959	.00068	.00027	CCB12

ID8K012 Section 2 of 3

ID8K012 Section 3 of 3

INDX	LSID	Na	Tl	V	Zn	LSID
1	Blank	.06080	-.00057	-.00015	.00227	Blank
2	S2		.13985	.15944		S2
3	S5				.84593	S5
4	S8	8.4974				S8
5	ICV	48.932	.47162	.50991	.51238	ICV
6	ICB	-.62943*	.00045	.00008	-.00112	ICB
7	CCV	48.611	.46915	.49834	.50321	CCV
8	CCB	-.64566*	.00095	.00006	-.00119	CCB
9	ICSAI	-.50653	-.00065	.00016	.00576	ICSAI
10	ICSABI	80.790	.91329	.50828	1.0179	ICSABI
11	CCV1	48.519	.46845	.50165	.50127	CCV1
12	CCB1	-.63373*	.00052	.00008	-.00118	CCB1
13	J254-01	-.62032	.01171	.81756	1.3005	J254-01
14	J254-01D	-.64367	.01176	.83540	1.3032	J254-01D
15	J254-01J	-.63564	.00271	.16650	.25729	J254-01J
16	J254-01	-.65229	.01026	.79957	1.2674	J254-01
17	IPK000WB	-.64034*	.00066	.00028	-.00100	IPK000WB
18	IPK000WL	49.451	.98328	1.0502	1.0548	IPK000WL
19	IPK000WC	50.886	1.0139	1.0547	1.0829	IPK000WC
20	BLANK	-.59723	.00071	.00017	.00052	BLANK
21	ICSAF	-.52734	-.00099	.00011	-.00593	ICSAF
22	ICSABF	80.085	.91371	.50142	1.0193	ICSABF
23	CCV2	49.038	.47514	.50906	.50896	CCV2
24	CCB2	-.63465*	.00061	.00016	-.00098	CCB2
25	G144-01	-.63450	.00698	.55522	1.8543	G144-01
26	G144-01D	-.63974	.00731	.56160	1.8456	G144-01D
27	BLANK	-.64625	.00048	-.00004	-.00013	BLANK
28	B	-.64912	.00105	.00012	-.00096	B
29	Fe	-.67642	.00062	.00008	-.00170	Fe
30	Mn	-.66695	.00085	-.00010	-.00133	Mn
31	V	-.65907	-.00026	.56342	-.00147	V
32	BLANK	-.66328	.00112	.00010	.00009	BLANK
33	J254-01	-.64472*	.01134*	.79288*	1.2719*	J254-01
34	J254-01D	-.63908*	.01102*	.79056*	1.2599*	J254-01D
35	CCV3	48.801	.47620	.49952	.52889	CCV3
36	CCB3	-.66328*	.00059	.00024	-.00083	CCB3
37	IPK010WB	-.64979*	.00044	.00002	-.00026	IPK010WB
38	IPK010WL	48.984	.96182	1.0042	1.0438	IPK010WL
39	IPK010WC	47.473	.94395	.96126	1.0310	IPK010WC
40	J393-02A	462.21	.89735	.95904	1.0271	J393-02A
41	J393-02	425.04	.00183	-.00005	.00132	J393-02
42	J393-02J	87.470	.00043	.00005	.00125	J393-02J
43	J393-03	509.32	.00118	.00013	.00445	J393-03
44	J393-04	541.38	.00159	.00085	.00190	J393-04
45	K008-03	539.85	.00070	.00161	.02230	K008-03
46	BLANK	2.0470	.00046	.00008	.00461	BLANK
47	CCV4	49.221	.48142	.49740	.50655	CCV4
48	CCB4	-.54290*	.00083	-.00006	-.00021	CCB4
49	K008-04	269.01	.00085	.00691	.00739	K008-04
50	J549-01	433.47	-.00355	.00463	.58555	J549-01
51	K017-02	-.30543	.00147	.00037	.00492	K017-02
52	K017-03	125.82	.00114	.03900	.03195	K017-03
53	J955-02	-.51676	.00113	-.00003	.00291	J955-02
54	J955-03	-.57177	.00118	.00006	.00053	J955-03
55	J955-04	670.89	.00074	.12814	.19775	J955-04

56	BLANK	-.22254	.00034	.00017	.00106	BLANK
57	ICSAF	-.32010	-.00076	-.00030	-.00609	ICSAF
58	ICSABF	79.572	.92272	.48509	1.0437	ICSABF
59	CCV5	48.566	.47542	.49232	.49987	CCV5
60	CCB5	-.58933*	.00081	-.00003	-.00153	CCB5
61	IPJ066SB	-.60405*	.00020	.00010	-.00152	IPJ066SB
62	IPJ066SL	46.174	.94069	.94001	1.0036	IPJ066SL
63	IPJ066SC	47.352	.94718	.97586	1.0079	IPJ066SC
64	J346-02M	45.751	.83947	1.1992	1.3488	J346-02M
65	J346-02S	44.943	.83686	1.1663	1.3359	J346-02S
66	J346-02A	49.221	.92071	1.2869	1.4371	J346-02A
67	J346-02	.36278	.00849	.37354	.45387	J346-02
68	J346-02J	-.47452	.00144	.07624	.08851	J346-02J
69	J346-01	9.2062	.00800	.39382	.39273	J346-01
70	BLANK	-.28514	.00125	.00007	.00164	BLANK
71	CCV6	48.075	.47558	.48410	.50767	CCV6
72	CCB6	-.65137*	.00100	-.00012	-.00111	CCB6
73	J346-03	.44891	.00842	.35113	.41387	J346-03
74	J346-04	.45649	.00838	.40590	.49857	J346-04
75	J346-05	1.6056	.00769	.51201	.51739	J346-05
76	J346-06	1.9406	.00787	.50322	.52535	J346-06
77	J346-07	2.8441	.00599	.56833	.53869	J346-07
78	J346-08	6.8036	.01168	.51472	.68111	J346-08
79	J346-09	6.2343	.00655	.52219	.44254	J346-09
80	J346-10	11.837	.00769	.86039	.85813	J346-10
81	J346-11	4.3339	.00669	.25346	.32242	J346-11
82	BLANK	-.67475	.00002	.00002	.00140	BLANK
83	CCV7	47.775	.47882	.48310	.50521	CCV7
84	CCB7	-.67790*	.00054	-.00004	-.00021	CCB7
85	J346-12	5.3727	.00572	.41208	.53243	J346-12
86	J346-13	6.5869	.00712	.38518	.65614	J346-13
87	K044-03	.20116	.00229	.03570	7.1226	K044-03
88	K044-16	.02402	.00288	.04019	66.270	K044-16
89	BLANK	-.70586	-.00004	-.00006	.00171	BLANK
90	CCV8	47.876	.47791	.48425	.50788	CCV8
91	CCB8	-.69688*	.00027	.00008	.00563	CCB8
92	IPK029SB	2289.4*	-.01304*	.00040	.01896*	IPK029SB
93	IPK029SL	49.935	.97426	.95952	1.0439	IPK029SL
94	IPK029SC	47.453	.95692	.94972	1.0328	IPK029SC
95	K191-01A	2335.4	.88410	.96675	1.7587	K191-01A
96	K191-01	2364.6	-.01233	.00428	.69383	K191-01
97	K191-01J	546.36	-.00169	.00084	.13505	K191-01J
98	K191-02	24.752	.02293	.56340	3.0964	K191-02
99	K191-03	16.849	.02806	.57959	2.4592	K191-03
100	BLANK	-.51011	.00098	-.00006	.00442	BLANK
101	CCV9	48.557	.48330	.48938	.51048	CCV9
102	CCB9	-.54262*	.00077	-.00001	-.00159	CCB9
103	IPK025WB	-.57734*	.00042	-.00002	-.00120	IPK025WB
104	WTK001SB	-.58200*	.00102	-.00017	-.00157	WTK001SB
105	IPK025WL	46.175	.94369	.93738	1.0088	IPK025WL
106	IPK025WC	47.065	.96204	.95749	1.0306	IPK025WC
107	J951-01A	62.195	.93984	1.4610	3.8956	J951-01A
108	J951-01	13.395	.02111	.55031	2.9639	J951-01
109	J951-01J	2.0464	.00440	.11406	.58030	J951-01J
110	J951-02	2210.5	-.01577	.01080	.97481	J951-02
111	BLANK	.08510	.00064	.00024	.00029	BLANK
112	CCV10	48.599	.48003	.48484	.50711	CCV10
113	CCB10	-.39466*	.00104	-.00016	-.00184	CCB10

114	J331-01	1736.6	-.00056	-.00034	.00665	J331-01
115	J347-04	113.31	.00084	.00026	.00292	J347-04
116	J347-06	243.52	.00045	-.00018	.00009	J347-06
117	J347-11M	751.77	.04831	.05164	.05861	J347-11M
118	J347-11S	749.98	.04747	.05141	.05698	J347-11S
119	J347-11A	771.97	.89207	.96771	1.0688	J347-11A
120	J347-11	747.92	-.00037	-.00014	.00020	J347-11
121	J347-11J	157.37	.00093	-.00005	-.00063	J347-11J
122	J347-07	244.60	.00060	.00010	.00013	J347-07
123	BLANK	-.35377	.00100	-.00003	.00183	BLANK
124	CCV11	49.607	.48442	.49272	.51433	CCV11
125	CCB11	-.49176*	.00099	-.00009	-.00179	CCB11
126	J347-08	159.90	.00033	-.00001	-.00034	J347-08
127	J347-09	271.09	.00062	.00000	.00153	J347-09
128	J347-10	189.63	.00047	.00002	.00029	J347-10
129	J347-12	126.08	.00080	-.00004	-.00077	J347-12
130	BLANK	-.48591	.00047	-.00013	-.00108	BLANK
131	CCV12	48.845	.47673	.48543	.50681	CCV12
132	CCB12	-.55055*	.00093	.00005	-.00139	CCB12
INDX	LSID	Na	Tl	V	Zn	LSID

ID8K012 Section 3 of 3

	Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation
	Al 308.215 {109}	11/15/2007 10:10:59	Linear	1/Conc	0.001693	0.025588	0.000000	1.000000	1.000000
	Sb 206.833 {463}	11/15/2007 10:10:59	Linear	1/Conc	0.000020	0.007688	0.000000	1.000000	1.000000
	As 189.042 {478}	11/15/2007 10:10:59	Linear	1/Conc	-0.000022	0.004911	0.000000	1.000000	1.000000
	Ba 455.403 { 74}	11/15/2007 10:10:59	Linear	1/Conc	0.001985	0.916309	0.000000	1.000000	1.000000
	Be 313.042 {108}	11/15/2007 10:10:59	Linear	1/Conc	0.000036	0.721217	0.000000	1.000000	1.000000
	B 249.773 {135}	11/15/2007 10:10:59	Linear	1/Conc	0.000104	0.097187	0.000000	1.000000	1.000000
	Cd 226.502 {449}	11/15/2007 10:10:59	Linear	1/Conc	-0.000065	2.543757	0.000000	1.000000	1.000000
	Ca 317.933 {106}	11/15/2007 10:10:59	Linear	1/Conc	0.004858	0.015665	0.000000	1.000000	1.000000
	Cr 267.716 {126}	11/15/2007 10:10:59	Linear	1/Conc	0.000119	0.168733	0.000000	1.000000	1.000000
	Co 228.616 {447}	11/15/2007 10:10:59	Linear	1/Conc	-0.000221	0.708850	0.000000	1.000000	1.000000
	Cu 324.754 {104}	11/15/2007 10:10:59	Linear	1/Conc	0.005756	3.326001	0.000000	1.000000	1.000000
	Fe 271.441 {124}	11/15/2007 10:10:59	Linear	1/Conc	-0.000002	0.007098	0.000000	1.000000	1.000000
	Pb 220.353 {453}	11/15/2007 10:10:59	Linear	1/Conc	0.000077	0.188919	0.000000	1.000000	1.000000
	Li 670.784 { 50}	2/2/2007 14:25:23	Linear	1/Conc	0.002046	0.234028	0.000000	1.000000	1.000000
	Mg 279.079 {121}	11/15/2007 10:10:59	Linear	1/Conc	0.000191	0.001506	0.000000	1.000000	1.000000
	Mn 257.610 {131}	11/15/2007 10:10:59	Linear	1/Conc	0.000124	0.056534	0.000000	1.000000	1.000000
	Mo 202.030 {467}	11/15/2007 10:10:59	Linear	1/Conc	0.000024	0.719659	0.000000	1.000000	1.000000
	Ni 231.604 {446}	11/15/2007 10:10:59	Linear	1/Conc	-0.000431	0.653023	0.000000	1.000000	1.000000
	K 766.490 { 44}	11/15/2007 10:10:59	Linear	1/Conc	-0.000516	0.031397	0.000000	1.000000	1.000000
	Se 196.090 {472}	11/15/2007 10:10:59	Linear	1/Conc	0.000013	0.004796	0.000000	1.000000	1.000000
	Si 212.412 {459}	2/2/2007 14:25:23	Linear	1/Conc	0.006974	0.273496	0.000000	1.000000	1.000000
	Ag 328.068 {103}	11/15/2007 10:10:59	Linear	1/Conc	0.000150	0.201379	0.000000	1.000000	1.000000
	Na 589.592 { 57}	11/15/2007 10:10:59	Linear	1/Conc	0.060799	0.084366	0.000000	1.000000	1.000000
	Sr 421.552 { 80}	11/15/2007 10:10:59	Linear	1/Conc	0.003896	1.012272	0.000000	1.000000	1.000000
	Tl 190.856 {477}	11/15/2007 10:10:59	Linear	1/Conc	-0.000570	0.140233	0.000000	1.000000	1.000000
	Sn 189.989 {477}	11/15/2007 10:10:59	Linear	1/Conc	0.000089	0.147032	0.000000	1.000000	1.000000
	Ti 334.941 {101}	11/15/2007 10:10:59	Linear	1/Conc	-0.000066	0.064737	0.000000	1.000000	1.000000
	U 409.014 { 82}	2/2/2007 14:25:23	Linear	1/Conc	0.000061	0.011861	0.000000	1.000000	1.000000
	V 292.402 {115}	11/15/2007 10:10:59	Linear	1/Conc	-0.000154	0.159518	0.000000	1.000000	1.000000
	Zn 206.200 {463}	11/15/2007 10:10:59	Linear	1/Conc	0.002271	0.843658	0.000000	1.000000	1.000000
	Sc 227.318 {448}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
	Sc 361.384 { 93}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000
	Sc 364.531 { 92}*	<not fit>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000

	Element, Wavelength and Order	Std Error of Est	MDL	MQL	Status	Reslope		QC Norm	
						Slope	Y-int	Slope factor	Offset
	Al 308.215 {109}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Fe 271.441 {124}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ni 231.604 {446}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	K 766.490 { 44}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ag 328.068 {103}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sr 421.552 { 80}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	U 409.014 { 82}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.000000	0.000000	0.000000	OK.	1.000000	0.000000	1	0
	Sc 227.318 {448}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
	Sc 361.384 { 93}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0
	Sc 364.531 { 92}*	0.000000	0.000000	0.000000	Warnin	1.000000	0.000000	1	0

Sample Name: Blank Acquired: 11/14/2007 14:39:56 Type: Cal
Method: 6010K07(v8) Mode: IR Corr. Factor: 1.000000
User: admin Data File: Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00169	.00002	-.00002	.00198	.00004	.00010	-.00006
Stddev	.00002	.00000	.00000	.00073	.00007	.00002	.00014
%RSD	.90593	15.487	8.3553	36.602	202.34	20.790	218.65
#1	.00170	.00002	-.00002	.00280	-.00001	.00008	-.00020
#2	.00170	.00002	-.00002	.00140	-.00001	.00011	-.00007
#3	.00167	.00002	-.00002	.00175	.00012	.00012	.00008

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00486	.00012	-.00022	.00576	.00000	.00008	.00019
Stddev	.00393	.00003	.00009	.00063	.0000	.00003	.00014
%RSD	80.935	26.435	42.595	11.006	1585.1	40.037	74.272
#1	.00919	.00014	-.00013	.00649	-.00003	.00011	.00033
#2	.00386	.00014	-.00032	.00535	.00002	.00007	.00019
#3	.00152	.00008	-.00021	.00544	.00001	.00005	.00005

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00012	.00002	-.00043	-.00052	.00001	.00015	.06080
Stddev	.00012	.00006	.00010	.00011	.00000	.00002	.03096
%RSD	94.416	268.09	22.212	20.515	38.541	11.400	50.922
#1	.00026	-.00005	-.00032	-.00063	.00001	.00017	.09558
#2	.00007	.00008	-.00048	-.00042	.00001	.00013	.05058
#3	.00005	.00004	-.00050	-.00049	.00002	.00015	.03624

Elem	Tl	V	Zn
Units	Cts/S	Cts/S	Cts/S
Avg	-.00057	-.00015	.00227
Stddev	.00006	.00001	.00007
%RSD	10.730	6.1435	2.9844
#1	-.00058	-.00016	.00230
#2	-.00063	-.00014	.00219
#3	-.00050	-.00016	.00232

Sample Name: Blank Acquired: 11/14/2007 14:39:56 Type: Cal
Method: 6010K07(v8) Mode: IR Corr. Factor: 1.000000
User: admin Data File: Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9492.2	8373.3	116150.
Stddev	29.3	52.6	261.
%RSD	.30905	.62854	.22450
#1	9463.5	8316.1	115890.
#2	9490.8	8384.1	116160.
#3	9522.2	8419.6	116410.

Sample Name: S2 Acquired: 11/14/2007 14:45:28 Type: Cal
Method: 6010K07(v8) Mode: IR Corr. Factor: 1.000000
User: admin Data File: Type*: Diln Factor:
Comment:

Elem	Ba	Be	B	Cd	Cr	Co	Cu	Pb
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.91829	.72186	.09727	2.5440	.16897	.70987	3.3318	.18911
Stddev	.00161	.00195	.00027	.0045	.00072	.00120	.0408	.00024
%RSD	.17479	.26949	.27749	.17521	.42424	.16846	1.2238	.12530
#1	.91841	.72001	.09730	2.5484	.16884	.70944	3.3353	.18885
#2	.91983	.72389	.09699	2.5394	.16833	.70895	3.3707	.18916
#3	.91663	.72168	.09753	2.5442	.16975	.71123	3.2893	.18931

Elem	Mn	Ni	Ag	Tl	V
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.05667	.65285	.20206	.13985	.15944
Stddev	.00022	.00013	.00067	.00033	.00075
%RSD	.38642	.01951	.33235	.23792	.47330
#1	.05641	.65300	.20202	.14013	.15925
#2	.05679	.65278	.20141	.13995	.15881
#3	.05679	.65277	.20275	.13948	.16028

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9937.2	8717.3	120980.
Stddev	9.6	68.3	525.
%RSD	.09651	.78342	.43417
#1	9926.4	8688.5	120690.
#2	9940.6	8668.2	121590.
#3	9944.6	8795.3	120670.

Sample Name: S5 Acquired: 11/14/2007 14:50:49 Type: Cal
Method: 6010K07(v8) Mode: IR Corr. Factor: 1.000000
User: admin Data File: Type*: Diln Factor:
Comment:

Elem	Sb	As	Mo	Se	Zn
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00771	.00489	.71968	.00481	.84593
Stddev	.00002	.00002	.00056	.00002	.00144
%RSD	.31077	.35995	.07716	.34069	.17081
#1	.00768	.00487	.71991	.00479	.84519
#2	.00773	.00491	.71905	.00482	.84500
#3	.00771	.00489	.72009	.00481	.84759

Int. Std.	Sc2273_A	Sc3645_A
Units	Cts/S	Cts/S
Avg	10239.	123430.
Stddev	19.	250.
%RSD	.18630	.20282
#1	10228.	123540.
#2	10261.	123150.
#3	10229.	123610.

Sample Name: S8 Acquired: 11/14/2007 14:56:21 Type: Cal
Method: 6010K07(v8) Mode: IR Corr. Factor: 1.000000
User: admin Data File: Type*: Diln Factor:
Comment:

Elem	Al	Ca	Fe	Mg	K	Na
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.25757	1.5714	.07098	.15084	3.1389	8.4974
Stddev	.00062	.0036	.00007	.00073	.0034	.0138
%RSD	.24242	.22974	.10211	.48406	.10863	.16213
#1	.25716	1.5751	.07097	.15167	3.1418	8.5058
#2	.25726	1.5679	.07091	.15030	3.1398	8.5049
#3	.25829	1.5713	.07106	.15054	3.1352	8.4815

Int. Std.	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S
Avg	8653.3	113100.
Stddev	79.1	353.
%RSD	.91385	.31208
#1	8565.5	112990.
#2	8719.0	113500.
#3	8675.3	112820.

Sample Name: ICV Acquired: 11/14/2007 15:01:53 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012005 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	4.8139	.50070	.49954	.48460	.50190	F .55577	.50045
Stddev	.0078	.00054	.00180	.00123	.00211	.00179	.00070
%RSD	.16146	.10834	.36023	.25368	.42048	.32180	.14040
#1	4.8202	.50043	.49889	.48359	.49997	.55778	.50007
#2	4.8162	.50034	.50158	.48597	.50415	.55437	.50126
#3	4.8052	.50132	.49816	.48426	.50159	.55514	.50001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						.50000	
Range						10.000%	

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	50.029	.49687	.49657	.47208	5.0830	.49733	48.775
Stddev	.158	.00204	.00020	.00577	.0225	.00027	.034
%RSD	.31559	.40968	.03943	1.2229	.44247	.05444	.06877
#1	49.887	.49807	.49671	.47784	5.1022	.49761	48.738
#2	50.199	.49452	.49634	.47211	5.0583	.49732	48.785
#3	50.001	.49802	.49665	.46629	5.0885	.49707	48.802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.48481	.50272	.49429	48.884	.49584	.50274	48.932
Stddev	.00241	.00061	.00066	.101	.00133	.00181	.025
%RSD	.49769	.12135	.13275	.20606	.26830	.35946	.05024
#1	.48485	.50202	.49395	49.000	.49500	.50363	48.932
#2	.48720	.50312	.49505	48.817	.49515	.50066	48.908
#3	.48238	.50302	.49387	48.836	.49737	.50394	48.957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 11/14/2007 15:01:53 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012005 Type*: Diln Factor:
Comment:

Elem	Tl	V	Zn
Units	mg/L	mg/L	mg/L
Avg	.47162	.50991	.51238
Stddev	.00018	.00203	.00064
%RSD	.03856	.39810	.12543
#1	.47161	.51114	.51195
#2	.47145	.50756	.51311
#3	.47181	.51101	.51207
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			
Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	8920.7	8562.7	113510.
Stddev	4.7	78.9	446.
%RSD	.05236	.92167	.39297
#1	8916.7	8479.5	113430.
#2	8919.5	8572.1	114000.
#3	8925.8	8636.5	113120.

Sample Name: ICB Acquired: 11/14/2007 15:07:13 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012006 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00457	.00081	.00161	-.00092	-.00008	-.00096	.00003
Stddev	.00095	.00178	.00049	.00012	.00012	.00034	.00002
%RSD	20.856	220.80	30.393	12.991	139.45	35.904	64.417
#1	-.00351	-.00027	.00216	-.00084	-.00020	-.00107	.00003
#2	-.00485	.00286	.00144	-.00087	-.00007	-.00057	.00001
#3	-.00536	-.00017	.00123	-.00106	.00002	-.00123	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	F -.31313	.00027	-.00003	-.00035	.00218	-.00024	F -.12720
Stddev	.00386	.00004	.00009	.00043	.00100	.00084	.12253
%RSD	1.2319	15.278	300.94	121.78	45.866	355.53	96.331
#1	-.30954	.00023	-.00012	-.00076	.00172	-.00018	.01074
#2	-.31721	.00027	.00006	-.00037	.00149	.00057	-.22346
#3	-.31265	.00032	-.00003	.00009	.00333	-.00110	-.16887
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	.10000						.10000
Low Limit	-.10000						-.10000

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00119	.00005	-.00020	-.04979	-.00134	.00042	F -.62943
Stddev	.00069	.00005	.00009	.04631	.00117	.00017	.01344
%RSD	57.858	98.699	46.584	93.015	87.225	40.723	2.1360
#1	-.00135	.00009	-.00013	-.02742	-.00256	.00031	-.64495
#2	-.00043	.00005	-.00017	-.01891	-.00123	.00061	-.62163
#3	-.00178	.00000	-.00031	-.10304	-.00023	.00033	-.62170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Sample Name: ICB Acquired: 11/14/2007 15:07:13 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012006 Type*: Diln Factor:
Comment:

Elem	Tl	V	Zn
Units	mg/L	mg/L	mg/L
Avg	.00045	.00008	-.00112
Stddev	.00056	.00020	.00006
%RSD	124.95	255.88	5.6564
#1	.00059	.00009	-.00119
#2	-.00017	.00027	-.00110
#3	.00093	-.00013	-.00107
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9688.7	8547.4	118740.
Stddev	25.4	81.5	528.
%RSD	.26202	.95383	.44497
#1	9667.2	8460.6	119000.
#2	9682.1	8559.3	118130.
#3	9716.7	8622.3	119090.

Sample Name: CCV Acquired: 11/14/2007 15:12:46 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012007 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	4.8191	.48622	.49154	.48556	.49426	.51026	.50760	49.517
Stddev	.0109	.00360	.00074	.00167	.00262	.00174	.00019	.083
%RSD	.22635	.73939	.15144	.34413	.52990	.34084	.03720	.16792
#1	4.8240	.48278	.49088	.48557	.49461	.50838	.50750	49.609
#2	4.8067	.48995	.49234	.48389	.49148	.51062	.50782	49.495
#3	4.8268	.48593	.49140	.48723	.49668	.51180	.50748	49.447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.48106	.49447	.45844	4.8736	.48480	49.014	.47632	.51735
Stddev	.00207	.00044	.00548	.0126	.00101	.059	.00407	.00073
%RSD	.43076	.08875	1.1954	.25822	.20752	.12073	.85383	.14063
#1	.47867	.49439	.46412	4.8631	.48422	48.995	.47242	.51655
#2	.48210	.49407	.45802	4.8875	.48422	49.080	.48054	.51797
#3	.48240	.49494	.45318	4.8701	.48596	48.967	.47600	.51753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.49506	48.205	.49507	.48800	48.611	.46915	.49834	.50321
Stddev	.00036	.280	.00506	.00109	.144	.00040	.00224	.00041
%RSD	.07266	.58109	1.0227	.22369	.29660	.08603	.44917	.08154
#1	.49515	48.498	.48939	.48679	48.741	.46945	.49604	.50276
#2	.49536	47.940	.49668	.48891	48.456	.46930	.49847	.50331
#3	.49466	48.177	.49912	.48829	48.636	.46869	.50052	.50356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV Acquired: 11/14/2007 15:12:46 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012007 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9031.9	8694.6	115890.
Stddev	29.5	96.5	262.
%RSD	.32648	1.1097	.22591
#1	9007.2	8595.7	115960.
#2	9024.0	8699.6	115600.
#3	9064.5	8788.5	116100.

Sample Name: CCB Acquired: 11/14/2007 15:18:06 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012008 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00474	.00125	-.00030	-.00074	.00008	-.00065	.00007
Stddev	.00074	.00092	.00050	.00052	.00030	.00012	.00000
%RSD	15.532	73.478	164.56	70.117	379.76	18.729	6.1243
#1	-.00389	.00024	-.00081	-.00014	.00005	-.00066	.00007
#2	-.00522	.00147	-.00026	-.00101	.00039	-.00076	.00007
#3	-.00509	.00204	.00017	-.00108	-.00021	-.00052	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	F -.29668	.00006	.00012	-.00027	.00149	-.00008	F -.17345
Stddev	.01176	.00009	.00016	.00008	.00143	.00035	.06384
%RSD	3.9631	149.03	135.74	28.167	95.640	443.48	36.808
#1	-.30962	.00015	.00001	-.00025	.00201	-.00048	-.14765
#2	-.29377	-.00002	.00005	-.00036	-.00012	.00012	-.24615
#3	-.28665	.00005	.00030	-.00021	.00258	.00013	-.12653
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	.10000						.10000
Low Limit	-.10000						-.10000

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00167	.00001	.00023	-.05180	-.00030	.00023	F -.64566
Stddev	.00193	.00015	.00017	.02652	.00038	.00019	.01673
%RSD	115.05	1193.6	74.524	51.193	126.67	83.494	2.5918
#1	-.00055	-.00004	.00009	-.06685	-.00009	.00037	-.66365
#2	-.00057	-.00011	.00018	-.06738	-.00007	.00001	-.64279
#3	-.00390	.00018	.00042	-.02118	-.00074	.00030	-.63055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Sample Name: CCB Acquired: 11/14/2007 15:18:06 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012008 Type*: Diln Factor:
Comment:

Elem	Tl	V	Zn
Units	mg/L	mg/L	mg/L
Avg	.00095	.00006	-.00119
Stddev	.00074	.00010	.00004
%RSD	77.902	161.03	3.3389
#1	.00165	.00016	-.00123
#2	.00017	-.00003	-.00115
#3	.00103	.00005	-.00119
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			
Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9993.3	8728.6	121590.
Stddev	24.2	82.0	335.
%RSD	.24194	.93911	.27580
#1	9970.0	8641.9	121330.
#2	10018.	8739.0	121970.
#3	9991.6	8804.8	121460.

Sample Name: ICSAI Acquired: 11/14/2007 15:23:39 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012009 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	451.55	.00172	-.00684	-.00155	-.00026	-.04893	.00377	471.34
Stddev	2.44	.00306	.00316	.00012	.00041	.00022	.00019	.83
%RSD	.54136	177.33	46.133	7.4476	157.65	.45798	4.9808	.17710
#1	450.69	-.00161	-.00725	-.00168	-.00004	-.04897	.00358	472.29
#2	454.31	.00439	-.00350	-.00148	.00000	-.04869	.00376	470.99
#3	449.65	.00239	-.00978	-.00148	-.00073	-.04914	.00396	470.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00037	.00031	.00263	186.08	-.01772	498.41	-.00101	-.00205
Stddev	.00019	.00035	.00012	.27	.00087	1.06	.00130	.00033
%RSD	49.574	112.76	4.5293	.14527	4.9044	.21267	128.91	15.992
#1	.00026	.00033	.00276	186.37	-.01714	497.19	-.00245	-.00167
#2	.00059	-.00005	.00261	185.84	-.01872	498.92	-.00064	-.00223
#3	.00027	.00065	.00252	186.02	-.01729	499.11	.00007	-.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00009	.00596	.00436	.00003	-.50653	-.00065	.00016	.00576
Stddev	.00025	.07106	.00242	.00011	.01946	.00111	.00005	.00007
%RSD	283.92	1191.6	55.598	438.39	3.8412	171.92	30.777	1.2279
#1	-.00036	-.04272	.00240	-.00010	-.51825	.00056	.00017	.00576
#2	.00014	.08750	.00707	.00007	-.51727	-.00088	.00010	.00583
#3	-.00005	-.02689	.00360	.00011	-.48407	-.00163	.00019	.00569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSAI Acquired: 11/14/2007 15:23:39 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012009 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	7611.1	8236.0	102860.
Stddev	19.2	60.6	227.
%RSD	.25177	.73521	.22059
#1	7630.3	8178.9	102640.
#2	7611.1	8229.7	103100.
#3	7592.0	8299.5	102840.

Sample Name: ICSABI Acquired: 11/14/2007 15:29:14 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012010 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	453.38	1.0393	1.0381	.52629	.49915	.49386	1.0354	471.74
Stddev	2.27	.0080	.0042	.00050	.00163	.00024	.0012	1.88
%RSD	.50169	.77498	.40286	.09516	.32557	.04927	.11256	.39897
#1	451.13	1.0360	1.0363	.52668	.49899	.49385	1.0360	470.15
#2	455.68	1.0484	1.0429	.52572	.49762	.49410	1.0341	471.25
#3	453.33	1.0333	1.0351	.52646	.50085	.49361	1.0362	473.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.48994	.49971	.47363	187.28	.94975	497.55	.47030	1.0733
Stddev	.00130	.00074	.00413	.65	.00023	.93	.00351	.0004
%RSD	.26463	.14895	.87130	.34960	.02422	.18628	.74729	.03540
#1	.48993	.49920	.47737	187.18	.94954	496.54	.46750	1.0737
#2	.49124	.49936	.46921	187.97	.94999	497.74	.47424	1.0730
#3	.48865	.50056	.47431	186.67	.94971	498.37	.46916	1.0731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.98751	81.849	1.0320	1.1137	80.790	.91329	.50828	1.0179
Stddev	.00062	.126	.0099	.0008	.123	.00423	.00115	.0011
%RSD	.06266	.15404	.96029	.07621	.15177	.46303	.22547	.11005
#1	.98704	81.785	1.0234	1.1136	80.650	.91293	.50758	1.0191
#2	.98729	81.768	1.0429	1.1146	80.843	.91769	.50960	1.0177
#3	.98821	81.994	1.0297	1.1129	80.878	.90926	.50765	1.0168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSABI Acquired: 11/14/2007 15:29:14 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012010 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	7393.0	8059.3	100200.
Stddev	16.0	37.8	586.
%RSD	.21708	.46875	.58472
#1	7374.5	8016.8	100300.
#2	7401.7	8089.1	99568.
#3	7402.8	8071.9	100730.

Sample Name: CCV1 Acquired: 11/14/2007 15:34:40 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012011 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	4.8812	.48803	.49077	.48049	.49273	.51563	.50538	49.590
Stddev	.0172	.00384	.00412	.00229	.00017	.00160	.00056	.200
%RSD	.35311	.78663	.83969	.47728	.03485	.31093	.11115	.40231
#1	4.8706	.48820	.48892	.48266	.49278	.51647	.50495	49.468
#2	4.9011	.48411	.48791	.48070	.49287	.51663	.50518	49.820
#3	4.8719	.49178	.49550	.47809	.49254	.51378	.50601	49.481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.48635	.49390	.46493	4.9198	.48357	49.329	.47830	.51555
Stddev	.00043	.00035	.00551	.0159	.00093	.286	.00716	.00061
%RSD	.08836	.07186	1.1841	.32303	.19280	.57983	1.4970	.11793
#1	.48681	.49431	.46805	4.9054	.48295	49.081	.48621	.51623
#2	.48627	.49373	.46817	4.9369	.48464	49.265	.47227	.51537
#3	.48596	.49367	.45858	4.9171	.48311	49.642	.47643	.51506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.49231	48.286	.49327	.49343	48.519	.46845	.50165	.50127
Stddev	.00047	.315	.00364	.00039	.250	.00082	.00041	.00072
%RSD	.09460	.65317	.73823	.07890	.51615	.17564	.08130	.14392
#1	.49281	48.262	.49431	.49326	48.410	.46888	.50118	.50206
#2	.49189	48.613	.48922	.49316	48.806	.46897	.50194	.50064
#3	.49221	47.983	.49628	.49388	48.343	.46750	.50182	.50111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV1 Acquired: 11/14/2007 15:34:40 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012011 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	8936.0	8504.9	114180.
Stddev	18.0	82.2	466.
%RSD	.20129	.96659	.40807
#1	8928.0	8420.4	114130.
#2	8923.4	8509.7	114670.
#3	8956.6	8584.6	113740.

Sample Name: CCB1 Acquired: 11/14/2007 15:40:02 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012012 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00504	.00053	.00153	-.00107	.00005	-.00087	.00009
Stddev	.00019	.00046	.00142	.00031	.00022	.00023	.00006
%RSD	3.7506	86.914	92.689	28.766	456.49	26.223	64.821
#1	.00486	.00105	.00063	-.00141	.00018	-.00089	.00003
#2	.00504	.00014	.00079	-.00083	.00018	-.00108	.00014
#3	.00523	.00042	.00316	-.00095	-.00021	-.00063	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	F -.29738	.00022	.00004	-.00030	.00450	-.00019	-.08508
Stddev	.00399	.00018	.00003	.00027	.00215	.00014	.04401
%RSD	1.3429	80.225	83.750	89.593	47.695	74.855	51.732
#1	-.30143	.00039	.00004	-.00001	.00636	-.00017	-.07187
#2	-.29727	.00004	.00007	-.00054	.00215	-.00006	-.04918
#3	-.29344	.00023	.00001	-.00036	.00500	-.00034	-.13418
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.10000						
Low Limit	-.10000						

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00140	.00002	-.00002	.01064	.00025	.00013	F -.63373
Stddev	.00137	.00006	.00006	.05377	.00072	.00014	.00191
%RSD	98.005	271.62	297.72	505.26	288.03	106.89	.30171
#1	-.00229	.00002	-.00006	.06721	-.00042	.00001	-.63175
#2	.00018	-.00003	-.00006	-.03980	.00015	.00029	-.63557
#3	-.00209	.00008	.00005	.00451	.00101	.00010	-.63386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Sample Name: CCB1 Acquired: 11/14/2007 15:40:02 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012012 Type*: Diln Factor:
Comment:

Elem	Tl	V	Zn
Units	mg/L	mg/L	mg/L
Avg	.00052	.00008	-.00118
Stddev	.00028	.00015	.00002
%RSD	53.657	203.49	1.6322
#1	.00050	.00000	-.00119
#2	.00080	-.00003	-.00115
#3	.00025	.00025	-.00118
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			
Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9865.0	8585.5	120800.
Stddev	9.1	91.1	342.
%RSD	.09195	1.0615	.28329
#1	9875.4	8497.6	120460.
#2	9861.0	8579.4	121140.
#3	9858.6	8679.5	120810.

Sample Name: CCV3 Acquired: 11/14/2007 17:48:24 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012035 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	4.9065	.49719	.49729	.48054	.49862	.52276	.51162	49.447
Stddev	.0105	.00212	.00270	.00103	.00206	.00129	.00068	.370
%RSD	.21319	.42581	.54247	.21421	.41299	.24594	.13342	.74886
#1	4.9132	.49755	.49647	.48169	.50008	.52321	.51087	49.408
#2	4.9117	.49492	.49509	.47970	.49626	.52375	.51179	49.098
#3	4.8944	.49910	.50030	.48023	.49951	.52130	.51220	49.835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.48777	.49891	.47887	4.9887	.48985	49.953	.48090	.52348
Stddev	.00011	.00015	.00439	.0036	.00063	.308	.00176	.00096
%RSD	.02284	.03023	.91709	.07143	.12870	.61680	.36585	.18318
#1	.48764	.49908	.48389	4.9891	.48933	49.619	.48286	.52258
#2	.48781	.49880	.47574	4.9921	.49055	50.013	.47945	.52336
#3	.48785	.49884	.47698	4.9850	.48967	50.227	.48040	.52449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.49806	48.643	.50053	.49460	48.801	.47620	.49952	.52889
Stddev	.00050	.188	.00250	.00070	.191	.00110	.00079	.00104
%RSD	.09951	.38646	.49885	.14113	.39212	.23119	.15754	.19584
#1	.49811	48.719	.49772	.49525	48.906	.47553	.49988	.52872
#2	.49853	48.429	.50249	.49469	48.580	.47561	.49862	.52795
#3	.49754	48.782	.50138	.49386	48.916	.47747	.50007	.53000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV3 Acquired: 11/14/2007 17:48:24 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012035 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	8848.8	8470.4	114360.
Stddev	3.7	82.4	115.
%RSD	.04167	.97290	.10043
#1	8846.1	8394.8	114310.
#2	8853.0	8558.3	114490.
#3	8847.2	8458.0	114280.

Sample Name: CCB3 Acquired: 11/14/2007 17:53:45 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012036 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00985	.00073	-.00033	-.00107	.00032	.00049	.00006
Stddev	.00111	.00077	.00117	.00041	.00037	.00015	.00003
%RSD	11.224	106.01	358.90	38.074	115.94	31.068	48.157
#1	-.00901	.00014	-.00131	-.00072	.00019	.00062	.00002
#2	-.01110	.00045	-.00063	-.00096	.00074	.00053	.00007
#3	-.00944	.00160	.00096	-.00151	.00003	.00032	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	F -.30718	.00022	-.00004	-.00016	-.00002	-.00061	F -.14728
Stddev	.00749	.00013	.00006	.00030	.00450	.00020	.12913
%RSD	2.4375	57.851	172.77	184.76	25081.	32.531	87.677
#1	-.29855	.00014	-.00001	.00018	-.00059	-.00084	-.23268
#2	-.31191	.00037	.00001	-.00036	.00475	-.00051	.00127
#3	-.31108	.00016	-.00011	-.00032	-.00420	-.00048	-.21045
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	.10000						.10000
Low Limit	-.10000						-.10000

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00229	.00008	-.00009	-.05696	-.00135	.00028	F -.66328
Stddev	.00231	.00012	.00014	.08160	.00139	.00005	.00312
%RSD	101.01	151.09	147.69	143.26	102.53	16.705	.47103
#1	-.00126	.00008	-.00024	-.10858	-.00123	.00032	-.66318
#2	-.00067	-.00004	-.00006	.03712	-.00280	.00023	-.66646
#3	-.00493	.00020	.00002	-.09942	-.00003	.00028	-.66021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Sample Name: CCB3 Acquired: 11/14/2007 17:53:45 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012036 Type*: Diln Factor:
Comment:

Elem	Tl	V	Zn
Units	mg/L	mg/L	mg/L
Avg	.00059	.00024	-.00083
Stddev	.00031	.00010	.00002
%RSD	51.894	40.283	2.9356
#1	.00079	.00035	-.00084
#2	.00024	.00017	-.00084
#3	.00074	.00020	-.00080
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			
Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9863.8	8664.8	122660.
Stddev	28.5	58.4	147.
%RSD	.28923	.67365	.11990
#1	9871.1	8597.4	122730.
#2	9832.4	8697.0	122760.
#3	9888.0	8700.0	122490.

Sample Name: IPK010WB Acquired: 11/14/2007 17:59:20 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012037 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.01016	.00069	-.00079	-.00085	-.00001	-.00022	.00006
Stddev	.00092	.00102	.00082	.00026	.00007	.00016	.00007
%RSD	9.0226	147.80	104.02	31.161	682.98	70.308	118.90
#1	-.01067	-.00041	.00006	-.00061	-.00004	-.00006	.00009
#2	-.00911	.00088	-.00085	-.00081	.00007	-.00038	.00011
#3	-.01071	.00159	-.00157	-.00113	-.00006	-.00024	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	F -.29110	.00013	-.00003	-.00040	-.00281	.00025	F -.12974
Stddev	.01747	.00014	.00017	.00029	.00159	.00058	.02676
%RSD	6.0001	110.06	563.96	73.592	56.382	230.62	20.623
#1	-.30402	-.00002	.00000	-.00014	-.00255	.00050	-.15868
#2	-.29805	.00015	.00012	-.00071	-.00137	.00066	-.12466
#3	-.27123	.00026	-.00021	-.00034	-.00451	-.00041	-.10590
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	.10000						.10000
Low Limit	-.10000						-.10000

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00202	-.00001	.00001	-.06078	.00067	.00007	F -.64979
Stddev	.00145	.00011	.00009	.00602	.00086	.00013	.00706
%RSD	71.589	1553.2	650.41	9.8967	127.36	189.30	1.0864
#1	-.00118	-.00010	.00000	-.06539	.00158	.00005	-.65588
#2	-.00369	-.00003	-.00007	-.05398	.00056	-.00005	-.65143
#3	-.00119	.00012	.00011	-.06298	-.00012	.00021	-.64205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Sample Name: IPK010WB Acquired: 11/14/2007 17:59:20 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012037 Type*: Diln Factor:
Comment:

Elem	Tl	V	Zn
Units	mg/L	mg/L	mg/L
Avg	.00044	.00002	-.00026
Stddev	.00040	.00012	.00005
%RSD	91.195	599.76	19.619
#1	.00009	.00013	-.00032
#2	.00036	.00004	-.00024
#3	.00088	-.00010	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			
Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9915.4	8813.1	123210.
Stddev	12.6	33.1	331.
%RSD	.12720	.37547	.26899
#1	9925.8	8777.1	123590.
#2	9919.0	8819.9	123050.
#3	9901.4	8842.2	122980.

Sample Name: IPK010WL Acquired: 11/14/2007 18:04:55 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012038 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	9.4720	5.0101	.99489	.96099	1.0256	1.0678	1.0272	49.718
Stddev	.0317	.0264	.00558	.00201	.0022	.0031	.0002	.283
%RSD	.33504	.52762	.56083	.20935	.21858	.29415	.01616	.56854
#1	9.4980	5.0315	.99783	.96332	1.0272	1.0709	1.0271	49.854
#2	9.4813	5.0183	.99839	.95990	1.0265	1.0678	1.0271	49.906
#3	9.4366	4.9805	.98846	.95977	1.0231	1.0646	1.0274	49.393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.98483	1.0142	.98686	10.185	1.0013	49.765	.97488	1.0371
Stddev	.00066	.0004	.01436	.009	.0004	.164	.00037	.0006
%RSD	.06653	.03563	1.4548	.09073	.03736	.32937	.03804	.06063
#1	.98433	1.0139	.99960	10.176	1.0017	49.675	.97461	1.0368
#2	.98460	1.0146	.98967	10.195	1.0011	49.954	.97530	1.0366
#3	.98558	1.0140	.97131	10.185	1.0010	49.666	.97473	1.0378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	1.0052	48.630	.97565	.97453	48.984	.96182	1.0042	1.0438
Stddev	.0004	.344	.00528	.00145	.208	.00176	.0010	.0006
%RSD	.04040	.70788	.54089	.14885	.42446	.18309	.09739	.05628
#1	1.0056	48.812	.97860	.97511	49.091	.96046	1.0040	1.0435
#2	1.0052	48.846	.97880	.97560	49.116	.96120	1.0052	1.0435
#3	1.0048	48.233	.96956	.97288	48.744	.96381	1.0033	1.0445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: IPK010WL Acquired: 11/14/2007 18:04:55 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012038 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	8406.8	8282.9	112280.
Stddev	13.0	132.2	505.
%RSD	.15420	1.5956	.44942
#1	8400.6	8155.7	111840.
#2	8421.6	8273.5	112170.
#3	8398.0	8419.6	112830.

Sample Name: IPK010WC Acquired: 11/14/2007 18:10:15 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012039 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	9.2521	4.8749	.96984	.94715	.99883	1.0279	1.0077	48.495
Stddev	.0105	.0376	.00506	.00348	.00304	.0061	.0021	.380
%RSD	.11376	.77019	.52222	.36690	.30426	.59144	.20359	.78322
#1	9.2633	4.9091	.97538	.94328	.99579	1.0333	1.0087	48.503
#2	9.2506	4.8810	.96871	.94815	.99882	1.0290	1.0053	48.111
#3	9.2424	4.8347	.96544	.95002	1.0019	1.0213	1.0091	48.871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.94151	.98976	.95734	9.8905	.97958	48.350	.96194	1.0221
Stddev	.00444	.00157	.01123	.0248	.00080	.411	.00585	.0013
%RSD	.47183	.15885	1.1729	.25069	.08167	.85109	.60797	.12736
#1	.94502	.99129	.97029	9.9150	.98018	48.119	.95528	1.0235
#2	.94300	.98815	.95147	9.8912	.97990	48.825	.96621	1.0209
#3	.93651	.98985	.95027	9.8654	.97867	48.106	.96434	1.0220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.98534	46.949	.94295	.93283	47.473	.94395	.96126	1.0310
Stddev	.00080	.228	.00673	.00558	.099	.00200	.00440	.0006
%RSD	.08071	.48612	.71410	.59769	.20797	.21175	.45768	.05520
#1	.98482	47.046	.94867	.93788	47.560	.94611	.96356	1.0306
#2	.98496	46.688	.94466	.93376	47.366	.94356	.96404	1.0316
#3	.98626	47.112	.93553	.92685	47.493	.94217	.95619	1.0308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: IPK010WC Acquired: 11/14/2007 18:10:15 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012039 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	8550.7	8456.7	114870.
Stddev	23.6	118.4	853.
%RSD	.27630	1.4005	.74253
#1	8523.5	8324.1	114000.
#2	8565.4	8494.0	114910.
#3	8563.2	8552.0	115700.

Sample Name: J393-02A Acquired: 11/14/2007 18:15:36 Type: Unk
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012040 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	9.6428	5.1811	1.2044	1.1754	.98582	3.3881	1.0046	85.354
Stddev	.0047	.0384	.0068	.0029	.00172	.0091	.0007	.121
%RSD	.04894	.74030	.56490	.24314	.17410	.26706	.06850	.14179
#1	9.6470	5.1377	1.1965	1.1724	.98444	3.3827	1.0054	85.217
#2	9.6377	5.1954	1.2082	1.1781	.98774	3.3832	1.0044	85.401
#3	9.6439	5.2103	1.2085	1.1758	.98527	3.3986	1.0041	85.445

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.93271	.96627	.89486	14.559	.96314	94.077	1.0796	1.0616
Stddev	.00092	.00138	.00833	.040	.00148	.218	.0038	.0012
%RSD	.09857	.14304	.93135	.27621	.15362	.23152	.34873	.11094
#1	.93213	.96696	.90343	14.513	.96227	94.171	1.0806	1.0605
#2	.93224	.96468	.89437	14.573	.96230	94.232	1.0828	1.0615
#3	.93377	.96718	.88678	14.589	.96485	93.828	1.0755	1.0628

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.96299	78.050	1.0582	.95833	462.21	.89735	.95904	1.0271
Stddev	.00022	.446	.0039	.00144	1.50	.00057	.00154	.0016
%RSD	.02319	.57116	.37093	.15044	.32403	.06394	.16047	.15293
#1	.96302	77.969	1.0538	.95999	461.43	.89669	.96022	1.0287
#2	.96275	78.531	1.0596	.95759	463.94	.89773	.95730	1.0270
#3	.96319	77.651	1.0613	.95741	461.27	.89762	.95960	1.0256

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	8699.2	9036.6	115500.
Stddev	8.2	84.9	264.
%RSD	.09386	.93905	.22834
#1	8701.3	8960.1	115800.
#2	8706.0	9021.9	115380.
#3	8690.1	9127.8	115310.

Sample Name: J393-02 Acquired: 11/14/2007 18:20:54 Type: Unk
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012041 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00486	.00253	.15740	.23921	-.00016	2.3331	.00024	39.508
Stddev	.00059	.00010	.00189	.00149	.00024	.0038	.00001	.222
%RSD	12.063	3.8435	1.2007	.62337	151.47	.16233	3.0876	.56221
#1	.00523	.00247	.15623	.24077	-.00027	2.3290	.00024	39.762
#2	.00419	.00265	.15639	.23907	-.00033	2.3338	.00023	39.348
#3	.00518	.00249	.15958	.23779	.00012	2.3365	.00023	39.415

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00075	-.00007	.00051	5.0221	-.00073	46.143	.15122	.05945
Stddev	.00005	.00019	.00005	.0166	.00123	.167	.00381	.00026
%RSD	6.4579	286.83	9.1051	.33137	169.01	.36116	2.5186	.43663
#1	.00075	.00011	.00047	5.0376	.00052	45.971	.15528	.05971
#2	.00080	-.00004	.00051	5.0242	-.00076	46.304	.15066	.05919
#3	.00071	-.00027	.00056	5.0045	-.00195	46.155	.14773	.05945

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00181	27.540	-.00119	.00042	425.04	.00183	-.00005	.00132
Stddev	.00015	.034	.00140	.00041	1.49	.00107	.00013	.00009
%RSD	8.5799	.12493	116.94	97.070	.35105	58.476	254.91	6.9632
#1	.00167	27.579	-.00273	.00082	426.75	.00059	-.00005	.00135
#2	.00178	27.529	-.00084	.00043	424.38	.00246	.00008	.00139
#3	.00197	27.513	-.00001	.00000	423.99	.00242	-.00018	.00122

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9071.2	9311.2	119480.
Stddev	49.1	62.7	206.
%RSD	.54153	.67316	.17281
#1	9015.7	9240.0	119650.
#2	9088.6	9357.9	119250.
#3	9109.1	9335.7	119530.

Sample Name: J393-02J Acquired: 11/14/2007 18:26:22 Type: Unk
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012042 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00493	.00218	.02845	.04708	-.00010	.45720	.00006	7.6914
Stddev	.00075	.00144	.00055	.00046	.00014	.00172	.00002	.0348
%RSD	15.286	66.060	1.9505	.96752	144.90	.37626	34.414	.45282
#1	.00492	.00372	.02879	.04698	.00007	.45802	.00008	7.6662
#2	.00418	.00085	.02875	.04758	-.00018	.45522	.00007	7.6768
#3	.00569	.00198	.02781	.04669	-.00017	.45834	.00004	7.7311

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00018	-.00006	.00079	1.0273	.00025	9.0700	.02599	.01161
Stddev	.00007	.00012	.00023	.0051	.00052	.2159	.00041	.00008
%RSD	41.055	194.47	29.424	.49920	210.37	2.3800	1.5667	.68699
#1	.00025	-.00018	.00092	1.0304	-.00028	8.8870	.02567	.01168
#2	.00017	-.00007	.00052	1.0213	.00076	9.0149	.02645	.01163
#3	.00011	.00006	.00094	1.0300	.00026	9.3081	.02585	.01153

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00156	5.0236	-.00059	.00013	87.470	.00043	.00005	.00125
Stddev	.00016	.0467	.00068	.00013	.167	.00041	.00021	.00010
%RSD	10.225	.93003	115.32	97.252	.19079	97.048	384.73	7.8157
#1	.00149	4.9708	.00007	.00019	87.283	.00049	-.00011	.00120
#2	.00144	5.0595	-.00128	-.00001	87.603	-.00001	.00028	.00136
#3	.00174	5.0407	-.00055	.00022	87.526	.00081	-.00001	.00118

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9604.3	9531.3	125110.
Stddev	14.7	37.8	217.
%RSD	.15256	.39700	.17369
#1	9620.8	9496.4	125020.
#2	9599.3	9525.8	125360.
#3	9592.8	9571.5	124960.

Sample Name: CCV4 Acquired: 11/14/2007 18:54:22 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012047 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	5.1763	.50562	.49447	.47998	.49753	.53486	.50801	48.927
Stddev	.0175	.00104	.00027	.00164	.00167	.00199	.00031	.236
%RSD	.33838	.20508	.05403	.34110	.33651	.37216	.06158	.48177
#1	5.1770	.50443	.49436	.48173	.49691	.53314	.50784	48.923
#2	5.1935	.50606	.49478	.47970	.49943	.53704	.50837	49.165
#3	5.1585	.50635	.49428	.47849	.49625	.53441	.50783	48.694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.48831	.49678	.49501	5.0370	.49145	49.960	.47724	.52362
Stddev	.00115	.00036	.00820	.0187	.00106	.430	.00806	.00018
%RSD	.23516	.07174	1.6568	.37072	.21478	.86052	1.6886	.03495
#1	.48726	.49679	.49966	5.0260	.49089	49.715	.46899	.52346
#2	.48954	.49712	.49983	5.0586	.49078	50.456	.48509	.52358
#3	.48813	.49641	.48554	5.0265	.49266	49.708	.47765	.52382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.49411	49.113	.50234	.50317	49.221	.48142	.49740	.50655
Stddev	.00073	.359	.00115	.00137	.246	.00091	.00066	.00032
%RSD	.14844	.73080	.22988	.27232	.49884	.18874	.13231	.06335
#1	.49372	49.209	.50358	.50272	49.326	.48228	.49668	.50627
#2	.49496	49.415	.50130	.50471	49.397	.48152	.49756	.50690
#3	.49365	48.716	.50213	.50208	48.941	.48047	.49796	.50648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV4 Acquired: 11/14/2007 18:54:22 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012047 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	8800.9	8518.0	114980.
Stddev	12.3	119.1	186.
%RSD	.14007	1.3979	.16217
#1	8787.5	8435.9	115070.
#2	8803.4	8463.5	114760.
#3	8811.8	8654.5	115100.

Sample Name: CCB4 Acquired: 11/14/2007 18:59:43 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012048 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00899	.00114	-.00037	-.00091	.00001	.00048	.00004
Stddev	.00029	.00079	.00109	.00074	.00030	.00030	.00002
%RSD	3.1822	69.656	296.60	81.863	2982.6	62.428	46.830
#1	-.00902	.00115	.00088	-.00145	-.00003	.00057	.00005
#2	-.00869	.00192	-.00091	-.00122	.00033	.00072	.00005
#3	-.00926	.00034	-.00108	-.00006	-.00027	.00014	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	F -.30382	.00011	-.00002	.00014	-.00159	-.00004	F -.18284
Stddev	.00375	.00015	.00026	.00029	.00035	.00041	.03650
%RSD	1.2344	144.97	1318.6	199.30	22.171	1006.3	19.963
#1	-.30685	.00027	-.00003	.00018	-.00199	-.00036	-.18458
#2	-.30497	-.00004	.00025	.00041	-.00132	.00043	-.21844
#3	-.29962	.00008	-.00027	-.00016	-.00146	-.00019	-.14551
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	.10000						.10000
Low Limit	-.10000						-.10000

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00176	.00005	-.00018	-.02809	-.00084	.00019	F -.54290
Stddev	.00328	.00007	.00018	.03181	.00190	.00009	.01312
%RSD	185.84	136.95	105.20	113.23	226.98	50.816	2.4174
#1	-.00301	.00013	.00002	-.01663	.00078	.00028	-.53129
#2	-.00423	.00000	-.00035	-.00361	-.00037	.00019	-.54026
#3	.00196	.00002	-.00019	-.06404	-.00293	.00009	-.55714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Sample Name: CCB4 Acquired: 11/14/2007 18:59:43 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012048 Type*: Diln Factor:
Comment:

Elem	Tl	V	Zn
Units	mg/L	mg/L	mg/L
Avg	.00083	-.00006	-.00021
Stddev	.00034	.00039	.00006
%RSD	40.876	677.80	27.903
#1	.00100	-.00014	-.00017
#2	.00104	-.00040	-.00018
#3	.00044	.00037	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			
Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9843.6	8661.9	122660.
Stddev	28.2	85.3	563.
%RSD	.28600	.98501	.45870
#1	9847.5	8575.2	122060.
#2	9813.7	8664.8	122760.
#3	9869.6	8745.7	123180.

Sample Name: K017-02 Acquired: 11/14/2007 19:16:19 Type: Unk
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012051 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.02726	.00045	.00153	-.00081	.00017	.00693	.00013	-.14134
Stddev	.00167	.00074	.00050	.00100	.00019	.00007	.00004	.01587
%RSD	6.1256	166.37	32.994	123.50	113.22	1.0000	30.497	11.228
#1	.02649	.00108	.00095	-.00191	.00026	.00699	.00008	-.15316
#2	.02612	-.00037	.00185	-.00059	-.00005	.00686	.00014	-.12330
#3	.02918	.00062	.00178	.00006	.00031	.00694	.00016	-.14755

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00142	.00003	.00214	.15260	-.00046	-.14407	.00452	.00007
Stddev	.00004	.00007	.00006	.00060	.00008	.03504	.00170	.00008
%RSD	3.1208	263.49	2.6937	.39040	18.020	24.319	37.718	126.93
#1	.00140	.00010	.00207	.15203	-.00052	-.15091	.00552	.00008
#2	.00139	.00003	.00218	.15322	-.00050	-.17519	.00549	-.00002
#3	.00147	-.00005	.00216	.15254	-.00037	-.10612	.00255	.00014

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00035	.32832	-.00075	.00027	-.30543	.00147	.00037	.00492
Stddev	.00006	.00693	.00063	.00008	.00651	.00040	.00019	.00002
%RSD	16.815	2.1110	84.399	29.993	2.1328	27.109	51.845	.32207
#1	.00034	.32034	-.00004	.00021	-.30291	.00119	.00028	.00492
#2	.00030	.33183	-.00094	.00025	-.30055	.00129	.00060	.00493
#3	.00042	.33279	-.00127	.00037	-.31283	.00192	.00024	.00490

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	10695.	8882.5	124050.
Stddev	40.	60.3	186.
%RSD	.36937	.67935	.14997
#1	10739.	8835.4	124010.
#2	10664.	8861.7	123890.
#3	10682.	8950.5	124250.

Sample Name: K017-03 Acquired: 11/14/2007 19:21:54 Type: Unk
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012052 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	2.1397	-.00009	.00422	.08389	.00031	.27455	.00007	15.010
Stddev	.0035	.00149	.00167	.00042	.00015	.00052	.00003	.056
%RSD	.16296	1609.0	39.483	.49980	46.227	.19083	38.964	.37457
#1	2.1437	-.00177	.00241	.08405	.00039	.27501	.00008	15.069
#2	2.1372	.00042	.00570	.08420	.00015	.27465	.00009	15.004
#3	2.1382	.00108	.00454	.08341	.00040	.27398	.00004	14.957

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00120	.00124	.00360	2.1218	.00137	.44398	.05605	.02677
Stddev	.00021	.00005	.00005	.0022	.00082	.07956	.00168	.00007
%RSD	17.249	3.9429	1.5010	.10481	59.681	17.921	2.9903	.27318
#1	.00096	.00119	.00362	2.1217	.00225	.38247	.05766	.02685
#2	.00133	.00126	.00353	2.1240	.00063	.41562	.05616	.02673
#3	.00131	.00128	.00363	2.1196	.00124	.53383	.05432	.02672

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00382	2.0078	-.00185	-.00005	125.82	.00114	.03900	.03195
Stddev	.00012	.0122	.00050	.00020	.49	.00047	.00012	.00014
%RSD	3.1634	.60637	27.167	418.08	.38559	40.958	.29573	.43780
#1	.00385	1.9939	-.00159	.00010	126.34	.00164	.03902	.03182
#2	.00369	2.0134	-.00153	-.00027	125.72	.00071	.03910	.03193
#3	.00393	2.0162	-.00242	.00003	125.39	.00107	.03887	.03210

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9741.0	9333.3	123880.
Stddev	13.8	66.8	339.
%RSD	.14154	.71570	.27398
#1	9739.9	9273.9	124270.
#2	9727.8	9320.5	123640.
#3	9755.3	9405.6	123730.

Sample Name: ICSAF Acquired: 11/14/2007 19:49:41 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012057 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	467.48	.00284	-.00564	-.00214	-.00004	-.04316	.00537	465.72
Stddev	1.21	.00258	.00189	.00032	.00010	.00026	.00008	.55
%RSD	.25784	91.020	33.500	15.187	234.91	.59321	1.4393	.11856
#1	468.87	-.00007	-.00636	-.00205	-.00007	-.04290	.00532	466.29
#2	466.78	.00486	-.00350	-.00250	.00007	-.04341	.00546	465.69
#3	466.79	.00373	-.00707	-.00187	-.00012	-.04318	.00533	465.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00018	.00026	.00274	188.99	-.01771	508.58	-.00399	-.00198
Stddev	.00004	.00007	.00001	.46	.00048	1.35	.00317	.00053
%RSD	20.607	26.409	.44165	.24190	2.7177	.26530	79.594	27.018
#1	.00019	.00018	.00272	189.49	-.01782	507.11	-.00759	-.00242
#2	.00014	.00028	.00274	188.59	-.01813	509.75	-.00279	-.00213
#3	.00021	.00031	.00275	188.89	-.01718	508.89	-.00159	-.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00005	.07123	.00664	-.00034	-.32010	-.00076	-.00030	-.00609
Stddev	.00015	.02081	.00160	.00020	.00437	.00098	.00021	.00024
%RSD	336.88	29.219	24.153	59.788	1.3644	128.62	70.136	4.0108
#1	-.00013	.04999	.00810	-.00030	-.31573	-.00129	-.00045	-.00621
#2	.00013	.09159	.00492	-.00056	-.32011	.00037	-.00006	-.00581
#3	-.00014	.07212	.00691	-.00016	-.32447	-.00135	-.00038	-.00625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSAF Acquired: 11/14/2007 19:49:41 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012057 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	7315.6	7951.9	102270.
Stddev	8.9	71.1	535.
%RSD	.12225	.89356	.52333
#1	7305.4	7874.8	101650.
#2	7321.9	7966.1	102570.
#3	7319.5	8014.7	102590.

Sample Name: ICSABF Acquired: 11/14/2007 19:55:15 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012058 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	463.27	1.0502	1.0256	.51572	.49805	.49703	1.0339	455.35
Stddev	3.65	.0052	.0054	.00189	.00213	.00083	.0011	1.25
%RSD	.78853	.49169	.52881	.36667	.42717	.16672	.10389	.27487
#1	460.50	1.0535	1.0308	.51589	.49822	.49799	1.0351	456.78
#2	461.90	1.0528	1.0262	.51375	.50010	.49653	1.0336	454.47
#3	467.41	1.0442	1.0199	.51752	.49585	.49658	1.0330	454.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.47409	.49226	.49723	187.28	.95203	500.76	.46696	1.0723
Stddev	.00054	.00065	.00661	.34	.00412	.11	.00526	.0013
%RSD	.11396	.13296	1.3296	.18016	.43269	.02206	1.1257	.12317
#1	.47448	.49298	.50461	187.47	.95481	500.79	.47124	1.0736
#2	.47431	.49169	.49524	187.48	.95397	500.86	.46109	1.0710
#3	.47347	.49211	.49184	186.89	.94730	500.64	.46856	1.0723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.97692	80.971	1.0256	1.0866	79.572	.92272	.48509	1.0437
Stddev	.00079	.611	.0056	.0032	.341	.00046	.00141	.0010
%RSD	.08044	.75511	.54210	.29168	.42892	.05012	.29044	.09651
#1	.97779	81.632	1.0285	1.0899	79.949	.92219	.48497	1.0427
#2	.97627	80.857	1.0291	1.0835	79.484	.92294	.48375	1.0436
#3	.97670	80.425	1.0192	1.0864	79.284	.92303	.48656	1.0447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSABF Acquired: 11/14/2007 19:55:15 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012058 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	7331.2	8049.8	102750.
Stddev	7.3	99.4	156.
%RSD	.09974	1.2344	.15229
#1	7327.1	7940.7	102570.
#2	7339.6	8073.3	102810.
#3	7326.9	8135.2	102870.

Sample Name: CCV5 Acquired: 11/14/2007 20:00:41 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012059 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	5.2172	.50650	.49289	.47019	.49437	.53166	.49724	48.182
Stddev	.0372	.00432	.00288	.00166	.00254	.00184	.00086	.094
%RSD	.71272	.85317	.58521	.35379	.51353	.34567	.17344	.19465
#1	5.2029	.51138	.49619	.46932	.49217	.53234	.49636	48.224
#2	5.2595	.50316	.49082	.46914	.49715	.53306	.49728	48.247
#3	5.1894	.50496	.49168	.47211	.49379	.52958	.49808	48.075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.48704	.48737	.49672	5.0359	.48690	49.726	.46930	.51363
Stddev	.00017	.00056	.00848	.0167	.00054	.264	.00176	.00105
%RSD	.03433	.11422	1.7062	.33247	.11063	.53097	.37582	.20443
#1	.48714	.48692	.50307	5.0549	.48752	49.959	.46940	.51252
#2	.48684	.48719	.49999	5.0292	.48653	49.781	.46749	.51376
#3	.48713	.48799	.48709	5.0234	.48666	49.439	.47101	.51460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Ni	K	Se	Ag	Na	Tl	V	Zn
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.48550	48.733	.49760	.50130	48.566	.47542	.49232	.49987
Stddev	.00019	.164	.00311	.00227	.070	.00115	.00121	.00098
%RSD	.03831	.33561	.62505	.45345	.14507	.24113	.24612	.19643
#1	.48567	48.794	.49983	.50043	48.543	.47410	.49139	.49878
#2	.48553	48.857	.49405	.50387	48.645	.47613	.49369	.50070
#3	.48530	48.547	.49893	.49958	48.510	.47603	.49188	.50011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV5 Acquired: 11/14/2007 20:00:41 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012059 Type*: Diln Factor:
Comment:

Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	8769.5	8395.4	113920.
Stddev	36.7	123.9	413.
%RSD	.41872	1.4758	.36296
#1	8811.7	8286.6	113450.
#2	8744.9	8369.4	114240.
#3	8751.8	8530.3	114060.

Sample Name: CCB5 Acquired: 11/14/2007 20:06:02 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012060 Type*: Diln Factor:
Comment:

Elem	Al	Sb	As	Ba	Be	B	Cd
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	.00295	.00094	-.00002	-.00087	.00021	-.00064	.00004
Stddev	.00157	.00106	.00128	.00046	.00004	.00011	.00005
%RSD	53.251	112.80	7105.7	53.007	16.965	17.912	131.08
#1	.00119	.00110	-.00115	-.00126	.00018	-.00072	.00008
#2	.00343	-.00019	-.00027	-.00036	.00025	-.00069	.00004
#3	.00421	.00191	.00136	-.00100	.00021	-.00051	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca	Cr	Co	Cu	Fe	Pb	Mg
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	F -.30779	-.00002	.00005	.00001	.00162	.00022	F -.19234
Stddev	.00385	.00010	.00008	.00014	.00125	.00054	.03710
%RSD	1.2508	453.04	151.46	1023.4	76.833	240.26	19.290
#1	-.30657	-.00004	.00010	.00017	.00173	-.00034	-.23304
#2	-.30469	-.00011	-.00004	-.00008	.00282	.00028	-.16039
#3	-.31210	.00008	.00010	-.00005	.00033	.00073	-.18360
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	.10000						.10000
Low Limit	-.10000						-.10000

Elem	Mn	Mo	Ni	K	Se	Ag	Na
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avg	-.00078	.00007	-.00005	.01631	-.00016	.00027	F -.58933
Stddev	.00071	.00015	.00005	.05409	.00108	.00023	.01970
%RSD	91.317	206.78	90.397	331.75	679.76	84.255	3.3435
#1	-.00112	-.00007	.00000	.05249	.00073	.00022	-.60357
#2	.00004	.00022	-.00009	-.04588	.00016	.00052	-.56684
#3	-.00125	.00005	-.00006	.04230	-.00136	.00007	-.59758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.10000
Low Limit							-.10000

Sample Name: CCB5 Acquired: 11/14/2007 20:06:02 Type: QC
Method: 6010K07(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Data File: ID8K012060 Type*: Diln Factor:
Comment:

Elem	Tl	V	Zn
Units	mg/L	mg/L	mg/L
Avg	.00081	-.00003	-.00153
Stddev	.00049	.00022	.00008
%RSD	59.998	728.81	5.3914
#1	.00057	-.00026	-.00159
#2	.00049	.00017	-.00143
#3	.00137	.00000	-.00155
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			
Int. Std.	Sc2273_A	Sc3613_R	Sc3645_A
Units	Cts/S	Cts/S	Cts/S
Avg	9535.8	8339.7	117600.
Stddev	5.8	88.1	585.
%RSD	.06110	1.0570	.49746
#1	9529.1	8256.6	116930.
#2	9538.7	8330.5	117980.
#3	9539.6	8432.1	117890.

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No.4 ☑ EMAX-3010 Rev. No. 3 ☐ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: WATER Start Date: 11-6-7 Time: 13:10 Temp: 90 °C Ending Date: 11-6-7 Time: 17:10 Temp.: 90 °C

BATCH: TPK010-WJ

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g|ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	TPK010-WB					50	—	50		
02	↓ -WL					50	—	50		
03	↓ -WC					50	—	50		
04	J955-02					50	<2	50		
05	↓ -03					50	↓	50		
06	↓ -04					50	↓	50		
07	J363-03 TOTAL					50	↓	50		
08	↓ -03M ↓					50	↓	50		
09	↓ -03S ↓					50	↓	50		
10	J363-03 DISS					50	↓	50		
11	↓ -03M ↓					50	↓	50		
12	↓ -03S ↓					50	↓	50		
13	J394-02					50	↓	50		
14	↓ -03					50	↓	50		
15	↓ -03M					50	↓	50		
16	↓ -03S					50	↓	50		
17	J549-01					50	↓	50		
18	J393-02					50	↓	50		
19	↓ -03					50	↓	50		
20	↓ -04					50	↓	50		
21	K008-03					50	↓	50		
22	↓ -04					50	↓	50		
23	K017-02					50	↓	50		
24	↓ -03					50	↓	50		
25			11/6/7 MC							

Standards	ID	Amount Added (ml)
LCS -1	SMIA-10-99	0.5
LCS -2	SMIA-10-98	0.5
LCS -3	SMIA-10-97	0.5
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SWIA-02-645	1.5+1.5
HCl	SWIA-03-612	2.5
H_2O_2	N/A	
HNO3 (1:1)	N/A	

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 11/6/7

Checked By: CPC

Date Disposed: Disposed by:

7085

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07K017**

METHOD 7470A
MERCURY BY COLD VAPOR

Two (2) water samples were received on 11/01/07 for Mercury analysis by Method 7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample J363-03 from another SDG was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

MS/MSD sample was not designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07K017
Instrument ID : TI047

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGK011WB	1	NA	11/06/0717:27	11/06/0713:00	M47K006024	M47K006020	HGK011W	Method Blank
LCS1W	HGK011WL	1	NA	11/06/0717:29	11/06/0713:00	M47K006025	M47K006020	HGK011W	Lab Control Sample (LCS)
LCD1W	HGK011WC	1	NA	11/06/0717:31	11/06/0713:00	M47K006026	M47K006020	HGK011W	LCS Duplicate
U8-008AS	J363-03A	1	NA	11/06/0717:33	11/06/0713:00	M47K006027	M47K006020	HGK011W	Analytical Spike Sample
U8-008	J363-03	1	NA	11/06/0717:36	11/06/0713:00	M47K006028	M47K006020	HGK011W	Field Sample
U8-008DL	J363-03J	5	NA	11/06/0717:37	11/06/0713:00	M47K006029	M47K006020	HGK011W	Diluted Sample
LEB1-103107	K017-02	1	NA	11/06/0718:04	11/06/0713:00	M47K006042	M47K006032	HGK011W	Field Sample
SB4-66'	K017-03	1	NA	11/06/0718:06	11/06/0713:00	M47K006043	M47K006032	HGK011W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07K017

Matrix : WATER
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGK011WB	ND	1	NA	0.500	0.100	11/06/0717:27	11/06/0713:00	M47K006024	M47K006020	HGK011W	NA	11/06/07
LCS1W	HGK011WL	5.14	1	NA	0.500	0.100	11/06/0717:29	11/06/0713:00	M47K006025	M47K006020	HGK011W	NA	11/06/07
LCD1W	HGK011WC	5.39	1	NA	0.500	0.100	11/06/0717:31	11/06/0713:00	M47K006026	M47K006020	HGK011W	NA	11/06/07
LEB1-103107	K017-02	ND	1	NA	0.500	0.100	11/06/0718:04	11/06/0713:00	M47K006042	M47K006032	HGK011W	10/31/07	11/01/07
SB4-66'	K017-03	ND	1	NA	0.500	0.100	11/06/0718:06	11/06/0713:00	M47K006043	M47K006032	HGK011W	10/31/07	11/01/07

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K017
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGK011WB	HGK011WL	HGK011WC		
LAB FILE ID:	M47K006024	M47K006025	M47K006026		
DATIME EXTRCTD:	11/06/0713:00	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/06/0717:27	11/06/0717:29	11/06/0717:31	DATE RECEIVED:	11/06/07
PREP. BATCH:	HGK011W	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020	M47K006020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	5.14	103	5.00	5.39	108	5	80-120	20

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EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K017
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	U8-008	U8-008DL		
EMAX SAMP ID:	J363-03	J363-03J		
LAB FILE ID:	M47K006028	M47K006029		
DATE EXTRACTED:	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	10/29/07
DATE ANALYZED:	11/06/0717:36	11/06/0717:37	DATE RECEIVED:	10/30/07
PREP. BATCH:	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SERIAL DIL RSLT (ug/L)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

7099

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K017
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	U8-008			
CONTROL NO.:	J363-03	J363-03A		
LAB FILE ID:	M47K006028	M47K006027		
DATIME EXTRCTD:	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	10/29/07
DATIME ANALYZD:	11/06/0717:36	11/06/0717:33	DATE RECEIVED:	10/30/07
PREP. BATCH:	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	AS RSLT (ug/L)	AS % REC	QC LIMIT (%)
Mercury	ND	2.00	2.08	104	85-115

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/6/07 **Start Time:** 16:33

End Date: 11/6/07 **End Time:** 19:40

Comments:

QC OK

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47K006

Method File: Hg

SOP #	Rev. #
☑ EMAX-7470	3
☐ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-715
S3	↓
S4	
S5	
S6	
ICV	SM3B-07-716
CCV	↓
LCS	
Analytical Spike	
	SM3B-07-686

Analyzed By: NT

Date: 11/6/07

"M47K006"

EMAX1fid	EMAX1sid	conc	Raw_resp	rsd/rf	adatetime	DF
M47K006000	STD1REP1	0	309		11/06/0716:33	1
M47K006001	STD2REP1	.2	13652		11/06/0716:35	1
M47K006002	STD3REP1	1	50519		11/06/0716:37	1
M47K006003	STD4REP1	2	100009		11/06/0716:39	1
M47K006004	STD5REP1	5	247407		11/06/0716:41	1
M47K006005	STD6REP1	10	486043		11/06/0716:43	1
M47K006006	ICV	2.05	101952	0	11/06/0716:52	1
M47K006007	ICB	-.001	2576	0	11/06/0716:53	1
M47K006008	CCV1	5.06	247681	0	11/06/0716:55	1
M47K006009	CCB1	-.052	81	0	11/06/0716:58	1
M47K006010	HGK010WB	-.017	1811	0	11/06/0717:00	1
M47K006011	HGK010WL	5.1	249606	0	11/06/0717:02	1
M47K006012	HGK010WC	5.1	249975	0	11/06/0717:04	1
M47K006013	TXK001SB	-.032	1076	0	11/06/0717:06	1
M47K006014	K007-01A	2.18	108086	0	11/06/0717:08	1
M47K006015	K007-01	-.029	1241	0	11/06/0717:10	1
M47K006016	K007-01J	.007	2987	0	11/06/0717:12	5
M47K006017	K007-01M	5.47	267860	0	11/06/0717:14	1
M47K006018	K007-01S	5.24	256661	0	11/06/0717:16	1
M47K006019	K002-01A	2.12	105574	0	11/06/0717:18	1
M47K006020	CCV2	5.23	255954	0	11/06/0717:19	1
M47K006021	CCB2	-.04	670	0	11/06/0717:21	1
M47K006022	K002-01	-.062	-375	0	11/06/0717:23	1
M47K006023	K002-01J	.002	2712	0	11/06/0717:25	5
M47K006024	HGK011WB	-.001	2575	0	11/06/0717:27	1
M47K006025	HGK011WL	5.14	251913	0	11/06/0717:29	1
M47K006026	HGK011WC	5.39	263700	0	11/06/0717:31	1
M47K006027	J363-03A	2.08	103654	0	11/06/0717:33	1
M47K006028	J363-03	-.02	1648	0	11/06/0717:36	1
M47K006029	J363-03J	-.061	-330	0	11/06/0717:37	5
M47K006030	J363-03M	5.38	263582	0	11/06/0717:39	1
M47K006031	J363-03S	5.36	262397	0	11/06/0717:41	1
M47K006032	CCV3	5.2	254841	0	11/06/0717:43	1
M47K006033	CCB3	-.027	1334	0	11/06/0717:46	1
M47K006034	J345-02	.003	2791	0	11/06/0717:48	1
M47K006035	J549-01	.072	6130	0	11/06/0717:50	1
M47K006036	J385-02	.001	2687	0	11/06/0717:52	1
M47K006037	J955-02	.007	2957	0	11/06/0717:54	1
M47K006038	J955-03	.034	4287	0	11/06/0717:56	1
M47K006039	J955-04	1.62	81095	0	11/06/0717:58	1
M47K006040	K051-03	-.014	1927	0	11/06/0718:00	1
M47K006041	J393-04	-.004	2425	0	11/06/0718:02	1
M47K006042	K017-02	-.013	1996	0	11/06/0718:04	1
M47K006043	K017-03	.026	3868	0	11/06/0718:06	1
M47K006044	CCV4	5.22	255832	0	11/06/0718:08	1
M47K006045	CCB4	.015	3351	0	11/06/0718:10	1
M47K006046	K038-01	-.054	-13	0	11/06/0718:12	1
M47K006047	K033-02	.021	3635	0	11/06/0718:14	1
M47K006048	K047-04	.022	3683	0	11/06/0718:16	1
M47K006049	K047-05	.033	4210	0	11/06/0718:18	1
M47K006050	K047-06	-.004	2447	0	11/06/0718:21	1
M47K006051	K047-07	-.029	1205	0	11/06/0718:23	1
M47K006052	K047-08	-.049	237	0	11/06/0718:25	1
M47K006053	K047-09	-.011	2109	0	11/06/0718:27	1
M47K006054	K410-01	.053	5217	0	11/06/0718:29	1
M47K006055	HGK012WB	-.014	1948	0	11/06/0718:31	1
M47K006056	CCV5	5.16	252873	0	11/06/0718:33	1
M47K006057	CCB5	-.007	2299	0	11/06/0718:35	1
M47K006058	HGK012WL	5.25	257134	0	11/06/0718:37	1
M47K006059	HGK012WC	5.41	264798	0	11/06/0718:39	1
M47K006060	K032-04A	2.12	105201	0	11/06/0718:41	1
M47K006061	K032-04	-.016	1848	0	11/06/0718:43	1
M47K006062	K032-04J	.017	3452	0	11/06/0718:45	5
M47K006063	K032-04M	5.51	269492	0	11/06/0718:47	1
M47K006064	K032-04S	5.51	269658	0	11/06/0718:49	1
M47K006065	K032-05	-.074	-942	0	11/06/0718:51	1
M47K006066	K021-02	-.004	2432	0	11/06/0718:53	1
M47K006067	K021-03	-.047	361	0	11/06/0718:55	1
M47K006068	CCV6	5.34	261677	0	11/06/0718:58	1
M47K006069	CCB6	-.018	1730	0	11/06/0719:00	1
M47K006070	K021-04	-.035	905	0	11/06/0719:02	1
M47K006071	K021-05	-.024	1481	0	11/06/0719:04	1
M47K006072	K021-06	-.025	1397	0	11/06/0719:06	1
M47K006073	K021-08	-.032	1076	0	11/06/0719:08	1
M47K006074	J391-01	.013	3260	0	11/06/0719:10	1

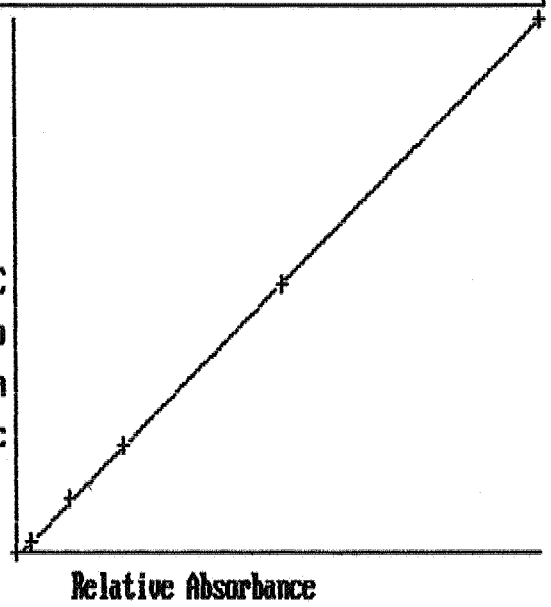
M47K006075	J391-02	-.014	1971	0	11/06/0719:12	1
M47K006076	J391-03	-.012	2045	0	11/06/0719:14	1
M47K006077	J391-05	.014	3290	0	11/06/0719:16	1
M47K006078	J391-06	.026	3885	0	11/06/0719:18	1
M47K006079	J391-07	.022	3688	0	11/06/0719:20	1
M47K006080	CCV7	5.3	259596	0	11/06/0719:22	1
M47K006081	CCB7	-.042	613	0	11/06/0719:24	1
M47K006082	K003-01	.011	3156	0	11/06/0719:26	1
M47K006083	K003-02	-.019	1699	0	11/06/0719:28	1
M47K006084	K003-03	.025	3814	0	11/06/0719:30	1
M47K006085	K003-04	.01	3133	0	11/06/0719:32	1
M47K006086	K003-06	.017	3463	0	11/06/0719:34	1
M47K006087	K003-07	.005	2875	0	11/06/0719:36	1
M47K006088	CCV8	5.25	256904	0	11/06/0719:38	1
M47K006089	CCB8	-.04	681	0	11/06/0719:40	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47K006000	BLANK	-5.443732E-02	2638.44	.9999567	11/06/0719:40	1

RunProt: HGCUM
RunFold: M47K006 Seq: 6 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 16:44:05 06 Nov 2007 Xmit: Off Gas: 0.35 LPM
State: Idle User: MT\TH A/S: On

CALIBRATION: Line proto: HGCUM

	Hg Conc.	Calc.	Dev.	Accepted ->linear
S1	.000	-.048	-.048	Quadratic
S2	.200	.227	.027	Wtdlinear
S3	1.00	.988	-.012	
S4	2.00	2.01	.009	Accept
S5	5.00	5.05	.050	
S6	10.0	9.97	-.027	

A .0000000 r .999957
B 2.06306e-5 C -5.41697e-2



	Mean			
S1	309	0	SD	309
S2	13652	0	%RSD	13652
S3	50519	0	%RSD	50519
S4	100009	0	%RSD	100009
S5	247407	0	%RSD	247407
S6	486043	0	%RSD	486043

New cal coefficients stored

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/6/07 Time: 13:00 Ending Date: 11/6/07 Time: 15:30 Book # E47-058

BATCH: HGK011W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (~~g~~ ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	75	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK011WB				50					
12	WL									
13	WC									
14	J363-03						<2			
15	03M						<2			
16	03S						<2			
17	J345-02						<2			
18	J549-01	Bn	Td				<2			
19	J385-02	Cr	Cr				<2			
20	J955-02						<2			
21	03						<2			
22	04						<2			
23	K051-03						<2			
24	J393-04						<2			
25	K017-02						<2			
26	03						<2			
27	K038-01						<2			
28	K033-02						<2			

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL	SM3B-07-715	50	0.2,1,2,5,10
ICV	SM3B-07-716		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3	SW1A-03-601		
HCl	N/A		
H_2SO_4	SW1A-03-617		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$		76	
$NH_2OH.HCl$		75	
$SnCl_2$		68	
Temp of Digestion Bath:	95 °C		

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7696

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/6/07 Time: 13:00 Ending Date: 11/6/07 Time: 15:30 Book # E47-058

BATCH: HGK011W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g | ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	K047-04	Cr	Cr	N/A	50	N/A	<2	75	Cr	Cr
02	05						<2			
03	06						<2			
04	07						<2			
05	08						<2			
06	09						<2			
07	K410-01	Yw	Td				10			
08										
09										
10										
11										
12										
13										
14										
15										
16						NT				
17						11/6/07				
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL			
ICV			
CCV/MS			
LCS			
Reagent		Lot# / ID	
HNO_3			
HCl			
H_2SO_4			
$KMnO_4$			
$K_2S_2O_8$			
$NH_2OH.HCl$			
$SnCl_2$			
Temp of Digestion Bath:	°C		
Legend			

SAME AS PAGE 81

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

1097

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 314.0
PERCHLORATE

SDG#: 07K017

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07K017

METHOD 314.0
PERCHLORATE

Two (2) water samples were received on 11/01/07 for Perchlorate analysis by Method 314.0 in accordance with "Method for Determination of Perchlorate by Ion Chromatography", EPA 600/98-118.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at half of the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control sample results were within QC limits.

4. Duplicate

No Duplicate sample was designated in this SDG.

5. Matrix Spike

No MS sample was designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07K017

Matrix : WATER
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCK003WB	ND	1	NA	2.00	0.500	11/06/0714:37	NA	JK06002	JK06001	PCK003W	NA	NA
LCS1W	PCK003WL	22.3	1	NA	2.00	0.500	11/06/0715:19	NA	JK06004	JK06001	PCK003W	NA	NA
LCD1W	PCK003WC	23.1	1	NA	2.00	0.500	11/06/0715:40	NA	JK06005	JK06001	PCK003W	NA	NA
LEB1-103107	K017-02	ND	1	NA	2.00	0.500	11/06/0720:29	NA	JK06016	JK06012	PCK003W	10/31/0709:00	11/01/07
MBLK2W	PCK007WB	ND	1	NA	2.00	0.500	11/09/0716:28	NA	JK08052	JK08048	PCK007W	NA	NA
LCS2W	PCK007WL	21.9	1	NA	2.00	0.500	11/09/0715:46	NA	JK08050	JK08048	PCK007W	NA	NA
LCD2W	PCK007WC	21.9	1	NA	2.00	0.500	11/09/0716:07	NA	JK08051	JK08048	PCK007W	NA	NA
SB4-66'	K017-03	3270	200	NA	400	100	11/09/0700:32	NA	JK08033	JK08025	PCK007W	10/31/0709:16	11/01/07

QC SUMMARY

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K017
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	PCK003WB	PCK003WL	PCK003WC		
LAB FILE ID:	JK06002	JK06004	JK06005		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/06/0714:37	11/06/0715:19	11/06/0715:40	DATE RECEIVED:	NA
PREP. BATCH:	PCK003W	PCK003W	PCK003W		
CALIB. REF:	JK06001	JK06001	JK06001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	22.3	89	25.0	23.1	92	4	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K017
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	PCK007WB	PCK007WL	PCK007WC		
LAB FILE ID:	JK08052	JK08050	JK08051		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/09/0716:28	11/09/0715:46	11/09/0716:07	DATE RECEIVED:	NA
PREP. BATCH:	PCK007W	PCK007W	PCK007W		
CALIB. REF:	JK08048	JK08048	JK08048		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	21.9	88	25.0	21.9	88	0	85-115	20

INITIAL CALIBRATION

IC SEQ FORM (ESD)

LFID	LSID	SELCOMP	METHOD	DateTime	DF
JI07001	IB	P	IC57I07	09/07/0712:02	1
JI07002	S-0.0	P	IC57I07	09/07/0712:23	1
JI07003	S-2.0	P	IC57I07	09/07/0712:44	1
JI07004	S-4.0	P	IC57I07	09/07/0713:06	1
JI07005	S-10.0	P	IC57I07	09/07/0713:27	1
JI07006	S-25.0	P	IC57I07	09/07/0713:48	1
JI07007	S-30.0	P	IC57I07	09/07/0714:09	1
JI07008	ICV	P	IC57I07	09/07/0714:30	1
JI07009	ICB	P	IC57I07	09/07/0715:14	1

pu 9-7-07

Method : c:\ezchrom\methods\ic57i07.met
Printed : Sep 07, 2007 15:50:05
Channel : A
Peak : PERCHLORATE

* - Replicate Not Used

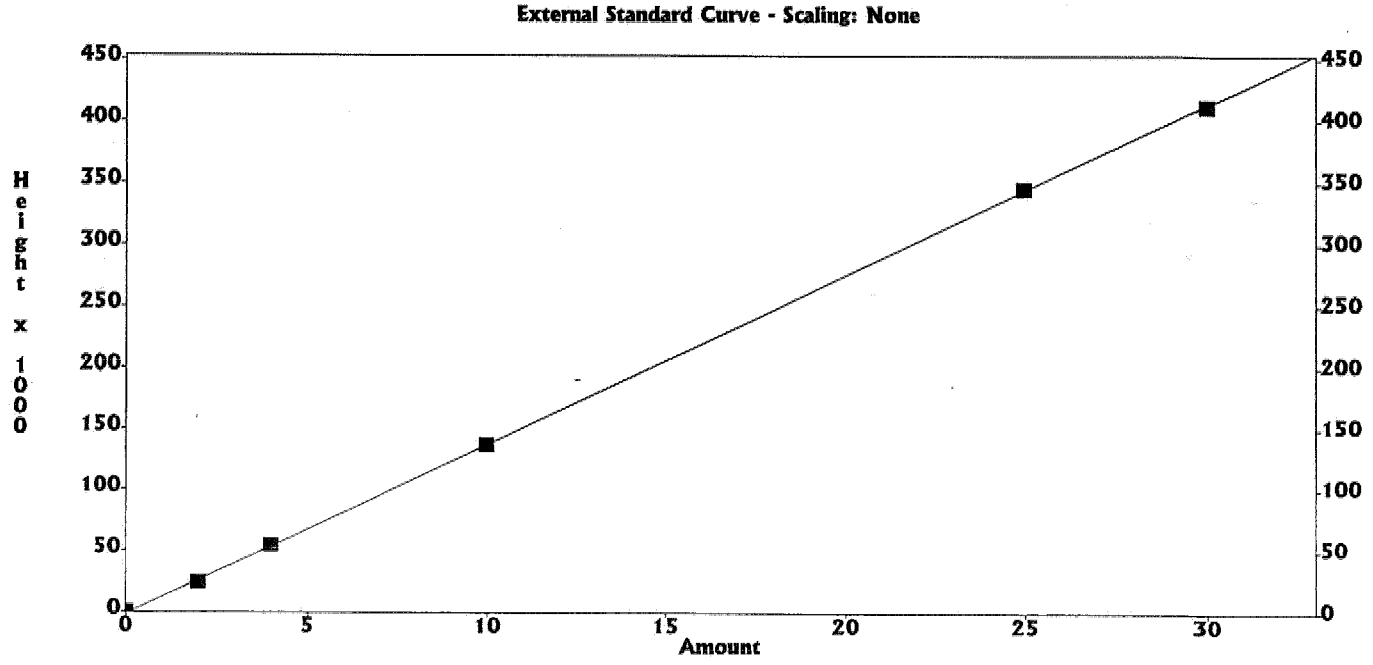
Level	Height	Amount	RF	Rep Hgt 1	Rep Hgt 2	Rep Hgt 3	Rep Hgt 4	Rep Hgt 5	Replic STD	Replic %RSD	Old Height
2	24283	2	12141.50	24283							0
3	54790	4	13697.50	54790							0
4	137022	10	13702.20	137022							0
5	345226	25	13809.04	345226							0
6	412192	30	13739.73	412192							0

Calib Flag: Replace

Average RF: 13418
RF StdDev: 714.977
RF %RSD: 5.328

RF Definition: Height / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 7.22736e-005 x Height + 0.128135
R^2 = 0.999945



RW 9-7-07

8009

SECOND SOURCE

IC RESULT FORM CalVersion: PCHLO314.I07/JI07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JI07001	IB	P	.000	09/07/0712:02	1
JI07002	S-0.0	P	.0000	09/07/0712:23	1
JI07003	S-2.0	P	2	09/07/0712:44	1
JI07004	S-4.0	P	4	09/07/0713:06	1
JI07005	S-10.0	P	10	09/07/0713:27	1
JI07006	S-25.0	P	25	09/07/0713:48	1
JI07007	S-30.0	P	30	09/07/0714:09	1
JI07008	ICV	P	95%	09/07/0714:30	1
JI07009	ICB	P	.000	09/07/0715:14	1

DAILY CALIBRATION

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK08001	NO	P	.000	11/08/0712:29	1
JK08002	IPCS	P	82%	11/08/0713:06	1
JK08003	TEST	P	12	11/08/0713:43	1
JK08004	MRL	P	104%	11/08/0714:04	1
JK08005	PCK006SL	P	23.3	11/08/0714:25	1
JK08006	PCK006SC	P	23.5	11/08/0714:46	1
JK08007	PCK006SB	P	.000	11/08/0715:09	1
JK08008	J955-05	P	.000	11/08/0715:30	1
JK08009	J955-06	P	.000	11/08/0715:54	1
JK08010	J955-07	P	2.38	11/08/0716:15	1
JK08011	NO	P	2.38	11/08/0716:15	1
JK08012	J955-09	P	.000	11/08/0716:57	1
JK08013	RINSE	P	1.63	11/08/0717:18	1
JK08014	CCV60-30	P	91%	11/08/0717:39	1
JK08015	J955-08	P	.000	11/08/0718:00	1
JK08016	J955-08D	P	.000	11/08/0718:21	1
JK08017	J955-08M	P	10.2	11/08/0718:42	1
JK08018	J955-10	*	49.7E	11/08/0719:03	1
JK08019	J955-11	*	50.6E	11/08/0719:24	1
JK08020	J955-12	*	55.9E	11/08/0719:45	1
JK08021	NO	*	55.9E	11/08/0719:45	1
JK08022	J955-14	*	61E	11/08/0720:41	1
JK08023	J955-15	P	27.2	11/08/0721:02	1
JK08024	J955-13	*	62.7E	11/08/0721:23	1
JK08025	CCV61-15	P	94.5%	11/08/0721:44	1
JK08026	J955-16	P	3.17	11/08/0722:05	1
JK08027	J955-17	*	36.8E	11/08/0722:26	1
JK08028	J955-18	*	30.5E	11/08/0722:47	1
JK08029	J955-19	P	4.85	11/08/0723:08	1
JK08030	J955-20	*	63.2E	11/08/0723:29	1
JK08031	J955-21	P	6.19	11/08/0723:50	1
JK08032	J955-22	P	.000	11/09/0700:11	1
JK08033	K017-03	P	3270	11/09/0700:32	200
JK08034	J955-04	*	281000E	11/09/0700:53	5000
JK08035	J955-04	P	278000	11/09/0701:14	10000
JK08036	CCV62-30	P	.000%*	11/09/0701:35	1
JK08037	IPCS	P	82.4%	11/09/0709:39	1
JK08038	MRL	P	109%	11/09/0710:04	1
JK08039	J955-10	P	288	11/09/0710:25	20
JK08040	J955-11	*	2320E	11/09/0710:46	50
JK08041	J955-12	*	774E	11/09/0711:07	20
JK08042	J955-13	P	126	11/09/0711:28	10
JK08043	J955-14	P	100	11/09/0711:49	5
JK08044	J955-17	P	36.9	11/09/0712:10	2
JK08045	J955-18	P	30.7	11/09/0712:31	2
JK08046	J955-20	P	134	11/09/0712:52	10
JK08047	J955-11	P	2300	11/09/0713:13	100
JK08048	CCV63-15	P	89.4%*	11/09/0713:34	1
JK08049	J955-12	P	756	11/09/0713:55	100
JK08050	PCK007WL	P	21.9	11/09/0715:46	1
JK08051	PCK007WC	P	21.9	11/09/0716:07	1
JK08052	PCK007WB	P	.000	11/09/0716:28	1
JK08053	CCV64-30	P	88.4%*	11/09/0716:49	1

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK06001	IPCS	P	84.5%	11/06/0714:16	1
JK06002	PCK003WB	P	.000	11/06/0714:37	1
JK06003	MRL	P	102%	11/06/0714:58	1
JK06004	PCK003WL	P	22.3	11/06/0715:19	1
JK06005	PCK003WC	P	23.1	11/06/0715:40	1
JK06006	J344-02	P	.000	11/06/0716:15	1
JK06007	J345-02	P	.000	11/06/0716:36	1
JK06008	K042-02	P	.000	11/06/0716:57	1
JK06009	K042-03	P	4.94	11/06/0717:18	1
JK06010	J385-02	P	3.53	11/06/0717:39	1
JK06011	K042-02	P	.000	11/06/0718:00	5
JK06012	CCV49-15	P	92%	11/06/0718:21	1
JK06013	J955-02	P	.000	11/06/0719:26	1
JK06014	J955-03	P	.000	11/06/0719:47	1
JK06015	K033-02	P	.000	11/06/0720:08	1
JK06016	K017-02	P	.000	11/06/0720:29	1
JK06017	K017-03	*	45.3E	11/06/0720:50	1
JK06018	J396-01	P	51.4	11/06/0721:11	5
JK06019	J396-02	P	2.42	11/06/0721:32	1
JK06020	RINSE	P	.000	11/06/0721:53	1
JK06021	J396-02R	P	2.65	11/06/0722:14	1
JK06022	RINSE	P	.000	11/06/0722:35	1
JK06023	CCV50-30	P	88.9%*	11/06/0722:56	1
JK06024	J396-03	P	2.23	11/06/0723:17	1
JK06025	RINSE	P	.000	11/06/0723:38	1
JK06026	J396-03R	P	2.42	11/06/0723:59	1
JK06027	RINSE	P	.000	11/07/0700:20	1
JK06028	J396-01D	P	51	11/07/0700:41	5
JK06029	J396-01M	P	95	11/07/0701:02	5
JK06030	J955-04	*	.000	11/07/0701:23	5
JK06031	K042-03R	P	6.13	11/07/0701:44	1
JK06032	J344-08	*	1990E	11/07/0702:05	50
JK06033	J344-07	*	10400E	11/07/0702:26	200
JK06034	CCV51-15	P	89.8%*	11/07/0702:47	1
JK06035	J344-07D	*	10400E	11/07/0703:08	200
JK06036	J344-07M	*	12100E	11/07/0703:29	200
JK06037	J344-09	*	1090E	11/07/0703:50	20
JK06038	J344-12	*	802E	11/07/0704:11	20
JK06039	J345-06	*	763E	11/07/0704:32	20
JK06040	J345-07	P	486	11/07/0704:53	20
JK06041	J345-08	P	588	11/07/0705:15	20
JK06042	J345-09	P	412	11/07/0705:36	20
JK06043	J345-10	P	409	11/07/0705:57	20
JK06044	J345-15	P	254	11/07/0706:18	20
JK06045	CCV52-30	P	87.6%*	11/07/0706:39	1
JK06046	J345-16	P	69.4	11/07/0707:00	10
JK06047	J345-17	P	255	11/07/0707:21	20
JK06048	J345-18	P	265	11/07/0707:42	20
JK06049	J345-19	P	583	11/07/0708:03	20
JK06050	J345-20	*	766E	11/07/0708:24	20
JK06051	J345-20D	*	768E	11/07/0708:45	20
JK06052	J345-20M	*	965E	11/07/0709:06	20
JK06053	J346-01	*	1510E	11/07/0709:27	50
JK06054	CCV53-15	P	89.8%*	11/07/0709:48	1
JK06055	IPCS	P	84.7%	11/07/0712:06	1
JK06056	PCK004SB	P	.000	11/07/0712:27	1
JK06057	MRL	P	112%	11/07/0712:48	1
JK06058	PCK004SL	P	22	11/07/0713:09	1
JK06059	PCK004SC	P	21.7	11/07/0713:30	1
JK06060	J346-03	P	1.39	11/07/0713:51	1
JK06061	J346-04	P	.000	11/07/0714:12	1
JK06062	J346-05	P	.000	11/07/0714:33	1
JK06063	J346-06	P	.000	11/07/0714:54	1
JK06064	J346-07	P	.000	11/07/0715:15	1
JK06065	RINSE	P	1.22	11/07/0715:36	1
JK06066	CCV54-30	P	86.5%*	11/07/0715:57	1
JK06067	J346-08	P	.000	11/07/0716:18	1
JK06068	J346-09	P	.000	11/07/0716:39	1
JK06069	J346-10	P	.000	11/07/0717:00	1
JK06070	J346-11	P	1.55	11/07/0717:22	1
JK06071	J346-12	*	63.8E	11/07/0717:43	1
JK06072	J346-13	*	.000	11/07/0718:11	1
JK06073	J385-03	*	.000	11/07/0718:47	1
JK06074	J385-04	*	.000	11/07/0719:09	1

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: *No. OH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JI07

Method File: 1C57107

Analytical Batch: N/A

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	-988
CCV	N/A
CCV-15	N/A
CCV-30	N/A
LCS	N/A
MS	N/A
IPC	N/A
CMC	N/A
MRL	N/A

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
N/A	(±) 30	N/A

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: SA

Date: 9/7/2007

Method: Ic57i07.met Batch: Ji07.seq Data: Ji06.010 - [Batch: ji07.seq]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IB	ic57i07.met	JI07.001	1	
2	S-0.0	ic57i07.met	JI07.002	1	
3	S-2.0	ic57i07.met	JI07.003	1	
4	S-4.0	ic57i07.met	JI07.004	1	
5	S-10.0	ic57i07.met	JI07.005	1	
6	S-25.0	ic57i07.met	JI07.006	1	
7	S-30.0	ic57i07.met	JI07.007	1	
8	ICV	ic57i07.met	JI07.008	1	
9	ICB	ic57i07.met	JI07.009	1	
10	B	ic57i07.met	JI07.010	1	
11	B	ic57i07.met	JI07.011	1	
12	B	ic57i07.met	JI07.012	1	
13	B	ic57i07.met	JI07.013	1	
14	B	ic57i07.met	JI07.014	1	
15	B	ic57i07.met	JI07.015	1	
16	B	ic57i07.met	JI07.016	1	
17	B	ic57i07.met	JI07.017	1	
18	B	ic57i07.met	JI07.018	1	
19	B	ic57i07.met	JI07.019	1	
20	B	ic57i07.met	JI07.020	1	
21	B	ic57i07.met	JI07.021	1	
22	B	ic57i07.met	JI07.022	1	
23	B	ic57i07.met	JI07.023	1	
24	B	ic57i07.met	JI07.024	1	
25	B	ic57i07.met	JI07.025	1	

Instrument 1: T057

Friday, September 07, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met | Method: Ic57i05.met Bat... | 12:01 PM

8017

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK06

Method File: IC57I07

Analytical Batch: PCK003W, PCK004~~W~~S & PCK005W
ak 11/06/07

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	↓ 988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1017 ak 11/06/07
LCS	1018
MS	999
IPC	1014
CMC	SW~~8B~~ P1 - 02 - ~~987~~ 1027
MRL	SW8B-02- 1015 ak 11/06/07

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
145.8 µS/cm	(±) 30	25°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: ak

Date: 11/06/07

Method: Ic57i07.met Batch: Jk06.seq Data: Jk02.054 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4880 µS/cm	ic57i07.met	JK06.001	1	
2	PCK003WB *BAH	ic57i07.met	JK06.002	1	
3	MRL	ic57i07.met	JK06.003	1	
4	PCK003WL *BAH	ic57i07.met	JK06.004	1	
5	PCK003WC	ic57i07.met	JK06.005	1	
6	J344-02 3.10 µS/cm	ic57i07.met	JK06.006	1	
7	J345-02 2.80 µS/cm	ic57i07.met	JK06.007	1	
8	K042-02 1158 µS/cm	ic57i07.met	JK06.008	1	Rec; not used.
9	K042-03 518	ic57i07.met	JK06.009	1	Rec.
10	J385-02 aR 11/06/07 3.66 µS/cm	ic57i07.met	JK06.010	1	
11	~~RINSE~~ K042-02 DF=5	ic57i07.met	JK06.011	5→1	aR 11/06/07
12	CCV49-15	ic57i07.met	JK06.012	1	
13	J955-02 2.05 µS/cm *BAH	ic57i07.met	JK06.013	1	
14	J955-03 2.70	ic57i07.met	JK06.014	1	
15	K033-02 aR 11/06/07 3.01 µS/cm	ic57i07.met	JK06.015	1	
16	K017-02 3.35 µS/cm	ic57i07.met	JK06.016	1	
17	K017-03 572	ic57i07.met	JK06.017	1	
18	J396-01 DF=5 358 µS/cm 4 DFI	ic57i07.met	JK06.018	5	
19	J396-02 355 µS/cm	ic57i07.met	JK06.019	1	
20	RINSE	ic57i07.met	JK06.020	1	
21	J396-02R *BAH	ic57i07.met	JK06.021	1	RE-ANALYSIS (FOR CONFIRMATION)
22	RINSE	ic57i07.met	JK06.022	1	
23	CCV50-30	ic57i07.met	JK06.023	1	
24	J396-03 335 µS/cm *BAH	ic57i07.met	JK06.024	1	
25	RINSE	ic57i07.met	JK06.025	1	

Instrument 1: T057

Tuesday, November 06, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | 12:42 PM

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK08

Method File: IC57 I07

Analytical Batch: PCK0 06S & PCK007W

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-~~1016~~ 987 (el 11/08/07)
ICV	988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1017
LCS	1018
MS	999
IPC	1014
CMC	SWP1-01-127
MRL	SW8B-02-1015

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
146.0 µS/cm	(±) 30	20°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: el

Date: 11/08/07

8020

Method: Ic57i07.met Batch: Jk08.seq Data: Jk08.015 - [Batch: jk08.seq]

File Edit Method Batch Options Analysis Control Window Help

Run	Sample ID	Method	Filename	Mult.	Description
1	NO DATA	ic57i07.met	JK08.001	1	
2	IPCS 4820 µS/cm	ic57i07.met	JK08.002	1	
3	TEST	ic57i07.met	JK08.003	1	
4	MRL	ic57i07.met	JK08.004	1	
5	PCK006SL *BAH	ic57i07.met	JK08.005	1	
6	PCK006SC	ic57i07.met	JK08.006	1	
7	PCK006SB	ic57i07.met	JK08.007	1	
8	J955-05 91.8 µS/cm	ic57i07.met	JK08.008	1	
9	J955-06 57.2	ic57i07.met	JK08.009	1	
10	J955-07 106.7	ic57i07.met	JK08.010	1	
11	NO DATA 204 µS/cm	ic57i07.met	JK08.011	1	
12	J955-09 167 ok 11/8/07	ic57i07.met	JK08.012	1	
13	RINSE	ic57i07.met	JK08.013	1	
14	CCV60-30	ic57i07.met	JK08.014	1	
15	J955-08 167.5 µS/cm *BAH	ic57i07.met	JK08.015	1	
16	J955-08D	ic57i07.met	JK08.016	1	
17	J955-08M	ic57i07.met	JK08.017	1	
18	J955-10 157.7 µS/cm	ic57i07.met	JK08.018	1	
19	J955-11 174.3	ic57i07.met	JK08.019	1	
20	J955-12 130.3	ic57i07.met	JK08.020	1	
21	J955-13 111.3	ic57i07.met	JK08.021	1	
22	J955-14 110.0	ic57i07.met	JK08.022	1	
23	J955-15 73.8	ic57i07.met	JK08.023	1	
24	RINSE	ic57i07.met	JK08.024	1	
25	CCV61-15	ic57i07.met	JK08.025	1	

Instrument 1 (T057) – Running J955-08 (Run 15)...

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | Exploring - Jk08 | Thursday, November 08, 2007 6:11 PM

8021

Method: Ic57i07.met Batch: Jk08.seq Data: Jk08.052 - [Batch: jk08.seq]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
25	CCV61-15	ic57i07.met	JK08.025	1	
26	J955-16 77.2 µS/cm *BA#	ic57i07.met	JK08.026	1	
27	J955-17 123.3	ic57i07.met	JK08.027	1	
28	J955-18 110.8	ic57i07.met	JK08.028	1	
29	J955-19 130.6	ic57i07.met	JK08.029	1	
30	J955-20 50.2	ic57i07.met	JK08.030	1	
31	J955-21 120.6	ic57i07.met	JK08.031	1	
32	J955-22 112.3	ic57i07.met	JK08.032	1	
33	K017-03 DF=200	ic57i07.met	JK08.033	200	
34	J955-04 DF=5000	ic57i07.met	JK08.034	5000	
35	J955-04 DF=10000	ic57i07.met	JK08.035	10000	
36	CCV62-30	ic57i07.met	JK08.036	1	
37	IPCS 4820 µS/cm	ic57i07.met	JK08.037	1	
38	MRL	ic57i07.met	JK08.038	1	
39	J955-10 DF=20 *BA#	ic57i07.met	JK08.039	20	
40	J955-11 DF=50	ic57i07.met	JK08.040	50	
41	J955-12 DF=20	ic57i07.met	JK08.041	20	
42	J955-13 DF=10	ic57i07.met	JK08.042	10	
43	J955-14 DF=5	ic57i07.met	JK08.043	5	
44	J955-17 DF=2	ic57i07.met	JK08.044	2	
45	J955-18 DF=2	ic57i07.met	JK08.045	2	
46	J955-20 DF=10	ic57i07.met	JK08.046	10	
47	J955-11 DF=100	ic57i07.met	JK08.047	100	
48	CCV63-15	ic57i07.met	JK08.048	1	
49	J955-12 DF=100	ic57i07.met	JK08.049	50	

Instrument 1: T057

Start | EZChrom Chro... | Method: Ic5... | Method: Ic57i0... | Calculator | untitled - Paint | Friday, November 09, 2007 | 3:15 PM

8022

Method: Ic57i07.met Batch: Jk08.seq Data: Jk08.052 - [Batch: jk08.seq]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
49	J955-12 DF=100 *BA#	ic57i07.met	JK08.049	100	
50	PCK007WL	ic57i07.met	JK08.050	1	
51	PCK007WC	ic57i07.met	JK08.051	1	
52	PCK007WB	ic57i07.met	JK08.052	1	
53	CCV64-30	ic57i07.met	JK08.053	1	
54	IB	ic57i07.met	JK08.054	1	
55	IB	ic57i07.met	JK08.055	1	
56	IB	ic57i07.met	JK08.056	1	
57	IB	ic57i07.met	JK08.057	1	
58	IB	ic57i07.met	JK08.058	1	
59	IB	ic57i07.met	JK08.059	1	
60	IB	ic57i07.met	JK08.060	1	
61	IB	ic57i07.met	JK08.061	1	
62	IB	ic57i07.met	JK08.062	1	
63	IB	ic57i07.met	JK08.063	1	
64	IB	ic57i07.met	JK08.064	1	
65	IB	ic57i07.met	JK08.065	1	
66	IB	ic57i07.met	JK08.066	1	
67	IB	ic57i07.met	JK08.067	1	
68	IB	ic57i07.met	JK08.068	1	
69	IB	ic57i07.met	JK08.069	1	
70	IB	ic57i07.met	JK08.070	1	
71	IB	ic57i07.met	JK08.071	1	
72	IB	ic57i07.met	JK08.072	1	
73	IB	ic57i07.met	JK08.073	1	

Instrument 1: T057

Start | EZChrom Chromatog... | Method: Ic57i07... | Method: Ic57i07.met... | Calculator | untitled - Paint | 3:16 PM

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CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07K033**

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GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
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WET	METHOD 314.0	8000 – 8030
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 12-04-2007
EMAX Batch No.: 07K033

Attn: Michael Wilson

Tetra Tech, Inc.
348 W Hospitality Lane, Ste 100
San Bernardino CA 92408

Subject: Laboratory Report
Project: LMC Beaumont Site 2

Enclosed is the Laboratory report for samples received on 11/02/07.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
LTB-110107	K033-01	11/01/07	WATER	VOLATILE ORGANICS BY GC/MS
LEB-110107	K033-02	11/01/07	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
SB3-0.5'	K033-03	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-5	K033-04	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-10	K033-05	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-15	K033-06	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
				METALS CAM
				MERCURY
SB3-20	K033-07	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-20'DUP	K033-08	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-25	K033-09	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-25DUP	K033-10	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-30	K033-11	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-35	K033-12	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-40	K033-13	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-45	K033-14	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-50	K033-15	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-55	K033-16	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM

Sample ID	Control #	Col Date	Matrix	Analysis
				MERCURY
SB3-60	K033-17	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-65	K033-18	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-70	K033-19	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-75	K033-20	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-80	K033-21	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-85	K033-22	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-90	K033-23	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-10MS	K033-05M	11/01/07	SOIL	PERCHLORATE BY IC
				VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-10MSD	K033-05S	11/01/07	SOIL	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
SB3-10DUP	K033-05D	11/01/07	SOIL	PERCHLORATE BY IC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Acting Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: EMAX
1835 W 205 St
Torrance, CA 90501
(310) 618-8889

TT_0601_ 07K033

DATE 11-1-07 PAGE 1 OF 3

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: Paul Michalski
TC #: 19 892-03
SAMPLERS (Signature): Holly A H

TURN-AROUND TIME: 10 day Rush

OBSERVATIONS/COMMENTS: Please email prelims to David.Bertolacci@tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs & Oxygenates (SW 8260B)	Perchlorate (314.1)	Cam 17 metals (6000/7000 series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	
1.	LTB-110107	11-01-07	800	X			U	W	G	2	HCl	
2.	LEB-110107	↓	830	X	X	X	U	W	G/P	3/2	see bottle	
3.	SB3-0.5'	↓	1010	X	X	X	U	W	G	4	see bottle	
HH ~~4.~~	~~SB3-5.0~~	↓	~~1012~~	↓	↓	↓	/	/	/	/	/	HH
4	SB3-5	11-1-07	1012									
5	SB3-10	11-1-07	1025				U	S	G	12	see bottle	MS/MSD
6	SB3-15	11-1-07	1038				U	S	G	4	see bottle	
7	SB3-20	11-1-07	1118				/	/	/	/	/	
8	SB3-20' Dup	11-1-07	1128				/	/	/	/	/	
9	SB3-25 ~~m~~ HH	11-1-07	1130	↓	↓	↓						

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 43 / 99
Holly Hanke	Holly A H	TETRA TECH, INC.	11-2-07	10:00	
RECEIVED BY: Bolden Eckford	Bolden Eckford	COMPANY: Topline/EMAX	11-2-07	11:40	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: Bolden Eckford	Bolden Eckford	COMPANY: Top Line	11/2/07	2:10	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: Carol Di Poglia	Carol Di Poglia	COMPANY: EMAX	11/02/07	1410	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

T. 3.3°C

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CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: EMAX
1835 W 205 St
Torrance CA 90501
(310) 618-8889

TT-0601- 07K033

DATE 11-1-07 PAGE 2 OF 3

CLIENT: Tetra Tech
PROJECT NAME: Lmc Beaumont Site 2
PROJECT MANAGER: P. Michalski
TC #: 19872-03
SAMPLERS (Signatures): Holly A H

TURN-AROUND TIME: 10 day Rush

OBSERVATIONS/COMMENTS: Please e-mail prelims to David.Bertolacci@Tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOC + Oxygenate (Sw 8260B)	Perchlorate (314.1)	6 of 17 metals (6000/7000 series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
10	SB3 - 25 Dup	11-1-07	1131	X	X	X	U	S	G	4	see bottle
11	SB3 - 30		1132								
12	SB3 - 35		1155								
13	SB3 - 40		1206								
14	SB3 - 45		1212								
15	SB3 - 50		1230								
16	SB3 - 55		1237								
17	SB3 - 60		1259								
18	SB3 - 65		1321								
19	SB3 - 70		1338								

FILTERING: ☐ FILTERED ☒ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 40 / 99
Holly Hanke	Holly A H	TETRA TECH, INC.	11-2-07	16:00	
RECEIVED BY	**SIGNATURE**	**COMPANY**	**DATE**	**TIME**	METHOD OF SHIPMENT/SHIPMENT NO.
Bolden Eckford	Bolden Eckford	TopLine/EMAX	11-2-07	11:40	
RELINQUISHED BY	**SIGNATURE**	**COMPANY**	**DATE**	**TIME**	Special Shipping/Handling/Storage Requirements:
Bolden Eckford	Bolden Eckford	TOP LINE	11/2/07	2:10	
RECEIVED BY	**SIGNATURE**	**COMPANY**	**DATE**	**TIME**	
CAROL DI PUGLIA	Carol Di Puglia	EMAX	11/02/07	1410	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

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1001

CHAIN OF CUSTODY RECORD

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: EMAX
1835 W 205th St
Torrance, CA 90501
(310) 618-8889

DATE 11-1-07 PAGE 3 OF 3

TT-0601- 07K033

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: Paul Michalski
TC #: 19892-03
SAMPLERS (Signatures): Holly A H

TURN-AROUND TIME: 10 day Rush

OBSERVATIONS/COMMENTS: Please email prelims to David.Bertolacci@Tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs + Oxygenates (Sw 8260B)	Perchlorate (314.1)	Metals (6020/7000 Series)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE
20	SB3-75	11-1-07	1400	X	X	X	U	S	G	4	See bottle
21	SB3-80	↓	1518	↓	↓	↓	↓	↓	↓	↓	↓
22	SB3-85	↓	1542	↓	↓	↓	↓	↓	↓	↓	↓
23	SB3-90	↓	1620	↓	↓	↓	↓	↓	↓	↓	↓
5.											
6.											
7.											
8.											
9.											
10.											

FILTERING:
☐ FILTERED ☒ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE	TETRA TECH, INC.	DATE	TIME
Holly Hanke	Holly A H		11-2-07	10:00
RECEIVED BY: Bolden Eckford	Bolden Eckford	COMPANY: Top Line / EMAX	DATE: 11-2-07	TIME: 11:40
RELINQUISHED BY: Bolden Eckford	Bolden Eckford	COMPANY: Top Line	DATE: 11/2/07	TIME: 2:10
RECEIVED BY: Carol Di Puglia	Carol Di Puglia	COMPANY: EMAX	DATE: 11/02/07	TIME: 1410

TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 16/99

METHOD OF SHIPMENT/SHIPMENT NO.

Special Shipping/Handling/Storage Requirements:

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

T. 3.3°C

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1005

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	
☐ EMAX Courier		ECN 07K033
☐ Client Delivery		Recepient BDP
☑ Third Party	TLC	Date 11/02/07
		Time 1410

COC Inspection

☑ Client Name ☑ Client PM/FC ☑ Sampler Name ☑ Sampling Date/Time/Location ☑ Sample ID ☑ Matrix
☑ Address ☑ Tel # / Fax # ☑ Courier Signature ☑ Analysis Required ☑ Preservative (if any) ☑ TAT

Safety issues
☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐
Temperatures	☑ Cooler 1 3.3 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/~~COC ID~~	Discrepancy Code	Corrective Action Code
-01-	-01-02	LTB-11107	B3	R2
-02-	-03-07-	LEB-11107	B3	R2
-04-07-	013-014, 019-024,		H1	R5
↓	029-030, 033-034		↓	↓
-03-04	0		H2	R6

REVIEWS

Sample Labeling BDP
Date 11/02/07

SRF
Date 11/2/07

PM Quanglinh for Ye
Date 11/05/07

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	See COC
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	Log in as soil matrix
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1	NOT PRESERVATIVE INFORMATION ON LABELS		
C3	Leaking container	H2	SAMPLE'S MATRIX IS SOIL, BUT C.O.C. READS WATER.		
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

Pick-up + Delivery: 310-235-2190
Fax: 310-235-2197
New Accounts: 310-235-2190

top line courier

Serving Southern California

Date	11-2-07
Ref. No.	
Invoice No.	30088
Order No. 1	
Order No. 2	

CHARGE TO:	ADDRESS:	ACCOUNT NO.

PICK-UP FROM: Tetra Tech	DELIVER TO NO. 1: EMAX LAB
ADDRESS: 348 Hospitality Lane	ADDRESS: 1835 205th Street
CITY: San Bernardino, CA	CITY: Torrance, CA Zip: 90501
SENDER'S NAME: EXT. NO./DEPT.	RECEIVER'S NAME: TEL. NO. /DEPT.

30 MIN.: (30 MIN.) ☐	SUPER RUSH: (1 HOUR) ☐	RUSH (2 HOURS) ☐	REGULAR: (4 HOURS) ☐	DELIVER TO NO. 2: 07K033
RETURN: ☐	WAIT TIME: ☐	NEXT DAY: ☐ 8:30 ☐ 10:00 ☐ 12:00		ADDRESS: 11/02/07
FILING: ☐	DEPT.: ☐	WINDOW: ☐		CITY: ZIP:
DRIVER #	SERVING: ☐	RECORDING: ☐	BANK DEPOSIT: ☐	RECEIVER'S NAME: TEL. NO. /DEPT.

NO. PKG.	DESCRIPTION AND SPECIAL INSTRUCTIONS
1	Cooler 50 LBS

SIGNATURE ON RETURN X	DEL. TIME		RELEASE SIGNATURE: *Sign to authorize delivery without obtaining signature*
SIGNATURE ON DELIVERY X Gard Si Puglia	DEL. TIME 1410	11/2/07	By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

1007

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07K033

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07K033

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Two (2) water samples were received on 11/02/07 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07K033
Instrument ID : T-001

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V001K29Q	1	NA	11/10/0703:35	11/10/0703:35	RKV302	RIV148	V001K29	Method Blank
LCS1W	V001K29L	1	NA	11/10/0702:18	11/10/0702:18	RKV300	RIV148	V001K29	Lab Control Sample (LCS)
LCD1W	V001K29C	1	NA	11/10/0711:14	11/10/0711:14	RKV314	RIV148	V001K29	LCS Duplicate
LTB-110107	K033-01	1	NA	11/10/0704:13	11/10/0704:13	RKV303	RIV148	V001K29	Field Sample
LEB-110107	K033-02	1	NA	11/10/0704:51	11/10/0704:51	RKV304	RIV148	V001K29	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/10/07 04:13
Sample ID:	LTB-110107	Date Analyzed:	11/10/07 04:13
Lab Samp ID:	K033-01	Dilution Factor:	1
Lab File ID:	RKV303	Matrix	: WATER
Ext Btch ID:	VO01K29	% Moisture	: NA
Calib. Ref.:	RIV148	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	127	70-140
4-BROMOFLUOROBENZENE	103	70-130
TOLUENE-D8	90	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/10/07 04:51
Sample ID:	LEB-110107	Date Analyzed:	11/10/07 04:51
Lab Samp ID:	K033-02	Dilution Factor:	1
Lab File ID:	RKV304	Matrix :	WATER
Ext Btch ID:	VO01K29	% Moisture :	NA
Calib. Ref.:	RIV148	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	120	70-140
4-BROMOFLUOROBENZENE	104	70-130
TOLUENE-D8	92	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/10/07
Batch No.	: 07K033	Date Extracted:	11/10/07 03:35
Sample ID:	MBLK1W	Date Analyzed:	11/10/07 03:35
Lab Samp ID:	V001K29Q	Dilution Factor:	1
Lab File ID:	RKV302	Matrix :	WATER
Ext Btch ID:	V001K29	% Moisture :	NA
Calib. Ref.:	RIV148	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
TERT-BUTANOL	ND	10	5.0
DIPE	ND	1.0	0.20
ETBE	ND	1.0	0.20
TAME	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	122	70-140
4-BROMOFLUOROBENZENE	100	70-130
TOLUENE-D8	90	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V001K29Q	V001K29L	V001K29C		
LAB FILE ID:	RKV302	RKV300	RKV314		
DATE EXTRACTED:	11/10/0703:35	11/10/0702:18	11/10/0711:14	DATE COLLECTED:	NA
DATE ANALYZED:	11/10/0703:35	11/10/0702:18	11/10/0711:14	DATE RECEIVED:	11/10/07
PREP. BATCH:	V001K29	V001K29	V001K29		
CALIB. REF:	RIV148	RIV148	RIV148		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.21	92	10.0	8.29	83	11	60-130	30
Benzene	ND	10.0	9.41	94	10.0	8.38	84	12	70-130	30
Chlorobenzene	ND	10.0	10.9	109	10.0	10.1	101	7	70-120	30
Toluene	ND	10.0	9.73	97	10.0	8.90	89	9	70-130	30
Trichloroethene	ND	10.0	11.0	110	10.0	9.92	99	10	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.5	105	10.0	9.90	99	70-140
4-Bromofluorobenzene	10.0	10.4	104	10.0	9.91	99	70-130
Toluene-d8	10.0	9.33	93	10.0	9.39	94	70-130

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RIV142
Instrument ID: T-001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07K033
BFB Injection Date : 09/24/07
BFB Injection Time : 15:29
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.71
75	30.0 - 60.0% of mass 95	42.56
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.64
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	86.34
175	5.0 - 9.0% of mass 174	5.99(6.9)1
176	95.0 - 101.0% of mass 174	82.52(95.6)1
177	5.0 - 9.0% of mass 176	5.38(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V001I241	RIV143	09/24/07	16:08
2	VSTD0.5	V001I242	RIV144	09/24/07	16:45
3	VSTD01	V001I243	RIV145	09/24/07	17:24
4	VSTD02	V001I244	RIV146	09/24/07	18:03
5	VSTD05	V001I245	RIV147	09/24/07	18:40
6	VSTD010	V001I246	RIV148	09/24/07	19:18
7	VSTD020	V001I247	RIV149	09/24/07	19:56
8	VSTD030	V001I248	RIV150	09/24/07	20:33
9	VSTD040	V001I249	RIV151	09/24/07	21:12
10	VSTD050	V001I2410	RIV152	09/24/07	21:50
11	VSTD010	IV001I2401	RIV155	09/24/07	23:44

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :TO01
Beginning DateTime :09/24/07 16:08
Spike Units :PPB
IC File :RIV148

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :09/24/07 21:50
HPChem Method :VO01I24

M	IDX	Parameters	.3 16:08 RIV143	.5 16:45 RIV144	1 17:24 RIV145	2 18:03 RIV146	5 18:40 RIV147	10 19:18 RIV148	20 19:56 RIV149	30 20:33 RIV150	40 21:12 RIV151	50 21:50 RIV152	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	11.5873
	2	Dichlorodifluoromethane	0.370	0.301	0.286	0.333	0.317	0.352	0.339	0.316	0.314	0.293	0.322	8.26	3.5041
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	0.377	0.340	0.323	0.362	0.352	0.391	0.381	0.362	0.364	0.353	0.361	5.53	3.9338
	5	Vinyl chloride	0.300	0.287	0.276	0.328	0.302	0.303	0.252	0.210	------	------	0.282	13.00	4.1273
	6	Bromomethane	------	0.116	0.126	0.119	0.150	0.203	0.255	0.277	0.299	0.307	0.206	38.96	4.8838
	7	Chloroethane	------	0.200	0.173	0.191	0.184	0.203	0.186	0.175	0.168	0.160	0.182	7.91	5.0243
	8	Dichlorofluoromethane	0.621	0.576	0.565	0.552	0.674	0.634	0.710	0.616	0.631	0.621	0.620	7.76	5.0833
	9	Trichlorofluoromethane	0.494	0.408	0.398	0.464	0.441	0.475	0.458	0.433	0.429	0.417	0.442	6.96	5.4654
	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
2	11	Acrolein	------	------	------	0.010	0.011	0.011	0.014	0.012	0.014	0.014	0.012	13.70	6.1658
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.252	0.237	0.275	0.245	0.252	0.221	0.300	0.226	0.276	0.276	0.256	9.84	6.1911
2	13	Acetone	------	------	------	------	0.032	0.024	0.029	0.024	0.027	0.028	0.027	10.96	6.2702
	14	1,1-Dichloroethene	0.437	0.360	0.386	0.365	0.444	0.357	0.475	0.409	0.414	0.422	0.407	9.74	6.5420
5	15	tert-Butyl alcohol	------	------	------	0.006	0.010	0.009	0.010	0.009	0.009	0.010	0.009	17.47	6.6288
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	18	Iodomethane	------	0.156	0.198	0.207	0.388	0.487	0.627	0.603	0.592	0.616	0.431	45.95	7.1325
	19	Methylene chloride	------	1.053	0.670	0.516	0.494	0.409	0.433	0.382	0.391	0.384	0.526	41.55	7.3555
	20	Carbon disulfide	0.752	0.656	0.703	0.728	0.950	0.863	1.027	0.923	0.938	0.936	0.848	15.03	7.4491
3	21	Acrylonitrile	------	------	0.025	0.031	0.037	0.035	0.038	0.037	0.035	0.035	0.034	12.43	7.5317
	22	tert-Butyl methyl ether (MTBE)	0.231	0.243	0.252	0.257	0.313	0.274	0.324	0.293	0.307	0.304	0.280	11.68	7.6067
	23	trans-1,2-Dichloroethene	0.443	0.392	0.388	0.382	0.465	0.407	0.479	0.411	0.428	0.437	0.423	7.76	7.8654
	24	Isopropyl ether (DIPE)	0.727	0.737	0.784	0.759	0.914	0.795	0.919	0.803	0.842	0.845	0.812	8.27	8.3561
	25	Vinyl acetate	------	0.069	0.063	0.074	0.090	0.087	0.113	0.104	0.111	0.113	0.092	21.50	8.5153
	26	1,1-Dichloroethane	0.544	0.541	0.555	0.532	0.621	0.562	0.655	0.565	0.580	0.588	0.574	6.70	8.5792
	27	tert-Butyl ethyl ether (ETBE)	0.331	0.312	0.341	0.341	0.411	0.372	0.431	0.386	0.402	0.415	0.374	10.96	9.0401
2	28	2-Butanone	------	0.034	0.044	0.055	0.056	0.051	0.053	0.052	0.052	0.053	0.050	14.00	9.2407
	29	2,2-Dichloropropane	0.324	0.314	0.326	0.318	0.371	0.327	0.403	0.344	0.358	0.373	0.346	8.48	9.5085
	30	cis-1,2-Dichloroethene	0.441	0.432	0.446	0.432	0.512	0.456	0.541	0.469	0.475	0.483	0.469	7.61	9.5903
	31	Chloroform	0.598	0.596	0.617	0.583	0.677	0.587	0.679	0.599	0.627	0.641	0.620	5.70	9.8446
	32	Bromochloromethane	0.187	0.185	0.200	0.200	0.238	0.212	0.239	0.211	0.214	0.220	0.211	8.79	10.1271
	33	Tetrahydrofuran	------	------	0.024	0.027	0.032	0.029	0.032	0.030	0.032	0.033	0.030	10.74	10.1990
	34	1,1,1-Trichloroethane	0.399	0.389	0.406	0.377	0.446	0.395	0.465	0.410	0.436	0.445	0.417	7.01	10.5122
	35	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	tert-Amyl methyl ether (TAME)	0.254	0.267	0.295	0.297	0.356	0.312	0.372	0.328	0.343	0.357	0.318	12.53	10.9271
	37	1,2-Dichloroethane-d4	------	------	------	0.208	0.205	0.136	0.192	0.179	0.186	0.186	0.184	12.96	10.9900
	38	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	16.8810
	39	1,1-Dichloropropene	0.160	0.142	0.153	0.135	0.173	0.152	0.181	0.158	0.163	0.165	0.158	8.70	10.7606
	40	Carbon tetrachloride	0.400	0.372	0.393	0.355	0.441	0.385	0.455	0.396	0.406	0.417	0.402	7.49	10.9479
	41	1,2-Dichloroethane	0.212	0.220	0.222	0.206	0.252	0.215	0.249	0.223	0.226	0.224	0.225	6.65	11.1428
	42	Benzene	1.480	1.467	1.490	1.309	1.592	1.359	1.603	1.409	1.443	1.447	1.460	6.26	11.2022
	43	Trichloroethene	0.458	0.411	0.423	0.384	0.478	0.410	0.490	0.423	0.436	0.440	0.435	7.43	12.1732
	44	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	45	1,2-Dichloropropane	0.306	0.317	0.337	0.308	0.377	0.333	0.378	0.328	0.337	0.341	0.336	7.44	12.4394
	46	Bromodichloromethane	0.406	0.405	0.428	0.400	0.496	0.427	0.499	0.446	0.467	0.463	0.444	8.23	12.8334
	47	Dibromomethane	0.177	0.177	0.186	0.182	0.221	0.190	0.218	0.194	0.195	0.193	0.193	7.98	12.9390
2	48	4-Methyl-2-pentanone	0.158	0.129	0.141	0.161	0.176	0.160	0.159	0.157	0.153	0.152	0.154	8.07	13.3093
	49	2-Chloroethyl vinyl ether	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	50	cis-1,3-Dichloropropene	0.363	0.354	0.398	0.393	0.491	0.435	0.507	0.455	0.471	0.470	0.434	12.44	13.6959
	51	Toluene-d8	------	------	------	1.178	1.253	0.836	1.205	1.105	1.145	1.175	1.128	12.12	14.1509
	52	Toluene	1.533	1.400	1.473	1.349	1.642	1.441	1.682	1.452	1.555	1.484	1.501	6.92	14.2907
	53	Ethyl methacrylate	------	0.169	0.196	0.198	0.258	0.227	0.265	0.237	0.249	0.243	0.227	14.21	14.4418
	54	trans-1,3-Dichloropropene	0.224	0.232	0.255	0.249	0.325	0.289	0.334	0.307	0.318	0.320	0.285	14.62	14.5286
	55	1,1,2-Trichloroethane	0.198	0.193	0.200	0.184	0.228	0.198	0.227	0.205	0.216	0.216	0.207	7.05	14.8319
2	56	2-Hexanone	------	------	0.076	0.094	0.116	0.111	0.112	0.111	0.110	0.109	0.105	12.86	14.7734
	57	1,3-Dichloropropane	0.322	0.337	0.356	0.334	0.414	0.361	0.412	0.366	0.381	0.383	0.367	8.52	15.2647
	58	Tetrachloroethene	0.379	0.344	0.366	0.321	0.389	0.341	0.414	0.361	0.383	0.394	0.369	7.69	15.4639

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59	Dibromochloromethane	0.299	0.284	0.303	0.290	0.369	0.320	0.370	0.331	0.344	0.345	0.325	9.69	15.8134
60	1,2-Dibromoethane	0.197	0.191	0.212	0.199	0.246	0.218	0.252	0.227	0.238	0.236	0.222	9.73	16.1866
61	1-Chlorohexane	1.578	1.571	1.668	1.474	1.869	1.653	1.998	1.806	1.769	1.606	1.699	9.37	16.3665
62	Chlorobenzene	1.003	0.872	0.900	0.809	1.001	0.878	1.032	0.915	0.942	0.962	0.931	7.48	16.9554
63	1,1,1,2-Tetrachloroethane	0.313	0.322	0.333	0.303	0.380	0.332	0.391	0.347	0.359	0.356	0.344	8.23	17.0044
64	Ethylbenzene	1.865	1.704	1.735	1.521	1.922	1.683	2.019	1.789	1.807	1.646	1.769	8.13	17.0059
2 65	m-Xylene & p-Xylene	1.356	1.246	1.273	1.131	1.408	1.254	1.475	1.265	------	------	1.301	8.27	17.1497
66	o-Xylene	1.246	1.197	1.243	1.125	1.409	1.240	1.479	1.298	1.366	1.356	1.296	8.22	18.0022
67	Styrene	0.823	0.788	0.839	0.774	0.994	0.890	1.069	0.958	1.004	1.022	0.916	11.64	18.0557
68	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	22.5345
69	Isopropylbenzene	3.752	3.509	3.674	3.412	3.941	3.359	4.062	3.337	3.594	------	3.627	7.05	18.6716
70	Bromoform	0.348	0.346	0.363	0.369	0.426	0.362	0.432	0.376	0.408	0.407	0.384	8.27	18.7888
71	1,1,2,2-Tetrachloroethane	0.658	0.658	0.695	0.681	0.762	0.629	0.731	0.628	0.674	0.667	0.678	6.22	18.9955
72	4-Bromofluorobenzene	------	------	------	0.990	0.997	0.652	0.953	0.831	0.892	0.905	0.888	13.46	19.2045
73	1,2,3-Trichloropropane	0.287	0.319	0.315	0.305	0.327	0.262	0.298	0.257	0.267	0.256	0.289	9.42	19.2944
74	trans-1,4-Dichloro-2-butene	------	------	0.055	0.057	0.082	0.072	0.090	0.078	0.084	0.083	0.075	17.05	19.3737
75	n-Propylbenzene	5.664	5.087	5.372	4.873	5.652	4.896	5.827	4.886	4.616	------	5.208	8.30	19.4795
76	Bromobenzene	1.019	0.895	0.932	0.867	1.013	0.867	1.029	0.880	0.950	0.974	0.943	6.79	19.6587
77	1,3,5-Trimethylbenzene	2.755	2.628	2.792	2.508	2.940	2.587	3.105	2.581	2.737	2.806	2.744	6.60	19.7910
78	2-Chlorotoluene	2.992	2.650	2.696	2.457	2.973	2.546	2.903	2.345	2.661	2.783	2.701	8.00	19.9040
79	4-Chlorotoluene	2.819	2.360	2.530	2.285	2.451	2.152	2.605	2.341	2.349	2.376	2.427	7.68	19.9844
80	tert-Butylbenzene	2.731	2.491	2.634	2.382	2.873	2.462	2.958	2.435	2.642	2.695	2.631	7.26	20.5375
81	1,2,4-Trimethylbenzene	2.908	2.618	2.766	2.506	2.909	2.533	3.063	2.563	2.752	2.793	2.741	6.74	20.6282
82	sec-Butylbenzene	4.448	3.992	4.285	3.859	4.520	3.959	4.900	4.123	4.223	------	4.257	7.69	20.9896
83	p-Isopropyltoluene	3.183	3.008	3.202	2.892	3.543	3.043	3.761	3.163	3.376	3.231	3.240	8.01	21.2572
84	1,3-Dichlorobenzene	2.167	1.831	1.942	1.727	2.057	1.762	2.126	1.831	1.924	1.976	1.934	7.74	21.5501
85	1,4-Dichlorobenzene	2.025	1.728	1.831	1.647	1.900	1.699	2.039	1.741	1.865	1.887	1.836	7.25	21.7643
86	n-Butylbenzene	3.489	3.190	3.474	3.103	3.822	3.390	4.168	3.580	3.732	------	3.550	9.21	22.1379
87	1,2-Dichlorobenzene	1.812	1.583	1.601	1.482	1.708	1.506	1.757	1.536	1.614	1.626	1.623	6.64	22.5955
88	1,2-Dibromo-3-chloropropane	------	------	0.076	0.074	0.094	0.087	0.103	0.094	0.097	0.095	0.090	11.25	24.2901
89	1,2,4-Trichlorobenzene	0.785	0.701	0.733	0.655	0.829	0.727	0.899	0.831	0.799	0.819	0.778	9.36	26.3219
90	Hexachlorobutadiene	0.653	0.589	0.635	0.540	0.662	0.564	0.735	0.644	0.617	0.621	0.626	8.74	26.6178
91	Naphthalene	1.050	0.796	0.806	0.845	1.124	0.999	1.218	1.159	1.105	1.137	1.024	15.21	26.9479
92	1,2,3-Trichlorobenzene	0.593	0.519	0.557	0.523	0.679	0.581	0.699	0.656	0.625	0.645	0.608	10.41	27.5189

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.7 Max_%RSD : 45.9

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
15	tert-Butyl alcohol	-0.00254	0.00969	0.9979
18	Iodomethane	-0.04050	0.60728	0.9966
19	Methylene chloride	0.03258	0.38347	0.9990
25	Vinyl acetate	-0.00419	0.11001	0.9977
74	trans-1,4-Dichloro-2-butene	-0.00357	0.08358	0.9984
91	Naphthalene	-0.01557	1.13681	0.9986

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
6	Bromomethane	-0.00787	0.19785	0.02395	0.9987

2012

9/26/07

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I24\RIV155.D Vial: 15
Acq On : 24 Sep 2007 11:44 pm Operator: DN
Sample : IVO01I2401 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	10.000	10.011	-0.1	100	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	0	0.00
4	P,T	Chloromethane	10.000	10.145	-1.4	102	0.00
5	C,T	Vinyl chloride	10.000	10.431	-4.3	106	0.00
6	T	Bromomethane	10.000	10.499	-5.0	122	0.00
7	T	Chloroethane	10.000	10.298	-3.0	101	0.00
8	T	Dichlorofluoromethane	10.000	9.799	2.0	105	0.00
9	T	Trichlorofluoromethane	10.000	10.346	-3.5	105	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
11	T	Acrolein	20.000	15.370	23.2#	92	-0.02
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.238	7.6	117	0.01
13	T	Acetone	20.000	16.316	18.4	103	0.01
14	C,T	1,1-Dichloroethene	10.000	10.136	-1.4	126	0.00
15	T	tert-Butyl alcohol	50.000	49.477	1.0	114	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
18	T	Iodomethane	10.000	7.654	23.5#	95	0.00
19	T	Methylene chloride	10.000	8.998	10.0	101	0.00
20	T	Carbon disulfide	10.000	10.098	-1.0	108	0.00
21	T	Acrylonitrile	30.000	28.943	3.5	103	0.00
22	T	tert-Butyl methyl ether (MT	10.000	10.175	-1.8	114	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.954	0.5	113	0.00
24	T	Isopropyl ether (DIPE)	10.000	10.320	-3.2	115	0.00
25	T	Vinyl acetate	10.000	8.204	18.0	108	0.00
26	P,T	1,1-Dichloroethane	10.000	9.921	0.8	111	0.00
27	T	tert-Butyl ethyl ether (ETB	10.000	9.896	1.0	109	0.00
28	T	2-Butanone	20.000	18.782	6.1	101	0.00
29	T	2,2-Dichloropropane	10.000	9.732	2.7	113	0.00
30	T	cis-1,2-Dichloroethene	10.000	9.958	0.4	112	0.00
31	C,T	Chloroform	10.000	9.867	1.3	114	0.00
32	T	Bromochloromethane	10.000	10.022	-0.2	109	0.00
33	T	Tetrahydrofuran	10.000	9.292	7.1	107	0.00
34	T	1,1,1-Trichloroethane	10.000	9.830	1.7	113	0.00
35	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
36	T	tert-Amyl methyl ether (TAM	10.000	9.892	1.1	110	0.00
37	S	1,2-Dichloroethane-d4	10.000	11.078	-10.8	165	0.00
38	I	CHLOROBENZENE-D5	10.000	10.000	0.0	109	0.00
39	T	1,1-Dichloropropene	10.000	9.841	1.6	112	0.00
40	T	Carbon tetrachloride	10.000	9.951	0.5	113	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07I24\RIV155.D Vial: 15
Acq On : 24 Sep 2007 11:44 pm Operator: DN
Sample : IV001I2401 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	10.000	9.761	2.4	111	0.00
42	T	Benzene	10.000	9.922	0.8	116	0.00
43	T	Trichloroethene	10.000	9.949	0.5	115	0.00
44	T	Methylcyclohexane	-1.000	0.000	0.0	114	-0.02
45	C,T	1,2-Dichloropropane	10.000	10.004	-0.0	110	0.00
46	T	Bromodichloromethane	10.000	10.123	-1.2	115	0.00
47	T	Dibromomethane	10.000	10.216	-2.2	113	0.00
48	T	4-Methyl-2-pentanone	20.000	20.139	-0.7	106	0.00
49	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	0.00
50	T	cis-1,3-Dichloropropene	10.000	10.400	-4.0	113	0.00
51	S	Toluene-d8	10.000	11.683	-16.8	172	0.00
52	C,T	Toluene	10.000	10.098	-1.0	115	0.00
53	T	Ethyl methacrylate	10.000	10.025	-0.3	109	-0.02
54	T	trans-1,3-Dichloropropene	10.000	10.326	-3.3	111	0.00
55	T	1,1,2-Trichloroethane	10.000	10.178	-1.8	116	-0.02
56	T	2-Hexanone	20.000	19.517	2.4	100	-0.02
57	T	1,3-Dichloropropane	10.000	9.968	0.3	110	-0.02
58	T	Tetrachloroethene	10.000	10.234	-2.3	121	0.00
59	T	Dibromochloromethane	10.000	10.229	-2.3	114	-0.02
60	T	1,2-Dibromoethane	10.000	10.168	-1.7	113	-0.02
61	T	1-Chlorohexane	10.000	10.610	-6.1	119	0.00
62	P	Chlorobenzene	10.000	9.960	0.4	115	0.00
63	T	1,1,1,2-Tetrachloroethane	10.000	10.138	-1.4	115	-0.02
64	C,T	Ethylbenzene	10.000	10.217	-2.2	117	0.00
65	T	m-Xylene & p-Xylene	20.000	20.670	-3.4	117	0.00
66	T	o-Xylene	10.000	10.219	-2.2	117	-0.02
67	T	Styrene	10.000	10.336	-3.4	116	0.00
68	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	106	-0.02
69	T	Isopropylbenzene	10.000	9.981	0.2	114	0.00
70	P,T	Bromoform	10.000	10.051	-0.5	113	-0.02
71	P,T	1,1,2,2-Tetrachloroethane	10.000	9.639	3.6	110	-0.02
72	S	4-Bromofluorobenzene	10.000	11.622	-16.2	168	-0.02
73	T	1,2,3-Trichloropropane	10.000	9.775	2.2	114	-0.02
74	T	trans-1,4-Dichloro-2-butene	10.000	9.700	3.0	113	0.00
75	T	n-Propylbenzene	10.000	10.227	-2.3	115	0.00
76	T	Bromobenzene	10.000	10.030	-0.3	115	0.00
77	T	1,3,5-Trimethylbenzene	10.000	10.250	-2.5	115	0.00
78	T	2-Chlorotoluene	10.000	9.666	3.3	108	-0.02
79	T	4-Chlorotoluene	10.000	10.379	-3.8	124	0.00
80	T	tert-Butylbenzene	10.000	9.865	1.3	111	0.00

(#) = Out of Range

2015

Data File : D:\HPCHEM\1\DATA\07I24\RIV155.D Vial: 15
Acq On : 24 Sep 2007 11:44 pm Operator: DN
Sample : IV001I2401 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\V001I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	10.000	10.072	-0.7	115	0.00
82	T	sec-Butylbenzene	10.000	10.186	-1.9	116	-0.02
83	T	p-Isopropyltoluene	10.000	10.362	-3.6	117	-0.02
84	T	1,3-Dichlorobenzene	10.000	9.893	1.1	115	0.00
85	T	1,4-Dichlorobenzene	10.000	9.836	1.6	112	0.00
86	T	n-Butylbenzene	10.000	10.258	-2.6	114	0.00
87	T	1,2-Dichlorobenzene	10.000	9.794	2.1	112	-0.02
88	T	1,2-Dibromo-3-chloropropane	10.000	9.531	4.7	105	0.00
89	T	1,2,4-Trichlorobenzene	10.000	9.963	0.4	113	0.00
90	T	Hexachlorobutadiene	10.000	9.879	1.2	116	0.00
91	T	Naphthalene	10.000	9.048	9.5	107	0.00
92	T	1,2,3-Trichlorobenzene	10.000	10.030	-0.3	111	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

OK 9/26/07

2016

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKV296
Instrument ID: T-001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07K033
BFB Injection Date : 11/09/07
BFB Injection Time : 23:45
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.23
75	30.0 - 60.0% of mass 95	43.97
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.24
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	87.10
175	5.0 - 9.0% of mass 174	6.33(7.3)1
176	95.0 - 101.0% of mass 174	83.68(96.1)1
177	5.0 - 9.0% of mass 176	5.53(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001I24158	RKV299	11/10/07	01:40
2	MBLK1W	V001K29Q	RKV302	11/10/07	03:35
3	LCS1W	V001K29L	RKV300	11/10/07	02:18
4	LCD1W	V001K29C	RKV314	11/10/07	11:14
5	LTB-110107	K033-01	RKV303	11/10/07	04:13
6	LEB-110107	K033-02	RKV304	11/10/07	04:51

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RIV148
Instrument ID: T-001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07K033
Date Analyzed: 09/24/07
Time Analyzed: 19:18
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2727732	11.58	2605411	16.87	1194715	22.54
	UPPER LIMIT	5455464	12.08	5210822	17.37	2389430	23.04
	LOWER LIMIT	1363866	11.08	1302706	16.37	597358	22.04
	SAMPLE ID						
1	VSTD010	2779949	11.58	2625133	16.88	1137107	22.53
2	MBLK1W	3244395	11.58	3182187	16.87	1340972	22.54
3	LCS1W	2594855	11.58	2497293	16.88	1078404	22.53
4	LCD1W	2521425	11.58	2410955	16.87	1113186	22.52
5	LTB-110107	2716635	11.59	2724128	16.89	1123119	22.54
6	LEB-110107	2629476	11.58	2585368	16.88	1039435	22.53

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKV299.D Vial: 5
Acq On : 10 Nov 2007 1:40 am Operator: DN
Sample : CVO01I24158 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	10.000	6.783	32.2#	63	0.03
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	0	0.00
4	P,T	Chloromethane	10.000	7.141	28.6#	67	0.02
5	C,T	Vinyl chloride	10.000	8.569	14.3 ✓	81	0.03
6	T	Bromomethane	10.000	10.018	-0.2	108	0.02
7	T	Chloroethane	10.000	7.938	20.6#	73	0.03
8	T	Dichlorofluoromethane	10.000	8.653	13.5	86	0.03
9	T	Trichlorofluoromethane	10.000	7.860	21.4#	74	-0.03
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
11	T	Acrolein	20.000	4.121	79.4#	23	-0.04
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	7.019	29.8#	83	0.00
13	T	Acetone	20.000	20.218	-1.1	119	-0.01
14	C,T	1,1-Dichloroethene	10.000	8.082	19.2 ✓	94	-0.03
15	T	tert-Butyl alcohol	50.000	39.162	21.7#	83	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
18	T	Iodomethane	10.000	9.098	9.0	107	0.00
19	T	Methylene chloride	10.000	7.350	26.5#	78	-0.01
20	T	Carbon disulfide	10.000	7.091	29.1#	71	-0.01
21	T	Acrylonitrile	30.000	24.277	19.1	80	-0.03
22	T	tert-Butyl methyl ether (MT	10.000	9.597	4.0	100	0.00
23	T	trans-1,2-Dichloroethene	10.000	8.599	14.0	91	-0.01
24	T	Isopropyl ether (DIPE)	10.000	9.081	9.2	95	-0.01
25	T	Vinyl acetate	10.000	8.521	14.8	105	-0.01
26	P,T	1,1-Dichloroethane	10.000	8.800	12.0	92	-0.01
27	T	tert-Butyl ethyl ether (ETB	10.000	11.510	-15.1	118	-0.01
28	T	2-Butanone	20.000	16.821	15.9	84	0.00
29	T	2,2-Dichloropropane	10.000	8.989	10.1	97	0.00
30	T	cis-1,2-Dichloroethene	10.000	9.173	8.3	96	-0.01
31	C,T	Chloroform	10.000	8.843	11.6 ✓	95	-0.01
32	T	Bromochloromethane	10.000	10.026	-0.3	102	-0.01
33	T	Tetrahydrofuran	10.000	8.689	13.1	93	0.00
34	T	1,1,1-Trichloroethane	10.000	9.199	8.0	99	-0.01
35	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
36	T	tert-Amyl methyl ether (TAM	10.000	11.191	-11.9	116	-0.01
37	S	1,2-Dichloroethane-d4	10.000	10.550	-5.5	146	0.00
38	I	CHLOROBENZENE-D5	10.000	10.000	0.0	101	0.00
39	T	1,1-Dichloropropene	10.000	9.003	10.0	95	-0.01
40	T	Carbon tetrachloride	10.000	10.357	-3.6	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKV299.D Vial: 5
Acq On : 10 Nov 2007 1:40 am Operator: DN
Sample : CVO01I24158 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	10.000	10.005	-0.1	105	0.00
42	T	Benzene	10.000	8.675	13.2	94	0.00
43	T	Trichloroethene	10.000	10.146	-1.5	108	-0.01
44	T	Methylcyclohexane	-1.000	0.000	0.0	90	0.00
45	C,T	1,2-Dichloropropane	10.000	9.966	0.3	101	-0.01
46	T	Bromodichloromethane	10.000	9.818	1.8	103	0.00
47	T	Dibromomethane	10.000	9.225	7.8	95	0.00
48	T	4-Methyl-2-pentanone	20.000	18.171	9.1	88	-0.01
49	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	0.00
50	T	cis-1,3-Dichloropropene	10.000	9.807	1.9	99	0.00
51	S	Toluene-d8	10.000	9.309	6.9	127	-0.01
52	C,T	Toluene	10.000	9.030	9.7	95	0.00
53	T	Ethyl methacrylate	10.000	9.972	0.3	100	-0.01
54	T	trans-1,3-Dichloropropene	10.000	10.223	-2.2	102	0.00
55	T	1,1,2-Trichloroethane	10.000	9.567	4.3	100	-0.01
56	T	2-Hexanone	20.000	18.321	8.4	87	-0.01
57	T	1,3-Dichloropropane	10.000	9.998	0.0	102	-0.01
58	T	Tetrachloroethene	10.000	9.639	3.6	105	0.00
59	T	Dibromochloromethane	10.000	11.045	-10.4	113	-0.01
60	T	1,2-Dibromoethane	10.000	10.297	-3.0	105	-0.01
61	T	1-Chlorohexane	10.000	9.310	6.9	96	-0.01
62	P	Chlorobenzene	10.000	10.040	-0.4	107	0.00
63	T	1,1,1,2-Tetrachloroethane	10.000	10.792	-7.9	113	-0.01
64	C,T	Ethylbenzene	10.000	9.486	5.1	100	-0.01
65	T	m-Xylene & p-Xylene	20.000	18.887	5.6	99	0.00
66	T	o-Xylene	10.000	9.597	4.0	101	-0.01
67	T	Styrene	10.000	10.189	-1.9	106	0.00
68	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	95	-0.01
69	T	Isopropylbenzene	10.000	10.573	-5.7	109	-0.01
70	P,T	Bromoform	10.000	10.763	-7.6	108	-0.01
71	P,T	1,1,2,2-Tetrachloroethane	10.000	9.479	5.2	97	-0.01
72	S	4-Bromofluorobenzene	10.000	10.551	-5.5	137	-0.01
73	T	1,2,3-Trichloropropane	10.000	10.461	-4.6	110	-0.01
74	T	trans-1,4-Dichloro-2-butene	10.000	10.862	-8.6	115	0.00
75	T	n-Propylbenzene	10.000	10.188	-1.9	103	0.00
76	T	Bromobenzene	10.000	10.090	-0.9	104	0.00
77	T	1,3,5-Trimethylbenzene	10.000	10.553	-5.5	107	0.00
78	T	2-Chlorotoluene	10.000	9.668	3.3	98	-0.01
79	T	4-Chlorotoluene	10.000	10.014	-0.1	107	0.00
80	T	tert-Butylbenzene	10.000	10.977	-9.8	112	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKV299.D Vial: 5
Acq On : 10 Nov 2007 1:40 am Operator: DN
Sample : CVO01I24158 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	10.000	10.528	-5.3	108	0.00
82	T	sec-Butylbenzene	10.000	10.765	-7.7	110	-0.01
83	T	p-Isopropyltoluene	10.000	11.306	-13.1	115	-0.01
84	T	1,3-Dichlorobenzene	10.000	10.246	-2.5	107	0.00
85	T	1,4-Dichlorobenzene	10.000	10.191	-1.9	105	-0.01
86	T	n-Butylbenzene	10.000	10.041	-0.4	100	-0.01
87	T	1,2-Dichlorobenzene	10.000	10.183	-1.8	104	-0.01
88	T	1,2-Dibromo-3-chloropropane	10.000	9.596	4.0	95	0.00
89	T	1,2,4-Trichlorobenzene	10.000	11.388	-13.9	116	0.00
90	T	Hexachlorobutadiene	10.000	11.215	-12.1	118	0.00
91	T	Naphthalene	10.000	11.632	-16.3	125	0.00
92	T	1,2,3-Trichlorobenzene	10.000	11.817	-18.2	118	-0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKV299.D Vial: 5
Acq On : 10 Nov 2007 1:40 am Operator: DN
Sample : CV001I24158 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	0.322	0.219	32.0#	63	0.03
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	0#	0.00
4	P,T	Chloromethane	0.361	0.257	28.8#	67	0.02
5	C,T	Vinyl chloride	0.282	0.242	14.2	81	0.03
6	T	Bromomethane	0.206	0.214	-3.9	108	0.02
7	T	Chloroethane	0.182	0.145	20.3#	73	0.03
8	T	Dichlorofluoromethane	0.620	0.537	13.4	86	0.03
9	T	Trichlorofluoromethane	0.442	0.347	21.5#	74	-0.03
10	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
11	T	Acrolein	0.012	0.003	75.0#	23#	-0.04
12	T	1,1,2-Trichloro-1,2,2-trifl	0.256	0.180	29.7#	83	0.00
13	T	Acetone	0.027	0.028	-3.7	119	-0.01
14	C,T	1,1-Dichloroethene	0.407	0.329	19.2	94	-0.03
15	T	tert-Butyl alcohol	0.009	0.007	22.2#	83	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
18	T	Iodomethane	0.431	0.512	-18.8	107	0.00
19	T	Methylene chloride	0.526	0.314	40.3#	78	-0.01
20	T	Carbon disulfide	0.848	0.601	29.1#	71	-0.01
21	T	Acrylonitrile	0.034	0.028	17.6	80	-0.03
22	T	tert-Butyl methyl ether (MT	0.280	0.269	3.9	100	0.00
23	T	trans-1,2-Dichloroethene	0.423	0.364	13.9	91	-0.01
24	T	Isopropyl ether (DIPE)	0.812	0.738	9.1	95	-0.01
25	T	Vinyl acetate	0.092	0.090	2.2	105	-0.01
26	P,T	1,1-Dichloroethane	0.574	0.505	12.0	92	-0.01
27	T	tert-Butyl ethyl ether (ETB	0.374	0.431	-15.2	118	-0.01
28	T	2-Butanone	0.050	0.042	16.0	84	0.00
29	T	2,2-Dichloropropane	0.346	0.311	10.1	97	0.00
30	T	cis-1,2-Dichloroethene	0.469	0.430	8.3	96	-0.01
31	C,T	Chloroform	0.620	0.549	11.5	95	-0.01
32	T	Bromochloromethane	0.211	0.211	0.0	102	-0.01
33	T	Tetrahydrofuran	0.030	0.026	13.3	93	0.00
34	T	1,1,1-Trichloroethane	0.417	0.383	8.2	99	-0.01
35	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
36	T	tert-Amyl methyl ether (TAM	0.318	0.356	-11.9	116	-0.01
37	S	1,2-Dichloroethane-d4	0.184	0.195	-6.0	146	0.00
38	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00
39	T	1,1-Dichloropropene	0.158	0.143	9.5	95	-0.01
40	T	Carbon tetrachloride	0.402	0.416	-3.5	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKV299.D Vial: 5
Acq On : 10 Nov 2007 1:40 am Operator: DN
Sample : CVO01I24158 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	1,2-Dichloroethane	0.225	0.225	0.0	105	0.00
42	T	Benzene	1.460	1.267	13.2	94	0.00
43	T	Trichloroethene	0.435	0.442	-1.6	108	-0.01
44	T	Methylcyclohexane	0.000	0.000	0.0	90	0.00
45	C,T	1,2-Dichloropropane	0.336	0.335	0.3	101	-0.01
46	T	Bromodichloromethane	0.444	0.436	1.8	103	0.00
47	T	Dibromomethane	0.193	0.178	7.8	95	0.00
48	T	4-Methyl-2-pentanone	0.154	0.140	9.1	88	-0.01
49	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	0.00
50	T	cis-1,3-Dichloropropene	0.434	0.425	2.1	99	0.00
51	S	Toluene-d8	1.128	1.050	6.9	127	-0.01
52	C,T	Toluene	1.501	1.356	9.7	95	0.00
53	T	Ethyl methacrylate	0.227	0.226	0.4	100	-0.01
54	T	trans-1,3-Dichloropropene	0.285	0.292	-2.5	102	0.00
55	T	1,1,2-Trichloroethane	0.207	0.198	4.3	100	-0.01
56	T	2-Hexanone	0.105	0.096	8.6	87	-0.01
57	T	1,3-Dichloropropane	0.367	0.367	0.0	102	-0.01
58	T	Tetrachloroethene	0.369	0.356	3.5	105	0.00
59	T	Dibromochloromethane	0.325	0.359	-10.5	113	-0.01
60	T	1,2-Dibromoethane	0.222	0.228	-2.7	105	-0.01
61	T	1-Chlorohexane	1.699	1.582	6.9	96	-0.01
62	P	Chlorobenzene	0.931	0.935	-0.4	107	0.00
63	T	1,1,1,2-Tetrachloroethane	0.344	0.371	-7.8	113	-0.01
64	C,T	Ethylbenzene	1.769	1.678	5.1	100	-0.01
65	T	m-Xylene & p-Xylene	1.301	1.229	5.5	99	0.00
66	T	o-Xylene	1.296	1.244	4.0	101	-0.01
67	T	Styrene	0.916	0.934	-2.0	106	0.00
68	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	95	-0.01
69	T	Isopropylbenzene	3.627	3.835	-5.7	109	-0.01
70	P,T	Bromoform	0.384	0.413	-7.6	108	-0.01
71	P,T	1,1,2,2-Tetrachloroethane	0.678	0.643	5.2	97	-0.01
72	S	4-Bromofluorobenzene	0.888	0.937	-5.5	137	-0.01
73	T	1,2,3-Trichloropropane	0.289	0.303	-4.8	110	-0.01
74	T	trans-1,4-Dichloro-2-butene	0.075	0.087	-16.0	115	0.00
75	T	n-Propylbenzene	5.208	5.306	-1.9	103	0.00
76	T	Bromobenzene	0.943	0.951	-0.8	104	0.00
77	T	1,3,5-Trimethylbenzene	2.744	2.895	-5.5	107	0.00
78	T	2-Chlorotoluene	2.701	2.611	3.3	98	-0.01
79	T	4-Chlorotoluene	2.427	2.430	-0.1	107	0.00
80	T	tert-Butylbenzene	2.631	2.887	-9.7	112	0.00

(#) = Out of Range

2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKV299.D Vial: 5
Acq On : 10 Nov 2007 1:40 am Operator: DN
Sample : CVO01I24158 Inst : TO01
Misc : 10PPB 8260/20PPB KET_AA/50PPB TBA Multiplr: 1.00
MS Integration Params: 524TAIL.P

Method : D:\HPCHEM\1\METHODS\VO01I24.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Tue Sep 25 11:09:07 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	1,2,4-Trimethylbenzene	2.741	2.886	-5.3	108	0.00
82	T	sec-Butylbenzene	4.257	4.582	-7.6	110	-0.01
83	T	p-Isopropyltoluene	3.240	3.663	-13.1	115	-0.01
84	T	1,3-Dichlorobenzene	1.934	1.982	-2.5	107	0.00
85	T	1,4-Dichlorobenzene	1.836	1.871	-1.9	105	-0.01
86	T	n-Butylbenzene	3.550	3.564	-0.4	100	-0.01
87	T	1,2-Dichlorobenzene	1.623	1.652	-1.8	104	-0.01
88	T	1,2-Dibromo-3-chloropropane	0.090	0.086	4.4	95	0.00
89	T	1,2,4-Trichlorobenzene	0.778	0.886	-13.9	116	0.00
90	T	Hexachlorobutadiene	0.626	0.702	-12.1	118	0.00
91	T	Naphthalene	1.024	1.307	-27.6#	125	0.00
92	T	1,2,3-Trichlorobenzene	0.608	0.718	-18.1	118	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOG

2026

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 9.24.07 ☐ 5-mL Purge ☑ 25-mL Purge

Book # A01 -025

BATCH V001I246

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01		R IV 141	BFB01 I15	2ml	NA	NA		2:51 pm
02		142	16 ✓					
03		143	V001I24 1 ✓	.03/.03 .15ml				8260, Gases/Ket-A/FBA/ACN .3/.5/1.5/1.9 ppb
04		144	2 ✓	.05/.1 .25ml				.5/1/2.5/1.5
05		145	3 ✓	.1/.2/.5ml				1/2/5/3
06		146	4 ✓	.2/.4/1ml				2/4/10/6
07		147	5 ✓	.5/1/2.5ml				5/10/25/15
08		148	6 ✓	1/2/5ml				10/20/50/30
09		149	7 ✓	2/4/10ml				20/40/100/60
10		150	8 ✓	3/6/15ml				30/60/150/90
11		151	9 ✓	4/8/20ml				40/80/200/120
12		152	10 ✓	5/10/25ml				50/100/250/150ppb
13		153	IS/SS	5ml				
14		154	V001I15 B					
15		155	IV001I24 01 ✓	1/2/5ml				10/20/50/30 ppb
16		156	02					12:23pm
17								
18								
19								
20								
21								DN 9.25.07
22								
23								
24								
25								

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	9.24.07
ICAL ID	V001I24

STANDARDS

NAME	ID	CONC. (mg/L)
DCC 8260	SVI.13.1.2	50/250
DCC Ket-AA	.3.1	250
DCC Gases	.1.3	250
BFB	SVIC.11.87.3	50
IS/SURR. IS	SVIC-11.99.2	250
SS	.100.1	250
LCS 8260	SVIC-11.99.1	50/250
LCS Ket-AA	SVI.13.3.2	250
LCS Gases	.2.3	250

SOLVENT	ID
METHANOL	
DATA FILE	07I24

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: DN

Date Disposed: 9/25/07

Disposed By: DN

2027

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11.9.07 ☐ 5-mL Purge ☑ 25-mL Purge

Book # A01 -025

BATCH V001I24R2

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKV 295	BFB01KZY	2ml				
02	296	29 ✓					11:45pm
03	297	V001I24156	1/15ml				
04	298	157					
05	299	V001I24158 ✓					
06	300	V001K24L ✓					
07	301	B	25ml				
08	302	Q ✓					
09	303	07K033-01 ✓	25ml	1	<2		
10	304	-02 ✓					
11	305	07K076-03 ✓					
12	306	-01 ✓					
13	307	-02 ✓					
14	308	07K085-01 ✓					
15	309	-02 ✓					
16	310	-03 ✓					
17	311	-04 ✓					
18	312	-05 ✓					
19	313	-07 ✓					
20	314	V001K24C ✓	1/15ml				11:14am
21							
22			DN	11.09.07			
23							
24							
25							

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	9.24.07
ICAL ID	V001I24

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	Std. 13.10.3	
DCC	.11.3	
DCC	.10.1	
BFB	.5.1	
IS/SURR.	.16.3	50/50
LCS	.12.3	
LCS	.13.3	
LCS	.2.1	

SOLVENT	ID
METHANOL	
DATA FILE	07K09

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: DN

Date Disposed: 11/6/07

Disposed By: DN

2022

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 07K033

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07K033

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Twenty-one (21) soil samples were received on 11/02/07 for Volatile Organic analysis by Method 5035/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   Sample K033-05 was spiked. All recoveries were within QC limit.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07K033
Instrument ID : T-067

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	V067K20B	1	NA	11/07/0716:45	11/07/0716:45	RKC232	RJC757	V067K20	Method Blank
LCS1S	V067K20L	1	NA	11/07/0715:30	11/07/0715:30	RKC230	RJC757	V067K20	Lab Control Sample (LCS)
LCD1S	V067K20C	1	NA	11/07/0716:08	11/07/0716:08	RKC231	RJC757	V067K20	LCS Duplicate
SB3-10	K033-05	.85	5.6	11/07/0718:00	11/07/0718:00	RKC234	RJC757	V067K20	Field Sample
SB3-10MS	K033-05M	.93	5.6	11/07/0718:38	11/07/0718:38	RKC235	RJC757	V067K20	Matrix Spike Sample (MS)
SB3-10MSD	K033-05S	.83	5.6	11/07/0719:15	11/07/0719:15	RKC236	RJC757	V067K20	MS Duplicate (MSD)
SB3-0.5'	K033-03	.89	5.0	11/07/0719:53	11/07/0719:53	RKC237	RJC757	V067K20	Field Sample
SB3-5	K033-04	1.02	3.9	11/07/0720:30	11/07/0720:30	RKC238	RJC757	V067K20	Field Sample
SB3-15	K033-06	.89	4.6	11/07/0721:07	11/07/0721:07	RKC239	RJC757	V067K20	Field Sample
SB3-20	K033-07	.86	9.0	11/07/0721:44	11/07/0721:44	RKC240	RJC757	V067K20	Field Sample
SB3-20'DUP	K033-08	.96	9.5	11/07/0722:21	11/07/0722:21	RKC241	RJC757	V067K20	Field Sample
SB3-25	K033-09	.93	5.6	11/07/0722:58	11/07/0722:58	RKC242	RJC757	V067K20	Field Sample
SB3-25DUP	K033-10	.94	5.6	11/07/0723:36	11/07/0723:36	RKC243	RJC757	V067K20	Field Sample
SB3-30	K033-11	.88	5.3	11/08/0700:14	11/08/0700:14	RKC244	RJC757	V067K20	Field Sample
SB3-35	K033-12	.76	7.2	11/08/0700:51	11/08/0700:51	RKC245	RJC757	V067K20	Field Sample
SB3-40	K033-13	.78	8.3	11/08/0701:29	11/08/0701;29	RKC246	RJC757	V067K20	Field Sample
MBLK2S	V067K35B	1	NA	11/15/0714:15	11/15/0714:15	RKC404	RJC757	V067K35	Method Blank
LCS2S	V067K35L	1	NA	11/15/0713:01	11/15/0713:01	RKC402	RJC757	V067K35	Lab Control Sample (LCS)
LCD2S	V067K35C	1	NA	11/15/0713:38	11/15/0713:38	RKC403	RJC757	V067K35	LCS Duplicate
SB3-90	K033-23	.77	11.3	11/15/0714:52	11/15/0714:52	RKC405	RJC757	V067K35	Field Sample
SB3-45	K033-14R	.74	9.7	11/15/0715:30	11/15/0715:30	RKC406	RJC757	V067K35	Field Sample
SB3-50	K033-15R	.79	5.9	11/15/0716:07	11/15/0716:07	RKC407	RJC757	V067K35	Field Sample
SB3-55	K033-16R	.85	8.6	11/15/0716:44	11/15/0716:44	RKC408	RJC757	V067K35	Field Sample
SB3-60	K033-17R	.98	7.8	11/15/0717:21	11/15/0717:21	RKC409	RJC757	V067K35	Field Sample
SB3-65	K033-18R	.98	8.4	11/15/0717:57	11/15/0717:57	RKC410	RJC757	V067K35	Field Sample
MBLK3S!	V003K31Q	1	NA	11/15/0717:52	11/15/0717:52	RKB359	RKB197	V003K31	Method Blank
LCS3S!	V003K31L	1	NA	11/15/0712:53	11/15/0712:53	RKB351	RKB197	V003K31	Lab Control Sample (LCS)
LCD3S!	V003K31C	1	NA	11/15/0713:30	11/15/0713:30	RKB352	RKB197	V003K31	LCS Duplicate
SB3-70!	K033-19R	.75	9.8	11/15/0714:44	11/15/0714:44	RKB354	RKB197	V003K31	Field Sample
SB3-75!	K033-20R	.85	10.6	11/15/0715:23	11/15/0715:23	RKB355	RKB197	V003K31	Field Sample
SB3-80!	K033-21R	.77	8.3	11/15/0715:59	11/15/0715:59	RKB356	RKB197	V003K31	Field Sample
SB3-85!	K033-22R	.88	9.7	11/15/0716:36	11/15/0716:36	RKB357	RKB197	V003K31	Field Sample

! Instrument ID : T-003
FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/07/07 19:53
Sample ID:	SB3-0.5'	Date Analyzed:	11/07/07 19:53
Lab Samp ID:	K033-03	Dilution Factor:	.89
Lab File ID:	RKC237	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	5.0
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.4	4.7
2-HEXANONE	ND	9.4	4.7
4-METHYL-2-PENTANONE	ND	9.4	4.7
ACETONE	ND	9.4	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.4	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.4	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.4	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	2.4J	9.4	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	ND	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9
TERT-BUTANOL	ND	19	9.4
DIPE	ND	4.7	1.9
ETBE	ND	4.7	1.9
TAME	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	60-160
4-BROMOFLUOROBENZENE	95	70-150
TOLUENE-D8	91	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/07/07 20:30
Sample ID:	SB3-5	Date Analyzed:	11/07/07 20:30
Lab Samp ID:	K033-04	Dilution Factor:	1.02
Lab File ID:	RKC238	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	3.9
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.3	2.1
1,1,2,2-TETRACHLOROETHANE	ND	5.3	2.1
1,1,2-TRICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHENE	ND	5.3	2.1
1,2-DICHLOROETHANE	ND	5.3	2.1
1,2-DICHLOROPROPANE	ND	5.3	2.1
2-BUTANONE	ND	11	5.3
2-HEXANONE	ND	11	5.3
4-METHYL-2-PENTANONE	ND	11	5.3
ACETONE	ND	11	5.3
BENZENE	ND	5.3	2.1
BROMODICHLOROMETHANE	ND	5.3	2.1
BROMOFORM	ND	5.3	2.1
BROMOMETHANE	ND	11	2.1
CARBON DISULFIDE	ND	5.3	2.1
CARBON TETRACHLORIDE	ND	5.3	2.1
CHLOROBENZENE	ND	5.3	2.1
CHLOROETHANE	ND	5.3	2.1
CHLOROFORM	ND	5.3	2.1
CHLOROMETHANE	ND	11	2.1
CIS-1,2-DICHLOROETHENE	ND	5.3	2.1
CIS-1,3-DICHLOROPROPENE	ND	5.3	2.1
DIBROMOCHLOROMETHANE	ND	5.3	2.1
ETHYLBENZENE	ND	5.3	2.1
M/P-XYLENES	ND	11	2.1
MTBE	ND	5.3	2.1
METHYLENE CHLORIDE	4.3J	11	2.1
O-XYLENE	ND	5.3	2.1
STYRENE	ND	5.3	2.1
TETRACHLOROETHENE	ND	5.3	2.1
TOLUENE	ND	5.3	2.1
TRANS-1,2-DICHLOROETHENE	ND	5.3	2.1
TRANS-1,3-DICHLOROPROPENE	ND	5.3	2.1
TRICHLOROETHENE	ND	5.3	2.1
VINYL CHLORIDE	ND	5.3	2.1
TERT-BUTANOL	ND	21	11
DIPE	ND	5.3	2.1
ETBE	ND	5.3	2.1
TAME	ND	5.3	2.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	60-160
4-BROMOFLUOROBENZENE	96	70-150
TOLUENE-D8	95	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/07/07 18:00
Sample ID:	SB3-10	Date Analyzed:	11/07/07 18:00
Lab Samp ID:	K033-05	Dilution Factor:	.85
Lab File ID:	RKC234	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	5.6
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.5	1.8
1,1,2,2-TETRACHLOROETHANE	ND	4.5	1.8
1,1,2-TRICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHANE	ND	4.5	1.8
1,1-DICHLOROETHENE	ND	4.5	1.8
1,2-DICHLOROETHANE	ND	4.5	1.8
1,2-DICHLOROPROPANE	ND	4.5	1.8
2-BUTANONE	ND	9.0	4.5
2-HEXANONE	ND	9.0	4.5
4-METHYL-2-PENTANONE	ND	9.0	4.5
ACETONE	ND	9.0	4.5
BENZENE	ND	4.5	1.8
BROMODICHLOROMETHANE	ND	4.5	1.8
BROMOFORM	ND	4.5	1.8
BROMOMETHANE	ND	9.0	1.8
CARBON DISULFIDE	ND	4.5	1.8
CARBON TETRACHLORIDE	ND	4.5	1.8
CHLOROBENZENE	ND	4.5	1.8
CHLOROETHANE	ND	4.5	1.8
CHLOROFORM	ND	4.5	1.8
CHLOROMETHANE	ND	9.0	1.8
CIS-1,2-DICHLOROETHENE	ND	4.5	1.8
CIS-1,3-DICHLOROPROPENE	ND	4.5	1.8
DIBROMOCHLOROMETHANE	ND	4.5	1.8
ETHYLBENZENE	ND	4.5	1.8
M/P-XYLENES	ND	9.0	1.8
MTBE	ND	4.5	1.8
METHYLENE CHLORIDE	ND	9.0	1.8
O-XYLENE	ND	4.5	1.8
STYRENE	ND	4.5	1.8
TETRACHLOROETHENE	ND	4.5	1.8
TOLUENE	ND	4.5	1.8
TRANS-1,2-DICHLOROETHENE	ND	4.5	1.8
TRANS-1,3-DICHLOROPROPENE	ND	4.5	1.8
TRICHLOROETHENE	ND	4.5	1.8
VINYL CHLORIDE	ND	4.5	1.8
TERT-BUTANOL	ND	18	9.0
DIPE	ND	4.5	1.8
ETBE	ND	4.5	1.8
TAME	ND	4.5	1.8

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	60-160
4-BROMOFLUOROBENZENE	93	70-150
TOLUENE-D8	93	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/07/07 21:07
Sample ID:	SB3-15	Date Analyzed:	11/07/07 21:07
Lab Samp ID:	K033-06	Dilution Factor:	.89
Lab File ID:	RKC239	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	4.6
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.3	4.7
2-HEXANONE	ND	9.3	4.7
4-METHYL-2-PENTANONE	ND	9.3	4.7
ACETONE	5.0J	9.3	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.3	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.3	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.3	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	ND	9.3	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	ND	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9
TERT-BUTANOL	ND	19	9.3
DIPE	ND	4.7	1.9
ETBE	ND	4.7	1.9
TAME	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	60-160
4-BROMOFLUOROBENZENE	90	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/07/07 21:44
Sample ID:	SB3-20	Date Analyzed:	11/07/07 21:44
Lab Samp ID:	K033-07	Dilution Factor:	.86
Lab File ID:	RKC240	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	9.0
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.7	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.7	1.9
1,1,2-TRICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHANE	ND	4.7	1.9
1,1-DICHLOROETHENE	ND	4.7	1.9
1,2-DICHLOROETHANE	ND	4.7	1.9
1,2-DICHLOROPROPANE	ND	4.7	1.9
2-BUTANONE	ND	9.5	4.7
2-HEXANONE	ND	9.5	4.7
4-METHYL-2-PENTANONE	ND	9.5	4.7
ACETONE	ND	9.5	4.7
BENZENE	ND	4.7	1.9
BROMODICHLOROMETHANE	ND	4.7	1.9
BROMOFORM	ND	4.7	1.9
BROMOMETHANE	ND	9.5	1.9
CARBON DISULFIDE	ND	4.7	1.9
CARBON TETRACHLORIDE	ND	4.7	1.9
CHLOROBENZENE	ND	4.7	1.9
CHLOROETHANE	ND	4.7	1.9
CHLOROFORM	ND	4.7	1.9
CHLOROMETHANE	ND	9.5	1.9
CIS-1,2-DICHLOROETHENE	ND	4.7	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.7	1.9
DIBROMOCHLOROMETHANE	ND	4.7	1.9
ETHYLBENZENE	ND	4.7	1.9
M/P-XYLENES	ND	9.5	1.9
MTBE	ND	4.7	1.9
METHYLENE CHLORIDE	2.7J	9.5	1.9
O-XYLENE	ND	4.7	1.9
STYRENE	ND	4.7	1.9
TETRACHLOROETHENE	ND	4.7	1.9
TOLUENE	ND	4.7	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.7	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.7	1.9
TRICHLOROETHENE	ND	4.7	1.9
VINYL CHLORIDE	ND	4.7	1.9
TERT-BUTANOL	ND	19	9.5
DIPE	ND	4.7	1.9
ETBE	ND	4.7	1.9
TAME	ND	4.7	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	60-160
4-BROMOFLUOROBENZENE	92	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/07/07 22:21
Sample ID:	SB3-20'DUP	Date Analyzed:	11/07/07 22:21
Lab Samp ID:	K033-08	Dilution Factor:	.96
Lab File ID:	RKC241	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	9.5
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.3	2.1
1,1,2,2-TETRACHLOROETHANE	ND	5.3	2.1
1,1,2-TRICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHENE	ND	5.3	2.1
1,2-DICHLOROETHANE	ND	5.3	2.1
1,2-DICHLOROPROPANE	ND	5.3	2.1
2-BUTANONE	ND	11	5.3
2-HEXANONE	ND	11	5.3
4-METHYL-2-PENTANONE	ND	11	5.3
ACETONE	ND	11	5.3
BENZENE	ND	5.3	2.1
BROMODICHLOROMETHANE	ND	5.3	2.1
BROMOFORM	ND	5.3	2.1
BROMOMETHANE	ND	11	2.1
CARBON DISULFIDE	ND	5.3	2.1
CARBON TETRACHLORIDE	ND	5.3	2.1
CHLOROBENZENE	ND	5.3	2.1
CHLOROETHANE	ND	5.3	2.1
CHLOROFORM	ND	5.3	2.1
CHLOROMETHANE	ND	11	2.1
CIS-1,2-DICHLOROETHENE	ND	5.3	2.1
CIS-1,3-DICHLOROPROPENE	ND	5.3	2.1
DIBROMOCHLOROMETHANE	ND	5.3	2.1
ETHYLBENZENE	ND	5.3	2.1
M/P-XYLENES	ND	11	2.1
MTBE	ND	5.3	2.1
METHYLENE CHLORIDE	ND	11	2.1
O-XYLENE	ND	5.3	2.1
STYRENE	ND	5.3	2.1
TETRACHLOROETHENE	ND	5.3	2.1
TOLUENE	ND	5.3	2.1
TRANS-1,2-DICHLOROETHENE	ND	5.3	2.1
TRANS-1,3-DICHLOROPROPENE	ND	5.3	2.1
TRICHLOROETHENE	ND	5.3	2.1
VINYL CHLORIDE	ND	5.3	2.1
TERT-BUTANOL	ND	21	11
DIPE	ND	5.3	2.1
ETBE	ND	5.3	2.1
TAME	ND	5.3	2.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	100	60-160
4-BROMOFLUOROBENZENE	94	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/07/07 22:58
Sample ID:	SB3-25	Date Analyzed:	11/07/07 22:58
Lab Samp ID:	K033-09	Dilution Factor:	.93
Lab File ID:	RKC242	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	5.6
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.9	2.0
1,1,2,2-TETRACHLOROETHANE	ND	4.9	2.0
1,1,2-TRICHLOROETHANE	ND	4.9	2.0
1,1-DICHLOROETHANE	ND	4.9	2.0
1,1-DICHLOROETHENE	ND	4.9	2.0
1,2-DICHLOROETHANE	ND	4.9	2.0
1,2-DICHLOROPROPANE	ND	4.9	2.0
2-BUTANONE	ND	9.9	4.9
2-HEXANONE	ND	9.9	4.9
4-METHYL-2-PENTANONE	ND	9.9	4.9
ACETONE	ND	9.9	4.9
BENZENE	ND	4.9	2.0
BROMODICHLOROMETHANE	ND	4.9	2.0
BROMOFORM	ND	4.9	2.0
BROMOMETHANE	ND	9.9	2.0
CARBON DISULFIDE	ND	4.9	2.0
CARBON TETRACHLORIDE	ND	4.9	2.0
CHLOROBENZENE	ND	4.9	2.0
CHLOROETHANE	ND	4.9	2.0
CHLOROFORM	ND	4.9	2.0
CHLOROMETHANE	ND	9.9	2.0
CIS-1,2-DICHLOROETHENE	ND	4.9	2.0
CIS-1,3-DICHLOROPROPENE	ND	4.9	2.0
DIBROMOCHLOROMETHANE	ND	4.9	2.0
ETHYLBENZENE	ND	4.9	2.0
M/P-XYLENES	ND	9.9	2.0
MTBE	ND	4.9	2.0
METHYLENE CHLORIDE	ND	9.9	2.0
O-XYLENE	ND	4.9	2.0
STYRENE	ND	4.9	2.0
TETRACHLOROETHENE	ND	4.9	2.0
TOLUENE	ND	4.9	2.0
TRANS-1,2-DICHLOROETHENE	ND	4.9	2.0
TRANS-1,3-DICHLOROPROPENE	ND	4.9	2.0
TRICHLOROETHENE	ND	4.9	2.0
VINYL CHLORIDE	ND	4.9	2.0
TERT-BUTANOL	ND	20	9.9
DIPE	ND	4.9	2.0
ETBE	ND	4.9	2.0
TAME	ND	4.9	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	60-160
4-BROMOFLUOROBENZENE	90	70-150
TOLUENE-D8	91	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/07/07 23:36
Sample ID:	SB3-25DUP	Date Analyzed:	11/07/07 23:36
Lab Samp ID:	K033-10	Dilution Factor:	.94
Lab File ID:	RKC243	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	5.6
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	60-160
4-BROMOFLUOROBENZENE	92	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/08/07 00:14
Sample ID:	SB3-30	Date Analyzed:	11/08/07 00:14
Lab Samp ID:	K033-11	Dilution Factor:	.88
Lab File ID:	RKC244	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	5.3
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.6	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.6	1.9
1,1,2-TRICHLOROETHANE	ND	4.6	1.9
1,1-DICHLOROETHANE	ND	4.6	1.9
1,1-DICHLOROETHENE	ND	4.6	1.9
1,2-DICHLOROETHANE	ND	4.6	1.9
1,2-DICHLOROPROPANE	ND	4.6	1.9
2-BUTANONE	ND	9.3	4.6
2-HEXANONE	ND	9.3	4.6
4-METHYL-2-PENTANONE	ND	9.3	4.6
ACETONE	6.7J	9.3	4.6
BENZENE	ND	4.6	1.9
BROMODICHLOROMETHANE	ND	4.6	1.9
BROMOFORM	ND	4.6	1.9
BROMOMETHANE	ND	9.3	1.9
CARBON DISULFIDE	ND	4.6	1.9
CARBON TETRACHLORIDE	ND	4.6	1.9
CHLOROBENZENE	ND	4.6	1.9
CHLOROETHANE	ND	4.6	1.9
CHLOROFORM	ND	4.6	1.9
CHLOROMETHANE	ND	9.3	1.9
CIS-1,2-DICHLOROETHENE	ND	4.6	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.6	1.9
DIBROMOCHLOROMETHANE	ND	4.6	1.9
ETHYLBENZENE	ND	4.6	1.9
M/P-XYLENES	ND	9.3	1.9
MTBE	ND	4.6	1.9
METHYLENE CHLORIDE	ND	9.3	1.9
O-XYLENE	ND	4.6	1.9
STYRENE	ND	4.6	1.9
TETRACHLOROETHENE	ND	4.6	1.9
TOLUENE	ND	4.6	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.6	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.6	1.9
TRICHLOROETHENE	ND	4.6	1.9
VINYL CHLORIDE	ND	4.6	1.9
TERT-BUTANOL	ND	19	9.3
DIPE	ND	4.6	1.9
ETBE	ND	4.6	1.9
TAME	ND	4.6	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	60-160
4-BROMOFLUOROBENZENE	92	70-150
TOLUENE-D8	91	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/08/07 00:51
Sample ID:	SB3-35	Date Analyzed:	11/08/07 00:51
Lab Samp ID:	K033-12	Dilution Factor:	.76
Lab File ID:	RKC245	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	7.2
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.1	1.6
1,1,2,2-TETRACHLOROETHANE	ND	4.1	1.6
1,1,2-TRICHLOROETHANE	ND	4.1	1.6
1,1-DICHLOROETHANE	ND	4.1	1.6
1,1-DICHLOROETHENE	ND	4.1	1.6
1,2-DICHLOROETHANE	ND	4.1	1.6
1,2-DICHLOROPROPANE	ND	4.1	1.6
2-BUTANONE	ND	8.2	4.1
2-HEXANONE	ND	8.2	4.1
4-METHYL-2-PENTANONE	ND	8.2	4.1
ACETONE	ND	8.2	4.1
BENZENE	ND	4.1	1.6
BROMODICHLOROMETHANE	ND	4.1	1.6
BROMOFORM	ND	4.1	1.6
BROMOMETHANE	ND	8.2	1.6
CARBON DISULFIDE	ND	4.1	1.6
CARBON TETRACHLORIDE	ND	4.1	1.6
CHLOROBENZENE	ND	4.1	1.6
CHLOROETHANE	ND	4.1	1.6
CHLOROFORM	ND	4.1	1.6
CHLOROMETHANE	ND	8.2	1.6
CIS-1,2-DICHLOROETHENE	ND	4.1	1.6
CIS-1,3-DICHLOROPROPENE	ND	4.1	1.6
DIBROMOCHLOROMETHANE	ND	4.1	1.6
ETHYLBENZENE	ND	4.1	1.6
M/P-XYLENES	ND	8.2	1.6
MTBE	ND	4.1	1.6
METHYLENE CHLORIDE	ND	8.2	1.6
O-XYLENE	ND	4.1	1.6
STYRENE	ND	4.1	1.6
TETRACHLOROETHENE	ND	4.1	1.6
TOLUENE	ND	4.1	1.6
TRANS-1,2-DICHLOROETHENE	ND	4.1	1.6
TRANS-1,3-DICHLOROPROPENE	ND	4.1	1.6
TRICHLOROETHENE	ND	4.1	1.6
VINYL CHLORIDE	ND	4.1	1.6
TERT-BUTANOL	ND	16	8.2
DIPE	ND	4.1	1.6
ETBE	ND	4.1	1.6
TAME	ND	4.1	1.6

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	60-160
4-BROMOFLUOROBENZENE	90	70-150
TOLUENE-D8	93	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/08/07 01:29
Sample ID:	SB3-40	Date Analyzed:	11/08/07 01:29
Lab Samp ID:	K033-13	Dilution Factor:	.78
Lab File ID:	RKC246	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	8.3
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.3	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.3	1.7
1,1,2-TRICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHENE	ND	4.3	1.7
1,2-DICHLOROETHANE	ND	4.3	1.7
1,2-DICHLOROPROPANE	ND	4.3	1.7
2-BUTANONE	ND	8.5	4.3
2-HEXANONE	ND	8.5	4.3
4-METHYL-2-PENTANONE	ND	8.5	4.3
ACETONE	ND	8.5	4.3
BENZENE	ND	4.3	1.7
BROMODICHLOROMETHANE	ND	4.3	1.7
BROMOFORM	ND	4.3	1.7
BROMOMETHANE	ND	8.5	1.7
CARBON DISULFIDE	ND	4.3	1.7
CARBON TETRACHLORIDE	ND	4.3	1.7
CHLOROBENZENE	ND	4.3	1.7
CHLOROETHANE	ND	4.3	1.7
CHLOROFORM	ND	4.3	1.7
CHLOROMETHANE	ND	8.5	1.7
CIS-1,2-DICHLOROETHENE	ND	4.3	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.3	1.7
DIBROMOCHLOROMETHANE	ND	4.3	1.7
ETHYLBENZENE	ND	4.3	1.7
M/P-XYLENES	ND	8.5	1.7
MTBE	ND	4.3	1.7
METHYLENE CHLORIDE	ND	8.5	1.7
O-XYLENE	ND	4.3	1.7
STYRENE	ND	4.3	1.7
TETRACHLOROETHENE	ND	4.3	1.7
TOLUENE	ND	4.3	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.3	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.3	1.7
TRICHLOROETHENE	ND	4.3	1.7
VINYL CHLORIDE	ND	4.3	1.7
TERT-BUTANOL	ND	17	8.5
DIPE	ND	4.3	1.7
ETBE	ND	4.3	1.7
TAME	ND	4.3	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	60-160
4-BROMOFLUOROBENZENE	92	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 15:30
Sample ID:	SB3-45	Date Analyzed:	11/15/07 15:30
Lab Samp ID:	K033-14R	Dilution Factor:	.74
Lab File ID:	RKC406	Matrix :	SOIL
Ext Btch ID:	V067K35	% Moisture :	9.7
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.1	1.6
1,1,2,2-TETRACHLOROETHANE	ND	4.1	1.6
1,1,2-TRICHLOROETHANE	ND	4.1	1.6
1,1-DICHLOROETHANE	ND	4.1	1.6
1,1-DICHLOROETHENE	ND	4.1	1.6
1,2-DICHLOROETHANE	ND	4.1	1.6
1,2-DICHLOROPROPANE	ND	4.1	1.6
2-BUTANONE	ND	8.2	4.1
2-HEXANONE	ND	8.2	4.1
4-METHYL-2-PENTANONE	ND	8.2	4.1
ACETONE	ND	8.2	4.1
BENZENE	ND	4.1	1.6
BROMODICHLOROMETHANE	ND	4.1	1.6
BROMOFORM	ND	4.1	1.6
BROMOMETHANE	ND	8.2	1.6
CARBON DISULFIDE	ND	4.1	1.6
CARBON TETRACHLORIDE	ND	4.1	1.6
CHLOROBENZENE	ND	4.1	1.6
CHLOROETHANE	ND	4.1	1.6
CHLOROFORM	ND	4.1	1.6
CHLOROMETHANE	ND	8.2	1.6
CIS-1,2-DICHLOROETHENE	ND	4.1	1.6
CIS-1,3-DICHLOROPROPENE	ND	4.1	1.6
DIBROMOCHLOROMETHANE	ND	4.1	1.6
ETHYLBENZENE	ND	4.1	1.6
M/P-XYLENES	ND	8.2	1.6
MTBE	ND	4.1	1.6
METHYLENE CHLORIDE	ND	8.2	1.6
O-XYLENE	ND	4.1	1.6
STYRENE	ND	4.1	1.6
TETRACHLOROETHENE	ND	4.1	1.6
TOLUENE	ND	4.1	1.6
TRANS-1,2-DICHLOROETHENE	ND	4.1	1.6
TRANS-1,3-DICHLOROPROPENE	ND	4.1	1.6
TRICHLOROETHENE	ND	4.1	1.6
VINYL CHLORIDE	ND	4.1	1.6
TERT-BUTANOL	ND	16	8.2
DIPE	ND	4.1	1.6
ETBE	ND	4.1	1.6
TAME	ND	4.1	1.6

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	60-160
4-BROMOFLUOROBENZENE	93	70-150
TOLUENE-D8	90	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 16:07
Sample ID:	SB3-50	Date Analyzed:	11/15/07 16:07
Lab Samp ID:	K033-15R	Dilution Factor:	.79
Lab File ID:	RKC407	Matrix :	SOIL
Ext Btch ID:	V067K35	% Moisture :	5.9
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.2	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.2	1.7
1,1,2-TRICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHENE	ND	4.2	1.7
1,2-DICHLOROETHANE	ND	4.2	1.7
1,2-DICHLOROPROPANE	ND	4.2	1.7
2-BUTANONE	ND	8.4	4.2
2-HEXANONE	ND	8.4	4.2
4-METHYL-2-PENTANONE	ND	8.4	4.2
ACETONE	ND	8.4	4.2
BENZENE	ND	4.2	1.7
BROMODICHLOROMETHANE	ND	4.2	1.7
BROMOFORM	ND	4.2	1.7
BROMOMETHANE	ND	8.4	1.7
CARBON DISULFIDE	ND	4.2	1.7
CARBON TETRACHLORIDE	ND	4.2	1.7
CHLOROBENZENE	ND	4.2	1.7
CHLOROETHANE	ND	4.2	1.7
CHLOROFORM	ND	4.2	1.7
CHLOROMETHANE	ND	8.4	1.7
CIS-1,2-DICHLOROETHENE	ND	4.2	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.2	1.7
DIBROMOCHLOROMETHANE	ND	4.2	1.7
ETHYLBENZENE	ND	4.2	1.7
M/P-XYLENES	ND	8.4	1.7
MTBE	ND	4.2	1.7
METHYLENE CHLORIDE	ND	8.4	1.7
O-XYLENE	ND	4.2	1.7
STYRENE	ND	4.2	1.7
TETRACHLOROETHENE	ND	4.2	1.7
TOLUENE	ND	4.2	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.2	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.2	1.7
TRICHLOROETHENE	ND	4.2	1.7
VINYL CHLORIDE	ND	4.2	1.7
TERT-BUTANOL	ND	17	8.4
DIPE	ND	4.2	1.7
ETBE	ND	4.2	1.7
TAME	ND	4.2	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	60-160
4-BROMOFLUOROBENZENE	92	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 16:44
Sample ID:	SB3-55	Date Analyzed:	11/15/07 16:44
Lab Samp ID:	K033-16R	Dilution Factor:	.85
Lab File ID:	RKC408	Matrix :	SOIL
Ext Btch ID:	V067K35	% Moisture :	8.6
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.6	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.6	1.9
1,1,2-TRICHLOROETHANE	ND	4.6	1.9
1,1-DICHLOROETHANE	ND	4.6	1.9
1,1-DICHLOROETHENE	ND	4.6	1.9
1,2-DICHLOROETHANE	ND	4.6	1.9
1,2-DICHLOROPROPANE	ND	4.6	1.9
2-BUTANONE	ND	9.3	4.6
2-HEXANONE	ND	9.3	4.6
4-METHYL-2-PENTANONE	ND	9.3	4.6
ACETONE	ND	9.3	4.6
BENZENE	ND	4.6	1.9
BROMODICHLOROMETHANE	ND	4.6	1.9
BROMOFORM	ND	4.6	1.9
BROMOMETHANE	ND	9.3	1.9
CARBON DISULFIDE	ND	4.6	1.9
CARBON TETRACHLORIDE	ND	4.6	1.9
CHLOROBENZENE	ND	4.6	1.9
CHLOROETHANE	ND	4.6	1.9
CHLOROFORM	ND	4.6	1.9
CHLOROMETHANE	ND	9.3	1.9
CIS-1,2-DICHLOROETHENE	ND	4.6	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.6	1.9
DIBROMOCHLOROMETHANE	ND	4.6	1.9
ETHYLBENZENE	ND	4.6	1.9
M/P-XYLENES	ND	9.3	1.9
MTBE	ND	4.6	1.9
METHYLENE CHLORIDE	ND	9.3	1.9
O-XYLENE	ND	4.6	1.9
STYRENE	ND	4.6	1.9
TETRACHLOROETHENE	ND	4.6	1.9
TOLUENE	ND	4.6	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.6	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.6	1.9
TRICHLOROETHENE	ND	4.6	1.9
VINYL CHLORIDE	ND	4.6	1.9
TERT-BUTANOL	ND	19	9.3
DIPE	ND	4.6	1.9
ETBE	ND	4.6	1.9
TAME	ND	4.6	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	60-160
4-BROMOFLUOROBENZENE	93	70-150
TOLUENE-D8	93	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 17:21
Sample ID:	SB3-60	Date Analyzed:	11/15/07 17:21
Lab Samp ID:	K033-17R	Dilution Factor:	.98
Lab File ID:	RKC409	Matrix :	SOIL
Ext Btch ID:	V067K35	% Moisture :	7.8
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.3	2.1
1,1,2,2-TETRACHLOROETHANE	ND	5.3	2.1
1,1,2-TRICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHENE	ND	5.3	2.1
1,2-DICHLOROETHANE	ND	5.3	2.1
1,2-DICHLOROPROPANE	ND	5.3	2.1
2-BUTANONE	ND	11	5.3
2-HEXANONE	ND	11	5.3
4-METHYL-2-PENTANONE	ND	11	5.3
ACETONE	ND	11	5.3
BENZENE	ND	5.3	2.1
BROMODICHLOROMETHANE	ND	5.3	2.1
BROMOFORM	ND	5.3	2.1
BROMOMETHANE	ND	11	2.1
CARBON DISULFIDE	ND	5.3	2.1
CARBON TETRACHLORIDE	ND	5.3	2.1
CHLOROBENZENE	ND	5.3	2.1
CHLOROETHANE	ND	5.3	2.1
CHLOROFORM	ND	5.3	2.1
CHLOROMETHANE	ND	11	2.1
CIS-1,2-DICHLOROETHENE	ND	5.3	2.1
CIS-1,3-DICHLOROPROPENE	ND	5.3	2.1
DIBROMOCHLOROMETHANE	ND	5.3	2.1
ETHYLBENZENE	ND	5.3	2.1
M/P-XYLENES	ND	11	2.1
MTBE	ND	5.3	2.1
METHYLENE CHLORIDE	ND	11	2.1
O-XYLENE	ND	5.3	2.1
STYRENE	ND	5.3	2.1
TETRACHLOROETHENE	ND	5.3	2.1
TOLUENE	ND	5.3	2.1
TRANS-1,2-DICHLOROETHENE	ND	5.3	2.1
TRANS-1,3-DICHLOROPROPENE	ND	5.3	2.1
TRICHLOROETHENE	ND	5.3	2.1
VINYL CHLORIDE	ND	5.3	2.1
TERT-BUTANOL	ND	21	11
DIPE	ND	5.3	2.1
ETBE	ND	5.3	2.1
TAME	ND	5.3	2.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	92	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 17:57
Sample ID:	SB3-65	Date Analyzed:	11/15/07 17:57
Lab Samp ID:	K033-18R	Dilution Factor:	.98
Lab File ID:	RKC410	Matrix :	SOIL
Ext Btch ID:	V067K35	% Moisture :	8.4
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.3	2.1
1,1,2,2-TETRACHLOROETHANE	ND	5.3	2.1
1,1,2-TRICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHANE	ND	5.3	2.1
1,1-DICHLOROETHENE	ND	5.3	2.1
1,2-DICHLOROETHANE	ND	5.3	2.1
1,2-DICHLOROPROPANE	ND	5.3	2.1
2-BUTANONE	ND	11	5.3
2-HEXANONE	ND	11	5.3
4-METHYL-2-PENTANONE	ND	11	5.3
ACETONE	ND	11	5.3
BENZENE	ND	5.3	2.1
BROMODICHLOROMETHANE	ND	5.3	2.1
BROMOFORM	ND	5.3	2.1
BROMOMETHANE	ND	11	2.1
CARBON DISULFIDE	ND	5.3	2.1
CARBON TETRACHLORIDE	ND	5.3	2.1
CHLOROBENZENE	ND	5.3	2.1
CHLOROETHANE	ND	5.3	2.1
CHLOROFORM	ND	5.3	2.1
CHLOROMETHANE	ND	11	2.1
CIS-1,2-DICHLOROETHENE	ND	5.3	2.1
CIS-1,3-DICHLOROPROPENE	ND	5.3	2.1
DIBROMOCHLOROMETHANE	ND	5.3	2.1
ETHYLBENZENE	ND	5.3	2.1
M/P-XYLENES	ND	11	2.1
MTBE	ND	5.3	2.1
METHYLENE CHLORIDE	ND	11	2.1
O-XYLENE	ND	5.3	2.1
STYRENE	ND	5.3	2.1
TETRACHLOROETHENE	ND	5.3	2.1
TOLUENE	ND	5.3	2.1
TRANS-1,2-DICHLOROETHENE	ND	5.3	2.1
TRANS-1,3-DICHLOROPROPENE	ND	5.3	2.1
TRICHLOROETHENE	ND	5.3	2.1
VINYL CHLORIDE	ND	5.3	2.1
TERT-BUTANOL	ND	21	11
DIPE	ND	5.3	2.1
ETBE	ND	5.3	2.1
TAME	ND	5.3	2.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	60-160
4-BROMOFLUOROBENZENE	93	70-150
TOLUENE-D8	90	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 14:44
Sample ID:	SB3-70	Date Analyzed:	11/15/07 14:44
Lab Samp ID:	K033-19R	Dilution Factor:	.75
Lab File ID:	RKB354	Matrix :	SOIL
Ext Btch ID:	V003K31	% Moisture :	9.8
Calib. Ref.:	RKB197	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.2	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.2	1.7
1,1,2-TRICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHENE	ND	4.2	1.7
1,2-DICHLOROETHANE	ND	4.2	1.7
1,2-DICHLOROPROPANE	ND	4.2	1.7
2-BUTANONE	ND	8.3	4.2
2-HEXANONE	ND	8.3	4.2
4-METHYL-2-PENTANONE	ND	8.3	4.2
ACETONE	ND	8.3	4.2
BENZENE	ND	4.2	1.7
BROMODICHLOROMETHANE	ND	4.2	1.7
BROMOFORM	ND	4.2	1.7
BROMOMETHANE	ND	8.3	1.7
CARBON DISULFIDE	ND	4.2	1.7
CARBON TETRACHLORIDE	ND	4.2	1.7
CHLOROBENZENE	ND	4.2	1.7
CHLOROETHANE	ND	4.2	1.7
CHLOROFORM	ND	4.2	1.7
CHLOROMETHANE	ND	8.3	1.7
CIS-1,2-DICHLOROETHENE	ND	4.2	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.2	1.7
DIBROMOCHLOROMETHANE	ND	4.2	1.7
ETHYLBENZENE	ND	4.2	1.7
M/P-XYLENES	ND	8.3	1.7
MTBE	ND	4.2	1.7
METHYLENE CHLORIDE	ND	8.3	1.7
O-XYLENE	ND	4.2	1.7
STYRENE	ND	4.2	1.7
TETRACHLOROETHENE	ND	4.2	1.7
TOLUENE	ND	4.2	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.2	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.2	1.7
TRICHLOROETHENE	ND	4.2	1.7
VINYL CHLORIDE	ND	4.2	1.7
TERT-BUTANOL	ND	17	8.3
DIPE	ND	4.2	1.7
ETBE	ND	4.2	1.7
TAME	ND	4.2	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	60-160
4-BROMOFLUOROBENZENE	92	70-150
TOLUENE-D8	95	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 15:23
Sample ID:	SB3-75	Date Analyzed:	11/15/07 15:23
Lab Samp ID:	K033-20R	Dilution Factor:	.85
Lab File ID:	RKB355	Matrix :	SOIL
Ext Btch ID:	V003K31	% Moisture :	10.6
Calib. Ref.:	RKB197	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.8	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.8	1.9
1,1,2-TRICHLOROETHANE	ND	4.8	1.9
1,1-DICHLOROETHANE	ND	4.8	1.9
1,1-DICHLOROETHENE	ND	4.8	1.9
1,2-DICHLOROETHANE	ND	4.8	1.9
1,2-DICHLOROPROPANE	ND	4.8	1.9
2-BUTANONE	ND	9.5	4.8
2-HEXANONE	ND	9.5	4.8
4-METHYL-2-PENTANONE	ND	9.5	4.8
ACETONE	ND	9.5	4.8
BENZENE	ND	4.8	1.9
BROMODICHLOROMETHANE	ND	4.8	1.9
BROMOFORM	ND	4.8	1.9
BROMOMETHANE	ND	9.5	1.9
CARBON DISULFIDE	ND	4.8	1.9
CARBON TETRACHLORIDE	ND	4.8	1.9
CHLOROBENZENE	ND	4.8	1.9
CHLOROETHANE	ND	4.8	1.9
CHLOROFORM	ND	4.8	1.9
CHLOROMETHANE	ND	9.5	1.9
CIS-1,2-DICHLOROETHENE	ND	4.8	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.8	1.9
DIBROMOCHLOROMETHANE	ND	4.8	1.9
ETHYLBENZENE	ND	4.8	1.9
M/P-XYLENES	ND	9.5	1.9
MTBE	ND	4.8	1.9
METHYLENE CHLORIDE	ND	9.5	1.9
O-XYLENE	ND	4.8	1.9
STYRENE	ND	4.8	1.9
TETRACHLOROETHENE	ND	4.8	1.9
TOLUENE	ND	4.8	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.8	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.8	1.9
TRICHLOROETHENE	ND	4.8	1.9
VINYL CHLORIDE	ND	4.8	1.9
TERT-BUTANOL	ND	19	9.5
DIPE	ND	4.8	1.9
ETBE	ND	4.8	1.9
TAME	ND	4.8	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	60-160
4-BROMOFLUOROBENZENE	91	70-150
TOLUENE-D8	94	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 15:59
Sample ID:	SB3-80	Date Analyzed:	11/15/07 15:59
Lab Samp ID:	K033-21R	Dilution Factor:	.77
Lab File ID:	RKB356	Matrix :	SOIL
Ext Btch ID:	V003K31	% Moisture :	8.3
Calib. Ref.:	RKB197	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.2	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.2	1.7
1,1,2-TRICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHANE	ND	4.2	1.7
1,1-DICHLOROETHENE	ND	4.2	1.7
1,2-DICHLOROETHANE	ND	4.2	1.7
1,2-DICHLOROPROPANE	ND	4.2	1.7
2-BUTANONE	ND	8.4	4.2
2-HEXANONE	ND	8.4	4.2
4-METHYL-2-PENTANONE	ND	8.4	4.2
ACETONE	ND	8.4	4.2
BENZENE	ND	4.2	1.7
BROMODICHLOROMETHANE	ND	4.2	1.7
BROMOFORM	ND	4.2	1.7
BROMOMETHANE	ND	8.4	1.7
CARBON DISULFIDE	ND	4.2	1.7
CARBON TETRACHLORIDE	ND	4.2	1.7
CHLOROBENZENE	ND	4.2	1.7
CHLOROETHANE	ND	4.2	1.7
CHLOROFORM	ND	4.2	1.7
CHLOROMETHANE	ND	8.4	1.7
CIS-1,2-DICHLOROETHENE	ND	4.2	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.2	1.7
DIBROMOCHLOROMETHANE	ND	4.2	1.7
ETHYLBENZENE	ND	4.2	1.7
M/P-XYLENES	ND	8.4	1.7
MTBE	ND	4.2	1.7
METHYLENE CHLORIDE	ND	8.4	1.7
O-XYLENE	ND	4.2	1.7
STYRENE	ND	4.2	1.7
TETRACHLOROETHENE	ND	4.2	1.7
TOLUENE	ND	4.2	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.2	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.2	1.7
TRICHLOROETHENE	ND	4.2	1.7
VINYL CHLORIDE	ND	4.2	1.7
TERT-BUTANOL	ND	17	8.4
DIPE	ND	4.2	1.7
ETBE	ND	4.2	1.7
TAME	ND	4.2	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	60-160
4-BROMOFLUOROBENZENE	93	70-150
TOLUENE-D8	94	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 16:36
Sample ID:	SB3-85	Date Analyzed:	11/15/07 16:36
Lab Samp ID:	K033-22R	Dilution Factor:	.88
Lab File ID:	RKB357	Matrix :	SOIL
Ext Btch ID:	V003K31	% Moisture :	9.7
Calib. Ref.:	RKB197	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.9	1.9
1,1,2,2-TETRACHLOROETHANE	ND	4.9	1.9
1,1,2-TRICHLOROETHANE	ND	4.9	1.9
1,1-DICHLOROETHANE	ND	4.9	1.9
1,1-DICHLOROETHENE	ND	4.9	1.9
1,2-DICHLOROETHANE	ND	4.9	1.9
1,2-DICHLOROPROPANE	ND	4.9	1.9
2-BUTANONE	ND	9.7	4.9
2-HEXANONE	ND	9.7	4.9
4-METHYL-2-PENTANONE	ND	9.7	4.9
ACETONE	ND	9.7	4.9
BENZENE	ND	4.9	1.9
BROMODICHLOROMETHANE	ND	4.9	1.9
BROMOFORM	ND	4.9	1.9
BROMOMETHANE	ND	9.7	1.9
CARBON DISULFIDE	ND	4.9	1.9
CARBON TETRACHLORIDE	ND	4.9	1.9
CHLOROBENZENE	ND	4.9	1.9
CHLOROETHANE	ND	4.9	1.9
CHLOROFORM	ND	4.9	1.9
CHLOROMETHANE	ND	9.7	1.9
CIS-1,2-DICHLOROETHENE	ND	4.9	1.9
CIS-1,3-DICHLOROPROPENE	ND	4.9	1.9
DIBROMOCHLOROMETHANE	ND	4.9	1.9
ETHYLBENZENE	ND	4.9	1.9
M/P-XYLENES	ND	9.7	1.9
MTBE	ND	4.9	1.9
METHYLENE CHLORIDE	ND	9.7	1.9
O-XYLENE	ND	4.9	1.9
STYRENE	ND	4.9	1.9
TETRACHLOROETHENE	ND	4.9	1.9
TOLUENE	ND	4.9	1.9
TRANS-1,2-DICHLOROETHENE	ND	4.9	1.9
TRANS-1,3-DICHLOROPROPENE	ND	4.9	1.9
TRICHLOROETHENE	ND	4.9	1.9
VINYL CHLORIDE	ND	4.9	1.9
TERT-BUTANOL	ND	19	9.7
DIPE	ND	4.9	1.9
ETBE	ND	4.9	1.9
TAME	ND	4.9	1.9

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	60-160
4-BROMOFLUOROBENZENE	92	70-150
TOLUENE-D8	95	70-140

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
Batch No.	: 07K033	Date Extracted:	11/15/07 14:52
Sample ID:	SB3-90	Date Analyzed:	11/15/07 14:52
Lab Samp ID:	K033-23	Dilution Factor:	.77
Lab File ID:	RKC405	Matrix :	SOIL
Ext Btch ID:	VO67K35	% Moisture :	11.3
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	4.3	1.7
1,1,2,2-TETRACHLOROETHANE	ND	4.3	1.7
1,1,2-TRICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHANE	ND	4.3	1.7
1,1-DICHLOROETHENE	ND	4.3	1.7
1,2-DICHLOROETHANE	ND	4.3	1.7
1,2-DICHLOROPROPANE	ND	4.3	1.7
2-BUTANONE	ND	8.7	4.3
2-HEXANONE	ND	8.7	4.3
4-METHYL-2-PENTANONE	ND	8.7	4.3
ACETONE	ND	8.7	4.3
BENZENE	ND	4.3	1.7
BROMODICHLOROMETHANE	ND	4.3	1.7
BROMOFORM	ND	4.3	1.7
BROMOMETHANE	ND	8.7	1.7
CARBON DISULFIDE	ND	4.3	1.7
CARBON TETRACHLORIDE	ND	4.3	1.7
CHLOROBENZENE	ND	4.3	1.7
CHLOROETHANE	ND	4.3	1.7
CHLOROFORM	ND	4.3	1.7
CHLOROMETHANE	ND	8.7	1.7
CIS-1,2-DICHLOROETHENE	ND	4.3	1.7
CIS-1,3-DICHLOROPROPENE	ND	4.3	1.7
DIBROMOCHLOROMETHANE	ND	4.3	1.7
ETHYLBENZENE	ND	4.3	1.7
M/P-XYLENES	ND	8.7	1.7
MTBE	ND	4.3	1.7
METHYLENE CHLORIDE	ND	8.7	1.7
O-XYLENE	ND	4.3	1.7
STYRENE	ND	4.3	1.7
TETRACHLOROETHENE	ND	4.3	1.7
TOLUENE	ND	4.3	1.7
TRANS-1,2-DICHLOROETHENE	ND	4.3	1.7
TRANS-1,3-DICHLOROPROPENE	ND	4.3	1.7
TRICHLOROETHENE	ND	4.3	1.7
VINYL CHLORIDE	ND	4.3	1.7
TERT-BUTANOL	ND	17	8.7
DIPE	ND	4.3	1.7
ETBE	ND	4.3	1.7
TAME	ND	4.3	1.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	97	60-160
4-BROMOFLUOROBENZENE	94	70-150
TOLUENE-D8	95	70-140

QC SUMMARIES

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/07/07
Batch No.	: 07K033	Date Extracted:	11/07/07 16:45
Sample ID:	MBLK1S	Date Analyzed:	11/07/07 16:45
Lab Samp ID:	V067K20B	Dilution Factor:	1
Lab File ID:	RKC232	Matrix :	SOIL
Ext Btch ID:	V067K20	% Moisture :	NA
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	98	70-140
4-BROMOFLUOROBENZENE	90	70-130
TOLUENE-D8	92	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	V067K20B	V067K20L	V067K20C		
LAB FILE ID:	RKC232	RKC230	RKC231		
DATE EXTRACTED:	11/07/0716:45	11/07/0715:30	11/07/0716:08	DATE COLLECTED:	NA
DATE ANALYZED:	11/07/0716:45	11/07/0715:30	11/07/0716:08	DATE RECEIVED:	11/07/07
PREP. BATCH:	V067K20	V067K20	V067K20		
CALIB. REF:	RJC757	RJC757	RJC757		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	17.3	87	20.0	17.2	86	1	60-130	50
Benzene	ND	20.0	17.1	85	20.0	16.8	84	2	70-130	50
Chlorobenzene	ND	20.0	17.3	86	20.0	17.0	85	2	70-130	50
Toluene	ND	20.0	17.0	85	20.0	16.7	84	2	70-130	50
Trichloroethene	ND	20.0	16.4	82	20.0	16.5	82	1	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	55.9	112	50.0	47.7	95	70-140
4-Bromofluorobenzene	50.0	47.7	95	50.0	41.9	84	70-130
Toluene-d8	50.0	48.4	97	50.0	42.2	84	70-130

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/15/07
Batch No.	: 07K033	Date Extracted:	11/15/07 14:15
Sample ID:	MBLK2S	Date Analyzed:	11/15/07 14:15
Lab Samp ID:	V067K35B	Dilution Factor:	1
Lab File ID:	RKC404	Matrix :	SOIL
Ext Btch ID:	V067K35	% Moisture :	NA
Calib. Ref.:	RJC757	Instrument ID :	T-067

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	ND	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	70-140
4-BROMOFLUOROBENZENE	95	70-130
TOLUENE-D8	93	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	V067K35B	V067K35L	V067K35C		
LAB FILE ID:	RKC404	RKC402	RKC403		
DATE EXTRACTED:	11/15/0714:15	11/15/0713:01	11/15/0713:38	DATE COLLECTED:	NA
DATE ANALYZED:	11/15/0714:15	11/15/0713:01	11/15/0713:38	DATE RECEIVED:	11/15/07
PREP. BATCH:	V067K35	V067K35	V067K35		
CALIB. REF:	RJC757	RJC757	RJC757		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	15.2	76	20.0	13.5	67	12	60-130	50
Benzene	ND	20.0	16.6	83	20.0	14.6	73	13	70-130	50
Chlorobenzene	ND	20.0	17.3	86	20.0	15.3	76	12	70-130	50
Toluene	ND	20.0	17.0	85	20.0	15.2	76	12	70-130	50
Trichloroethene	ND	20.0	16.5	83	20.0	14.3	72	14	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	47.8	96	50.0	50.0	100	70-140
4-Bromofluorobenzene	50.0	46.0	92	50.0	45.9	92	70-130
Toluene-d8	50.0	46.1	92	50.0	46.9	94	70-130

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/15/07
Batch No.	: 07K033	Date Extracted:	11/15/07 17:52
Sample ID:	MBLK3S	Date Analyzed:	11/15/07 17:52
Lab Samp ID:	V003K31Q	Dilution Factor:	1
Lab File ID:	RKB359	Matrix :	SOIL
Ext Btch ID:	V003K31	% Moisture :	NA
Calib. Ref.:	RKB197	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	2.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	2.0
1,1,2-TRICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHANE	ND	5.0	2.0
1,1-DICHLOROETHENE	ND	5.0	2.0
1,2-DICHLOROETHANE	ND	5.0	2.0
1,2-DICHLOROPROPANE	ND	5.0	2.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	5.0	2.0
BROMODICHLOROMETHANE	ND	5.0	2.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	10	2.0
CARBON DISULFIDE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	2.0
CHLOROBENZENE	ND	5.0	2.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	2.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	2.0
DIBROMOCHLOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	2.0
M/P-XYLENES	ND	10	2.0
MTBE	ND	5.0	2.0
METHYLENE CHLORIDE	2.9J	10	2.0
O-XYLENE	ND	5.0	2.0
STYRENE	ND	5.0	2.0
TETRACHLOROETHENE	ND	5.0	2.0
TOLUENE	ND	5.0	2.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	2.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	2.0
TRICHLOROETHENE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
TERT-BUTANOL	ND	20	10
DIPE	ND	5.0	2.0
ETBE	ND	5.0	2.0
TAME	ND	5.0	2.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	99	70-140
4-BROMOFLUOROBENZENE	95	70-130
TOLUENE-D8	94	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3S				
LAB SAMP ID:	V003K31Q	V003K31L	V003K31C		
LAB FILE ID:	RKB359	RKB351	RKB352		
DATE EXTRACTED:	11/15/0717:52	11/15/0712:53	11/15/0713:30	DATE COLLECTED:	NA
DATE ANALYZED:	11/15/0717:52	11/15/0712:53	11/15/0713:30	DATE RECEIVED:	11/15/07
PREP. BATCH:	V003K31	V003K31	V003K31		
CALIB. REF:	RKB197	RKB197	RKB197		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	20.0	16.7	84	20.0	18.0	90	7	60-130	50
Benzene	ND	20.0	17.5	87	20.0	18.8	94	7	70-130	50
Chlorobenzene	ND	20.0	18.4	92	20.0	19.6	98	7	70-130	50
Toluene	ND	20.0	18.0	90	20.0	18.8	94	4	70-130	50
Trichloroethene	ND	20.0	17.7	89	20.0	18.8	94	6	70-130	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	46.8	94	50.0	49.1	98	70-140
4-Bromofluorobenzene	50.0	45.2	90	50.0	45.8	92	70-130
Toluene-d8	50.0	48.8	98	50.0	48.3	97	70-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: SW 5035/8260B

MATRIX:	SOIL			% MOISTURE:	5.6
DILUTION FACTOR:	.85	.93	.83		
SAMPLE ID:	SB3-10				
LAB SAMP ID:	K033-05	K033-05M	K033-05S		
LAB FILE ID:	RKC234	RKC235	RKC236		
DATE EXTRACTED:	11/07/0718:00	11/07/0718:38	11/07/0719:15	DATE COLLECTED:	11/01/07
DATE ANALYZED:	11/07/0718:00	11/07/0718:38	11/07/0719:15	DATE RECEIVED:	11/02/07
PREP. BATCH:	V067K20	V067K20	V067K20		
CALIB. REF:	RJC757	RJC757	RJC757		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	49.3	42.0	85	44.0	44.9	102	18	50-140	50
Benzene	ND	49.3	42.8	87	44.0	45.8	104	18	60-150	50
Chlorobenzene	ND	49.3	43.0	87	44.0	46.5	106	20	70-130	50
Toluene	ND	49.3	42.0	85	44.0	45.4	103	19	70-140	50
Trichloroethene	ND	49.3	41.4	84	44.0	44.6	101	18	60-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	49.3	52.3	106	44.0	57.9	132	60-160
4-Bromofluorobenzene	49.3	46.2	94	44.0	51.1	116	70-150
Toluene-d8	49.3	46.1	94	44.0	51.7	118	70-140

INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RJC745
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07K033
BFB Injection Date : 10/26/07
BFB Injection Time : 13:40
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.43
75	30.0 - 60.0% of mass 95	39.21
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.05
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	79.04
175	5.0 - 9.0% of mass 174	5.75(7.3)1
176	95.0 - 101.0% of mass 174	76.82(97.2)1
177	5.0 - 9.0% of mass 176	5.19(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD02	V067J261	RJC746	10/26/07	14:17
2	VSTD05	V067J262	RJC747	10/26/07	14:54
3	VSTD010	V067J263	RJC748	10/26/07	15:31
4	VSTD020	V067J264	RJC749	10/26/07	16:08
5	VSTD080	V067J266	RJC751	10/26/07	17:27
6	VSTD100	V067J267	RJC752	10/26/07	18:04
7	VSTD200	V067J268	RJC753	10/26/07	18:42
8	VSTD050	V067J2610	RJC757	10/26/07	21:11
9	VSTD050	IV067J262	RJC759	10/26/07	22:27

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T067
Beginning DateTime :10/26/07 17:27
Spike Units :PPB
IC File :RJC757

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :10/26/07 18:42
HPChem Method :V067J26

M	IDX	Parameters	2 14:17 RJC746	5 14:54 RJC747	10 15:31 RJC748	20 16:08 RJC749	50 21:11 RJC757	80 17:27 RJC751	100 18:04 RJC752	200 18:42 RJC753	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	0	10.1164
	2	Dichlorodifluoromethane	0.206	0.259	0.250	0.302	0.278	0.244	0.255	0.293	0.261	11.62	3.5139
	3	Chloromethane	0.337	0.355	0.341	0.385	0.356	0.307	0.322	0.356	0.345	6.99	3.9477
	4	Vinyl chloride	0.222	0.272	0.262	0.294	0.238	0.206	------	------	0.249	13.20	4.1474
	5	Bromomethane	0.205	0.220	0.192	0.254	0.235	0.207	0.241	0.282	0.229	12.91	4.8734
	6	Chloroethane	0.137	0.182	0.184	0.215	0.196	0.180	0.181	0.207	0.185	12.57	4.9776
	7	Dichlorofluoromethane	0.514	0.557	0.509	0.587	0.549	0.524	0.601	0.605	0.556	6.96	5.0223
	8	Trichlorofluoromethane	0.283	0.360	0.355	0.412	0.370	0.342	0.352	0.404	0.360	11.04	5.3593
4	9	Acrolein	0.016	0.021	0.018	0.022	0.019	0.018	0.023	0.020	0.020	11.25	5.9235
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.223	0.239	0.225	0.260	0.254	0.235	0.275	0.276	0.248	8.57	5.9365
4	11	Acetone	0.068	0.074	0.060	0.068	0.056	0.051	0.066	0.056	0.062	12.62	5.9924
	12	sec-Propyl alcohol	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	13	1,1-Dichloroethene	0.405	0.445	0.398	0.470	0.453	0.423	0.492	0.493	0.447	8.23	6.2139
5	14	tert-Butyl alcohol	0.021	0.024	0.019	0.022	0.020	0.019	0.025	0.021	0.021	10.72	6.2456
	15	Methyl acetate	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	------	0.417	0.414	0.553	0.536	0.536	------	------	0.491	14.13	6.6771
	17	Methylene chloride	0.601	0.501	0.410	0.463	0.419	0.385	0.456	0.447	0.460	14.56	6.8339
5	18	Acrylonitrile	0.073	0.088	0.073	0.090	0.077	0.071	0.089	0.079	0.080	9.80	6.9531
	19	Carbon disulfide	1.056	1.156	1.061	1.277	1.271	1.190	1.382	1.396	1.224	10.71	6.9680
	20	Acetonitrile	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	21	tert-Butyl methyl ether (MTBE)	0.487	0.548	0.459	0.548	0.521	0.480	0.600	0.572	0.527	9.28	6.9848
	22	trans-1,2-Dichloroethene	0.433	0.479	0.419	0.492	0.479	0.447	0.520	0.514	0.473	7.75	7.2231
	23	Isopropyl ether (DIPE)	0.793	0.892	0.783	0.953	0.900	0.842	1.024	1.014	0.900	10.25	7.5116
	24	Vinyl acetate	0.361	0.422	0.362	0.448	0.441	0.405	0.505	0.475	0.428	11.91	7.6624
	25	1,1-Dichloroethane	0.529	0.580	0.508	0.614	0.589	0.544	0.631	0.654	0.581	8.83	7.7537
	26	tert-Butyl ethyl ether (ETBE)	0.603	0.695	0.616	0.727	0.696	0.647	0.792	0.773	0.693	9.98	8.0311
4	27	2-Butanone	0.110	0.128	0.112	0.127	0.107	0.099	0.126	0.113	0.115	9.27	8.2173
	28	2,2-Dichloropropane	------	0.290	0.277	0.332	0.351	0.323	0.390	0.393	0.337	13.37	8.4714
	29	cis-1,2-Dichloroethene	0.454	0.495	0.444	0.524	0.500	0.463	0.538	0.533	0.494	7.45	8.5319
	30	Chloroform	0.478	0.522	0.468	0.563	0.534	0.495	0.588	0.589	0.530	8.96	8.7330
	31	Bromochloromethane	0.259	0.289	0.252	0.292	0.262	0.249	0.295	0.280	0.272	6.99	8.9713
	32	Cyclohexane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	1,1,1-Trichloroethane	0.353	0.385	0.357	0.416	0.411	0.385	0.450	0.459	0.402	9.77	9.2711
	34	1,1-Dichloropropene	0.128	0.145	0.131	0.153	0.153	0.140	0.164	0.163	0.147	9.20	9.4629
	35	tert-Amyl methyl ether (TAME)	0.598	0.668	0.593	0.711	0.668	0.624	0.762	0.736	0.670	9.39	9.5243
4	36	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	1,2-Dichloroethane-d4	------	0.232	0.218	0.253	0.235	0.220	0.227	0.245	0.233	5.50	9.6566
	38	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	0	15.6572
	39	Carbon tetrachloride	0.332	0.366	0.354	0.422	0.426	0.398	0.453	0.473	0.403	12.26	9.6360
	40	1,2-Dichloroethane	0.323	0.345	0.321	0.367	0.341	0.314	0.373	0.365	0.343	6.72	9.7812
	41	Benzene	1.452	1.501	1.382	1.626	1.594	1.478	1.729	1.745	1.563	8.43	9.8501
	42	Trichloroethene	0.415	0.448	0.413	0.484	0.483	0.442	0.508	0.518	0.464	8.67	10.6898
	43	Methylcyclohexane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	44	1,2-Dichloropropane	0.360	0.390	0.367	0.421	0.410	0.379	0.446	0.449	0.403	8.51	10.9356
	45	Bromodichloromethane	0.388	0.414	0.392	0.453	0.448	0.418	0.487	0.492	0.437	9.13	11.3303
	46	Dibromomethane	0.229	0.241	0.222	0.259	0.245	0.227	0.271	0.260	0.244	7.35	11.4532
	47	2-Chloroethyl vinyl ether	0.157	0.179	0.162	0.190	0.191	0.177	0.223	0.209	0.186	11.99	11.6412
	48	4-Methyl-2-pentanone	0.559	0.470	0.360	0.383	0.320	0.294	0.369	0.326	0.385	22.83	11.6878
	49	cis-1,3-Dichloropropene	0.429	0.500	0.479	0.559	0.573	0.531	0.634	0.643	0.543	13.69	12.1532
	50	Toluene-d8	------	1.146	1.162	1.355	1.356	1.224	1.246	1.445	1.276	8.74	12.6377
	51	Toluene	1.421	1.503	1.423	1.649	1.641	1.507	1.758	1.782	1.586	8.98	12.7825
	52	Ethyl methacrylate	0.317	0.356	0.330	0.396	0.387	0.352	0.443	0.412	0.374	11.47	12.8402
	53	trans-1,3-Dichloropropene	0.277	0.345	0.340	0.426	0.437	0.407	0.495	0.496	0.403	19.27	13.0060
4	54	2-Hexanone	0.179	0.217	0.197	0.233	0.196	0.184	0.236	0.207	0.206	10.18	13.2089
	55	1,1,2-Trichloroethane	0.282	0.292	0.266	0.317	0.299	0.274	0.334	0.321	0.298	8.14	13.3467
	56	1,3-Dichloropropane	0.444	0.504	0.450	0.524	0.494	0.460	0.551	0.538	0.496	8.25	13.8159
	57	Tetrachloroethene	0.302	0.323	0.306	0.358	0.347	0.323	0.372	0.383	0.339	8.92	14.0486
	58	Dibromochloromethane	0.273	0.321	0.301	0.372	0.370	0.349	0.425	------	0.345	14.75	14.4653

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	59	1,2-Dibromoethane	0.305	0.341	0.307	0.372	0.346	0.324	0.396	0.381	0.346	9.76	14.8939
	60	1-Chlorohexane	0.493	0.515	0.544	0.636	0.658	0.589	0.689	0.718	0.605	13.71	15.0019
	61	Chlorobenzene	1.032	1.081	1.014	1.187	1.142	1.071	1.243	1.284	1.132	8.75	15.7466
	62	1,1,1,2-Tetrachloroethane	0.270	0.299	0.283	0.346	0.346	0.325	0.385	0.395	0.331	13.81	15.7913
	63	Ethylbenzene	1.605	1.650	1.556	1.847	1.809	1.693	1.973	2.010	1.768	9.55	15.7838
2	64	m-Xylene & p-Xylene	1.164	1.248	1.175	1.383	1.379	1.276	1.493	------	1.303	9.28	15.9399
	65	o-Xylene	1.143	1.198	1.151	1.360	1.330	1.221	1.417	1.463	1.285	9.60	16.9541
	66	Styrene	0.990	1.063	1.011	1.174	1.157	1.074	1.257	1.306	1.129	10.12	17.0249
	67	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	0	22.4314
	68	Isopropylbenzene	3.532	3.796	3.726	4.370	4.376	4.051	4.684	4.899	4.179	11.57	17.7417
	69	Bromoform	------	0.485	0.469	0.565	0.569	0.539	0.658	0.646	0.562	12.89	17.9330
	70	1,1,2,2-Tetrachloroethane	0.946	1.088	0.940	1.074	1.007	0.938	1.143	1.073	1.026	7.72	18.1476
	71	4-Bromofluorobenzene	------	1.076	1.053	1.219	1.198	1.092	1.110	1.259	1.144	7.01	18.4011
	72	1,2,3-Trichloropropane	0.156	0.189	0.163	0.174	0.160	0.149	0.177	0.167	0.167	7.62	18.5181
	73	trans-1,4-Dichloro-2-butene	------	0.183	0.171	0.205	0.202	0.192	0.238	0.229	0.203	11.79	18.6203
	74	n-Propylbenzene	4.471	4.807	4.944	5.654	5.755	5.349	6.154	5.634	5.346	10.52	18.7211
	75	Bromobenzene	0.922	1.007	0.937	1.081	1.077	1.009	1.164	------	1.028	8.33	18.9529
	76	1,3,5-Trimethylbenzene	2.785	2.940	2.981	3.445	3.487	3.268	3.754	3.874	3.317	11.88	19.0969
	77	2-Chlorotoluene	2.700	2.720	2.702	3.213	3.118	2.938	3.215	3.405	3.001	9.17	19.2439
	78	4-Chlorotoluene	2.657	2.684	2.619	2.967	2.962	2.740	3.254	3.349	2.904	9.62	19.3352
	79	tert-Butylbenzene	2.452	2.583	2.761	3.125	3.206	3.004	3.401	3.558	3.011	12.92	20.0036
	80	1,2,4-Trimethylbenzene	2.738	2.928	2.989	3.416	3.473	3.248	3.705	3.887	3.298	12.05	20.1172
	81	sec-Butylbenzene	3.903	4.179	4.413	5.176	5.188	4.791	5.578	5.682	4.864	13.42	20.5528
	82	p-Isopropyltoluene	------	3.194	3.495	3.982	4.155	3.855	4.456	4.718	3.979	13.26	20.8818
	83	1,3-Dichlorobenzene	1.815	1.830	1.784	2.074	2.079	1.919	2.238	2.309	2.006	9.97	21.2399
	84	1,4-Dichlorobenzene	1.770	1.885	1.819	2.087	2.049	1.914	2.212	2.298	2.004	9.43	21.5061
	85	n-Butylbenzene	2.181	2.690	2.921	3.474	3.798	3.557	4.081	4.341	3.380	21.66	21.9585
	86	1,2-Dichlorobenzene	1.617	1.674	1.596	1.870	1.798	1.668	1.972	1.993	1.774	8.91	22.5059
	87	1,2-Dibromo-3-chloropropane	------	0.142	0.125	0.160	0.153	0.144	0.183	0.169	0.154	12.48	24.5863
	88	1,2,4-Trichlorobenzene	------	0.764	0.795	0.959	1.012	0.943	1.082	1.150	0.958	14.74	27.0036
	89	Hexachlorobutadiene	0.453	0.464	0.513	0.602	0.591	0.549	0.628	0.650	0.556	13.30	27.3505
	90	Naphthalene	------	1.263	1.185	1.535	1.689	1.591	1.941	2.027	1.605	19.65	27.7504
	91	1,2,3-Trichlorobenzene	------	0.683	0.701	0.837	0.858	0.802	0.925	0.961	0.824	12.72	28.4292

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.8 Max_%RSD : 22.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
48	4-Methyl-2-pentanone	0.04235	0.32582	0.9964
53	trans-1,3-Dichloropropene	-0.01315	0.47653	0.9967
85	n-Butylbenzene	-0.13002	4.10980	0.9969
90	Naphthalene	-0.11753	1.93833	0.9954

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#4
11-7-07

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T003
Beginning DateTime :11/09/07 15:57
Spike Units :PPB
IC File :RKB198

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :11/09/07 21:02
HPChem Method :V003K09

M	IDX	Parameters	2 15:57 RKB193	5 16:36 RKB194	10 17:13 RKB195	50 18:29 RKB197	80 19:08 RKB198	100 19:46 RKB199	200 20:24 RKB200	300 21:02 RKB201	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	0	10.7185
	2	Dichlorodifluoromethane	0.314	0.402	0.389	0.403	0.409	0.401	0.347	0.363	0.379	8.98	3.0987
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	0.549	0.470	0.442	0.473	0.455	0.414	0.455	0.465	8.97	3.5010
	5	Vinyl chloride	0.282	0.369	0.369	0.389	0.381	0.387	0.333	0.350	0.357	10.10	3.6867
	6	Bromomethane	------	0.241	0.308	0.333	0.337	0.350	0.314	0.330	0.316	11.46	4.4163
	7	Chloroethane	0.159	0.259	0.193	0.216	0.233	0.219	0.198	0.203	0.210	14.04	4.5377
	8	Dichlorofluoromethane	0.829	0.874	0.818	0.779	0.858	0.808	0.748	0.773	0.811	5.33	4.6029
	9	Trichlorofluoromethane	0.549	0.657	0.670	0.713	0.729	0.721	0.608	0.631	0.660	9.44	4.9583
	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
4	11	Acrolein	0.031	0.035	0.031	0.033	0.034	0.032	0.028	0.030	0.032	7.76	5.6132
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.265	0.279	0.272	0.274	0.280	0.279	0.258	0.261	0.271	3.23	5.6429
4	13	Acetone	0.146	0.103	0.099	0.107	0.114	0.103	0.092	0.102	0.108	15.16	5.7173
	14	1,1-Dichloroethene	0.695	0.717	0.697	0.649	0.652	0.660	0.588	0.608	0.658	6.79	5.9201
5	15	tert-Butyl alcohol	0.023	0.006	0.025	0.028	0.020	0.028	0.028	0.034	0.024	35.49	6.0448
	16	Acetonitrile	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	------	0.342	0.414	0.468	0.429	0.467	0.431	0.423	0.425	9.96	6.4129
	18	Methyl acetate	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	------	0.604	0.527	0.482	0.495	0.495	0.443	0.454	0.500	10.76	6.6532
	20	Carbon disulfide	1.121	1.265	1.222	1.204	1.252	1.274	1.171	1.213	1.215	4.22	6.7257
5	21	Acrylonitrile	0.069	0.070	0.082	0.088	0.093	0.089	0.081	0.089	0.083	10.64	6.8225
	22	tert-Butyl methyl ether (MTBE)	------	0.559	0.621	0.707	0.787	0.743	0.738	0.796	0.707	12.35	6.9062
	23	trans-1,2-Dichloroethene	0.575	0.608	0.609	0.593	0.620	0.622	0.561	0.580	0.596	3.74	7.1239
	24	Isopropyl ether (DIPE)	1.150	1.112	1.144	1.116	1.147	1.169	1.105	1.163	1.138	2.13	7.5853
	25	Vinyl acetate	0.564	0.441	0.476	0.564	0.592	0.580	0.554	0.594	0.546	10.34	7.7379
	26	1,1-Dichloroethane	0.560	0.533	0.649	0.698	0.682	0.720	0.648	0.667	0.645	10.15	7.7714
	27	tert-Butyl ethyl ether (ETBE)	0.638	0.745	0.745	0.857	0.972	0.869	0.910	0.938	0.834	13.73	8.2235
4	28	2-Butanone	0.114	0.100	0.129	0.145	0.151	0.142	0.133	0.149	0.133	13.48	8.4058
	29	2,2-Dichloropropane	0.398	0.353	0.420	0.447	0.403	0.461	0.496	0.498	0.434	11.64	8.6533
	30	cis-1,2-Dichloroethene	0.609	0.637	0.654	0.662	0.669	0.681	0.625	0.644	0.648	3.71	8.7240
	31	tert-Butyl formate (TBF)	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	32	Chloroform	0.772	0.796	0.804	0.805	0.824	0.820	0.756	0.783	0.795	2.97	8.9770
	33	Bromochloromethane	0.300	0.311	0.318	0.303	0.301	0.303	0.274	0.284	0.299	4.76	9.2449
	34	Tetrahydrofuran	0.088	0.081	0.083	0.080	0.083	0.077	0.070	0.078	0.080	6.47	9.3287
	35	1,1,1-Trichloroethane	0.548	0.602	0.646	0.705	0.739	0.750	0.700	0.724	0.677	10.58	9.6319
	36	1,1-Dichloropropene	0.188	0.181	0.194	0.197	0.196	0.207	0.185	0.192	0.193	4.26	9.8812
	37	Cyclohexane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	38	tert-Amyl methyl ether (TAME)	0.556	0.668	0.702	0.759	0.837	0.758	0.805	0.837	0.740	12.93	10.0412
	39	1,2-Dichloroethane-d4	------	0.464	0.484	0.515	0.542	0.524	0.464	0.486	0.497	6.17	10.1085
	40	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	0	16.5196
	41	Carbon tetrachloride	0.457	0.494	0.565	0.597	0.619	0.645	0.624	0.643	0.581	12.16	10.0636
	42	1,2-Dichloroethane	0.582	0.616	0.663	0.662	0.670	0.693	0.644	0.675	0.651	5.50	10.2570
	43	Benzene	1.447	1.410	1.534	1.522	1.539	1.663	1.582	1.542	1.530	5.07	10.3222
	44	Trichloroethene	0.400	0.389	0.441	0.439	0.436	0.469	0.441	0.456	0.434	6.12	11.3287
	45	Methylcyclohexane	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	46	1,2-Dichloropropane	0.326	0.337	0.379	0.391	0.392	0.413	0.382	0.396	0.377	7.97	11.6115
	47	Bromodichloromethane	0.565	0.577	0.636	0.653	0.672	0.707	0.661	0.689	0.645	7.86	12.0134
	48	Dibromomethane	0.262	0.278	0.292	0.295	0.301	0.316	0.286	0.294	0.290	5.47	12.1176
	49	2-Chloroethyl vinyl ether	0.152	0.181	0.191	0.195	0.207	0.197	0.206	0.213	0.193	9.95	12.4599
4	50	4-Methyl-2-pentanone	0.417	0.324	0.399	0.387	0.394	0.392	0.386	0.407	0.388	7.17	12.5213

11-21-07

	51	cis-1,3-Dichloropropene	0.436	0.482	0.523	0.583	0.611	0.643	0.626	0.639	0.568	13.77	12.9213
	52	Toluene-d8	1.200	1.252	1.339	1.351	1.372	1.432	1.334	1.363	1.330	5.45	13.4107
	53	Toluene	1.677	1.690	1.735	1.635	1.628	1.723	1.686	1.557	1.666	3.47	13.5614
	54	Ethyl methacrylate	0.457	0.430	0.466	0.446	0.469	0.475	0.454	0.473	0.459	3.32	13.7549
	55	trans-1,3-Dichloropropene	0.378	0.410	0.475	0.525	0.549	0.580	0.574	0.595	0.511	16.01	13.8293
4	56	2-Hexanone	0.237	0.201	0.251	0.251	0.259	0.255	0.247	0.272	0.246	8.53	14.1139
	57	1,1,2-Trichloroethane	0.310	0.301	0.334	0.325	0.333	0.349	0.327	0.347	0.328	5.07	14.1567
	58	1,3-Dichloropropane	0.541	0.553	0.582	0.587	0.606	0.635	0.595	0.619	0.590	5.37	14.6479
	59	Tetrachloroethene	0.345	0.357	0.365	0.345	0.346	0.371	0.349	0.362	0.355	2.85	14.8563
	60	Dibromochloromethane	0.361	0.368	0.412	0.441	0.457	0.480	0.457	0.483	0.432	10.98	15.2544
	61	1,2-Dibromoethane	0.318	0.340	0.366	0.364	0.372	0.375	0.362	0.371	0.359	5.46	15.6898
	62	1-Chlorohexane	0.691	0.694	0.723	0.707	0.699	0.745	0.703	0.722	0.711	2.59	15.9466
	63	Chlorobenzene	1.015	1.035	1.049	1.021	1.021	1.070	1.024	1.059	1.037	1.97	16.6052
	64	1,1,1,2-Tetrachloroethane	0.349	0.362	0.386	0.387	0.397	0.417	0.405	0.419	0.390	6.38	16.6759
	65	Ethylbenzene	2.125	2.155	2.154	2.074	2.097	2.193	2.062	1.808	2.083	5.76	16.6926
2	66	m-Xylene & p-Xylene	1.671	1.692	1.639	1.626	1.647	1.732	1.358	------	1.624	7.54	16.8671
	67	o-Xylene	1.659	1.702	1.690	1.644	1.637	1.709	1.630	1.609	1.660	2.20	17.9225
	68	Styrene	1.165	1.201	1.190	1.179	1.163	1.242	1.172	1.224	1.192	2.41	17.9969
	69	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	0	23.8334
	70	Isopropylbenzene	4.214	4.279	4.386	4.124	4.196	4.391	4.233	3.857	4.210	4.03	18.8081
	71	Bromoform	0.463	0.481	0.540	0.555	0.600	0.613	0.606	0.630	0.561	11.15	18.8899
	72	1,1,2,2-Tetrachloroethane	0.970	0.943	1.012	0.971	0.974	0.996	0.955	0.994	0.977	2.35	19.2304
	73	4-Bromofluorobenzene	1.345	1.323	1.315	1.296	1.327	1.368	1.233	1.269	1.309	3.27	19.4835
	74	1,2,3-Trichloropropane	0.173	0.184	0.206	0.195	0.194	0.191	0.184	0.197	0.191	5.22	19.6211
	75	trans-1,4-Dichloro-2-butene	------	0.225	0.265	0.285	0.305	0.303	0.310	0.333	0.290	12.19	19.7726
	76	n-Propylbenzene	5.522	5.681	5.802	5.562	5.599	5.965	5.386	4.510	5.503	7.97	19.8779
	77	Bromobenzene	1.012	1.026	1.042	0.986	1.003	1.049	1.012	1.023	1.019	2.03	20.0416
	78	1,3,5-Trimethylbenzene	3.393	3.426	3.505	3.378	3.373	3.574	3.431	3.389	3.434	2.07	20.3189
	79	2-Chlorotoluene	2.571	2.536	2.570	2.481	2.500	2.707	2.638	2.731	2.592	3.56	20.3989
	80	4-Chlorotoluene	3.215	3.234	3.279	3.117	3.191	3.282	3.180	3.182	3.210	1.71	20.5235
	81	tert-Butylbenzene	2.869	2.888	3.034	2.837	2.910	3.064	2.918	2.921	2.930	2.69	21.3310
	82	1,2,4-Trimethylbenzene	3.413	3.319	3.470	3.300	3.313	3.458	3.373	3.374	3.377	1.93	21.4501
	83	sec-Butylbenzene	4.655	4.687	4.816	4.643	4.655	4.959	4.778	4.273	4.683	4.23	21.9598
	84	p-Isopropyltoluene	3.534	3.531	3.723	3.571	3.584	3.805	3.612	3.627	3.623	2.64	22.3691
	85	1,3-Dichlorobenzene	1.831	1.826	1.858	1.783	1.795	1.860	1.778	1.823	1.819	1.74	22.6799
	86	1,4-Dichlorobenzene	1.826	1.770	1.879	1.783	1.776	1.849	1.776	1.795	1.807	2.23	22.9776
	87	n-Butylbenzene	3.595	3.422	3.726	3.826	3.594	3.977	3.798	3.388	3.666	5.56	23.5041
	88	1,2-Dichlorobenzene	1.605	1.659	1.683	1.637	1.641	1.700	1.611	1.662	1.650	1.98	23.9004
	89	1,2-Dibromo-3-chloropropane	0.154	0.173	0.187	0.195	0.199	0.204	0.197	0.215	0.191	10.08	25.4986
	90	1,2,4-Trichlorobenzene	1.008	0.900	1.071	1.145	1.006	1.130	1.094	1.187	1.068	8.70	27.2549
	91	Hexachlorobutadiene	0.630	0.662	0.678	0.677	0.672	0.715	0.676	0.720	0.679	4.23	27.5359
	92	Naphthalene	1.384	1.065	1.600	1.848	1.573	1.987	1.997	------	1.636	20.77	27.7773
	93	1,2,3-Trichlorobenzene	0.904	0.759	0.940	0.987	0.893	0.988	0.943	1.034	0.931	8.99	28.2819

Spike Amount = Nominal Amount * M

Ave_%RSD : 7.3 Max_%RSD : 35.5

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15

Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
13	Acetone	0.00596	0.10035	0.9978
15	tert-Butyl alcohol	-0.00568	0.03021	0.9889*
55	trans-1,3-Dichloropropene	-0.01333	0.58173	0.9994
92	Naphthalene	-0.04624	1.91616	0.9958

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995

Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
15	tert-Butyl alcohol	-0.00142	0.02210	0.00038	0.9959

11-21-07

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D Vial: 16
Acq On : 26 Oct 2007 10:27 pm Operator: CR
Sample : IVO67J262 50ppb Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	50.000	51.268	-2.5	98	0.00
3	P,T	Chloromethane	50.000	48.189	3.6	95	0.00
4	C,T	Vinyl chloride	50.000	46.504	7.0	99	-0.01
5	T	Bromomethane	50.000	53.396	-6.8	106	0.00
6	T	Chloroethane	50.000	50.678	-1.4	98	0.00
7	T	Dichlorofluoromethane	50.000	46.816	6.4	97	-0.01
8	T	Trichlorofluoromethane	50.000	45.647	8.7	91	0.00
9	T	Acrolein	200.000	242.271	-21.1#	127	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	49.309	1.4	98	0.00
11	T	Acetone	200.000	170.782	14.6	98	0.00
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	48.013	4.0	97	0.00
14	T	tert-Butyl alcohol	250.000	245.069	2.0	106	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	47.728	4.5	89	-0.01
17	T	Methylene chloride	50.000	42.332	15.3	95	0.00
18	T	Acrylonitrile	250.000	249.598	0.2	106	0.00
19	T	Carbon disulfide	50.000	46.521	7.0	91	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	51.561	-3.1	106	0.00
22	T	trans-1,2-Dichloroethene	50.000	47.638	4.7	96	0.00
23	T	Isopropyl ether (DIPE)	50.000	51.670	-3.3	105	0.00
24	T	Vinyl acetate	50.000	44.226	11.5	87	0.00
25	P,T	1,1-Dichloroethane	50.000	47.595	4.8	96	0.00
26	T	tert-Butyl ethyl ether (ETB	50.000	51.977	-4.0	106	0.00
27	T	2-Butanone	200.000	179.828	10.1	98	0.00
28	T	2,2-Dichloropropane	50.000	49.534	0.9	97	0.00
29	T	cis-1,2-Dichloroethene	50.000	49.292	1.4	99	0.00
30	C,T	Chloroform	50.000	47.015	6.0	95	0.00
31	T	Bromochloromethane	50.000	48.307	3.4	102	-0.01
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	49.134	1.7	98	0.00
34	T	1,1-Dichloropropene	50.000	50.553	-1.1	99	-0.01
35	T	tert-Amyl methyl ether (TAM	50.000	51.309	-2.6	105	0.00
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	47.885	4.2	97	-0.01
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	104	0.00
39	T	Carbon tetrachloride	50.000	50.402	-0.8	99	0.00
40	T	1,2-Dichloroethane	50.000	46.928	6.1	98	0.00

(#) = Out of Range

11-2-07

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D
Acq On : 26 Oct 2007 10:27 pm
Sample : IV067J262 50ppb
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA
MS Integration Params: LSCINT.P

Vial: 16
Operator: CR
Inst : TO67
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	48.463	3.1	99	0.00
42	M,T	Trichloroethene	50.000	50.125	-0.3	100	0.00
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	50.950	-1.9	104	0.00
45	T	Bromodichloromethane	50.000	47.490	5.0	96	-0.01
46	T	Dibromomethane	50.000	49.687	0.6	103	0.00
47	T	2-Chloroethyl vinyl ether	50.000	46.976	6.0	95	0.00
48	T	4-Methyl-2-pentanone	200.000	181.028	9.5	99	-0.01
49	T	cis-1,3-Dichloropropene	50.000	45.819	8.4	90	0.00
50	S	Toluene-d8	50.000	49.772	0.5	98	-0.01
51	C,TM	Toluene	50.000	50.610	-1.2	102	0.00
52	T	Ethyl methacrylate	50.000	50.752	-1.5	102	0.00
53	T	trans-1,3-Dichloropropene	50.000	41.176	17.6	90	0.00
54	T	2-Hexanone	200.000	184.465	7.8	101	0.00
55	T	1,1,2-Trichloroethane	50.000	50.339	-0.7	104	0.00
56	T	1,3-Dichloropropane	50.000	49.979	0.0	104	0.00
57	T	Tetrachloroethene	50.000	48.543	2.9	99	0.00
58	T	Dibromochloromethane	50.000	51.337	-2.7	99	0.00
59	T	1,2-Dibromoethane	50.000	49.659	0.7	103	0.00
60	T	1-Chlorohexane	50.000	51.215	-2.4	98	0.00
61	P,M	Chlorobenzene	50.000	46.898	6.2	97	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	51.842	-3.7	103	0.00
63	C,T	Ethylbenzene	50.000	50.827	-1.7	103	0.00
64	T	m-Xylene & p-Xylene	100.000	103.221	-3.2	101	0.00
65	T	o-Xylene	50.000	50.884	-1.8	102	0.00
66	T	Styrene	50.000	50.722	-1.4	103	0.00
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	103	0.00
68	T	Isopropylbenzene	50.000	52.097	-4.2	103	0.00
69	P,T	Bromoform	50.000	49.192	1.6	100	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	49.293	1.4	104	0.00
71	S	4-Bromofluorobenzene	50.000	48.945	2.1	97	0.00
72	T	1,2,3-Trichloropropane	50.000	49.276	1.4	106	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	50.096	-0.2	104	0.00
74	T	n-Propylbenzene	50.000	53.788	-7.6	103	0.00
75	T	Bromobenzene	50.000	51.126	-2.3	101	0.00
76	T	1,3,5-Trimethylbenzene	50.000	51.192	-2.4	101	0.00
77	T	2-Chlorotoluene	50.000	49.792	0.4	99	0.00
78	T	4-Chlorotoluene	50.000	48.025	4.0	97	0.00
79	T	tert-Butylbenzene	50.000	52.571	-5.1	102	0.00
80	T	1,2,4-Trimethylbenzene	50.000	50.236	-0.5	99	0.00

(#) = Out of Range

RL 11-2-07

2070

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07J26\RJC759.D Vial: 16
Acq On : 26 Oct 2007 10:27 pm Operator: CR
Sample : IVO67J262 50ppb Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA/250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	52.876	-5.8	102	-0.01
82	T	p-Isopropyltoluene	50.000	50.966	-1.9	101	0.00
83	T	1,3-Dichlorobenzene	50.000	49.207	1.6	98	0.00
84	T	1,4-Dichlorobenzene	50.000	48.247	3.5	98	0.00
85	T	n-Butylbenzene	50.000	46.085	7.8	100	0.00
86	T	1,2-Dichlorobenzene	50.000	48.515	3.0	99	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	49.895	0.2	104	-0.01
88	T	1,2,4-Trichlorobenzene	50.000	51.430	-2.9	101	-0.01
89	T	Hexachlorobutadiene	50.000	52.018	-4.0	101	0.00
90	T	Naphthalene	50.000	45.348	9.3	100	0.00
91	T	1,2,3-Trichlorobenzene	50.000	51.570	-3.1	102	0.00

11-2-07

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKB205.D Vial: 15
Acq On : 9 Nov 2007 11:34 pm Operator: CR
Sample : IVO03K092 50ppb Inst : TO03
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	110	0.02
2	T	Dichlorodifluoromethane	50.000	50.262	-0.5	104	0.00
3	T	Dichlorotetrafluoroethane	50.000	0.000	100.0#	0	0.00
4	P,T	Chloromethane	50.000	50.943	-1.9	118	0.00
5	C,T	Vinyl chloride	50.000	56.301	-12.6	114	0.00
6	T	Bromomethane	50.000	53.033	-6.1	111	0.00
7	T	Chloroethane	50.000	53.170	-6.3	114	0.00
8	T	Dichlorofluoromethane	50.000	51.634	-3.3	119	0.02
9	T	Trichlorofluoromethane	50.000	59.088	-18.2	121	0.02
10	T	sec-Propyl alcohol	50.000	0.000	100.0#	0	0.00
11	T	Acrolein	200.000	190.397	4.8	101	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	50.000	53.214	-6.4	116	0.02
13	T	Acetone	200.000	206.151	-3.1	109	0.00
14	C,T	1,1-Dichloroethene	50.000	52.930	-5.9	119	0.02
15	T	tert-Butyl alcohol	250.000	281.873	-12.7	105	0.02
16	T	Acetonitrile	50.000	0.000	100.0#	0	0.00
17	T	Iodomethane	50.000	62.572	-25.1#	125	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	131	0.00
19	T	Methylene chloride	50.000	50.803	-1.6	116	0.00
20	T	Carbon disulfide	50.000	56.093	-12.2	125	0.00
21	T	Acrylonitrile	250.000	270.533	-8.2	112	0.02
22	T	tert-Butyl methyl ether (MT	50.000	48.007	4.0	106	0.02
23	T	trans-1,2-Dichloroethene	50.000	53.052	-6.1	118	0.02
24	T	Isopropyl ether (DIPE)	50.000	49.279	1.4	111	0.02
25	T	Vinyl acetate	50.000	45.165	9.7	96	0.02
26	P,T	1,1-Dichloroethane	50.000	57.049	-14.1	116	0.00
27	T	tert-Butyl ethyl ether (ETB	50.000	48.430	3.1	104	0.00
28	T	2-Butanone	200.000	211.360	-5.7	107	0.02
29	T	2,2-Dichloropropane	50.000	45.644	8.7	98	0.02
30	T	cis-1,2-Dichloroethene	50.000	50.576	-1.2	109	0.00
31	T	tert-Butyl formate (TBF)	50.000	0.000	100.0#	0	0.00
32	C,T	Chloroform	50.000	54.185	-8.4	118	0.00
33	T	Bromochloromethane	50.000	49.944	0.1	109	0.00
34	T	Tetrahydrofuran	50.000	49.554	0.9	109	0.00
35	T	1,1,1-Trichloroethane	50.000	54.198	-8.4	115	0.00
36	T	1,1-Dichloropropene	50.000	53.646	-7.3	116	0.02
37	T	Cyclohexane	-1.000	0.000	0.0	73	0.02
38	T	tert-Amyl methyl ether (TAM	50.000	48.354	3.3	104	0.02
39	S	1,2-Dichloroethane-d4	50.000	46.703	6.6	100	0.02
40	I	CHLOROBENZENE-D5	50.000	50.000	0.0	111	0.02

(#) = Out of Range

11-21-07

2072

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKB205.D Vial: 15
Acq On : 9 Nov 2007 11:34 pm Operator: CR
Sample : IV003K092 50ppb Inst : TO03
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	50.000	51.938	-3.9	112	0.02
42	T	1,2-Dichloroethane	50.000	51.613	-3.2	112	0.02
43	T	Benzene	50.000	51.241	-2.5	114	0.02
44	T	Trichloroethene	50.000	52.596	-5.2	115	0.00
45	T	Methylcyclohexane	-1.000	0.000	0.0	315	-0.13
46	C,T	1,2-Dichloropropane	50.000	51.708	-3.4	110	0.00
47	T	Bromodichloromethane	50.000	53.688	-7.4	117	0.00
48	T	Dibromomethane	50.000	50.639	-1.3	110	0.00
49	T	2-Chloroethyl vinyl ether	50.000	46.950	6.1	103	0.00
50	T	4-Methyl-2-pentanone	200.000	190.789	4.6	106	0.00
51	T	cis-1,3-Dichloropropene	50.000	56.182	-12.4	121	0.02
52	S	Toluene-d8	50.000	45.467	9.1	99	0.02
53	C,T	Toluene	50.000	49.230	1.5	111	0.00
54	T	Ethyl methacrylate	50.000	49.586	0.8	113	0.00
55	T	trans-1,3-Dichloropropene	50.000	48.919	2.2	117	0.00
56	T	2-Hexanone	200.000	198.513	0.7	108	0.00
57	T	1,1,2-Trichloroethane	50.000	49.132	1.7	110	0.00
58	T	1,3-Dichloropropane	50.000	49.542	0.9	110	0.00
59	T	Tetrachloroethene	50.000	50.423	-0.8	115	0.00
60	T	Dibromochloromethane	50.000	51.471	-2.9	112	0.02
61	T	1,2-Dibromoethane	50.000	48.863	2.3	106	0.00
62	T	1-Chlorohexane	50.000	49.068	1.9	109	0.02
63	P	Chlorobenzene	50.000	52.402	-4.8	118	0.02
64	T	1,1,1,2-Tetrachloroethane	50.000	50.426	-0.9	112	0.02
65	C,T	Ethylbenzene	50.000	50.102	-0.2	111	0.02
66	T	m-Xylene & p-Xylene	100.000	99.947	0.1	110	0.02
67	T	o-Xylene	50.000	48.680	2.6	109	0.02
68	T	Styrene	50.000	48.738	2.5	109	0.00
69	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	108	0.02
70	T	Isopropylbenzene	50.000	49.134	1.7	108	0.02
71	P,T	Bromoform	50.000	52.620	-5.2	115	0.00
72	P,T	1,1,2,2-Tetrachloroethane	50.000	48.646	2.7	105	0.00
73	S	4-Bromofluorobenzene	50.000	44.299	11.4	96	0.00
74	T	1,2,3-Trichloropropane	50.000	48.052	3.9	101	0.02
75	T	trans-1,4-Dichloro-2-butene	50.000	44.747	10.5	98	0.02
76	T	n-Propylbenzene	50.000	50.745	-1.5	108	0.02
77	T	Bromobenzene	50.000	49.571	0.9	110	0.02
78	T	1,3,5-Trimethylbenzene	50.000	50.430	-0.9	110	0.00
79	T	2-Chlorotoluene	50.000	51.707	-3.4	116	0.02
80	T	4-Chlorotoluene	50.000	51.034	-2.1	113	0.02

(#) = Out of Range

11-21-07

2073

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K09\RKB205.D
Acq On : 9 Nov 2007 11:34 pm
Sample : IVO03K092 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 15
Operator: CR
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	tert-Butylbenzene	50.000	50.004	-0.0	111	0.00
82	T	1,2,4-Trimethylbenzene	50.000	50.321	-0.6	111	0.00
83	T	sec-Butylbenzene	50.000	50.108	-0.2	109	0.02
84	T	p-Isopropyltoluene	50.000	50.589	-1.2	110	0.02
85	T	1,3-Dichlorobenzene	50.000	50.427	-0.9	111	0.02
86	T	1,4-Dichlorobenzene	50.000	51.307	-2.6	112	0.02
87	T	n-Butylbenzene	50.000	50.852	-1.7	105	0.00
88	T	1,2-Dichlorobenzene	50.000	51.539	-3.1	112	0.00
89	T	1,2-Dibromo-3-chloropropane	50.000	51.436	-2.9	108	0.00
90	T	1,2,4-Trichlorobenzene	50.000	50.385	-0.8	101	0.00
91	T	Hexachlorobutadiene	50.000	50.319	-0.6	108	0.00
92	T	Naphthalene	50.000	47.533	4.9	103	0.02
93	T	1,2,3-Trichlorobenzene	50.000	50.539	-1.1	103	0.00

pu 11-21-07

(#) = Out of Range SPCC's out = 0 CCC's out = 0

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKC227
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07K033
BFB Injection Date : 11/07/07
BFB Injection Time : 13:38
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.63
75	30.0 - 60.0% of mass 95	39.28
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.00
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	80.75
175	5.0 - 9.0% of mass 174	5.84(7.2)1
176	95.0 - 101.0% of mass 174	77.78(96.3)1
177	5.0 - 9.0% of mass 176	5.13(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV067J26162	RKC229	11/07/07	14:53
2	MBLK1S	V067K20B	RKC232	11/07/07	16:45
3	LCS1S	V067K20L	RKC230	11/07/07	15:30
4	LCD1S	V067K20C	RKC231	11/07/07	16:08
5	SB3-10	K033-05	RKC234	11/07/07	18:00
6	SB3-10MS	K033-05M	RKC235	11/07/07	18:38
7	SB3-10MSD	K033-05S	RKC236	11/07/07	19:15
8	SB3-0.5'	K033-03	RKC237	11/07/07	19:53
9	SB3-5	K033-04	RKC238	11/07/07	20:30
10	SB3-15	K033-06	RKC239	11/07/07	21:07
11	SB3-20	K033-07	RKC240	11/07/07	21:44
12	SB3-20'DUP	K033-08	RKC241	11/07/07	22:21
13	SB3-25	K033-09	RKC242	11/07/07	22:58
14	SB3-25DUP	K033-10	RKC243	11/07/07	23:36
15	SB3-30	K033-11	RKC244	11/08/07	00:14
16	SB3-35	K033-12	RKC245	11/08/07	00:51
17	SB3-40	K033-13	RKC246	11/08/07	01:29

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RJC757
Instrument ID: T-067
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07K033
Date Analyzed: 10/26/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3737727	10.10	3162265	15.64	1255225	22.42
	UPPER LIMIT	7475454	10.60	6324530	16.14	2510450	22.92
	LOWER LIMIT	1868864	9.60	1581133	15.14	627613	21.92
	SAMPLE ID						
1	VSTD050	2655335	10.11	2303397	15.65	919312	22.42
2	MBLK1S	2829062	10.10	2472730	15.64	996610	22.42
3	LCS1S	1982557	10.10	1765961	15.65	733678	22.42
4	LCD1S	2210419	10.10	1939488	15.64	800185	22.42
5	SB3-10	2495007	10.10	2184663	15.64	866733	22.41
6	SB3-10MS	2583029	10.10	2300224	15.64	942570	22.41
7	SB3-10MSD	2328469	10.10	2059105	15.64	844583	22.41
8	SB3-0.5'	2359910	10.10	2076279	15.63	789545	22.40
9	SB3-5	2377848	10.10	2031165	15.64	750369	22.40
10	SB3-15	2631419	10.10	2346609	15.64	948623	22.41
11	SB3-20	2677890	10.10	2342820	15.64	936916	22.41
12	SB3-20'DUP	2397023	10.10	2096327	15.63	831437	22.41
13	SB3-25	2759322	10.10	2443167	15.64	995754	22.40
14	SB3-25DUP	2307503	10.10	2032981	15.63	804985	22.41
15	SB3-30	2269212	10.10	2026618	15.64	808439	22.41
16	SB3-35	2535184	10.10	2215919	15.64	908388	22.41
17	SB3-40	2315450	10.10	2019120	15.64	788315	22.40

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.
page 1 of 1

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	71	0.00
2	T	Dichlorodifluoromethane	0.261	0.239	8.4	61	0.00
3	P,T	Chloromethane	0.345	0.317	8.1	63	0.00
4	C,T	Vinyl chloride	0.249	0.230	7.6	69	-0.01
5	T	Bromomethane	0.229	0.238	-3.9	72	-0.01
6	T	Chloroethane	0.185	0.197	-6.5	72	0.00
7	T	Dichlorofluoromethane	0.556	0.523	5.9	68	-0.01
8	T	Trichlorofluoromethane	0.360	0.374	-3.9	72	0.00
9	T	Acrolein	0.020	0.019	5.0	70	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.248	0.229	7.7	64	0.00
11	T	Acetone	0.062	0.058	6.5	75	0.00
12	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
13	C,TM	1,1-Dichloroethene	0.447	0.415	7.2	65	-0.01
14	T	tert-Butyl alcohol	0.021	0.019	9.5	67	-0.01
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.491	0.400	18.5	53	-0.01
17	T	Methylene chloride	0.460	0.408	11.3	69	0.00
18	T	Acrylonitrile	0.080	0.076	5.0	71	0.00
19	T	Carbon disulfide	1.224	0.983	19.7	55	0.00
20	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
21	T	tert-Butyl methyl ether (MT	0.527	0.359	31.9#	49#	0.00
22	T	trans-1,2-Dichloroethene	0.473	0.436	7.8	65	0.00
23	T	Isopropyl ether (DIPE)	0.900	0.906	-0.7	72	-0.01
24	T	Vinyl acetate	0.428	0.436	-1.9	70	0.00
25	P,T	1,1-Dichloroethane	0.581	0.563	3.1	68	-0.01
26	T	tert-Butyl ethyl ether (ETB	0.693	0.421	39.2#	43#	0.00
27	T	2-Butanone	0.115	0.112	2.6	74	0.00
28	T	2,2-Dichloropropane	0.337	0.327	3.0	66	0.00
29	T	cis-1,2-Dichloroethene	0.494	0.477	3.4	68	0.00
30	C,T	Chloroform	0.530	0.511	3.6	68	-0.01
31	T	Bromochloromethane	0.272	0.262	3.7	71	-0.01
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	1,1,1-Trichloroethane	0.402	0.378	6.0	65	-0.01
34	T	1,1-Dichloropropene	0.147	0.137	6.8	64	-0.01
35	T	tert-Amyl methyl ether (TAM	0.670	0.413	38.4#	44#	-0.01
36	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
37	S	1,2-Dichloroethane-d4	0.233	0.249	-6.9	75	-0.01
38	I	CHLOROBENZENE-D5	1.000	1.000	0.0	73	0.00
39	T	Carbon tetrachloride	0.403	0.381	5.5	65	0.00
40	T	1,2-Dichloroethane	0.343	0.322	6.1	69	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CV067J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M,T	Benzene	1.563	1.463	6.4	67	-0.01
42	M,T	Trichloroethene	0.464	0.426	8.2	64	-0.01
43	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
44	C,T	1,2-Dichloropropane	0.403	0.392	2.7	70	0.00
45	T	Bromodichloromethane	0.437	0.420	3.9	68	-0.01
46	T	Dibromomethane	0.244	0.230	5.7	68	0.00
47	T	2-Chloroethyl vinyl ether	0.186	0.078	58.1#	30#	-0.01
48	T	4-Methyl-2-pentanone	0.385	0.335	13.0	76	-0.01
49	T	cis-1,3-Dichloropropene	0.543	0.544	-0.2	69	0.00
50	S	Toluene-d8	1.276	1.331	-4.3	72	-0.01
51	C,TM	Toluene	1.586	1.497	5.6	66	0.00
52	T	Ethyl methacrylate	0.374	0.379	-1.3	71	0.00
53	T	trans-1,3-Dichloropropene	0.403	0.419	-4.0	70	0.00
54	T	2-Hexanone	0.206	0.210	-1.9	78	-0.01
55	T	1,1,2-Trichloroethane	0.298	0.284	4.7	69	0.00
56	T	1,3-Dichloropropane	0.496	0.474	4.4	70	-0.01
57	T	Tetrachloroethene	0.339	0.309	8.8	65	0.00
58	T	Dibromochloromethane	0.345	0.351	-1.7	69	0.00
59	T	1,2-Dibromoethane	0.346	0.329	4.9	69	-0.01
60	T	1-Chlorohexane	0.605	0.584	3.5	65	0.00
61	P,M	Chlorobenzene	1.132	1.045	7.7	67	0.00
62	T	1,1,1,2-Tetrachloroethane	0.331	0.322	2.7	68	0.00
63	C,T	Ethylbenzene	1.768	1.667	5.7	67	-0.01
64	T	m-Xylene & p-Xylene	1.303	1.260	3.3	67	0.00
65	T	o-Xylene	1.285	1.216	5.4	67	0.00
66	T	Styrene	1.129	1.081	4.3	68	-0.01
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	73	0.00
68	T	Isopropylbenzene	4.179	4.057	2.9	68	0.00
69	P,T	Bromoform	0.562	0.541	3.7	70	-0.01
70	P,T	1,1,2,2-Tetrachloroethane	1.026	0.986	3.9	72	0.00
71	S	4-Bromofluorobenzene	1.144	1.199	-4.8	73	0.00
72	T	1,2,3-Trichloropropane	0.167	0.164	1.8	75	0.00
73	T	trans-1,4-Dichloro-2-butene	0.203	0.188	7.4	68	0.00
74	T	n-Propylbenzene	5.346	5.178	3.1	66	-0.01
75	T	Bromobenzene	1.028	1.005	2.2	68	0.00
76	T	1,3,5-Trimethylbenzene	3.317	3.218	3.0	68	0.00
77	T	2-Chlorotoluene	3.001	2.782	7.3	65	-0.01
78	T	4-Chlorotoluene	2.904	2.838	2.3	70	0.00
79	T	tert-Butylbenzene	3.011	2.861	5.0	65	0.00
80	T	1,2,4-Trimethylbenzene	3.298	3.142	4.7	66	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	4.864	4.652	4.4	66	-0.01
82	T	p-Isopropyltoluene	3.979	3.702	7.0	65	-0.01
83	T	1,3-Dichlorobenzene	2.006	1.886	6.0	66	-0.01
84	T	1,4-Dichlorobenzene	2.004	1.896	5.4	68	0.00
85	T	n-Butylbenzene	3.380	3.277	3.0	63	0.00
86	T	1,2-Dichlorobenzene	1.774	1.688	4.8	69	0.00
87	T	1,2-Dibromo-3-chloropropane	0.154	0.142	7.8	68	-0.01
88	T	1,2,4-Trichlorobenzene	0.958	0.937	2.2	68	-0.01
89	T	Hexachlorobutadiene	0.556	0.535	3.8	66	0.00
90	T	Naphthalene	1.605	1.346	16.1	58	0.00
91	T	1,2,3-Trichlorobenzene	0.824	0.792	3.9	68	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	71	0.00
2	T	Dichlorodifluoromethane	50.000	45.755	8.5	61	0.00
3	P,T	Chloromethane	50.000	45.974	8.1	63	0.00
4	C,T	Vinyl chloride	50.000	46.082	7.8	69	-0.01
5	T	Bromomethane	50.000	51.888	-3.8	72	-0.01
6	T	Chloroethane	50.000	53.260	-6.5	72	0.00
7	T	Dichlorofluoromethane	50.000	47.079	5.8	68	-0.01
8	T	Trichlorofluoromethane	50.000	51.989	-4.0	72	0.00
9	T	Acrolein	200.000	191.524	4.2	70	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	46.095	7.8	64	0.00
11	T	Acetone	200.000	187.206	6.4	75	0.00
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	46.382	7.2	65	-0.01
14	T	tert-Butyl alcohol	250.000	224.944	10.0	67	-0.01
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	40.686	18.6	53	-0.01
17	T	Methylene chloride	50.000	44.355	11.3	69	0.00
18	T	Acrylonitrile	250.000	238.886	4.4	71	0.00
19	T	Carbon disulfide	50.000	40.172	19.7	55	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	34.064	31.9#	49	0.00
22	T	trans-1,2-Dichloroethene	50.000	46.090	7.8	65	0.00
23	T	Isopropyl ether (DIPE)	50.000	50.345	-0.7	72	-0.01
24	T	Vinyl acetate	50.000	50.994	-2.0	70	0.00
25	P,T	1,1-Dichloroethane	50.000	48.419	3.2	68	-0.01
26	T	tert-Butyl ethyl ether (ETB	50.000	30.386	39.2#	43	0.00
27	T	2-Butanone	200.000	194.772	2.6	74	0.00
28	T	2,2-Dichloropropane	50.000	48.520	3.0	66	0.00
29	T	cis-1,2-Dichloroethene	50.000	48.322	3.4	68	0.00
30	C,T	Chloroform	50.000	48.274	3.5	68	-0.01
31	T	Bromochloromethane	50.000	48.145	3.7	71	-0.01
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	47.072	5.9	65	-0.01
34	T	1,1-Dichloropropene	50.000	46.725	6.5	64	-0.01
35	T	tert-Amyl methyl ether (TAM	50.000	30.783	38.4#	44	-0.01
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	53.481	-7.0	75	-0.01
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	73	0.00
39	T	Carbon tetrachloride	50.000	47.289	5.4	65	0.00
40	T	1,2-Dichloroethane	50.000	46.830	6.3	69	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	46.792	6.4	67	-0.01
42	M,T	Trichloroethene	50.000	45.953	8.1	64	-0.01
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	48.733	2.5	70	0.00
45	T	Bromodichloromethane	50.000	48.134	3.7	68	-0.01
46	T	Dibromomethane	50.000	47.098	5.8	68	0.00
47	T	2-Chloroethyl vinyl ether	50.000	21.008	58.0#	30	-0.01
48	T	4-Methyl-2-pentanone	200.000	199.015	0.5	76	-0.01
49	T	cis-1,3-Dichloropropene	50.000	50.091	-0.2	69	0.00
50	S	Toluene-d8	50.000	52.169	-4.3	72	-0.01
51	C,TM	Toluene	50.000	47.188	5.6	66	0.00
52	T	Ethyl methacrylate	50.000	50.691	-1.4	71	0.00
53	T	trans-1,3-Dichloropropene	50.000	45.373	9.3	70	0.00
54	T	2-Hexanone	200.000	203.427	-1.7	78	-0.01
55	T	1,1,2-Trichloroethane	50.000	47.702	4.6	69	0.00
56	T	1,3-Dichloropropane	50.000	47.813	4.4	70	-0.01
57	T	Tetrachloroethene	50.000	45.573	8.9	65	0.00
58	T	Dibromochloromethane	50.000	50.911	-1.8	69	0.00
59	T	1,2-Dibromoethane	50.000	47.513	5.0	69	-0.01
60	T	1-Chlorohexane	50.000	48.217	3.6	65	0.00
61	P,M	Chlorobenzene	50.000	46.169	7.7	67	0.00
62	T	1,1,1,2-Tetrachloroethane	50.000	48.637	2.7	68	0.00
63	C,T	Ethylbenzene	50.000	47.144	5.7	67	-0.01
64	T	m-Xylene & p-Xylene	100.000	96.752	3.2	67	0.00
65	T	o-Xylene	50.000	47.300	5.4	67	0.00
66	T	Styrene	50.000	47.883	4.2	68	-0.01
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	73	0.00
68	T	Isopropylbenzene	50.000	48.539	2.9	68	0.00
69	P,T	Bromoform	50.000	48.182	3.6	70	-0.01
70	P,T	1,1,2,2-Tetrachloroethane	50.000	48.055	3.9	72	0.00
71	S	4-Bromofluorobenzene	50.000	52.424	-4.8	73	0.00
72	T	1,2,3-Trichloropropane	50.000	49.287	1.4	75	0.00
73	T	trans-1,4-Dichloro-2-butene	50.000	46.393	7.2	68	0.00
74	T	n-Propylbenzene	50.000	48.425	3.2	66	-0.01
75	T	Bromobenzene	50.000	48.852	2.3	68	0.00
76	T	1,3,5-Trimethylbenzene	50.000	48.513	3.0	68	0.00
77	T	2-Chlorotoluene	50.000	46.352	7.3	65	-0.01
78	T	4-Chlorotoluene	50.000	48.867	2.3	70	0.00
79	T	tert-Butylbenzene	50.000	47.496	5.0	65	0.00
80	T	1,2,4-Trimethylbenzene	50.000	47.635	4.7	66	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K07\RKC229.D Vial: 3
Acq On : 7 Nov 2007 2:53 pm Operator: CR
Sample : CVO67J26162 Inst : TO67
Misc : 50ppb 8260/200ppb KET_AA\250ppb TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	47.821	4.4	66	-0.01
82	T	p-Isopropyltoluene	50.000	46.511	7.0	65	-0.01
83	T	1,3-Dichlorobenzene	50.000	47.000	6.0	66	-0.01
84	T	1,4-Dichlorobenzene	50.000	47.301	5.4	68	0.00
85	T	n-Butylbenzene	50.000	41.455	17.1	63	0.00
86	T	1,2-Dichlorobenzene	50.000	47.583	4.8	69	0.00
87	T	1,2-Dibromo-3-chloropropane	50.000	46.120	7.8	68	-0.01
88	T	1,2,4-Trichlorobenzene	50.000	48.902	2.2	68	-0.01
89	T	Hexachlorobutadiene	50.000	48.114	3.8	66	0.00
90	T	Naphthalene	50.000	37.760	24.5#	58	0.00
91	T	1,2,3-Trichlorobenzene	50.000	48.043	3.9	68	0.00

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKC400
Instrument ID: T-067
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07K033
BFB Injection Date : 11/15/07
BFB Injection Time : 09:21
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.71
75	30.0 - 60.0% of mass 95	39.07
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.74
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	86.97
175	5.0 - 9.0% of mass 174	6.06(7.0)1
176	95.0 - 101.0% of mass 174	84.84(97.5)1
177	5.0 - 9.0% of mass 176	5.48(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV067J26175	RKC401	11/15/07	12:24
2	MBLK2S	V067K35B	RKC404	11/15/07	14:15
3	LCS2S	V067K35L	RKC402	11/15/07	13:01
4	LCD2S	V067K35C	RKC403	11/15/07	13:38
5	SB3-90	K033-23	RKC405	11/15/07	14:52
6	SB3-45	K033-14R	RKC406	11/15/07	15:30
7	SB3-50	K033-15R	RKC407	11/15/07	16:07
8	SB3-55	K033-16R	RKC408	11/15/07	16:44
9	SB3-60	K033-17R	RKC409	11/15/07	17:21
10	SB3-65	K033-18R	RKC410	11/15/07	17:57

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RJC757
Instrument ID: T-067
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07K033
Date Analyzed: 10/26/07
Time Analyzed: 21:11
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3737727	10.10	3162265	15.64	1255225	22.42
	UPPER LIMIT	7475454	10.60	6324530	16.14	2510450	22.92
	LOWER LIMIT	1868864	9.60	1581133	15.14	627613	21.92
	SAMPLE ID						
1	VSTD050	2985079	10.12	2519826	15.66	1020275	22.43
2	MBLK2S	3271702	10.12	2779497	15.66	1054828	22.44
3	LCS2S	3251247	10.12	2825307	15.66	1117923	22.44
4	LCD2S	2930345	10.12	2501615	15.66	1008561	22.44
5	SB3-90	3306204	10.12	2827161	15.66	1113038	22.44
6	SB3-45	2914857	10.12	2562462	15.66	1009356	22.44
7	SB3-50	3416619	10.12	3006426	15.66	1183308	22.44
8	SB3-55	3076756	10.12	2654186	15.66	1062582	22.44
9	SB3-60	3276318	10.12	2893639	15.66	1173140	22.44
10	SB3-65	2967876	10.12	2603057	15.66	1009014	22.44

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKC401.D Vial: 2
Acq On : 15 Nov 2007 12:24 pm Operator: CR
Sample : CVO67J26175 Inst : TO67
Misc : 50PPB 8260/200PPB KET_AA/250PPB TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	80	0.01
2	T	Dichlorodifluoromethane	50.000	42.931	14.1	64	0.01
3	P,T	Chloromethane	50.000	44.561	10.9	69	0.01
4	C,T	Vinyl chloride	50.000	43.953	12.1	74	0.00
5	T	Bromomethane	50.000	47.781	4.4	75	0.00
6	T	Chloroethane	50.000	51.270	-2.5	78	0.00
7	T	Dichlorofluoromethane	50.000	43.173	13.7	70	0.00
8	T	Trichlorofluoromethane	50.000	52.223	-4.4	81	0.00
9	T	Acrolein	200.000	185.618	7.2	76	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	50.000	41.773	16.5	65	0.00
11	T	Acetone	200.000	204.335	-2.2	92	0.00
12	T	sec-Propyl alcohol	-1.000	0.000	0.0	0	0.00
13	C,TM	1,1-Dichloroethene	50.000	40.638	18.7	64	0.00
14	T	tert-Butyl alcohol	250.000	259.734	-3.9	88	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	39.262	21.5#	58	0.00
17	T	Methylene chloride	50.000	40.900	18.2	72	0.00
18	T	Acrylonitrile	250.000	246.133	1.5	82	0.00
19	T	Carbon disulfide	50.000	31.693	36.6#	49	0.00
20	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
21	T	tert-Butyl methyl ether (MT	50.000	46.917	6.2	76	0.00
22	T	trans-1,2-Dichloroethene	50.000	41.300	17.4	65	0.00
23	T	Isopropyl ether (DIPE)	50.000	47.073	5.9	75	0.00
24	T	Vinyl acetate	50.000	45.475	9.0	70	0.00
25	P,T	1,1-Dichloroethane	50.000	44.980	10.0	71	0.00
26	T	tert-Butyl ethyl ether (ETB	50.000	46.463	7.1	74	0.01
27	T	2-Butanone	200.000	208.672	-4.3	89	0.00
28	T	2,2-Dichloropropane	50.000	42.790	14.4	66	0.00
29	T	cis-1,2-Dichloroethene	50.000	43.944	12.1	69	0.00
30	C,T	Chloroform	50.000	45.633	8.7	72	0.00
31	T	Bromochloromethane	50.000	44.269	11.5	73	0.00
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	1,1,1-Trichloroethane	50.000	44.045	11.9	69	0.00
34	T	1,1-Dichloropropene	50.000	42.125	15.8	65	0.00
35	T	tert-Amyl methyl ether (TAM	50.000	47.410	5.2	76	0.00
36	T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	0	0.00
37	S	1,2-Dichloroethane-d4	50.000	46.652	6.7	74	0.00
38	I	CHLOROBENZENE-D5	50.000	50.000	0.0	80	0.01
39	T	Carbon tetrachloride	50.000	45.093	9.8	68	0.00
40	T	1,2-Dichloroethane	50.000	45.346	9.3	73	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKC401.D Vial: 2
Acq On : 15 Nov 2007 12:24 pm Operator: CR
Sample : CV067J26175 Inst : TO67
Misc : 50PPB 8260/200PPB KET_AA/250PPB TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	M,T	Benzene	50.000	43.689	12.6	68	0.00
42	M,T	Trichloroethene	50.000	43.329	13.3	66	0.00
43	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
44	C,T	1,2-Dichloropropane	50.000	46.753	6.5	73	0.01
45	T	Bromodichloromethane	50.000	46.772	6.5	73	0.00
46	T	Dibromomethane	50.000	44.487	11.0	71	0.00
47	T	2-Chloroethyl vinyl ether	50.000	36.865	26.3#	57	0.00
48	T	4-Methyl-2-pentanone	200.000	203.377	-1.7	85	0.00
49	T	cis-1,3-Dichloropropene	50.000	47.412	5.2	72	0.00
50	S	Toluene-d8	50.000	46.770	6.5	70	0.00
51	C,TM	Toluene	50.000	44.347	11.3	68	0.01
52	T	Ethyl methacrylate	50.000	49.412	1.2	76	0.01
53	T	trans-1,3-Dichloropropene	50.000	43.177	13.6	73	0.01
54	T	2-Hexanone	200.000	214.511	-7.3	90	0.00
55	T	1,1,2-Trichloroethane	50.000	47.461	5.1	75	0.01
56	T	1,3-Dichloropropane	50.000	46.406	7.2	74	0.00
57	T	Tetrachloroethene	50.000	43.392	13.2	68	0.01
58	T	Dibromochloromethane	50.000	50.406	-0.8	75	0.01
59	T	1,2-Dibromoethane	50.000	46.081	7.8	73	0.00
60	T	1-Chlorohexane	50.000	47.103	5.8	69	0.01
61	P,M	Chlorobenzene	50.000	45.181	9.6	71	0.01
62	T	1,1,1,2-Tetrachloroethane	50.000	48.192	3.6	73	0.01
63	C,T	Ethylbenzene	50.000	45.517	9.0	71	0.00
64	T	m-Xylene & p-Xylene	100.000	93.270	6.7	70	0.01
65	T	o-Xylene	50.000	46.966	6.1	72	0.01
66	T	Styrene	50.000	47.059	5.9	73	0.01
67	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	81	0.01
68	T	Isopropylbenzene	50.000	45.866	8.3	71	0.01
69	P,T	Bromoform	50.000	48.318	3.4	77	0.00
70	P,T	1,1,2,2-Tetrachloroethane	50.000	48.635	2.7	81	0.01
71	S	4-Bromofluorobenzene	50.000	45.888	8.2	71	0.01
72	T	1,2,3-Trichloropropane	50.000	49.919	0.2	85	0.01
73	T	trans-1,4-Dichloro-2-butene	50.000	47.714	4.6	78	0.01
74	T	n-Propylbenzene	50.000	47.503	5.0	72	0.00
75	T	Bromobenzene	50.000	46.863	6.3	73	0.01
76	T	1,3,5-Trimethylbenzene	50.000	46.047	7.9	71	0.01
77	T	2-Chlorotoluene	50.000	46.934	6.1	73	0.00
78	T	4-Chlorotoluene	50.000	44.712	10.6	71	0.01
79	T	tert-Butylbenzene	50.000	53.140	-6.3	81	0.01
80	T	1,2,4-Trimethylbenzene	50.000	46.955	6.1	72	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKC401.D Vial: 2
Acq On : 15 Nov 2007 12:24 pm Operator: CR
Sample : CVO67J26175 Inst : TO67
Misc : 50PPB 8260/200PPB KET_AA/250PPB TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	50.000	47.385	5.2	72	0.00
82	T	p-Isopropyltoluene	50.000	45.369	9.3	71	0.01
83	T	1,3-Dichlorobenzene	50.000	45.770	8.5	72	0.01
84	T	1,4-Dichlorobenzene	50.000	46.500	7.0	74	0.01
85	T	n-Butylbenzene	50.000	42.890	14.2	73	0.01
86	T	1,2-Dichlorobenzene	50.000	47.053	5.9	75	0.01
87	T	1,2-Dibromo-3-chloropropane	50.000	50.079	-0.2	82	0.01
88	T	1,2,4-Trichlorobenzene	50.000	52.474	-4.9	81	0.01
89	T	Hexachlorobutadiene	50.000	49.562	0.9	76	0.01
90	T	Naphthalene	50.000	54.189	-8.4	95	0.01
91	T	1,2,3-Trichlorobenzene	50.000	52.566	-5.1	82	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKC401.D Vial: 2
Acq On : 15 Nov 2007 12:24 pm Operator: CR
Sample : CVO67J26175 Inst : TO67
Misc : 50PPB 8260/200PPB KET_AA/250PPB TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	80	0.01
2	T	Dichlorodifluoromethane	0.261	0.224	14.2	64	0.01
3	P,T	Chloromethane	0.345	0.307	11.0	69	0.01
4	C,T	Vinyl chloride	0.249	0.219	12.0	74	0.00
5	T	Bromomethane	0.229	0.219	4.4	75	0.00
6	T	Chloroethane	0.185	0.190	-2.7	78	0.00
7	T	Dichlorofluoromethane	0.556	0.480	13.7	70	0.00
8	T	Trichlorofluoromethane	0.360	0.376	-4.4	81	0.00
9	T	Acrolein	0.020	0.018	10.0	76	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.248	0.208	16.1	65	0.00
11	T	Acetone	0.062	0.064	-3.2	92	0.00
12	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
13	C,TM	1,1-Dichloroethene	0.447	0.364	18.6	64	0.00
14	T	tert-Butyl alcohol	0.021	0.022	-4.8	88	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.491	0.386	21.4#	58	0.00
17	T	Methylene chloride	0.460	0.377	18.0	72	0.00
18	T	Acrylonitrile	0.080	0.079	1.3	82	0.00
19	T	Carbon disulfide	1.224	0.776	36.6#	49#	0.00
20	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
21	T	tert-Butyl methyl ether (MT	0.527	0.494	6.3	76	0.00
22	T	trans-1,2-Dichloroethene	0.473	0.391	17.3	65	0.00
23	T	Isopropyl ether (DIPE)	0.900	0.847	5.9	75	0.00
24	T	Vinyl acetate	0.428	0.389	9.1	70	0.00
25	P,T	1,1-Dichloroethane	0.581	0.523	10.0	71	0.00
26	T	tert-Butyl ethyl ether (ETB	0.693	0.644	7.1	74	0.01
27	T	2-Butanone	0.115	0.120	-4.3	89	0.00
28	T	2,2-Dichloropropane	0.337	0.288	14.5	66	0.00
29	T	cis-1,2-Dichloroethene	0.494	0.434	12.1	69	0.00
30	C,T	Chloroform	0.530	0.484	8.7	72	0.00
31	T	Bromochloromethane	0.272	0.241	11.4	73	0.00
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	1,1,1-Trichloroethane	0.402	0.354	11.9	69	0.00
34	T	1,1-Dichloropropene	0.147	0.124	15.6	65	0.00
35	T	tert-Amyl methyl ether (TAM	0.670	0.635	5.2	76	0.00
36	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
37	S	1,2-Dichloroethane-d4	0.233	0.217	6.9	74	0.00
38	I	CHLOROBENZENE-D5	1.000	1.000	0.0	80	0.01
39	T	Carbon tetrachloride	0.403	0.364	9.7	68	0.00
40	T	1,2-Dichloroethane	0.343	0.311	9.3	73	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKC401.D Vial: 2
Acq On : 15 Nov 2007 12:24 pm Operator: CR
Sample : CV067J26175 Inst : TO67
Misc : 50PPB 8260/200PPB KET_AA/250PPB TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	M,T	Benzene	1.563	1.366	12.6	68	0.00
42	M,T	Trichloroethene	0.464	0.402	13.4	66	0.00
43	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
44	C,T	1,2-Dichloropropane	0.403	0.377	6.5	73	0.01
45	T	Bromodichloromethane	0.437	0.408	6.6	73	0.00
46	T	Dibromomethane	0.244	0.217	11.1	71	0.00
47	T	2-Chloroethyl vinyl ether	0.186	0.137	26.3#	57	0.00
48	T	4-Methyl-2-pentanone	0.385	0.342	11.2	85	0.00
49	T	cis-1,3-Dichloropropene	0.543	0.515	5.2	72	0.00
50	S	Toluene-d8	1.276	1.194	6.4	70	0.00
51	C,TM	Toluene	1.586	1.406	11.3	68	0.01
52	T	Ethyl methacrylate	0.374	0.370	1.1	76	0.01
53	T	trans-1,3-Dichloropropene	0.403	0.398	1.2	73	0.01
54	T	2-Hexanone	0.206	0.221	-7.3	90	0.00
55	T	1,1,2-Trichloroethane	0.298	0.283	5.0	75	0.01
56	T	1,3-Dichloropropane	0.496	0.460	7.3	74	0.00
57	T	Tetrachloroethene	0.339	0.294	13.3	68	0.01
58	T	Dibromochloromethane	0.345	0.347	-0.6	75	0.01
59	T	1,2-Dibromoethane	0.346	0.319	7.8	73	0.00
60	T	1-Chlorohexane	0.605	0.570	5.8	69	0.01
61	P,M	Chlorobenzene	1.132	1.023	9.6	71	0.01
62	T	1,1,1,2-Tetrachloroethane	0.331	0.319	3.6	73	0.01
63	C,T	Ethylbenzene	1.768	1.609	9.0	71	0.00
64	T	m-Xylene & p-Xylene	1.303	1.215	6.8	70	0.01
65	T	o-Xylene	1.285	1.207	6.1	72	0.01
66	T	Styrene	1.129	1.063	5.8	73	0.01
67	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	81	0.01
68	T	Isopropylbenzene	4.179	3.834	8.3	71	0.01
69	P,T	Bromoform	0.562	0.543	3.4	77	0.00
70	P,T	1,1,2,2-Tetrachloroethane	1.026	0.998	2.7	81	0.01
71	S	4-Bromofluorobenzene	1.144	1.050	8.2	71	0.01
72	T	1,2,3-Trichloropropane	0.167	0.167	0.0	85	0.01
73	T	trans-1,4-Dichloro-2-butene	0.203	0.194	4.4	78	0.01
74	T	n-Propylbenzene	5.346	5.079	5.0	72	0.00
75	T	Bromobenzene	1.028	0.964	6.2	73	0.01
76	T	1,3,5-Trimethylbenzene	3.317	3.055	7.9	71	0.01
77	T	2-Chlorotoluene	3.001	2.817	6.1	73	0.00
78	T	4-Chlorotoluene	2.904	2.597	10.6	71	0.01
79	T	tert-Butylbenzene	3.011	3.201	-6.3	81	0.01
80	T	1,2,4-Trimethylbenzene	3.298	3.097	6.1	72	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKC401.D Vial: 2
Acq On : 15 Nov 2007 12:24 pm Operator: CR
Sample : CVO67J26175 Inst : TO67
Misc : 50PPB 8260/200PPB KET_AA/250PPB TBA Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67J26.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Sat Oct 27 09:12:46 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	sec-Butylbenzene	4.864	4.609	5.2	72	0.00
82	T	p-Isopropyltoluene	3.979	3.611	9.2	71	0.01
83	T	1,3-Dichlorobenzene	2.006	1.836	8.5	72	0.01
84	T	1,4-Dichlorobenzene	2.004	1.864	7.0	74	0.01
85	T	n-Butylbenzene	3.380	3.395	-0.4	73	0.01
86	T	1,2-Dichlorobenzene	1.774	1.669	5.9	75	0.01
87	T	1,2-Dibromo-3-chloropropane	0.154	0.154	0.0	82	0.01
88	T	1,2,4-Trichlorobenzene	0.958	1.005	-4.9	81	0.01
89	T	Hexachlorobutadiene	0.556	0.551	0.9	76	0.01
90	T	Naphthalene	1.605	1.983	-23.6#	95	0.01
91	T	1,2,3-Trichlorobenzene	0.824	0.866	-5.1	82	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RKB348
Instrument ID: T-003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 07K033
BFB Injection Date : 11/15/07
BFB Injection Time : 11:02
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.04
75	30.0 - 60.0% of mass 95	50.80
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.77
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	69.36
175	5.0 - 9.0% of mass 174	4.95(7.1)1
176	95.0 - 101.0% of mass 174	68.24(98.4)1
177	5.0 - 9.0% of mass 176	4.54(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CV003K0918	RKB350	11/15/07	12:16
2	MBLK3S	V003K31Q	RKB359	11/15/07	17:52
3	LCS3S	V003K31L	RKB351	11/15/07	12:53
4	LCD3S	V003K31C	RKB352	11/15/07	13:30
5	SB3-70	K033-19R	RKB354	11/15/07	14:44
6	SB3-75	K033-20R	RKB355	11/15/07	15:23
7	SB3-80	K033-21R	RKB356	11/15/07	15:59
8	SB3-85	K033-22R	RKB357	11/15/07	16:36

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RKB197
Instrument ID: T-003
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 07K033
Date Analyzed: 11/09/07
Time Analyzed: 18:29
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2428644	10.72	2305499	16.51	1085833	23.83
	UPPER LIMIT	4857288	11.22	4610998	17.01	2171666	24.33
	LOWER LIMIT	1214322	10.22	1152750	16.01	542917	23.33
	SAMPLE ID						
1	VSTD050	2905179	10.73	2693903	16.52	1312243	23.84
2	MBLK3S	2380439	10.72	2345421	16.51	1064957	23.84
3	LCS3S	2846826	10.72	2725867	16.53	1335356	23.83
4	LCD3S	2448882	10.72	2360982	16.53	1148947	23.83
5	SB3-70	2675337	10.73	2643734	16.52	1252311	23.85
6	SB3-75	2561759	10.73	2558776	16.52	1229683	23.85
7	SB3-80	2393839	10.72	2392354	16.53	1120110	23.84
8	SB3-85	2402008	10.73	2350901	16.52	1107355	23.84

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKB350.D
Acq On : 15 Nov 2007 12:16 pm
Sample : CV003K0918 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: CGM
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	120	0.02
2	T	Dichlorodifluoromethane	50.000	48.027	3.9	108	0.01
3	T	Dichlorotetrafluoroethane	50.000	0.000	100.0#	0	0.00
4	P,T	Chloromethane	50.000	39.152	21.7#	99	0.01
5	C,T	Vinyl chloride	50.000	48.110	3.8	106	0.00
6	T	Bromomethane	50.000	48.795	2.4	111	0.00
7	T	Chloroethane	50.000	49.607	0.8	115	0.00
8	T	Dichlorofluoromethane	50.000	43.935	12.1	109	0.01
9	T	Trichlorofluoromethane	50.000	49.147	1.7	109	0.00
10	T	sec-Propyl alcohol	50.000	0.000	100.0#	0	0.00
11	T	Acrolein	200.000	177.355	11.3	102	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	50.000	48.313	3.4	114	0.00
13	T	Acetone	200.000	172.863	13.6	99	0.00
14	C,T	1,1-Dichloroethene	50.000	42.890	14.2	104	0.01
15	T	tert-Butyl alcohol	250.000	272.592	-9.0	110	0.01
16	T	Acetonitrile	50.000	0.000	100.0#	0	0.00
17	T	Iodomethane	50.000	52.971	-5.9	115	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	80	0.00
19	T	Methylene chloride	50.000	44.890	10.2	111	0.00
20	T	Carbon disulfide	50.000	41.305	17.4	100	0.00
21	T	Acrylonitrile	250.000	237.586	5.0	107	0.00
22	T	tert-Butyl methyl ether (MT	50.000	57.015	-14.0	136	0.02
23	T	trans-1,2-Dichloroethene	50.000	45.432	9.1	109	0.01
24	T	Isopropyl ether (DIPE)	50.000	46.793	6.4	114	0.01
25	T	Vinyl acetate	50.000	52.972	-5.9	123	0.01
26	P,T	1,1-Dichloroethane	50.000	50.857	-1.7	112	0.00
27	T	tert-Butyl ethyl ether (ETB	50.000	59.003	-18.0	137	0.00
28	T	2-Butanone	200.000	188.348	5.8	103	0.00
29	T	2,2-Dichloropropane	50.000	59.590	-19.2	138	0.01
30	T	cis-1,2-Dichloroethene	50.000	48.463	3.1	113	0.00
31	T	tert-Butyl formate (TBF)	50.000	0.000	100.0#	0	0.00
32	C,T	Chloroform	50.000	46.810	6.4	111	0.00
33	T	Bromochloromethane	50.000	47.904	4.2	113	0.00
34	T	Tetrahydrofuran	50.000	42.159	15.7	100	0.00
35	T	1,1,1-Trichloroethane	50.000	49.925	0.2	115	0.00
36	T	1,1-Dichloropropene	50.000	48.226	3.5	113	0.01
37	T	Cyclohexane	-1.000	0.000	0.0	16	-0.06
38	T	tert-Amyl methyl ether (TAM	50.000	56.613	-13.2	132	0.01
39	S	1,2-Dichloroethane-d4	50.000	46.504	7.0	107	0.00
40	I	CHLOROBENZENE-D5	50.000	50.000	0.0	117	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKB350.D
Acq On : 15 Nov 2007 12:16 pm
Sample : CVO03K0918 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: CGM
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	50.000	50.544	-1.1	115	0.00
42	T	1,2-Dichloroethane	50.000	47.309	5.4	109	0.01
43	T	Benzene	50.000	47.694	4.6	112	0.01
44	T	Trichloroethene	50.000	49.321	1.4	114	0.00
45	T	Methylcyclohexane	-1.000	0.000	0.0	114	0.00
46	C,T	1,2-Dichloropropane	50.000	49.013	2.0	110	0.00
47	T	Bromodichloromethane	50.000	48.466	3.1	112	0.00
48	T	Dibromomethane	50.000	49.178	1.6	113	0.00
49	T	2-Chloroethyl vinyl ether	50.000	44.300	11.4	102	0.00
50	T	4-Methyl-2-pentanone	200.000	183.855	8.1	108	0.00
51	T	cis-1,3-Dichloropropene	50.000	53.191	-6.4	121	0.00
52	S	Toluene-d8	50.000	47.224	5.6	109	0.01
53	C,T	Toluene	50.000	45.810	8.4	109	0.00
54	T	Ethyl methacrylate	50.000	48.066	3.9	115	0.00
55	T	trans-1,3-Dichloropropene	50.000	47.688	4.6	120	0.00
56	T	2-Hexanone	200.000	184.219	7.9	106	0.00
57	T	1,1,2-Trichloroethane	50.000	48.528	2.9	114	0.00
58	T	1,3-Dichloropropane	50.000	49.701	0.6	117	0.00
59	T	Tetrachloroethene	50.000	47.931	4.1	115	0.00
60	T	Dibromochloromethane	50.000	48.955	2.1	112	0.01
61	T	1,2-Dibromoethane	50.000	49.382	1.2	114	0.00
62	T	1-Chlorohexane	50.000	48.611	2.8	114	0.01
63	P	Chlorobenzene	50.000	48.489	3.0	115	0.01
64	T	1,1,1,2-Tetrachloroethane	50.000	49.617	0.8	117	0.01
65	C,T	Ethylbenzene	50.000	47.942	4.1	113	0.01
66	T	m-Xylene & p-Xylene	100.000	95.781	4.2	112	0.00
67	T	o-Xylene	50.000	46.940	6.1	111	0.00
68	T	Styrene	50.000	48.997	2.0	116	0.00
69	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	121	0.01
70	T	Isopropylbenzene	50.000	45.039	9.9	111	0.01
71	P,T	Bromoform	50.000	46.104	7.8	113	0.00
72	P,T	1,1,2,2-Tetrachloroethane	50.000	44.771	10.5	109	0.00
73	S	4-Bromofluorobenzene	50.000	45.038	9.9	110	0.00
74	T	1,2,3-Trichloropropane	50.000	44.422	11.2	105	0.01
75	T	trans-1,4-Dichloro-2-butene	50.000	46.803	6.4	115	0.02
76	T	n-Propylbenzene	50.000	46.681	6.6	112	0.01
77	T	Bromobenzene	50.000	46.578	6.8	116	0.01
78	T	1,3,5-Trimethylbenzene	50.000	45.897	8.2	113	0.00
79	T	2-Chlorotoluene	50.000	46.556	6.9	118	0.01
80	T	4-Chlorotoluene	50.000	45.431	9.1	113	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKB350.D
Acq On : 15 Nov 2007 12:16 pm
Sample : CVO03K0918 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: CGM
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	tert-Butylbenzene	50.000	46.794	6.4	117	0.00
82	T	1,2,4-Trimethylbenzene	50.000	45.825	8.3	113	0.00
83	T	sec-Butylbenzene	50.000	46.498	7.0	113	0.01
84	T	p-Isopropyltoluene	50.000	47.370	5.3	116	0.01
85	T	1,3-Dichlorobenzene	50.000	47.526	4.9	117	0.01
86	T	1,4-Dichlorobenzene	50.000	47.465	5.1	116	0.01
87	T	n-Butylbenzene	50.000	47.917	4.2	111	0.00
88	T	1,2-Dichlorobenzene	50.000	47.200	5.6	115	0.00
89	T	1,2-Dibromo-3-chloropropane	50.000	43.783	12.4	103	0.00
90	T	1,2,4-Trichlorobenzene	50.000	49.968	0.1	113	0.00
91	T	Hexachlorobutadiene	50.000	48.858	2.3	118	0.00
92	T	Naphthalene	50.000	42.912	14.2	105	0.01
93	T	1,2,3-Trichlorobenzene	50.000	48.983	2.0	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKB350.D
Acq On : 15 Nov 2007 12:16 pm
Sample : CVO03K0918 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: CGM
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	120	0.02
2	T	Dichlorodifluoromethane	0.379	0.364	4.0	108	0.01
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	0#	0.00
4	P,T	Chloromethane	0.465	0.364	21.7#	99	0.01
5	C,T	Vinyl chloride	0.357	0.344	3.6	106	0.00
6	T	Bromomethane	0.316	0.308	2.5	111	0.00
7	T	Chloroethane	0.210	0.208	1.0	115	0.00
8	T	Dichlorofluoromethane	0.811	0.713	12.1	109	0.01
9	T	Trichlorofluoromethane	0.660	0.648	1.8	109	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	0#	0.00
11	T	Acrolein	0.032	0.028	12.5	102	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.271	0.262	3.3	114	0.00
13	T	Acetone	0.108	0.088	18.5	99	0.00
14	C,T	1,1-Dichloroethene	0.658	0.565	14.1	104	0.01
15	T	tert-Butyl alcohol	0.024	0.026	-8.3	110	0.01
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.425	0.450	-5.9	115	0.00
18	T	Methyl acetate	0.000	0.000	0.0	80	0.00
19	T	Methylene chloride	0.500	0.449	10.2	111	0.00
20	T	Carbon disulfide	1.215	1.004	17.4	100	0.00
21	T	Acrylonitrile	0.083	0.078	6.0	107	0.00
22	T	tert-Butyl methyl ether (MT	0.707	0.806	-14.0	136	0.02
23	T	trans-1,2-Dichloroethene	0.596	0.542	9.1	109	0.01
24	T	Isopropyl ether (DIPE)	1.138	1.065	6.4	114	0.01
25	T	Vinyl acetate	0.546	0.578	-5.9	123	0.01
26	P,T	1,1-Dichloroethane	0.645	0.656	-1.7	112	0.00
27	T	tert-Butyl ethyl ether (ETB	0.834	0.984	-18.0	137	0.00
28	T	2-Butanone	0.133	0.125	6.0	103	0.00
29	T	2,2-Dichloropropane	0.434	0.518	-19.4	138	0.01
30	T	cis-1,2-Dichloroethene	0.648	0.628	3.1	113	0.00
31	T	tert-Butyl formate (TBF)	0.000	0.000	0.0	0#	0.00
32	C,T	Chloroform	0.795	0.744	6.4	111	0.00
33	T	Bromochloromethane	0.299	0.287	4.0	113	0.00
34	T	Tetrahydrofuran	0.080	0.067	16.2	100	0.00
35	T	1,1,1-Trichloroethane	0.677	0.676	0.1	115	0.00
36	T	1,1-Dichloropropene	0.193	0.186	3.6	113	0.01
37	T	Cyclohexane	0.000	0.000	0.0	16#	-0.06
38	T	tert-Amyl methyl ether (TAM	0.740	0.838	-13.2	132	0.01
39	S	1,2-Dichloroethane-d4	0.497	0.462	7.0	107	0.00
40	I	CHLOROBENZENE-D5	1.000	1.000	0.0	117	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKB350.D
Acq On : 15 Nov 2007 12:16 pm
Sample : CVO03K0918 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: CGM
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.581	0.587	-1.0	115	0.00
42	T	1,2-Dichloroethane	0.651	0.616	5.4	109	0.01
43	T	Benzene	1.530	1.459	4.6	112	0.01
44	T	Trichloroethene	0.434	0.428	1.4	114	0.00
45	T	Methylcyclohexane	0.000	0.000	0.0	114	0.00
46	C,T	1,2-Dichloropropane	0.377	0.369	2.1	110	0.00
47	T	Bromodichloromethane	0.645	0.625	3.1	112	0.00
48	T	Dibromomethane	0.290	0.286	1.4	113	0.00
49	T	2-Chloroethyl vinyl ether	0.193	0.171	11.4	102	0.00
50	T	4-Methyl-2-pentanone	0.388	0.357	8.0	108	0.00
51	T	cis-1,3-Dichloropropene	0.568	0.604	-6.3	121	0.00
52	S	Toluene-d8	1.330	1.256	5.6	109	0.01
53	C,T	Toluene	1.666	1.527	8.3	109	0.00
54	T	Ethyl methacrylate	0.459	0.441	3.9	115	0.00
55	T	trans-1,3-Dichloropropene	0.511	0.541	-5.9	120	0.00
56	T	2-Hexanone	0.246	0.227	7.7	106	0.00
57	T	1,1,2-Trichloroethane	0.328	0.319	2.7	114	0.00
58	T	1,3-Dichloropropane	0.590	0.586	0.7	117	0.00
59	T	Tetrachloroethene	0.355	0.340	4.2	115	0.00
60	T	Dibromochloromethane	0.432	0.423	2.1	112	0.01
61	T	1,2-Dibromoethane	0.359	0.354	1.4	114	0.00
62	T	1-Chlorohexane	0.711	0.691	2.8	114	0.01
63	P	Chlorobenzene	1.037	1.005	3.1	115	0.01
64	T	1,1,1,2-Tetrachloroethane	0.390	0.387	0.8	117	0.01
65	C,T	Ethylbenzene	2.083	1.998	4.1	113	0.01
66	T	m-Xylene & p-Xylene	1.624	1.555	4.2	112	0.00
67	T	o-Xylene	1.660	1.558	6.1	111	0.00
68	T	Styrene	1.192	1.168	2.0	116	0.00
69	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	121	0.01
70	T	Isopropylbenzene	4.210	3.792	9.9	111	0.01
71	P,T	Bromoform	0.561	0.517	7.8	113	0.00
72	P,T	1,1,2,2-Tetrachloroethane	0.977	0.875	10.4	109	0.00
73	S	4-Bromofluorobenzene	1.309	1.179	9.9	110	0.00
74	T	1,2,3-Trichloropropane	0.191	0.169	11.5	105	0.01
75	T	trans-1,4-Dichloro-2-butene	0.290	0.271	6.6	115	0.02
76	T	n-Propylbenzene	5.503	5.138	6.6	112	0.01
77	T	Bromobenzene	1.019	0.949	6.9	116	0.01
78	T	1,3,5-Trimethylbenzene	3.434	3.152	8.2	113	0.00
79	T	2-Chlorotoluene	2.592	2.413	6.9	118	0.01
80	T	4-Chlorotoluene	3.210	2.917	9.1	113	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\07K15\RKB350.D
Acq On : 15 Nov 2007 12:16 pm
Sample : CV003K0918 50ppb
Misc : 200ppbKet-AA/50ppb8260/250ppbTBA
MS Integration Params: 524INT.P

Vial: 3
Operator: CGM
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03K09.M (RTE Integrator)
Title : METHOD 8260 5mL
Last Update : Mon Nov 12 10:32:23 2007
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	tert-Butylbenzene	2.930	2.742	6.4	117	0.00
82	T	1,2,4-Trimethylbenzene	3.377	3.096	8.3	113	0.00
83	T	sec-Butylbenzene	4.683	4.355	7.0	113	0.01
84	T	p-Isopropyltoluene	3.623	3.433	5.2	116	0.01
85	T	1,3-Dichlorobenzene	1.819	1.729	4.9	117	0.01
86	T	1,4-Dichlorobenzene	1.807	1.715	5.1	116	0.01
87	T	n-Butylbenzene	3.666	3.513	4.2	111	0.00
88	T	1,2-Dichlorobenzene	1.650	1.557	5.6	115	0.00
89	T	1,2-Dibromo-3-chloropropane	0.191	0.167	12.6	103	0.00
90	T	1,2,4-Trichlorobenzene	1.068	1.067	0.1	113	0.00
91	T	Hexachlorobutadiene	0.679	0.663	2.4	118	0.00
92	T	Naphthalene	1.636	1.598	2.3	105	0.01
93	T	1,2,3-Trichlorobenzene	0.931	0.912	2.0	112	0.00

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11/9/07 ☑ 5-ml Purge ☐ 25-ml Purge Book # A03 -033

BATCH V003K097

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes			
01	RKB190		BFB03K16	2µL	NA	NA	NA	Ket/AA	8260	TBA	14:02
02		191	V003K091	.16/.2/.04µL				8	2	10	ppb
03		192	2	.4/.5/.1µL				20	5	25	
04		193	3	.16/.2/.04µL				8	2	10	
05		194	4	.4/.5/.1µL				20	5	25	
06		195	5	.8/1/.2µL				40	10	50	
07		196	6	1.6/2/.4µL				80	20	100	
08		197	7	4/5/1µL				200	50	250	
09		198	8	6.4/8/1.6µL				320	80	400	
10		199	9	8/10/2µL				400	100	500	
11		200	10	16/20/4µL				800	200	1000	
12		201	11	24/30/6µL				1200	300	1500	
13		202	15/55								
14		203	V003K16B								
15		204	1V003K091	4/5/1µL				200	50	250	
16		205	2	4/5/1µL				200	50	250	23:34
17		206	Rinse								
18											
19											
20											
21											
22											
23											
24								CM 11/10/07			
25											

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	11/9/07
ICAL ID	V003K09

STANDARDS

NAME	ID	CONC. (mg/L)
DCC Ket/AA	SV1-13-11-3	250
DCC 8260	SV1-13-24-3	50/250
DCC Gases	SV1-13-24-2	250
BFB	SV1-13-05-3	50
IS/SURR.	SV1-13-23-2	250
LCS Ket/AA	SV1-13-13-3	250
LCS 8260	SV1-13-25-3	50/250
LCS Gases	SV1-13-25-2	250
SOLVENT 15	SV1.13.22.3 ID	250
METHANOL 55	SV1.13.23.3	250
DATA FILE	07K09	

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO03	

Comments:

Analyzed By: CM

Date Disposed: 11/10/07

Disposed By: CM

ANALYSIS LOG FOR VOLATILES

EMAX LABORATORIES, INC.

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11/15/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A03 -033

BATCH CV003K0918

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKB348	BFB03K31	2µL				11:02
02	349	CV003K0917	4.5/1µL				
03	350	18					
04	351	V003K31L	1.6/1.4µL	1.0			
05	352	C					
06	353	B	5.0g				
07	354	07K033-19R	6.7g	0.75		✓	
08	355	-20R	5.9g	0.85		✓	
09	356	-21R	6.5g	0.77		✓	
10	357	-22R	5.7g	0.88		✓	
11	358	-23R	6.1g	0.82		✓	
12	359	V003K31Q	5.0g	1.0			
13	360	Rinse					
14	361	VPQK0085B	5.0g	1.0			
15	362	VPK0085B					
16	363	07K164-03	3.6g	1.4		✓	
17	364	-04	4.9g	1.0		✓	
18	365	07K172-09	6.2g	0.81		✓	
19	366	Rinse					22:16
20							
21							
22							
23							
24							11/16/08
25							

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	11/9/07
ICAL ID	V003K09

STANDARDS NAME	ID	CONC. (mg/L)
DCC	SV1-13-11-3	
DCC	-24-3	
DCC	-24-2	
BFB	-05-3	50/250
IS/SURR.	-23-2	
LCS	-13-3	
LCS	-25-3	
LCS	-25-2	

SOLVENT	ID
METHANOL	
DATA FILE	07K15

Electronic Data Archival Location	Date
HPCHEM_VOA/TO03	

Comments:

Analyzed By: CM / CGM

Date Disposed: 11/6/07

Disposed By: CGM

2102

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 10/26/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH V067J26

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RJC744		BFB07J68	2mL	1/4	1/4	1/4	
02		745	69					1:40pm
03		746	V067J261	2.5/1.0/1.6mL				2/5/10 ppb 8260
04		747	2	1.5/1.4mL				5/20/25 ppb
05		748	3	1.2/1.0/1.8mL				10/10/50 ppb
06		749	4	1.1/1.2/1.0mL				20/50/100 ppb
07		750	5	1.5/1.4mL				50/200/250 ppb
08		751	6	1.6/1.5/1.4mL				50/200/400 ppb
09		752	7	1.2/1.0/1.4mL				100/400/500 ppb
10		753	8	1.1/1.0/1.6mL				200/800/1000 ppb
11		754	9	1.0/1.0/1.4mL				200/1200/1500 ppb
12		755	15/55	1mL				
13		756	V067J69B	5mL				
14		757	V067J2610	1.5/1.4mL				50/200/250 ppb
15		758	V067J261	1.5/1.4mL				50/200/250 ppb
16		759	2					10:27pm
17		760	RINSE	5mL				
18								
19								
20								
21								
22								
23								
24								
25								MH 10/27/07

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	10/26/07
ICAL ID	V067J26

STANDARDS

NAME	ID	CONC. (mg/L)
DCC 8260	SV1-13-20-1	250 ppb
DCC 8260	↓ -2	50/250
DCC 1ml/4ml	↓ -3	250
BFB	SV1-13-19-3	50
IS/SURR.	SV1-13-16-3	250
LCS 8260	SV1-13-21-1	250
LCS 8260	↓ -2	50/250
LCS 1ml/4ml	↓ -3	250

SOLVENT	ID
METHANOL	15 SV1-13-04-3 55 SV1-13-05-2
DATA FILE	07J26

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: MH / CR

Date Disposed: 10/27/07

Disposed By:

2103

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 11/7/07 ☐ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH V067J26162

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RKC227	BFB67K20	7.2L				1:38pm
02	228	CV067J26161	1/4/5.2L				
03	229	162					
04	230	V067K20L	1/8/6.2L				
05	231	C					
06	232	B	5.0g				
07	233	07J385-03R	6.6g	0.76			
08	234	07K033-05	5.9g	0.85			
09	235	-05M	5.4g	0.93			
10	236	-05S	6.0g	0.83			
11	237	-03	5.6g	0.89			
12	238	-04	4.9g	1.02			
13	239	-06	5.6g	0.89			
14	240	-07	5.8g	0.86			
15	241	-08	5.2g	0.96			
16	242	-09	5.4g	0.93			
17	243	-10	5.3g	0.94			
18	244	-11	5.7g	0.88			
19	245	-12	6.6g	0.76			
20	246	-13	6.4g	0.78			11/8/07 1:29am
21							
22							
23							
24							
25						MH	11/8/07

21091

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	10/26/07
ICAL ID	V067J26
STANDARDS	
NAME	ID / CONC. (mg/L)
DCC	SV1-13-20-1
DCC	-2
DCC	-3
BFB	SV1-13-19-3
IS/SURR.	-16-3 04/200
LCS	SV1-13-21-1
LCS	-2
LCS	-3
SOLVENT	ID
METHANOL	
DATA FILE	07K07
Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: MH / CN

Date Disposed: 11/8/07

Disposed By: MH

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 9/15/07 ☑ 5-ml Purge ☐ 25-ml Purge

Book # A67 -030

BATCH LV067J26175

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RK 100	BFB67K35	2 mL				9:21 am
02	101	CV067J26175	1/115 mL				
03	102	V067K35L	.112/1.6 mL				
04	103	L	↓				
05	104	B	5.0g				
06	105	07K033-23	6.5g	0.77		/	
07	106	-14R	6.8g	0.74		/	
08	107	-15R	6.3g	0.79		/	
09	108	-16R	5.9g	0.85		/	
10	109	-17R	5.1g	0.98		/	
11	110	-18R	↓	↓		/	
12	111	07K060-05R	4.4g	1.14		/	
13	112	07K110-01R	6.0g	0.83		/	
14	113	07K111-01R	5.5g	0.91		/	
15	114	07K112-01R	4.8g	1.04		/	8:26pm
16							
17							
18							
19							
20							
21							
22							
23							
24							
25					MH	11/16/07	

Instrument No.	67
INITIAL CALIBRATION REFERENCE	
DATE	10/26/07
ICAL ID	V067J26

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	SV1-13-20-1	
DCC	-2	
DCC	-3	
BFB	SV1-13-19-3	
IS/SURR.	-16-3	
LCS	SV1-13-21-1	10/210
LCS	-2	
LCS	-3	
SOLVENT	ID	
METHANOL		
DATA FILE	07K15	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO67	

Comments:

Analyzed By: MH /cm

Date Disposed: 11/16/07

Disposed By: MH

2485

EXTRACTION LOGS

PRESERVATION LOG FOR VOLATILES

METHOD [X] 5035 **Book #** E02-018

Matrix: SOIL STARTING DATE 11/7/07 15:00 Ending Date 11/7/07 15:30

Lab Sample ID	W1 (g)	Wf (g)	Ws(g)	D.F.
BLANK	30.0	35.0	5.0	1.00
07K033-03	31.8	37.4	5.6	0.89
07K033-04	32.2	37.1	4.9	1.02
07K033-05	32.0	37.9	5.9	0.85
07K033-05M	31.9	37.3	5.4	0.93
07K033-05S	31.9	37.9	6.0	0.83
07K033-06	31.9	37.5	5.6	0.89
07K033-07	31.8	37.6	5.8	0.86
07K033-08	30.3	35.5	5.2	0.96
07K033-09	30.7	36.1	5.4	0.93
07K033-10	30.5	35.8	5.3	0.94
07K033-11	30.3	36.0	5.7	0.88
07K033-12	30.4	37.0	6.6	0.76
07K033-13	30.5	36.9	6.4	0.78
07K033-14	30.5	36.4	5.9	0.85
07K033-15	30.6	36.6	6.0	0.83
07K033-16	30.7	37.1	6.4	0.78
07K033-17	30.6	36.3	5.7	0.88
07K033-18	30.4	36.8	6.4	0.78
07K033-19	30.7	36.6	5.9	0.85
07K033-20	30.5	36.5	6.0	0.83
07K033-21	30.6	36.2	5.6	0.89
07K033-22	30.5	36.6	6.1	0.82
07K033-23	30.6	37.1	6.5	0.77
NOTHING FOLLOWS				

Standards / Reagents	ID / Lot#	Amount Added (ml)
SURROGATE		
LCS/MS		
REAGENT (WATER)		5.0 ML
NaHS04 H20		
SAND	SW1A-03-331	5.0G

DISPENSER CHECK WITH 5.0 ML

VOLUMETRIC FLASK.

***07K033 ARE PRE-WEIGHED VIALS**

Prepared By: MH / CR

Standard Added By:

Witnessed By:

Checked By: CW

Extract Received By: CW

Extract Location V505

PRESERVATION LOG FOR VOLATILES

METHOD [X] 5035 **Book #** E02-018

Matrix: SOIL STARTING DATE 11/7/07 15:30 Ending Date 11/7/07 16:00

Lab Sample ID	W1 (g)	Wf (g)	Ws(g)	D.F.
BLANK	30.0	35.0	5.0	1.00
07K033-03R	31.6	37.3	5.7	0.88
07K033-04R	32.0	37.1	5.1	0.98
07K033-05R	31.7	37.5	5.8	0.86
07K033-05U	32.0	36.5	4.5	1.11
07K033-05V	31.9	36.1	4.2	1.19
07K033-06R	31.7	37.1	5.4	0.93
07K033-07R	31.9	37.6	5.7	0.88
07K033-08R	30.4	35.4	5.0	1.00
07K033-09R	30.6	36.2	5.6	0.89
07K033-10R	30.4	35.6	5.2	0.96
07K033-11R	30.4	36.2	5.8	0.86
07K033-12R	30.4	36.0	5.6	0.89
07K033-13R	30.5	36.2	5.7	0.88
07K033-14R	30.6	37.4	6.8	0.74
07K033-15R	30.4	36.7	6.3	0.79
07K033-16R	30.6	36.5	5.9	0.85
07K033-17R	30.6	35.7	5.1	0.98
07K033-18R	30.5	35.6	5.1	0.98
07K033-19R	30.2	36.9	6.7	0.75
07K033-20R	30.6	36.5	5.9	0.85
07K033-21R	30.3	36.8	6.5	0.77
07K033-22R	30.6	36.3	5.7	0.88
07K033-23R	30.6	36.7	6.1	0.82
NOTHING FOLLOWS				

Standards / Reagents	ID / Lot#	Amount Added (ml)
SURROGATE		
LCS/MS		
REAGENT (WATER)		5.0 ML
NaHS04 H20		
SAND	SW1A-03-331	5.0G

DISPENSER CHECK WITH 5.0 ML

VOLUMETRIC FLASK.

***07K033R ARE PRE-WEIGHED VIALS**

Prepared By: MH / CR

Standard Added By:

Witnessed By:

Checked By: cr

Extract Received By: cr

Extract Location VS05

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METALS / MERCURY

SDG#: 07K033

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07K033

METHOD 3010A/3050B/6010B
METALS BY ICP

One (1) water and twenty-one (21) soil samples were received on 11/02/07 for Metals analysis by Method 3010A/3050B/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Serial Dilution/Post-Analytical Spike**

   Samples K033-05, -23 and sample K038-01 from another SDG were analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. **Matrix Spike/Matrix Spike Duplicate**

   Sample K033-05 was spiked. All recoveries were within QC limit except one recovery in MS and two recoveries in MSD were out the limit.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception.

LAB CHRONICLE
METALS BY ICP

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07K033
Instrument ID : T-ID8

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	IPK028SB	1	NA	11/16/0719:35	11/14/0711:30	ID8K014029	ID8K014027	IPK028S	Method Blank
LCS1S	IPK028SL	1	NA	11/16/0719:40	11/14/0711:30	ID8K014030	ID8K014027	IPK028S	Lab Control Sample (LCS)
LCD1S	IPK028SC	1	NA	11/16/0719:46	11/14/0711:30	ID8K014031	ID8K014027	IPK028S	LCS Duplicate
SB3-10MS	K033-05M	1	5.6	11/16/0719:51	11/14/0711:30	ID8K014032	ID8K014027	IPK028S	Matrix Spike Sample (MS)
SB3-10MSD	K033-05S	1	5.6	11/16/0719:56	11/14/0711:30	ID8K014033	ID8K014027	IPK028S	MS Duplicate (MSD)
SB3-10AS	K033-05A	1	5.6	11/16/0720:02	11/14/0711:30	ID8K014034	ID8K014027	IPK028S	Analytical Spike Sample
SB3-10	K033-05	1	5.6	11/16/0720:07	11/14/0711:30	ID8K014035	ID8K014027	IPK028S	Field Sample
SB3-10DL	K033-05J	5	5.6	11/16/0720:13	11/14/0711:30	ID8K014036	ID8K014027	IPK028S	Diluted Sample
SB3-0.5'	K033-03	1	5.0	11/16/0720:18	11/14/0711:30	ID8K014037	ID8K014027	IPK028S	Field Sample
SB3-5	K033-04	1	3.9	11/16/0720:40	11/14/0711:30	ID8K014041	ID8K014039	IPK028S	Field Sample
SB3-15	K033-06	1	4.6	11/16/0720:46	11/14/0711:30	ID8K014042	ID8K014039	IPK028S	Field Sample
SB3-20	K033-07	1	9.0	11/16/0720:51	11/14/0711:30	ID8K014043	ID8K014039	IPK028S	Field Sample
SB3-20'DUP	K033-08	1	9.5	11/16/0720:57	11/14/0711:30	ID8K014044	ID8K014039	IPK028S	Field Sample
SB3-25	K033-09	1	5.6	11/16/0721:02	11/14/0711:30	ID8K014045	ID8K014039	IPK028S	Field Sample
SB3-25DUP	K033-10	1	5.6	11/16/0721:08	11/14/0711:30	ID8K014046	ID8K014039	IPK028S	Field Sample
SB3-30	K033-11	1	5.3	11/16/0721:13	11/14/0711:30	ID8K014047	ID8K014039	IPK028S	Field Sample
SB3-35	K033-12	1	7.2	11/16/0721:19	11/14/0711:30	ID8K014048	ID8K014039	IPK028S	Field Sample
SB3-40	K033-13	1	8.3	11/16/0721:24	11/14/0711:30	ID8K014049	ID8K014039	IPK028S	Field Sample
SB3-45	K033-14	1	9.7	11/16/0721:46	11/14/0711:30	ID8K014053	ID8K014051	IPK028S	Field Sample
SB3-50	K033-15	1	5.9	11/16/0721:52	11/14/0711:30	ID8K014054	ID8K014051	IPK028S	Field Sample
SB3-55	K033-16	1	8.6	11/16/0721:57	11/14/0711:30	ID8K014055	ID8K014051	IPK028S	Field Sample
SB3-60	K033-17	1	7.8	11/16/0722:03	11/14/0711:30	ID8K014056	ID8K014051	IPK028S	Field Sample
SB3-65	K033-18	1	8.4	11/16/0722:08	11/14/0711:30	ID8K014057	ID8K014051	IPK028S	Field Sample
SB3-70	K033-19	1	9.8	11/16/0722:14	11/14/0711:30	ID8K014058	ID8K014051	IPK028S	Field Sample
SB3-75	K033-20	1	10.6	11/16/0722:19	11/14/0711:30	ID8K014059	ID8K014051	IPK028S	Field Sample
SB3-80	K033-21	1	8.3	11/16/0722:25	11/14/0711:30	ID8K014060	ID8K014051	IPK028S	Field Sample
SB3-85	K033-22	1	9.7	11/16/0722:30	11/14/0711:30	ID8K014061	ID8K014051	IPK028S	Field Sample
MBLK2S	IPK029SB	1	NA	11/16/0722:52	11/14/0710:20	ID8K014065	ID8K014063	IPK029S	Method Blank
LCS2S	IPK029SL	1	NA	11/16/0722:58	11/14/0710:20	ID8K014066	ID8K014063	IPK029S	Lab Control Sample (LCS)
LCD2S	IPK029SC	1	NA	11/16/0723:03	11/14/0710:20	ID8K014067	ID8K014063	IPK029S	LCS Duplicate
SB3-90AS	K033-23A	1	11.3	11/16/0723:08	11/14/0710:20	ID8K014068	ID8K014063	IPK029S	Analytical Spike Sample
SB3-90	K033-23	1	11.3	11/16/0723:14	11/14/0710:20	ID8K014069	ID8K014063	IPK029S	Field Sample
SB3-90DL	K033-23J	5	11.3	11/16/0723:19	11/14/0710:20	ID8K014070	ID8K014063	IPK029S	Diluted Sample

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPK014WB	1	NA	11/20/0712:25	11/07/0716:15	ID8K017012	ID8K017009	IPK014W	Method Blank
LCS1W	IPK014WL	1	NA	11/20/0712:31	11/07/0716:15	ID8K017013	ID8K017009	IPK014W	Lab Control Sample (LCS)
LCD1W	IPK014WC	1	NA	11/20/0712:36	11/07/0716:15	ID8K017014	ID8K017009	IPK014W	LCS Duplicate
LAS PULGAS LEACHATEAS	K038-01A	1	NA	11/20/0712:41	11/07/0716:15	ID8K017015	ID8K017009	IPK014W	Analytical Spike Sample
LAS PULGAS LEACHATE	K038-01	1	NA	11/20/0712:47	11/07/0716:15	ID8K017016	ID8K017009	IPK014W	Field Sample
LAS PULGAS LEACHATEDL	K038-01J	5	NA	11/20/0712:52	11/07/0716:15	ID8K017017	ID8K017009	IPK014W	Diluted Sample
LEB-110107	K033-02	1	NA	11/20/0712:58	11/07/0716:15	ID8K017018	ID8K017009	IPK014W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/07/07 16:15
Sample ID:	LEB-110107	Date Analyzed:	11/20/07 12:58
Lab Samp ID:	K033-02	Dilution Factor:	1
Lab File ID:	ID8K017018	Matrix :	WATER
Ext Btch ID:	IPK014W	% Moisture :	NA
Calib. Ref.:	ID8K017009	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 10:10
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-0.5'	Date Analyzed:	11/16/07 20:18
Lab Samp ID:	K033-03	Dilution Factor:	1
Lab File ID:	ID8K014037	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	5.0
Calib. Ref.:	ID8K014027	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.5	2.11
Arsenic	2.35	1.05	0.421
Barium	139	1.05	0.211
Beryllium	0.581J	1.05	0.211
Cadmium	ND	1.05	0.526
Chromium	20.2	2.11	1.05
Cobalt	10.6	2.11	1.05
Copper	21.5	2.11	0.526
Lead	5.38	1.05	0.211
Molybdenum	ND	5.26	0.526
Nickel	17.3	2.11	1.05
Selenium	0.801J	1.05	0.526
Silver	ND	2.11	0.526
Thallium	0.818J	1.05	0.526
Vanadium	43.7	2.11	0.526
Zinc	51.4	1.05	0.526

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 10:12
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-5	Date Analyzed:	11/16/07 20:40
Lab Samp ID:	K033-04	Dilution Factor:	1
Lab File ID:	ID8K014041	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	3.9
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.4	2.08
Arsenic	2.45	1.04	0.416
Barium	133	1.04	0.208
Beryllium	0.583J	1.04	0.208
Cadmium	ND	1.04	0.520
Chromium	20.1	2.08	1.04
Cobalt	11.0	2.08	1.04
Copper	22.5	2.08	0.520
Lead	5.81	1.04	0.208
Molybdenum	ND	5.20	0.520
Nickel	18.2	2.08	1.04
Selenium	0.977J	1.04	0.520
Silver	ND	2.08	0.520
Thallium	0.884J	1.04	0.520
Vanadium	44.8	2.08	0.520
Zinc	54.5	1.04	0.520

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 10:25
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-10	Date Analyzed:	11/16/07 20:07
Lab Samp ID:	K033-05	Dilution Factor:	1
Lab File ID:	ID8K014035	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	5.6
Calib. Ref.:	ID8K014027	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	2.12
Arsenic	2.63	1.06	0.424
Barium	148	1.06	0.212
Beryllium	0.565J	1.06	0.212
Cadmium	ND	1.06	0.530
Chromium	20.8	2.12	1.06
Cobalt	10.7	2.12	1.06
Copper	21.8	2.12	0.530
Lead	5.95	1.06	0.212
Molybdenum	ND	5.30	0.530
Nickel	17.4	2.12	1.06
Selenium	0.834J	1.06	0.530
Silver	ND	2.12	0.530
Thallium	0.775J	1.06	0.530
Vanadium	45.7	2.12	0.530
Zinc	52.2	1.06	0.530

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 10:38
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-15	Date Analyzed:	11/16/07 20:46
Lab Samp ID:	K033-06	Dilution Factor:	1
Lab File ID:	ID8K014042	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	4.6
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.5	2.10
Arsenic	2.25	1.05	0.419
Barium	134	1.05	0.210
Beryllium	0.535J	1.05	0.210
Cadmium	0.540J	1.05	0.524
Chromium	20.9	2.10	1.05
Cobalt	9.82	2.10	1.05
Copper	22.7	2.10	0.524
Lead	5.10	1.05	0.210
Molybdenum	ND	5.24	0.524
Nickel	16.8	2.10	1.05
Selenium	1.06	1.05	0.524
Silver	ND	2.10	0.524
Thallium	0.650J	1.05	0.524
Vanadium	40.0	2.10	0.524
Zinc	53.7	1.05	0.524

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 11:18
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-20	Date Analyzed:	11/16/07 20:51
Lab Samp ID:	K033-07	Dilution Factor:	1
Lab File ID:	ID8K014043	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	9.0
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.20
Arsenic	5.52	1.10	0.440
Barium	243	1.10	0.220
Beryllium	0.892J	1.10	0.220
Cadmium	0.946J	1.10	0.549
Chromium	42.5	2.20	1.10
Cobalt	18.7	2.20	1.10
Copper	39.0	2.20	0.549
Lead	8.74	1.10	0.220
Molybdenum	ND	5.49	0.549
Nickel	30.1	2.20	1.10
Selenium	1.80	1.10	0.549
Silver	ND	2.20	0.549
Thallium	1.10J	1.10	0.549
Vanadium	75.2	2.20	0.549
Zinc	77.5	1.10	0.549

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 11:28
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-20'DUP	Date Analyzed:	11/16/07 20:57
Lab Samp ID:	K033-08	Dilution Factor:	1
Lab File ID:	ID8K014044	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	9.5
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.0	2.21
Arsenic	8.76	1.10	0.442
Barium	209	1.10	0.221
Beryllium	0.874J	1.10	0.221
Cadmium	0.924J	1.10	0.552
Chromium	43.6	2.21	1.10
Cobalt	20.5	2.21	1.10
Copper	39.3	2.21	0.552
Lead	8.17	1.10	0.221
Molybdenum	ND	5.52	0.552
Nickel	32.8	2.21	1.10
Selenium	1.79	1.10	0.552
Silver	ND	2.21	0.552
Thallium	0.786J	1.10	0.552
Vanadium	83.9	2.21	0.552
Zinc	81.4	1.10	0.552

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 11:30
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-25	Date Analyzed:	11/16/07 21:02
Lab Samp ID:	K033-09	Dilution Factor:	1
Lab File ID:	ID8K014045	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	5.6
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	2.12
Arsenic	3.40	1.06	0.424
Barium	192	1.06	0.212
Beryllium	0.397J	1.06	0.212
Cadmium	ND	1.06	0.530
Chromium	30.8	2.12	1.06
Cobalt	9.26	2.12	1.06
Copper	18.1	2.12	0.530
Lead	3.81	1.06	0.212
Molybdenum	ND	5.30	0.530
Nickel	15.6	2.12	1.06
Selenium	0.644J	1.06	0.530
Silver	ND	2.12	0.530
Thallium	0.583J	1.06	0.530
Vanadium	61.2	2.12	0.530
Zinc	42.4	1.06	0.530

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 11:31
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-25DUP	Date Analyzed:	11/16/07 21:08
Lab Samp ID:	K033-10	Dilution Factor:	1
Lab File ID:	ID8K014046	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	5.6
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	2.12
Arsenic	5.88	1.06	0.424
Barium	161	1.06	0.212
Beryllium	0.442J	1.06	0.212
Cadmium	0.622J	1.06	0.530
Chromium	31.8	2.12	1.06
Cobalt	10.4	2.12	1.06
Copper	19.3	2.12	0.530
Lead	4.44	1.06	0.212
Molybdenum	ND	5.30	0.530
Nickel	17.1	2.12	1.06
Selenium	0.702J	1.06	0.530
Silver	ND	2.12	0.530
Thallium	0.589J	1.06	0.530
Vanadium	65.8	2.12	0.530
Zinc	45.3	1.06	0.530

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 11:32
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-30	Date Analyzed:	11/16/07 21:13
Lab Samp ID:	K033-11	Dilution Factor:	1
Lab File ID:	ID8K014047	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	5.3
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	2.11
Arsenic	3.98	1.06	0.422
Barium	145	1.06	0.211
Beryllium	0.411J	1.06	0.211
Cadmium	0.586J	1.06	0.528
Chromium	25.7	2.11	1.06
Cobalt	9.16	2.11	1.06
Copper	19.0	2.11	0.528
Lead	4.32	1.06	0.211
Molybdenum	1.00J	5.28	0.528
Nickel	16.1	2.11	1.06
Selenium	0.690J	1.06	0.528
Silver	ND	2.11	0.528
Thallium	0.633J	1.06	0.528
Vanadium	45.6	2.11	0.528
Zinc	45.4	1.06	0.528

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 11:55
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-35	Date Analyzed:	11/16/07 21:19
Lab Samp ID:	K033-12	Dilution Factor:	1
Lab File ID:	ID8K014048	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	7.2
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.8	2.16
Arsenic	7.16	1.08	0.431
Barium	106	1.08	0.216
Beryllium	0.583J	1.08	0.216
Cadmium	0.614J	1.08	0.539
Chromium	37.9	2.16	1.08
Cobalt	13.2	2.16	1.08
Copper	27.3	2.16	0.539
Lead	4.59	1.08	0.216
Molybdenum	ND	5.39	0.539
Nickel	22.4	2.16	1.08
Selenium	1.40	1.08	0.539
Silver	ND	2.16	0.539
Thallium	0.782J	1.08	0.539
Vanadium	58.2	2.16	0.539
Zinc	68.3	1.08	0.539

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 12:06
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-40	Date Analyzed:	11/16/07 21:24
Lab Samp ID:	K033-13	Dilution Factor:	1
Lab File ID:	ID8K014049	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	8.3
Calib. Ref.:	ID8K014039	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	3.13	1.09	0.436
Barium	143	1.09	0.218
Beryllium	0.513J	1.09	0.218
Cadmium	0.706J	1.09	0.545
Chromium	22.1	2.18	1.09
Cobalt	7.74	2.18	1.09
Copper	14.1	2.18	0.545
Lead	4.48	1.09	0.218
Molybdenum	ND	5.45	0.545
Nickel	10.4	2.18	1.09
Selenium	0.578J	1.09	0.545
Silver	ND	2.18	0.545
Thallium	0.616J	1.09	0.545
Vanadium	37.3	2.18	0.545
Zinc	61.4	1.09	0.545

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 12:12
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-45	Date Analyzed:	11/16/07 21:46
Lab Samp ID:	K033-14	Dilution Factor:	1
Lab File ID:	ID8K014053	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	9.7
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	2.21
Arsenic	12.5	1.11	0.443
Barium	101	1.11	0.221
Beryllium	1.02J	1.11	0.221
Cadmium	1.03J	1.11	0.554
Chromium	54.3	2.21	1.11
Cobalt	23.0	2.21	1.11
Copper	49.5	2.21	0.554
Lead	11.6	1.11	0.221
Molybdenum	ND	5.54	0.554
Nickel	37.5	2.21	1.11
Selenium	1.84	1.11	0.554
Silver	ND	2.21	0.554
Thallium	1.02J	1.11	0.554
Vanadium	96.4	2.21	0.554
Zinc	98.7	1.11	0.554

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 12:30
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-50	Date Analyzed:	11/16/07 21:52
Lab Samp ID:	K033-15	Dilution Factor:	1
Lab File ID:	ID8K014054	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	5.9
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.6	2.13
Arsenic	2.64	1.06	0.425
Barium	88.7	1.06	0.213
Beryllium	0.405J	1.06	0.213
Cadmium	0.620J	1.06	0.531
Chromium	19.2	2.13	1.06
Cobalt	7.98	2.13	1.06
Copper	13.6	2.13	0.531
Lead	4.38	1.06	0.213
Molybdenum	ND	5.31	0.531
Nickel	12.4	2.13	1.06
Selenium	ND	1.06	0.531
Silver	ND	2.13	0.531
Thallium	ND	1.06	0.531
Vanadium	32.3	2.13	0.531
Zinc	34.1	1.06	0.531

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 12:37
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-55	Date Analyzed:	11/16/07 21:57
Lab Samp ID:	K033-16	Dilution Factor:	1
Lab File ID:	ID8K014055	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	8.6
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.19
Arsenic	6.88	1.09	0.438
Barium	126	1.09	0.219
Beryllium	0.822J	1.09	0.219
Cadmium	0.752J	1.09	0.547
Chromium	42.6	2.19	1.09
Cobalt	15.5	2.19	1.09
Copper	34.1	2.19	0.547
Lead	8.81	1.09	0.219
Molybdenum	ND	5.47	0.547
Nickel	25.9	2.19	1.09
Selenium	1.50	1.09	0.547
Silver	ND	2.19	0.547
Thallium	0.991J	1.09	0.547
Vanadium	74.9	2.19	0.547
Zinc	80.5	1.09	0.547

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 12:59
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-60	Date Analyzed:	11/16/07 22:03
Lab Samp ID:	K033-17	Dilution Factor:	1
Lab File ID:	ID8K014056	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	7.8
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.8	2.17
Arsenic	4.78	1.08	0.434
Barium	74.7	1.08	0.217
Beryllium	0.520J	1.08	0.217
Cadmium	ND	1.08	0.542
Chromium	19.5	2.17	1.08
Cobalt	7.97	2.17	1.08
Copper	16.3	2.17	0.542
Lead	4.87	1.08	0.217
Molybdenum	ND	5.42	0.542
Nickel	13.8	2.17	1.08
Selenium	0.874J	1.08	0.542
Silver	ND	2.17	0.542
Thallium	0.572J	1.08	0.542
Vanadium	32.9	2.17	0.542
Zinc	43.9	1.08	0.542

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 13:21
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-65	Date Analyzed:	11/16/07 22:08
Lab Samp ID:	K033-18	Dilution Factor:	1
Lab File ID:	ID8K014057	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	8.4
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	2.26	1.09	0.437
Barium	73.5	1.09	0.218
Beryllium	0.397J	1.09	0.218
Cadmium	ND	1.09	0.546
Chromium	13.3	2.18	1.09
Cobalt	6.20	2.18	1.09
Copper	13.6	2.18	0.546
Lead	3.10	1.09	0.218
Molybdenum	ND	5.46	0.546
Nickel	12.0	2.18	1.09
Selenium	0.614J	1.09	0.546
Silver	ND	2.18	0.546
Thallium	0.550J	1.09	0.546
Vanadium	26.4	2.18	0.546
Zinc	40.7	1.09	0.546

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 13:38
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-70	Date Analyzed:	11/16/07 22:14
Lab Samp ID:	K033-19	Dilution Factor:	1
Lab File ID:	ID8K014058	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	9.8
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	2.22
Arsenic	5.29	1.11	0.443
Barium	140	1.11	0.222
Beryllium	0.797J	1.11	0.222
Cadmium	ND	1.11	0.554
Chromium	20.2	2.22	1.11
Cobalt	11.8	2.22	1.11
Copper	24.9	2.22	0.554
Lead	9.10	1.11	0.222
Molybdenum	ND	5.54	0.554
Nickel	22.9	2.22	1.11
Selenium	1.19	1.11	0.554
Silver	ND	2.22	0.554
Thallium	0.887J	1.11	0.554
Vanadium	44.8	2.22	0.554
Zinc	71.0	1.11	0.554

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 14:00
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-75	Date Analyzed:	11/16/07 22:19
Lab Samp ID:	K033-20	Dilution Factor:	1
Lab File ID:	ID8K014059	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	10.6
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.2	2.24
Arsenic	4.54	1.12	0.447
Barium	141	1.12	0.224
Beryllium	0.800J	1.12	0.224
Cadmium	0.632J	1.12	0.559
Chromium	22.7	2.24	1.12
Cobalt	13.0	2.24	1.12
Copper	26.7	2.24	0.559
Lead	13.4	1.12	0.224
Molybdenum	ND	5.59	0.559
Nickel	24.8	2.24	1.12
Selenium	1.02J	1.12	0.559
Silver	ND	2.24	0.559
Thallium	0.917J	1.12	0.559
Vanadium	48.5	2.24	0.559
Zinc	81.0	1.12	0.559

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 15:18
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-80	Date Analyzed:	11/16/07 22:25
Lab Samp ID:	K033-21	Dilution Factor:	1
Lab File ID:	ID8K014060	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	8.3
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.9	2.18
Arsenic	2.10	1.09	0.436
Barium	110	1.09	0.218
Beryllium	0.626J	1.09	0.218
Cadmium	ND	1.09	0.545
Chromium	20.0	2.18	1.09
Cobalt	11.1	2.18	1.09
Copper	23.1	2.18	0.545
Lead	6.68	1.09	0.218
Molybdenum	ND	5.45	0.545
Nickel	19.0	2.18	1.09
Selenium	1.08J	1.09	0.545
Silver	ND	2.18	0.545
Thallium	0.709J	1.09	0.545
Vanadium	41.4	2.18	0.545
Zinc	56.9	1.09	0.545

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 15:42
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	SB3-85	Date Analyzed:	11/16/07 22:30
Lab Samp ID:	K033-22	Dilution Factor:	1
Lab File ID:	ID8K014061	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	9.7
Calib. Ref.:	ID8K014051	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.1	2.21
Arsenic	5.27	1.11	0.443
Barium	92.8	1.11	0.221
Beryllium	0.545J	1.11	0.221
Cadmium	ND	1.11	0.554
Chromium	46.7	2.21	1.11
Cobalt	8.52	2.21	1.11
Copper	16.6	2.21	0.554
Lead	4.71	1.11	0.221
Molybdenum	ND	5.54	0.554
Nickel	16.0	2.21	1.11
Selenium	0.788J	1.11	0.554
Silver	ND	2.21	0.554
Thallium	0.795J	1.11	0.554
Vanadium	44.3	2.21	0.554
Zinc	51.1	1.11	0.554

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	11/01/07 16:20
Project	: LMC BEAUMONT SITE 2	Date Received:	11/02/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 10:20
Sample ID:	SB3-90	Date Analyzed:	11/16/07 23:14
Lab Samp ID:	K033-23	Dilution Factor:	1
Lab File ID:	ID8K014069	Matrix :	SOIL
Ext Btch ID:	IPK029S	% Moisture :	11.3
Calib. Ref.:	ID8K014063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	11.3	2.25
Arsenic	0.770J	1.13	0.451
Barium	31.0	1.13	0.225
Beryllium	0.230J	1.13	0.225
Cadmium	ND	1.13	0.564
Chromium	8.49	2.25	1.13
Cobalt	2.85	2.25	1.13
Copper	5.60	2.25	0.564
Lead	2.15	1.13	0.225
Molybdenum	ND	5.64	0.564
Nickel	5.12	2.25	1.13
Selenium	0.567J	1.13	0.564
Silver	ND	2.25	0.564
Thallium	ND	1.13	0.564
Vanadium	17.9	2.25	0.564
Zinc	21.4	1.13	0.564

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/07/07
SDG NO.	: 07K033	Date Extracted:	11/07/07 16:15
Sample ID:	MBLK1W	Date Analyzed:	11/20/07 12:25
Lab Samp ID:	IPK014WB	Dilution Factor:	1
Lab File ID:	ID8K017012	Matrix :	WATER
Ext Btch ID:	IPK014W	% Moisture :	NA
Calib. Ref.:	ID8K017009	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	0.00753J	0.0100	0.00500

Revised Report
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EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPK014WB	IPK014WL	IPK014WC		
LAB FILE ID:	ID8K017012	ID8K017013	ID8K017014		
DATIME EXTRCTD:	11/07/0716:15	11/07/0716:15	11/07/0716:15	DATE COLLECTED:	NA
DATIME ANALYZD:	11/20/0712:25	11/20/0712:31	11/20/0712:36	DATE RECEIVED:	11/07/07
PREP. BATCH:	IPK014W	IPK014W	IPK014W		
CALIB. REF:	ID8K017009	ID8K017009	ID8K017009		

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	4.9	98	5	4.9	98	0	80-120	20
Arsenic	ND	1	.971	97	1	.984	98	1	80-120	20
Barium	ND	1	.979	98	1	.984	98	1	80-120	20
Beryllium	ND	1	1.02	102	1	1.02	102	0	80-120	20
Cadmium	ND	1	1	100	1	1	100	0	80-120	20
Chromium	ND	1	.986	99	1	.985	98	0	80-120	20
Cobalt	ND	1	.998	100	1	.999	100	0	80-120	20
Copper	ND	1	.961	96	1	.956	96	1	80-120	20
Lead	ND	1	.971	97	1	.969	97	0	80-120	20
Molybdenum	ND	1	1.04	104	1	1.03	103	0	80-120	20
Nickel	ND	1	.996	100	1	.996	100	0	80-120	20
Selenium	ND	1	.942	94	1	.959	96	2	80-120	20
Silver^	ND	1	.944	94	1	.941	94	0	80-120	20
Thallium	ND	1	.935	94	1	.943	94	1	80-120	20
Vanadium	ND	1	1.03	103	1	1.04	104	1	80-120	20
Zinc	.00753J	1	1.02	101	1	1.01	100	1	80-120	20

^: Analyzed at DF 1 on 11/17/07 22:33/22:39 | File ID8K015070/71.

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METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/14/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 11:30
Sample ID:	MBLK1S	Date Analyzed:	11/16/07 19:35
Lab Samp ID:	IPK028SB	Dilution Factor:	1
Lab File ID:	ID8K014029	Matrix :	SOIL
Ext Btch ID:	IPK028S	% Moisture :	NA
Calib. Ref.:	ID8K014027	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	2.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.500
Chromium	ND	2.00	1.00
Cobalt	ND	2.00	1.00
Copper	ND	2.00	0.500
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	2.00	1.00
Selenium	ND	1.00	0.500
Silver	ND	2.00	0.500
Thallium	ND	1.00	0.500
Vanadium	ND	2.00	0.500
Zinc	ND	1.00	0.500

METHOD 3050B/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	11/14/07
SDG NO.	: 07K033	Date Extracted:	11/14/07 10:20
Sample ID:	MBLK2S	Date Analyzed:	11/16/07 22:52
Lab Samp ID:	IPK029SB	Dilution Factor:	1
Lab File ID:	ID8K014065	Matrix :	SOIL
Ext Btch ID:	IPK029S	% Moisture :	NA
Calib. Ref.:	ID8K014063	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Antimony	ND	10.0	2.00
Arsenic	ND	1.00	0.400
Barium	ND	1.00	0.200
Beryllium	ND	1.00	0.200
Cadmium	ND	1.00	0.500
Chromium	ND	2.00	1.00
Cobalt	ND	2.00	1.00
Copper	ND	2.00	0.500
Lead	ND	1.00	0.200
Molybdenum	ND	5.00	0.500
Nickel	ND	2.00	1.00
Selenium	ND	1.00	0.500
Silver	ND	2.00	0.500
Thallium	ND	1.00	0.500
Vanadium	ND	2.00	0.500
Zinc	ND	1.00	0.500

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	IPK028SB	IPK028SL	IPK028SC		
LAB FILE ID:	ID8K014029	ID8K014030	ID8K014031		
DATIME EXTRCTD:	11/14/0711:30	11/14/0711:30	11/14/0711:30	DATE COLLECTED:	NA
DATIME ANALYZD:	11/16/0719:35	11/16/0719:40	11/16/0719:46	DATE RECEIVED:	11/14/07
PREP. BATCH:	IPK028S	IPK028S	IPK028S		
CALIB. REF:	ID8K014027	ID8K014027	ID8K014027		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	500	513	103	500	494	99	4	80-120	20
Arsenic	ND	100	101	101	100	97.8	98	3	80-120	20
Barium	ND	100	100	100	100	97.7	98	2	80-120	20
Beryllium	ND	100	106	106	100	103	103	3	80-120	20
Cadmium	ND	100	105	105	100	102	102	3	80-120	20
Chromium	ND	100	100	100	100	95.7	96	5	80-120	20
Cobalt	ND	100	104	104	100	101	101	3	80-120	20
Copper	ND	100	100	100	100	97.1	97	3	80-120	20
Lead	ND	100	103	103	100	99.9	100	3	80-120	20
Molybdenum	ND	100	109	109	100	106	106	3	80-120	20
Nickel	ND	100	104	104	100	101	101	3	80-120	20
Selenium	ND	100	98.5	99	100	95.5	96	3	80-120	20
Silver	ND	100	101	101	100	95.8	96	5	80-120	20
Thallium	ND	100	100	100	100	97.2	97	3	80-120	20
Vanadium	ND	100	103	103	100	99	99	4	80-120	20
Zinc	ND	100	108	108	100	104	104	3	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	IPK029SB	IPK029SL	IPK029SC		
LAB FILE ID:	ID8K014065	ID8K014066	ID8K014067		
DATIME EXTRCTD:	11/14/0710:20	11/14/0710:20	11/14/0710:20	DATE COLLECTED:	NA
DATIME ANALYZD:	11/16/0722:52	11/16/0722:58	11/16/0723:03	DATE RECEIVED:	11/14/07
PREP. BATCH:	IPK029S	IPK029S	IPK029S		
CALIB. REF:	ID8K014063	ID8K014063	ID8K014063		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	500	503	101	500	501	100	0	80-120	20
Arsenic	ND	100	99.6	100	100	98.9	99	1	80-120	20
Barium	ND	100	101	101	100	99.9	100	1	80-120	20
Beryllium	ND	100	103	103	100	103	103	1	80-120	20
Cadmium	ND	100	105	105	100	103	103	1	80-120	20
Chromium	ND	100	98.2	98	100	98.3	98	0	80-120	20
Cobalt	ND	100	104	104	100	103	103	1	80-120	20
Copper	ND	100	103	103	100	102	102	1	80-120	20
Lead	ND	100	102	102	100	101	101	1	80-120	20
Molybdenum	ND	100	109	109	100	107	107	2	80-120	20
Nickel	ND	100	103	103	100	102	102	1	80-120	20
Selenium	ND	100	96.8	97	100	96.6	97	0	80-120	20
Silver	ND	100	97.2	97	100	97.7	98	0	80-120	20
Thallium	ND	100	99.8	100	100	98.8	99	1	80-120	20
Vanadium	ND	100	101	101	100	101	101	0	80-120	20
Zinc	ND	100	107	107	100	106	106	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL			% MOISTURE:	5.6
DILTN FACTR:	1	1	1		
SAMPLE ID:	SB3-10				
CONTROL NO.:	K033-05	K033-05M	K033-05S		
LAB FILE ID:	ID8K014035	ID8K014032	ID8K014033		
DATIME EXTRCTD:	11/14/0711:30	11/14/0711:30	11/14/0711:30	DATE COLLECTED:	11/01/07 10:25
DATIME ANALYZD:	11/16/0720:07	11/16/0719:51	11/16/0719:56	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK028S	IPK028S	IPK028S		
CALIB. REF:	ID8K014027	ID8K014027	ID8K014027		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	530	147	28*	530	136	26*	8	75-125	20
Arsenic	2.63	106	96.1	88	106	93.2	86	3	75-125	20
Barium	148	106	230	78	106	226	74*	2	75-125	20
Beryllium	.565J	106	97.7	92	106	93.5	88	4	75-125	20
Cadmium	ND	106	97	92	106	92.7	88	4	75-125	20
Chromium	20.8	106	109	83	106	107	81	2	75-125	20
Cobalt	10.7	106	106	90	106	102	86	4	75-125	20
Copper	21.8	106	113	86	106	109	82	3	75-125	20
Lead	5.95	106	98.5	87	106	94.5	84	4	75-125	20
Molybdenum	ND	106	98.1	93	106	93.3	88	5	75-125	20
Nickel	17.4	106	112	89	106	108	85	3	75-125	20
Selenium	.834J	106	90.9	85	106	88.6	83	3	75-125	20
Silver	ND	106	94.2	89	106	92.4	87	2	75-125	20
Thallium	.775J	106	89.3	84	106	85.2	80	5	75-125	20
Vanadium	45.7	106	135	84	106	133	83	1	75-125	20
Zinc	52.2	106	150	92	106	146	89	2	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	LAS PULGAS LEACHATE	LAS PULGAS LEACHATE		
EMAX SAMP ID:	K038-01	K038-01J		
LAB FILE ID:	ID8K017016	ID8K017017		
DATE EXTRACTED:	11/07/0716:15	11/07/0716:15	DATE COLLECTED:	11/02/07
DATE ANALYZED:	11/20/0712:47	11/20/0712:52	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK014W	IPK014W		
CALIB. REF:	ID8K017009	ID8K017009		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	ND	ND	0	10
Barium	0.213	0.211	1	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	ND	ND	0	10
Cobalt	ND	ND	0	10
Copper	ND	ND	0	10
Lead	ND	ND	0	10
Molybdenum	ND	ND	0	10
Nickel	0.0147J	ND	NA	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	ND	ND	0	10
Zinc	ND	ND	0	10

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EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	5.6
DILUTION FACTOR:	1	5		
SAMPLE ID:	SB3-10	SB3-10DL		
EMAX SAMP ID:	K033-05	K033-05J		
LAB FILE ID:	ID8K014035	ID8K014036		
DATE EXTRACTED:	11/14/0711:30	11/14/0711:30	DATE COLLECTED:	11/01/07 10:25
DATE ANALYZED:	11/16/0720:07	11/16/0720:13	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK028S	IPK028S		
CALIB. REF:	ID8K014027	ID8K014027		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	2.63	3.24J	NA	10
Barium	148	145	2	10
Beryllium	0.565J	ND	NA	10
Cadmium	ND	ND	0	10
Chromium	20.8	20.7	1	10
Cobalt	10.7	10.5J	NA	10
Copper	21.8	21.9	0	10
Lead	5.95	5.83	2	10
Molybdenum	ND	ND	0	10
Nickel	17.4	17.1	1	10
Selenium	0.834J	ND	NA	10
Silver	ND	ND	0	10
Thallium	0.775J	ND	NA	10
Vanadium	45.7	44.3	3	10
Zinc	52.2	52.2	0	10

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	11.3
DILUTION FACTOR:	1	5		
SAMPLE ID:	SB3-90	SB3-90DL		
EMAX SAMP ID:	K033-23	K033-23J		
LAB FILE ID:	ID8K014069	ID8K014070		
DATE EXTRACTED:	11/14/0710:20	11/14/0710:20	DATE COLLECTED:	11/01/07 16:20
DATE ANALYZED:	11/16/0723:14	11/16/0723:19	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK029S	IPK029S		
CALIB. REF:	ID8K014063	ID8K014063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	0.770J	ND	NA	10
Barium	31.0	29.9	4	10
Beryllium	0.230J	ND	NA	10
Cadmium	ND	ND	0	10
Chromium	8.49	8.08J	NA	10
Cobalt	2.85	ND	NA	10
Copper	5.60	5.51J	NA	10
Lead	2.15	1.34J	NA	10
Molybdenum	ND	ND	0	10
Nickel	5.12	ND	NA	10
Selenium	0.567J	ND	NA	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	17.9	16.9	6	10
Zinc	21.4	20.0	7	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	LAS PULGAS LEACHATE			
CONTROL NO.:	K038-01	K038-01A		
LAB FILE ID:	ID8K017016	ID8K017015		
DATIME EXTRCTD:	11/07/0716:15	11/07/0716:15	DATE COLLECTED:	11/02/07
DATIME ANALYZD:	11/20/0712:47	11/20/0712:41	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK014W	IPK014W		
CALIB. REF:	ID8K017009	ID8K017009		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
Antimony	ND	5	5.14	103	75-125
Arsenic	ND	1	1.07	107	75-125
Barium	.213	1	1.2	99	75-125
Beryllium	ND	1	1.01	101	75-125
Cadmium	ND	1	1.01	101	75-125
Chromium	ND	1	.965	97	75-125
Cobalt	ND	1	.989	99	75-125
Copper	ND	1	.891	89	75-125
Lead	ND	1	.959	96	75-125
Molybdenum	ND	1	1.02	102	75-125
Nickel	.0147J	1	.993	98	75-125
Selenium	ND	1	1.06	106	75-125
Silver	ND	1	1.03	103	75-125
Thallium	ND	1	.904	90	75-125
Vanadium	ND	1	1.04	104	75-125
Zinc	ND	1	1.01	101	75-125

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EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 3050B/6010B

MATRIX:	SOIL		% MOISTURE:	5.6
DILTN FACTR:	1	1		
SAMPLE ID:	SB3-10			
CONTROL NO.:	K033-05	K033-05A		
LAB FILE ID:	ID8K014035	ID8K014034		
DATIME EXTRCTD:	11/14/0711:30	11/14/0711:30	DATE COLLECTED:	11/01/07 10:25
DATIME ANALYZD:	11/16/0720:07	11/16/0720:02	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK028S	IPK028S		
CALIB. REF:	ID8K014027	ID8K014027		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Antimony	ND	530	518	98	75-125
Arsenic	2.63	106	107	99	75-125
Barium	148	106	243	90	75-125
Beryllium	.565J	106	106	100	75-125
Cadmium	ND	106	106	100	75-125
Chromium	20.8	106	119	93	75-125
Cobalt	10.7	106	115	98	75-125
Copper	21.8	106	120	93	75-125
Lead	5.95	106	108	96	75-125
Molybdenum	ND	106	111	105	75-125
Nickel	17.4	106	120	97	75-125
Selenium	.834J	106	102	96	75-125
Silver	ND	106	105	100	75-125
Thallium	.775J	106	97.4	91	75-125
Vanadium	45.7	106	146	95	75-125
Zinc	52.2	106	157	99	75-125

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 3050B/6010B

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MATRIX:	SOIL		% MOISTURE:	11.3
DILTN FACTR:	1	1		
SAMPLE ID:	SB3-90			
CONTROL NO.:	K033-23	K033-23A		
LAB FILE ID:	ID8K014069	ID8K014068		
DATIME EXTRCTD:	11/14/0710:20	11/14/0710:20	DATE COLLECTED:	11/01/07 16:20
DATIME ANALYZD:	11/16/0723:14	11/16/0723:08	DATE RECEIVED:	11/02/07
PREP. BATCH:	IPK029S	IPK029S		
CALIB. REF:	ID8K014063	ID8K014063		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Antimony	ND	564	550	98	75-125
Arsenic	.77J	113	111	98	75-125
Barium	31	113	140	97	75-125
Beryllium	.23J	113	113	100	75-125
Cadmium	ND	113	115	102	75-125
Chromium	8.49	113	117	96	75-125
Cobalt	2.85	113	116	101	75-125
Copper	5.6	113	118	100	75-125
Lead	2.15	113	114	99	75-125
Molybdenum	ND	113	119	106	75-125
Nickel	5.12	113	117	99	75-125
Selenium	.567J	113	109	96	75-125
Silver	ND	113	109	97	75-125
Thallium	ND	113	108	96	75-125
Vanadium	17.9	113	128	98	75-125
Zinc	21.4	113	136	102	75-125

TRACE-LOW ICP QC CHECK TABLE

QC	ICV HIGH	ICV	CCV	ICSAB	ICSA
Limit%	95-105	90-110	90-110	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg/L
Al	10	5	5	500	500
Sb	1	0.5	0.5	1	0
As	1	0.5	0.5	1	0
Ba	1	0.5	0.5	0.5	0
Be	1	0.5	0.5	0.5	0
B	1	0.5	0.5	0.5	0
Cd	1	0.5	0.5	1	0
Ca	100	50	50	500	500
Cr	1	0.5	0.5	0.5	0
Co	1	0.5	0.5	0.5	0
Cu	1	0.5	0.5	0.5	0
Fe	10	5	5	200	200
Pb	1	0.5	0.5	1	0
Li	1	0.5	0.5	0.5	0
Mg	100	50	50	500	500
Mn	1	0.5	0.5	0.5	0
Mo	1	0.5	0.5	1	0
Ni	1	0.5	0.5	1	0
K	100	50	50	75	0
Se	1	0.5	0.5	1	0
Si	1	0.5	0.5	1	0
Ag	1	0.5	0.5	1	0
Na	100	50	50	75	0
Sr	1	0.5	0.5	0.5	0
Tl	1	0.5	0.5	1	0
Sn	1	0.5	0.5	1	0
Ti	1	0.5	0.5	1	0
U	10	5	5	1	0
V	1	0.5	0.5	0.5	0
Zn	1	0.5	0.5	1	0

SEQUENCE FILE : ID8K014

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K014001	Blank	17:00	11/16/07	1.000
ID8K014002	S2	17:06	11/16/07	1.000
ID8K014003	S5	17:11	11/16/07	1.000
ID8K014004	S8	17:17	11/16/07	1.000
ID8K014005	ICV	17:22	11/16/07	1.000
ID8K014006	ICB	17:28	11/16/07	1.000
ID8K014007	ICSAI	17:33	11/16/07	1.000
ID8K014008	ICSABI	17:39	11/16/07	1.000
ID8K014009	CCV1	17:44	11/16/07	1.000
ID8K014010	CCB1	17:49	11/16/07	1.000
ID8K014011	IDL-01	17:55	11/16/07	1.000
ID8K014012	IDL-02	18:01	11/16/07	1.000
ID8K014013	IDL-03	18:06	11/16/07	1.000
ID8K014014	IDL-04	18:12	11/16/07	1.000
ID8K014015	IDL-05	18:17	11/16/07	1.000
ID8K014016	IDL-06	18:23	11/16/07	1.000
ID8K014017	IDL-07	18:29	11/16/07	1.000
ID8K014018	CCV2	18:34	11/16/07	1.000
ID8K014019	CCB2	18:39	11/16/07	1.000
ID8K014020	FeAl	18:45	11/16/07	1.000
ID8K014021	BLANK	18:50	11/16/07	1.000
ID8K014022	FeB	18:56	11/16/07	1.000
ID8K014023	BLANK	19:02	11/16/07	1.000
ID8K014024	Cd	19:07	11/16/07	1.000
ID8K014025	BLANK	19:13	11/16/07	1.000
ID8K014026	BLANK	19:18	11/16/07	1.000
ID8K014027	CCV3	19:24	11/16/07	1.000
ID8K014028	CCB3	19:29	11/16/07	1.000
ID8K014029	IPK028SB	19:35	11/16/07	1.000
ID8K014030	IPK028SL	19:40	11/16/07	1.000
ID8K014031	IPK028SC	19:46	11/16/07	1.000
ID8K014032	K033-05M	19:51	11/16/07	1.000
ID8K014033	K033-05S	19:56	11/16/07	1.000
ID8K014034	K033-05A	20:02	11/16/07	1.000
ID8K014035	K033-05	20:07	11/16/07	1.000
ID8K014036	K033-05J	20:13	11/16/07	5.000
ID8K014037	K033-03	20:18	11/16/07	1.000
ID8K014038	BLANK	20:24	11/16/07	1.000
ID8K014039	CCV4	20:29	11/16/07	1.000
ID8K014040	CCB4	20:35	11/16/07	1.000
ID8K014041	K033-04	20:40	11/16/07	1.000
ID8K014042	K033-06	20:46	11/16/07	1.000
ID8K014043	K033-07	20:51	11/16/07	1.000
ID8K014044	K033-08	20:57	11/16/07	1.000
ID8K014045	K033-09	21:02	11/16/07	1.000
ID8K014046	K033-10	21:08	11/16/07	1.000
ID8K014047	K033-11	21:13	11/16/07	1.000
ID8K014048	K033-12	21:19	11/16/07	1.000
ID8K014049	K033-13	21:24	11/16/07	1.000
ID8K014050	BLANK	21:30	11/16/07	1.000
ID8K014051	CCV5	21:35	11/16/07	1.000
ID8K014052	CCB5	21:41	11/16/07	1.000
ID8K014053	K033-14	21:46	11/16/07	1.000
ID8K014054	K033-15	21:52	11/16/07	1.000
ID8K014055	K033-16	21:57	11/16/07	1.000

ID8K014056	K033-17	22:03	11/16/07	1.000
ID8K014057	K033-18	22:08	11/16/07	1.000
ID8K014058	K033-19	22:14	11/16/07	1.000
ID8K014059	K033-20	22:19	11/16/07	1.000
ID8K014060	K033-21	22:25	11/16/07	1.000
ID8K014061	K033-22	22:30	11/16/07	1.000
ID8K014062	BLANK	22:36	11/16/07	1.000
ID8K014063	CCV6	22:41	11/16/07	1.000
ID8K014064	CCB6	22:47	11/16/07	1.000
ID8K014065	IPK029SB	22:52	11/16/07	1.000
ID8K014066	IPK029SL	22:58	11/16/07	1.000
ID8K014067	IPK029SC	23:03	11/16/07	1.000
ID8K014068	K033-23A	23:08	11/16/07	1.000
ID8K014069	K033-23	23:14	11/16/07	1.000
ID8K014070	K033-23J	23:19	11/16/07	5.000
ID8K014071	J955-08A	23:25	11/16/07	1.000
ID8K014072	J955-08	23:30	11/16/07	1.000
ID8K014073	J955-08J	23:36	11/16/07	5.000
ID8K014074	BLANK	23:41	11/16/07	1.000
ID8K014075	CCV7	23:47	11/16/07	1.000
ID8K014076	CCB7	23:52	11/16/07	1.000
ID8K014077	IPK009SB	23:58	11/16/07	1.000
ID8K014078	IPK009SL	00:03	11/17/07	1.000
ID8K014079	IPK009SC	00:08	11/17/07	1.000
ID8K014080	J955-08M	00:14	11/17/07	1.000
ID8K014081	J955-08S	00:19	11/17/07	1.000
ID8K014082	J955-05	00:25	11/17/07	1.000
ID8K014083	J955-06	00:30	11/17/07	1.000
ID8K014084	J955-07	00:35	11/17/07	1.000
ID8K014085	J955-09	00:41	11/17/07	1.000
ID8K014086	BLANK	00:46	11/17/07	1.000
ID8K014087	CCV8	00:52	11/17/07	1.000
ID8K014088	CCB8	00:57	11/17/07	1.000
ID8K014089	J955-10	01:03	11/17/07	1.000
ID8K014090	J955-11	01:08	11/17/07	1.000
ID8K014091	J955-12	01:14	11/17/07	1.000
ID8K014092	J955-13	01:19	11/17/07	1.000
ID8K014093	J955-14	01:25	11/17/07	1.000
ID8K014094	J955-15	01:30	11/17/07	1.000
ID8K014095	J955-16	01:36	11/17/07	1.000
ID8K014096	J955-17	01:41	11/17/07	1.000
ID8K014097	J955-18	01:46	11/17/07	1.000
ID8K014098	BLANK	01:52	11/17/07	1.000
ID8K014099	CCV9	01:58	11/17/07	1.000
ID8K014100	CCB9	02:03	11/17/07	1.000
ID8K014101	J955-19	02:09	11/17/07	1.000
ID8K014102	J955-20	02:14	11/17/07	1.000
ID8K014103	J955-21	02:20	11/17/07	1.000
ID8K014104	J955-22	02:25	11/17/07	1.000
ID8K014105	K411-01	02:30	11/17/07	1.000
ID8K014106	K417-01	02:36	11/17/07	1.000
ID8K014107	BLANK	02:41	11/17/07	1.000
ID8K014108	CCV10	02:47	11/17/07	1.000
ID8K014109	CCB10	02:52	11/17/07	1.000
ID8K014110	IPK014WB	02:58	11/17/07	1.000
ID8K014111	IPK014WL	03:04	11/17/07	1.000
ID8K014112	IPK014WC	03:09	11/17/07	1.000
ID8K014113	J386-06M	03:14	11/17/07	1.000

ID8K014114	J386-06S	03:20	11/17/07	1.000
ID8K014115	J386-06A	03:25	11/17/07	1.000
ID8K014116	J386-06	03:31	11/17/07	1.000
ID8K014117	J386-06J	03:36	11/17/07	5.000
ID8K014118	J386-05	03:42	11/17/07	1.000
ID8K014119	BLANK	03:48	11/17/07	1.000
ID8K014120	CCV11	03:53	11/17/07	1.000
ID8K014121	CCB11	03:59	11/17/07	1.000
ID8K014122	J386-07	04:04	11/17/07	1.000
ID8K014123	K025-04	04:10	11/17/07	1.000
ID8K014124	K038-01	04:15	11/17/07	1.000
ID8K014125	K045-01	04:21	11/17/07	1.000
ID8K014126	K045-02	04:26	11/17/07	1.000
ID8K014127	K045-03	04:32	11/17/07	1.000
ID8K014128	K023-02	04:38	11/17/07	1.000
ID8K014129	K033-02	04:43	11/17/07	1.000
ID8K014130	BLANK	04:49	11/17/07	1.000
ID8K014131	CCV12	04:54	11/17/07	1.000
ID8K014132	CCB12	05:00	11/17/07	1.000
ID8K014133	ICSAF	05:05	11/17/07	1.000
ID8K014134	ICSABF	05:11	11/17/07	1.000
ID8K014135	CCV13	05:16	11/17/07	1.000
ID8K014136	CCB13	05:22	11/17/07	1.000
ID8K014137	K410-01	05:27	11/17/07	1.000
ID8K014138	BLANK	05:33	11/17/07	1.000

SDG : 07K033 UNIT : % SUMMARY of ICV and CCV : ID8K014 DATE : 11/16/07 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	95	99	102	101	104	113*	103	100	101	102	96	100	102	99	99	103	102	96	102	102	98	97	104	105
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	91	----	----	----	----	----	----	95	----	----	----	92	----	100	----	----	----	----	----	----	----	----	----	----
ICSABI	90	101	102	106	100	107	102	94	97	98	94	92	95	98	94	106	97	108	101	111	107	90	101	101
CCV1	96	96	98	98	99	103	101	99	97	99	92	97	97	99	96	104	99	96	98	98	97	94	100	101
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	95	98	97	96	99	104	100	97	97	99	93	98	97	99	95	104	98	95	98	98	96	94	99	101
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FEAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FEB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CD	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	96	98	99	96	99	105	101	98	98	99	94	98	97	99	95	105	99	96	99	99	97	95	100	101
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	100	101	101	99	102	107	104	100	100	102	98	102	101	103	98	108	102	99	102	101	100	98	102	106
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	99	101	99	99	100	107	102	98	99	101	99	101	100	100	95	107	100	98	100	101	99	97	101	103
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

K033-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	100	102	100	100	100	107	103	98	100	102	102	102	100	100	95	108	101	100	100	101	101	98	101	104
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	99	102	100	100	100	107	103	97	99	101	102	102	100	100	96	109	101	99	101	100	100	99	101	106
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	100	103	102	102	101	108	104	98	100	102	103	101	101	100	97	109	102	101	103	101	101	99	103	105
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	99	101	100	102	99	106	103	97	98	101	103	100	100	99	96	108	101	100	101	100	101	99	102	104
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K411-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K417-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	93	95	94	95	93	100	97	91	93	95	98	94	94	92	89*	101	95	94	95	94	95	92	95	100
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J386-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	109	110	108	111*	107	117*	113*	104	107	111*	116*	111*	109	105	101	120*	111*	112*	108	109	114*	109	110	115*
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K025-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K023-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	98	100	99	103	98	106	104	96	98	102	106	100	100	95	92	109	102	104	100	100	104	99	102	105
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	94	----	----	----	----	----	----	90	----	----	----	94	----	96	----	----	----	----	----	----	----	----	----	----
ICSABF	93	104	101	112	98	109	105	89	95	101	107	93	98	95	89	111	100	116	101	110	114	95	98	104
CCV13	100	101	100	103	98	106	104	95	98	102	108	101	101	96	91	110	102	104	100	99	105	100	101	105
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 07K033 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8K014 (SOIL) DATE : 11/16/07 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	.030	-.530	-.040	-.300	.030	.100	.130	-10.5	-.030	-.080	-.080	-3.42	-.680	-37.6	.230	.220	-.320	5.82	-.770	.030	-6.73	.590	.020	-.280
ICSAI	----	1.91	-7.25	-.160	-.290	-4.63	3.95	----	.200	.290	2.26	----	-9.92	----	1.27	-1.71	-.280	24.5	5.05	-.530	95.2	-.840	-.260	-5.15
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	2.25	-.120	-1.79	-.230	-.190	.060	.090	-.690	-.190	-.080	.170	-2.47	-.330	-62.7	.100	.300	-.140	27.1	-.850	.020	-9.73	.640	.080	-.560
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-2.94	-.460	-1.22	-.580	-.140	-.060	.030	-17.9	-.270	-.010	.190	-2.25	-.130	22.0	.860	.200	-.310	20.0	.760	.020	-14.8	1.12	-.110	-.860
FEAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FEB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CD	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-7.09	.340	-1.38	-.730	.060	.100	.160	-23.5	-.160	-.130	-.110	-3.21	-.760	-39.1	.120	.190	-.340	42.3	-1.26	.190	-16.6	.560	-.090	-1.22
IPK028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-3.21	-.400	-1.28	-.150	-.060	.320	.110	106	-.110	-.220	.370	-.990	-.190	-48.7	.410	.250	-.130	69.3	.040	.000	-3.06	.480	-.210	6.78
K033-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	3.27	.450	-2.30	-.440	.050	-.190	.060	26.9	.040	.080	.460	2.34	-.490	-16.0	1.31	.190	-.110	74.3	-.350	.000	-17.6	1.01	-.030	2.88
K033-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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K033-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-6.18	-.600	-2.24	-.360	-.110	-.220	.040	-16.0	-.150	-.060	.440	2.33	-.720	-38.8	-.180	.190	-.090	16.7	-.330	.330	-38.3	.150	.030	-.360
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-2.21	.860	-.640	-.200	-.180	.170	.090	-19.1	.060	-.050	.460	2.35	-1.03	-3.46	-.450	.370	-.240	16.9	.450	.120	-37.0	-.110	-.140	-.380
IPK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-1.39	.560	-1.85	-.540	-.070	-.110	.080	104	.050	.010	.450	4.97	-.110	-73.7	.180	.330	-.080	43.9	-1.06	-.120	-22.4	.220	.070	9.75
J955-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-5.31	-.420	-.490	-.400	-.120	-.280	.060	-20.8	-.090	-.120	.100	-.200	-.640	-55.3	1.45	.310	-.100	10.6	-1.57	.110	-50.0	.840	-.130	-.240
J955-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K411-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K417-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-6.29	-.280	-.530	-.350	-.010	-.190	.070	-18.0	-.220	.140	.180	.910	-.520	-39.7	-1.67	.340	-.240	-16.9	-.020	-.090	-50.7	.620	.010	-.370
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J386-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-4.87	.950	-1.30	-.140	-.130	2.96	.100	15.3	-.110	-.100	.330	3.96	-.180	6.47	.610	.300	-.250	160	.230	.050	415	.090	.120	1.53
J386-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K025-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K023-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	6.93	.590	-1.52	.530	.260	.810	.450	90.9	.200	.260	.780	20.6	.250	49.0	1.64	.600	.520	132	-.440	.050	273	1.18	.300	3.12
ICSAF	----	2.80	-7.78	.430	-.060	8.08	5.97	----	.080	.350	3.05	----	-8.27	----	-.320	-1.95	-.530	117	9.04	-.100	334	-.900	-.830	-5.54
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	2.90	-.060	-1.65	-.390	-.020	1.000	.100	67.3	-.190	-.120	.280	4.37	.250	11.2	1.62	.290	-.010	79.7	-.110	-.080	147	.820	-.070	4.73
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 07K033 UNIT : UG/L

SUMMARY of CALIBRATION BLANKS : ID8K014 (WATER)

DATE : 11/16/07 INST : EMAXT

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	.030	-.530	-.040	-.300	.030	.100	.130	-10.5	-.030	-.080	-.080	-3.42	-.680	-37.6	.230	.220	-.320	5.82	-.770	.030	-6.73	.590	.020	-.280
ICSAI	----	1.91	-7.25	-.160	-.290	-4.63	3.95	----	.200	.290	2.26	----	-9.92	----	1.27	-1.71	-.280	24.5	5.05	-.530	95.2	-.840	-.260	-5.15
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	2.25	-.120	-1.79	-.230	-.190	.060	.090	-.690	-.190	-.080	.170	-2.47	-.330	-62.7	.100	.300	-.140	27.1	-.850	.020	-9.73	.640	.080	-.560
IDL-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IDL-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-2.94	-.460	-1.22	-.580	-.140	-.060	.030	-17.9	-.270	-.010	.190	-2.25	-.130	22.0	.860	.200	-.310	20.0	.760	.020	-14.8	1.12	-.110	-.860
FEAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FEB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CD	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-7.09	.340	-1.38	-.730	.060	.100	.160	-23.5	-.160	-.130	-.110	-3.21	-.760	-39.1	.120	.190	-.340	42.3	-1.26	.190	-16.6	.560	-.090	-1.22
IPK028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-05J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-3.21	-.400	-1.28	-.150	-.060	.320	.110	106	-.110	-.220	.370	-.990	-.190	-48.7	.410	.250	-.130	69.3	.040	.000	-3.06	.480	-.210	6.78
K033-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	3.27	.450	-2.30	-.440	.050	-.190	.060	26.9	.040	.080	.460	2.34	-.490	-16.0	1.31	.190	-.110	74.3	-.350	.000	-17.6	1.01	-.030	2.88
K033-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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K033-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-6.18	-.600	-2.24	-.360	-.110	-.220	.040	-16.0	-.150	-.060	.440	2.33	-.720	-38.8	-.180	.190	-.090	16.7	-.330	.330	-38.3	.150	.030	-.360
IPK029SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK029SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-23J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-2.21	.860	-.640	-.200	-.180	.170	.090	-19.1	.060	-.050	.460	2.35	-1.03	-3.46	-.450	.370	-.240	16.9	.450	.120	-37.0	-.110	-.140	-.380
IPK009SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK009SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-08S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-1.39	.560	-1.85	-.540	-.070	-.110	.080	104	.050	.010	.450	4.97	-.110	-73.7	.180	.330	-.080	43.9	-1.06	-.120	-22.4	.220	.070	9.75
J955-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-5.31	-.420	-.490	-.400	-.120	-.280	.060	-20.8	-.090	-.120	.100	-.200	-.640	-55.3	1.45	.310	-.100	10.6	-1.57	.110	-50.0	.840	-.130	-.240
J955-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J955-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K411-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K417-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-6.29	-.280	-.530	-.350	-.010	-.190	.070	-18.0	-.220	.140	.180	.910	-.520	-39.7	-1.67	.340	-.240	-16.9	-.020	-.090	-50.7	.620	.010	-.370
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

J386-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-4.87	.950	-1.30	-.140	-.130	2.96	.100	15.3	-.110	-.100	.330	3.96	-.180	6.47	.610	.300	-.250	160	.230	.050	415	.090	.120	1.53
J386-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K025-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K023-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	6.93	.590	-1.52	.530	.260	.810	.450	90.9	.200	.260	.780	20.6	.250	49.0	1.64	.600	.520	132	-.440	.050	273	1.18	.300	3.12
ICSAF	----	2.80	-7.78	.430	-.060	8.08	5.97	----	.080	.350	3.05	----	-8.27	----	-.320	-1.95	-.530	117	9.04	-.100	334	-.900	-.830	-5.54
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	2.90	-.060	-1.65	-.390	-.020	1.000	.100	67.3	-.190	-.120	.280	4.37	.250	11.2	1.62	.290	-.010	79.7	-.110	-.080	147	.820	-.070	4.73
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8K014001			1	☐		Continue
2	0	Unk	S1		ID8K014002			1	☐		Continue
3	0	Unk	S2		ID8K014003			1	☐		Continue
4	0	Unk	S3		ID8K014004			1	☐		Continue
5	1	QC	ICV		ID8K014005			1	☒	ICV	Continue
6	2	QC	ICB		ID8K014006			1	☒	CCB1	Continue
7	3	QC	ICSAI		ID8K014007			1	☒	ICSA	Continue
8	4	QC	ICSABI		ID8K014008			1	☒	ICSAB	Continue
9	5	QC	CCV1		ID8K014009			1	☒	CCV	Continue
10	6	QC	CCB1		ID8K014010			1	☒	CCB1	Continue
11	7	Unk	IDL-01		ID8K014011			1	☐		Continue
12	8	Unk	IDL-02		ID8K014012			1	☐		Continue
13	9	Unk	IDL-03		ID8K014013			1	☐		Continue
14	10	Unk	IDL-04		ID8K014014			1	☐		Continue
15	11	Unk	IDL-05		ID8K014015			1	☐		Continue
16	12	Unk	IDL-06		ID8K014016			1	☐		Continue
17	13	Unk	IDL-07		ID8K014017			1	☐		Continue
18	14	QC	CCV2		ID8K014018			1	☒	CCV	Continue
19	15	QC	CCB2		ID8K014019			1	☒	CCB1	Continue
20	16	Unk	FeAI	1.6ppmFe/2ppmAI	ID8K014020			1	☐		Continue
21	17	Unk	BLANK		ID8K014021			1	☐		Continue
22	18	Unk	FeB	1.6ppmFe/2ppmB	ID8K014022			1	☐		Continue
23	19	Unk	BLANK		ID8K014023			1	☐		Continue
24	20	Unk	Cd	20ppm	ID8K014024			1	☐		Continue
25	21	Unk	BLANK		ID8K014025			1	☐		Continue
26	22	Unk	BLANK		ID8K014026			1	☐		Continue
27	23	QC	CCV3		ID8K014027			1	☒	CCV	Continue
28	24	QC	CCB3		ID8K014028			1	☒	CCB1	Continue
29	25	QC	IPK028SB		ID8K014029			1	☒	CCB1	Continue
30	26	QC	IPK028SL		ID8K014030			1	☒	LCS	Continue
31	27	QC	IPK028SC		ID8K014031			1	☒	LCS	Continue
32	28	Unk	K033-05M		ID8K014032			1	☐		Continue
33	29	Unk	K033-05S		ID8K014033			1	☐		Continue
34	30	Unk	K033-05A		ID8K014034			1	☐		Continue
35	31	Unk	K033-05		ID8K014035			1	☐		Continue
36	32	Unk	K033-05J		ID8K014036			1	☐		Continue
37	33	Unk	K033-03		ID8K014037			1	☐		Continue
38	34	Unk	BLANK		ID8K014038			1	☐		Continue
39	35	QC	CCV4		ID8K014039			1	☒	CCV	Continue
40	36	QC	CCB4		ID8K014040			1	☒	CCB1	Continue
41	37	Unk	K033-04		ID8K014041			1	☐		Continue
42	38	Unk	K033-06		ID8K014042			1	☐		Continue
43	39	Unk	K033-07		ID8K014043			1	☐		Continue
44	40	Unk	K033-08		ID8K014044			1	☐		Continue
45	41	Unk	K033-09		ID8K014045			1	☐		Continue
46	42	Unk	K033-10		ID8K014046			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	Unk	K033-11		ID8K014047			1	☐		Continue
48	44	Unk	K033-12		ID8K014048			1	☐		Continue
49	45	Unk	K033-13		ID8K014049			1	☐		Continue
50	46	Unk	BLANK		ID8K014050			1	☐		Continue
51	47	QC	CCV5		ID8K014051			1	☒	CCV	Continue
52	48	QC	CCB5		ID8K014052			1	☒	CCB1	Continue
53	49	Unk	K033-14		ID8K014053			1	☐		Continue
54	50	Unk	K033-15		ID8K014054			1	☐		Continue
55	51	Unk	K033-16		ID8K014055			1	☐		Continue
56	52	Unk	K033-17		ID8K014056			1	☐		Continue
57	53	Unk	K033-18		ID8K014057			1	☐		Continue
58	54	Unk	K033-19		ID8K014058			1	☐		Continue
59	55	Unk	K033-20		ID8K014059			1	☐		Continue
60	56	Unk	K033-21		ID8K014060			1	☐		Continue
61	57	Unk	K033-22		ID8K014061			1	☐		Continue
62	58	Unk	BLANK		ID8K014062			1	☐		Continue
63	59	QC	CCV6		ID8K014063			1	☒	CCV	Continue
64	60	QC	CCB6		ID8K014064			1	☒	CCB1	Continue
65	61	QC	IPK029SB		ID8K014065			1	☒	CCB1	Continue
66	62	QC	IPK029SL		ID8K014066			1	☒	LCS	Continue
67	63	QC	IPK029SC		ID8K014067			1	☒	LCS	Continue
68	64	Unk	K033-23A		ID8K014068			1	☐		Continue
69	65	Unk	K033-23		ID8K014069			1	☐		Continue
70	66	Unk	K033-23J		ID8K014070			1	☐		Continue
71	67	Unk	J955-08A		ID8K014071			1	☐		Continue
72	68	Unk	J955-08		ID8K014072			1	☐		Continue
73	69	Unk	J955-08J		ID8K014073			1	☐		Continue
74	70	Unk	BLANK		ID8K014074			1	☐		Continue
75	71	QC	CCV7		ID8K014075			1	☒	CCV	Continue
76	72	QC	CCB7		ID8K014076			1	☒	CCB1	Continue
77	73	QC	IPK009SB		ID8K014077			1	☒	CCB1	Continue
78	74	QC	IPK009SL		ID8K014078			1	☒	LCS	Continue
79	75	QC	IPK009SC		ID8K014079			1	☒	LCS	Continue
80	76	Unk	J955-08M		ID8K014080			1	☐		Continue
81	77	Unk	J955-08S		ID8K014081			1	☐		Continue
82	78	Unk	J955-05		ID8K014082			1	☐		Continue
83	79	Unk	J955-06		ID8K014083			1	☐		Continue
84	80	Unk	J955-07		ID8K014084			1	☐		Continue
85	81	Unk	J955-09		ID8K014085			1	☐		Continue
86	82	Unk	BLANK		ID8K014086			1	☐		Continue
87	83	QC	CCV8		ID8K014087			1	☒	CCV	Continue
88	84	QC	CCB8		ID8K014088			1	☒	CCB1	Continue
89	85	Unk	J955-10		ID8K014089			1	☐		Continue
90	86	Unk	J955-11		ID8K014090			1	☐		Continue
91	87	Unk	J955-12		ID8K014091			1	☐		Continue
92	88	Unk	J955-13		ID8K014092			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	Unk	J955-14		ID8K014093			1	☐		Continue
94	90	Unk	J955-15		ID8K014094			1	☐		Continue
95	91	Unk	J955-16		ID8K014095			1	☐		Continue
96	92	Unk	J955-17		ID8K014096			1	☐		Continue
97	93	Unk	J955-18		ID8K014097			1	☐		Continue
98	94	Unk	BLANK		ID8K014098			1	☐		Continue
99	95	QC	CCV9		ID8K014099			1	☒	CCV	Continue
100	96	QC	CCB9		ID8K014100			1	☒	CCB1	Continue
101	97	Unk	J955-19		ID8K014101			1	☐		Continue
102	98	Unk	J955-20		ID8K014102			1	☐		Continue
103	99	Unk	J955-21		ID8K014103			1	☐		Continue
104	100	Unk	J955-22		ID8K014104			1	☐		Continue
105	101	Unk	K411-01		ID8K014105			1	☐		Continue
106	102	Unk	K417-01		ID8K014106			1	☐		Continue
107	103	Unk	BLANK		ID8K014107			1	☐		Continue
108	104	QC	CCV10	Mn↓	ID8K014108			1	☒	CCV	Continue
109	105	QC	CCB10		ID8K014109			1	☒	CCB1	Continue
110	106	QC	IPK014WB		ID8K014110			1	☒	CCB1	Continue
111	107	QC	IPK014WL	Ag↓	ID8K014111			1	☒	LCS	Continue
112	108	QC	IPK014WC	Mn↓	ID8K014112			1	☒	LCS	Continue
113	109	Unk	J386-06M		ID8K014113			1	☐		Continue
114	110	Unk	J386-06S		ID8K014114			1	☐		Continue
115	111	Unk	J386-06A		ID8K014115			1	☐		Continue
116	112	Unk	J386-06	↑Na	ID8K014116			1	☐		Continue
117	113	Unk	J386-06J		ID8K014117			1	☐		Continue
118	114	Unk	J386-05		ID8K014118			1	☐		Continue
119	115	Unk	BLANK		ID8K014119			1	☐		Continue
120	116	QC	CCV11 Cu↑ Fe↑	Sb↑ Ba↑ Cd↑ Co↑	ID8K014120			1	☒	CCV	Continue
121	117	QC	CCB11		ID8K014121			1	☒	CCB1	Continue
122	118	Unk	J386-07		ID8K014122			1	☐		Continue
123	119	Unk	K025-04		ID8K014123			1	☐		Continue
124	120	Unk	K038-01		ID8K014124			1	☐		Continue
125	121	Unk	K045-01		ID8K014125			1	☐		Continue
126	122	Unk	K045-02		ID8K014126			1	☐		Continue
127	123	Unk	K045-03		ID8K014127			1	☐		Continue
128	124	Unk	K023-02		ID8K014128			1	☐		Continue
129	125	Unk	K033-02		ID8K014129			1	☐		Continue
130	126	Unk	BLANK		ID8K014130			1	☐		Continue
131	127	QC	CCV12		ID8K014131			1	☒	CCV	Continue
132	128	QC	CCB12		ID8K014132			1	☒	CCB1	Continue
133	129	QC	ICSAF		ID8K014133			1	☒	ICSA	Continue
134	130	QC	ICSABF		ID8K014134			1	☒	ICSAB	Continue
135	131	QC	CCV13		ID8K014135			1	☒	CCV	Continue
136	132	QC	CCB13		ID8K014136			1	☒	CCB1	Continue
137	133	Unk	K410-01	↑ Na	ID8K014137			1	☐		Continue
138	134	Unk	BLANK	autosampler stopped	ID8K014138			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
139	135	Unk	BLANK		ID8K014139			1	☐		Continue
140	136	QC	CCV14		ID8K014140			1	☒	CCV	Continue
141	137	QC	CCB14		ID8K014141			1	☒	CCB1	Continue
142	0	Unk						1	☐		Continue
143	0	Unk						1	☐		Continue
144	0	Unk						1	☐		Continue
145	0	Unk						1	☐		Continue
146	0	Unk						1	☐		Continue
147	0	Unk						1	☐		Continue
148	0	Unk						1	☐		Continue
149	0	Unk						1	☐		Continue
150	0	Unk						1	☐		Continue
151	0	Unk						1	☐		Continue
152	0	Unk						1	☐		Continue
153	0	Unk						1	☐		Continue
154	0	Unk						1	☐		Continue
155	0	Unk						1	☐		Continue
156	0	Unk						1	☐		Continue
157	0	Unk						1	☐		Continue
158	0	Unk						1	☐		Continue
159	0	Unk						1	☐		Continue
160	0	Unk						1	☐		Continue

24:27

7054

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/16/07 17:00

End Date: 11/17/07 5:33

Comments:

CCV10 Mn↓
1PK014WL, 1PK014WC Ag↓
J386 Na overrange
K410 Na overrange
CCV11 Cu↑ Fe↑ Sb↑ Ba↑ Cd↑ Co↑

Argon gas ran out before final CCV14, CCB14 were ran

Book #: AD8-003

Instrument No.: D8

Analytical Batch: 1D8K014

Analytical Sequence: S-6010K07(V10)

Method File: 6010K07(V10)

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	SM1B11.01.03
S3	NA
S4	NA
S5	SM1B11.01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B11.03.01
CCV	SM1B11.02.06
ICSA	SM1B10.93.03
ICSAB	SM1B10.95.05
CRI/MRL	

Analyzed By: TH / CAC

Date: 11/17/07 55

ID8K014 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00127	.00003	-.00002	.00077	.00006	.00005	-.00008	.00044	.00016	-.00019	Blank
2	S2				.75167	.75825	.09502	2.4992		.16576	.68084	S2
3	S5		.00801	.00495								S5
4	S8	.24728							1.5832			S8
5	ICV	4.7477	.49676	.51079	.50290	.52041	.56283*	.51729	50.090	.50354	.51142	ICV
6	ICB	.00003	-.00053	-.00004	-.00030	.00003	.00010	.00013	-.01048	-.00003	-.00008	ICB
7	ICSAI	453.27	.00191	-.00725	-.00016	-.00029	-.00463	.00395	474.63	.00020	.00029	ICSAI
8	ICSABI	449.65	1.0138	1.0214	.52883	.49776	.53691	1.0178	469.46	.48744	.49240	ICSABI
9	CCV1	4.7791	.48232	.49103	.48771	.49558	.51327	.50464	49.655	.48280	.49524	CCV1
10	CCB1	.00225	-.00012	-.00179	-.00023	-.00019	.00006	.00009	-.00069	-.00019	-.00008	CCB1
11	IDL-01	.00632	-.00181	.00030	.00012	.00000	.00038	.00008	.04429	-.00005	-.00006	IDL-01
12	IDL-02	-.00255	-.00117	-.00097	.00001	-.00017	-.00017	.00009	-.00103	-.00018	-.00004	IDL-02
13	IDL-03	-.00142	-.00126	.00060	-.00039	-.00016	.00010	.00003	.01014	.00001	.00011	IDL-03
14	IDL-04	-.00386	-.00089	-.00048	-.00010	-.00003	-.00034	.00009	-.00549	-.00012	.00014	IDL-04
15	IDL-05	-.00342	-.00179	-.00055	-.00043	-.00014	.00025	.00004	.01094	-.00010	.00001	IDL-05
16	IDL-06	-.00542	-.00177	.00088	.00006	-.00002	-.00047	.00003	-.00164	-.00012	.00006	IDL-06
17	IDL-07	-.00474	-.00155	.00005	-.00009	.00019	.00015	.00002	-.00119	-.00006	-.00006	IDL-07
18	CCV2	4.7690	.48764	.48700	.47973	.49276	.51813	.50241	48.481	.48362	.49277	CCV2
19	CCB2	-.00294	-.00046	-.00122	-.00058	-.00014	-.00006	.00003	-.01790	-.00027	-.00001	CCB2
20	FeAl	1.8336	-.00082	-.00004	-.00090	-.00010	-.00074	.00005	-.01990	-.00023	-.00007	FeAl
21	BLANK	-.00154	.00001	-.00014	-.00028	-.00010	.00041	.00005	.02105	-.00017	-.00013	BLANK
22	FeB	-.00336	-.00043	-.00179	-.00042	-.00031	2.0561	.00004	-.01183	-.00035	-.00002	FeB
23	BLANK	.00338	-.00007	-.00072	.00007	-.00010	.00441	.00009	.03120	.00005	.00001	BLANK
24	Cd	-.00482	-.00043	-.00163	-.00025	.00018	.00024	18.465	-.02322	-.00170	-.00303	Cd
25	BLANK	-.00033	-.00063	-.00033	-.00017	-.00010	.00176	.00066	.02820	.00007	-.00007	BLANK
26	BLANK	-.00213	-.00025	-.00036	-.00027	.00005	.12654	.00032	.03317	-.00006	.00000	BLANK
27	CCV3	4.8031	.49043	.49326	.48186	.49662	.52369	.50626	48.933	.48913	.49640	CCV3
28	CCB3	-.00709	.00034	-.00138	-.00073	.00006	.00010	.00016	-.02347	-.00016	-.00013	CCB3
29	IPK028SB	-.00418	-.00035	-.00152	-.00074	-.00004	-.00022	.00008	-.00623	-.00015	-.00004	IPK028SB
30	IPK028SL	9.6921	5.1343	1.0130	1.0006	1.0598	1.0963	1.0499	49.967	1.0049	1.0425	IPK028SL
31	IPK028SC	9.3026	4.9448	.97843	.97708	1.0335	1.0454	1.0225	48.842	.95710	1.0107	IPK028SC
32	K033-05M	149.64	1.3869	.90753	2.1741	.92239	.84482	.91543	363.34	1.0283	.99989	K033-05M
33	K033-05S	151.25	1.2844	.88010	2.1342	.88249	.82044	.87547	353.44	1.0104	.96153	K033-05S
34	K033-05A	140.79	4.8930	1.0119	2.2962	1.0009	1.0832	1.0033	468.47	1.1230	1.0820	K033-05A
35	K033-05	137.90	-.00715	.02486	1.3985	.00533	.01945	.00486	446.50	.19681	.10114	K033-05
36	K033-05J	27.242	-.00107	.00612	.27464	.00113	.00182	.00074	90.706	.03905	.01984	K033-05J
37	K033-03	147.16	-.00904	.02236	1.3167	.00552	.01384	.00500	290.33	.19171	.10033	K033-03
38	BLANK	.00554	.00076	-.00169	.00041	-.00009	.02530	.00007	.04213	.00038	-.00021	BLANK
39	CCV4	4.9756	.50737	.50604	.49575	.51006	.53469	.52154	49.897	.49793	.51042	CCV4
40	CCB4	-.00321	-.00040	-.00128	-.00015	-.00006	.00032	.00011	.10619*	-.00011	-.00022	CCB4
41	K033-04	138.51	-.01134	.02358	1.2797	.00560	.02135	.00482	206.01	.19282	.10552	K033-04
42	K033-06	125.78	-.01007	.02149	1.2783	.00510	.01304	.00515	349.19	.19937	.09366	K033-06
43	K033-07	209.31	-.01306	.05022	2.2096	.00812	.01883	.00861	246.38	.38679	.17019	K033-07
44	K033-08	203.64	-.01252	.07932	1.8956	.00791	.02505	.00836	209.32	.39446	.18563	K033-08
45	K033-09	118.90	-.00870	.03208	1.8092	.00375	.01169	.00472	734.35	.29035	.08741	K033-09
46	K033-10	130.47	-.00805	.05552	1.5166	.00417	.01162	.00587	805.13	.30066	.09809	K033-10
47	K033-11	123.57	-.01020	.03773	1.3701	.00389	.00896	.00555	744.87	.24340	.08670	K033-11
48	K033-12	145.57	-.01280	.06642	.98430	.00541	.01145	.00570	172.68	.35171	.12209	K033-12
49	K033-13	161.61	-.01217	.02870	1.3081	.00470	.02210	.00647	1300.5	.20250	.07094	K033-13
50	BLANK	.00147	-.00104	-.00151	-.00041	-.00006	.00027	.00009	.06338	-.00008	-.00008	BLANK
51	CCV5	4.9550	.50487	.49723	.49252	.49911	.53334	.51169	48.933	.49577	.50379	CCV5
52	CCB5	.00327	.00045	-.00230	-.00044	.00005	-.00019	.00006	.02691	.00004	.00008	CCB5
53	K033-14	234.98	-.01480	.11285	.91217	.00922	.02267	.00926	149.25	.49019	.20775	K033-14
54	K033-15	119.42	-.00643	.02488	.83446	.00381	.00362	.00583	1334.8	.18056	.07507	K033-15
55	K033-16	197.95	-.01650	.06292	1.1514	.00751	.01899	.00687	106.80	.38946	.14122	K033-16

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56	K033-17	98.313	-.00760	.04408	.68838	.00479	.00380	.00286	45.957	.17935	.07346	K033-17
57	K033-18	88.646	-.00776	.02069	.67365	.00364	.00266	.00216	44.005	.12138	.05679	K033-18
58	K033-19	154.24	-.01239	.04776	1.2618	.00719	.01078	.00478	91.176	.18265	.10602	K033-19
59	K033-20	162.45	-.01390	.04055	1.2570	.00715	.01219	.00565	148.73	.20252	.11618	K033-20
60	K033-21	143.77	-.00965	.01930	1.0121	.00574	.01460	.00404	71.900	.18368	.10152	K033-21
61	K033-22	111.16	-.00940	.04761	.83799	.00492	.01227	.00344	58.776	.42171	.07693	K033-22
62	BLANK	-.00027	.00002	-.00126	-.00029	-.00005	.00108	.00005	.06540	-.00028	.00000	BLANK
63	CCV6	5.0225	.50934	.49877	.49796	.49974	.53674	.51522	48.931	.49886	.50783	CCV6
64	CCB6	-.00618	-.00060	-.00224	-.00036	-.00011	-.00022	.00004	-.01601	-.00015	-.00006	CCB6
65	IPK029SB	-.00123	-.00139	-.00096	-.00039	-.00004	.00012	.00004	.00013	-.00008	.00003	IPK029SB
66	IPK029SL	9.4987	5.0335	.99608	1.0073	1.0344	1.0580	1.0474	48.966	.98195	1.0379	IPK029SL
67	IPK029SC	9.5063	5.0149	.98948	.99934	1.0279	1.0624	1.0341	48.804	.98272	1.0275	IPK029SC
68	K033-23A	52.760	4.8820	.98880	1.2453	1.0019	1.0746	1.0179	70.419	1.0368	1.0306	K033-23A
69	K033-23	46.396	.00159	.00683	.27507	.00204	.00629	.00123	24.755	.07529	.02530	K033-23
70	K033-23J	8.8876	.00116	.00178	.05305	.00043	.00094	.00024	4.8116	.01433	.00488	K033-23J
71	J955-08A	160.18	4.8997	1.0607	1.9940	.99010	1.0770	1.0155	124.03	1.2426	1.1037	J955-08A
72	J955-08	154.01	-.00789	.08031	1.0378	.00681	.01497	.00500	80.483	.32728	.11485	J955-08
73	J955-08J	31.344	-.00198	.01514	.20632	.00131	.00104	.00066	16.503	.06779	.02278	J955-08J
74	BLANK	-861.05	-43.840	62.357	-57.882	2.5979	-57.508	.39201	-24125.	-9.8020	3.2007	BLANK
75	CCV7	4.9682	.51027	.49982	.50097	.50084	.53548	.51658	48.437	.49380	.50727	CCV7
76	CCB7	-.00221	.00086	-.00064	-.00020	-.00018	.00017	.00009	-.01908	.00006	-.00005	CCB7
77	IPK009SB	-.00249	-.00099	.00080	-.00046	-.00003	-.00025	.00009	.00276	-.00015	.00002	IPK009SB
78	IPK009SL	9.2842	4.8343	.96417	.98071	1.0052	1.0267	1.0121	46.981	.94724	1.0022	IPK009SL
79	IPK009SC	9.2727	4.8328	.96279	.97742	1.0011	1.0287	1.0094	46.714	.94843	.99825	IPK009SC
80	J955-08M	174.60	1.5446	.95352	2.1306	.93053	.88851	.93559	133.62	1.1869	1.0299	J955-08M
81	J955-08S	171.96	1.4723	.94577	1.9672	.91781	.87588	.92308	133.35	1.1783	1.0163	J955-08S
82	J955-05	109.98	-.01042	.02115	1.4146	.00453	.01806	.00443	332.08	.17423	.09585	J955-05
83	J955-06	116.25	-.00963	.03122	2.8742	.00443	.01771	.00509	452.79	.19795	.10011	J955-06
84	J955-07	159.08	-.01122	.04525	1.4076	.00703	.02374	.00685	482.17	.24199	.12259	J955-07
85	J955-09	149.00	-.00894	.06863	1.5937	.00725	.01132	.00594	93.475	.39952	.11599	J955-09
86	BLANK	-796.18	-30.863	44.181	108.54	-7.1640	-49.236	.18923	56429.	-9.0252	1.5110	BLANK
87	CCV8	5.0063	.51374	.51047	.50798	.50267	.54050	.52067	49.152	.49987	.51164	CCV8
88	CCB8	-.00139	.00056	-.00185	-.00054	-.00007	-.00011	.00008	.10446*	.00005	.00001	CCB8
89	J955-10	88.835	-.01061	.02549	.62070	.00451	.00221	.00335	113.31	.12844	.07219	J955-10
90	J955-11	166.33	-.01052	.05201	1.4359	.00811	.01221	.00769	411.09	.22091	.12735	J955-11
91	J955-12	116.83	-.00648	.05023	1.0357	.00405	.00429	.00740	1444.1	.18239	.07130	J955-12
92	J955-13	159.62	-.01090	.04737	1.1954	.00665	.00125	.00851	903.64	.26160	.10372	J955-13
93	J955-14	69.835	-.00767	.01817	.59914	.00373	.00206	.00209	61.878	.10531	.05093	J955-14
94	J955-15	44.986	-.00495	.00778	.32145	.00228	.00171	.00127	28.363	.12064	.02629	J955-15
95	J955-16	43.274	-.00582	.00859	.32880	.00230	.00534	.00125	30.685	.07341	.03049	J955-16
96	J955-17	158.13	-.01496	.05651	1.3156	.00736	.01268	.00595	96.059	.21518	.12199	J955-17
97	J955-18	143.10	-.01308	.06897	.98811	.00650	.01417	.00475	71.674	.20839	.10484	J955-18
98	BLANK	17285.	801.85	-1025.3	-43.265	-2.2151	1021.0	.09898	-22767.	136.22	1.9194	BLANK
99	CCV9	4.9487	.50505	.50125	.50838	.49571	.53027	.51640	48.617	.49096	.50681	CCV9
100	CCB9	-.00531	-.00042	-.00049	-.00040	-.00012	-.00028	.00006	-.02081	-.00009	-.00012	CCB9
101	J955-19	161.38	-.01312	.07507	1.1528	.00752	.01508	.00579	94.136	.23105	.11763	J955-19
102	J955-20	68.848	-.00631	.00760	.54909	.00296	.00165	.00166	41.881	.48539	.04722	J955-20
103	J955-21	57.263	-.00601	.01121	.42070	.00270	.00535	.00167	36.515	.09907	.03590	J955-21
104	J955-22	48.139	-.00527	.00705	.36425	.00242	.00296	.00133	33.697	.07715	.02949	J955-22
105	K411-01	.14859	.00078	.00009	.01290	-.00004	.00495	.00046	.77172	.00258	.00016	K411-01
106	K417-01	.26681	.00660	-.00205	.04910	.00007	.00861	.00389	1.8654	.01019	.00046	K417-01
107	BLANK	-565.28	-30.263	44.770	-9.4515	-.44000	-36.008	.19691	-3679.6	-6.1196	1.7290	BLANK
108	CCV10	4.6692	.47484	.47022	.47598	.46499	.50167	.48343	45.560	.46387	.47462	CCV10
109	CCB10	-.00629	-.00028	-.00053	-.00035	-.00001	-.00019	.00007	-.01801	-.00022	.00014	CCB10
110	IPK014WB	-.00308	.00016	-.00169	-.00024	-.00010	-.00012	-.00001	-.01285	-.00020	-.00007	IPK014WB
111	IPK014WL	10.517	5.4950	1.0543	1.0241	1.0273	1.2239*	1.0265	50.097	1.0175	1.0107	IPK014WL
112	IPK014WC	10.363	5.4457	1.0477	1.0354	1.0325	1.1922	1.0373	50.015	.99472	1.0192	IPK014WC
113	J386-06M	10.251	5.6581	1.1595	1.0684	1.0034	6.9559	1.0493	121.21	.96536	1.0339	J386-06M

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
114	J386-06S	10.230	5.6501	1.1560	1.0563	.99454	6.9701	1.0447	119.63	.96092	1.0256	J386-06S
115	J386-06A	10.044	5.4516	1.1411	1.0585	.96556	6.8973	1.0392	116.45	.95436	1.0189	J386-06A
116	J386-06	.01706	.00392	.02883	.03929	-.00044	5.9504	.00010	73.855	.00084	-.00036	J386-06
117	J386-06J	-.00043	.00282	.00445	.00698	-.00030	1.1190	.00004	14.894	.00019	-.00024	J386-06J
118	J386-05	.00666	.00186	.02468	.06306	-.00081	7.3078	.00013	113.49	.00116	.00103	J386-05
119	BLANK	-545.54	-37.120	41.452	-4.4312	.21805	-104.23	.10377	-1927.3	-6.5174	1.3245	BLANK
120	CCV11	5.4297	.55219*	.54110	.55609*	.53308	.58476*	.56346*	51.942	.53381	.55640*	CCV11
121	CCB11	-.00487	.00095	-.00130	-.00014	-.00013	.00296	.00010	.01534	-.00011	-.00010	CCB11
122	J386-07	.00650	-.00093	.03114	.11814	-.00085	7.7069	.00025	114.43	.00097	.00021	J386-07
123	K025-04	.01166	.00011	.24528	.62908	-.00044	1.6601	.00002	63.219	.00048	.00036	K025-04
124	K038-01	.00774	.00024	.00029	.21650	-.00039	1.5362	.00004	231.47	.00086	.00007	K038-01
125	K045-01	.01314	-.00130	-.00017	.23656	-.00004	.03878	.00006	69.045	.00484	-.00028	K045-01
126	K045-02	.04071	-.00042	.00130	.16705	-.00009	.01657	.00009	44.364	.00607	-.00039	K045-02
127	K045-03	.01720	-.00095	-.00133	.24173	-.00015	.03959	.00010	69.157	.00152	-.00034	K045-03
128	K023-02	-.00076	-.00134	.00982	.59182	-.00006	.06782	-.00001	101.64	.00052	-.00011	K023-02
129	K033-02	.00685	-.00200	.00025	.00036	-.00015	.00690	.00008	.20189	-.00002	-.00003	K033-02
130	BLANK	-799.82	-44.867	59.170	9.0930	-2.7278	-67.864	.18589	4927.8	-9.5795	1.3701	BLANK
131	CCV12	4.9069	.50106	.49713	.51511	.48841	.52944	.51961	48.195	.49122	.51077	CCV12
132	CCB12	.00693	.00059	-.00152	.00053	.00026	.00081	.00045	.09091	.00020	.00026	CCB12
133	ICSAF	467.62	.00280	-.00778	.00043	-.00006	.00808	.00597	451.70	.00008	.00035	ICSAF
134	ICSABF	462.70	1.0364	1.0146	.56042	.48777	.54336	1.0522	447.46	.47626	.50701	ICSABF
135	CCV13	4.9756	.50445	.49916	.51643	.48829	.53106	.51990	47.717	.48999	.51143	CCV13
136	CCB13	.00290	-.00006	-.00165	-.00039	-.00002	.00100	.00010	.06727	-.00019	-.00012	CCB13
137	K410-01	-.02285	.07350	.09533	1.7614	-.00030	5.1198	.00187	10.909	.34010	.00442	K410-01
138	BLANK	-2160.9	-90.428	170.53	-79.648	2.1325	-251.31	.24728	-29841.	-26.488	1.9084	BLANK

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ID8K014 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID
1	Blank	.00301	.00001	.00012	.00004	-.00001	.00000	-.00017	-.00139	.00001	.00019	Blank
2	S2	1.8113		.18753		.05729		.62906			.19096	S2
3	S5						.69897			.00489		S5
4	S8		.07459		.16292				2.0805			S8
5	ICV	.47755	5.0061	.50901	49.642	.49507	.51632	.51010	47.975	.50876	.50836	ICV
6	ICB	-.00008	-.00342	-.00068	-.03757	.00023	.00022	-.00032	.00582	-.00077	.00003	ICB
7	ICSAI	.00226	183.66	-.00992	497.54	.00127	-.00171	-.00028	.02455	.00505	-.00053	ICSAI
8	ICSABI	.47178	183.48	.94733	492.32	.47106	1.0609	.97241	81.125	1.0091	1.1114	ICSABI
9	CCV1	.46157	4.8462	.48436	49.683	.48009	.51959	.49480	47.805	.48775	.49047	CCV1
10	CCB1	.00017	-.00247	-.00033	-.06266	.00010	.00030	-.00014	.02708	-.00085	.00002	CCB1
11	IDL-01	.00014	.00106	.00002	.02100	.00154	.00010	.00051	.01179	-.00209	.00006	IDL-01
12	IDL-02	-.00002	-.00266	-.00085	-.04948	.00182	.00001	-.00021	-.00844	-.00225	.00006	IDL-02
13	IDL-03	.00002	-.00112	-.00054	-.00616	-.00016	-.00005	.00057	.00604	-.00250	.00016	IDL-03
14	IDL-04	.00001	-.00045	-.00045	.00252	.00169	-.00011	-.00023	.02381	-.00282	.00000	IDL-04
15	IDL-05	.00010	-.00023	-.00030	-.03515	.00132	.00000	.00031	-.01670	-.00224	.00006	IDL-05
16	IDL-06	.00011	-.00341	-.00110	-.01218	.00103	-.00003	-.00011	.00279	-.00182	-.00003	IDL-06
17	IDL-07	.00008	-.00412	-.00046	-.01267	.00095	-.00007	.00044	-.01056	-.00215	.00011	IDL-07
18	CCV2	.46651	4.8966	.48451	49.542	.47504	.52007	.49172	47.554	.49205	.48921	CCV2
19	CCB2	.00019	-.00225	-.00013	.02198	.00086	.00020	-.00031	.01997	.00076	.00002	CCB2
20	FeAl	.00023	1.4970	-.00028	-.03345	.00045	.00007	-.00050	-.02467	-.00174	-.00005	FeAl
21	BLANK	.00017	.03555	-.00050	.00913	.00135	.00005	-.00008	-.00236	-.00118	-.00007	BLANK
22	FeB	.00018	1.5449	-.00034	-.02720	.00009	-.00011	-.00048	.00805	-.00121	.00016	FeB
23	BLANK	.00042	.01391	.00024	-.06114	.00148	.00010	-.00003	-.01371	-.00081	.00003	BLANK
24	Cd	-.00001	.00046	.00011	-.03888	.00080	-.00010	-.00023	-.02589	-.00086	-.00021	Cd
25	BLANK	.00009	.01130	-.00062	-.02184	.00085	-.00005	-.00016	-.01220	-.00109	.00002	BLANK
26	BLANK	.00027	.00864	.00035	-.02564	.00194	.00007	-.00003	.00474	-.00134	-.00027	BLANK
27	CCV3	.46871	4.9215	.48703	49.662	.47550	.52259	.49438	47.867	.49553	.49610	CCV3
28	CCB3	-.00011	-.00321	-.00076	-.03905	.00012	.00019	-.00034	.04232	-.00126	.00019	CCB3
29	IPK028SB	.00003	.00149	-.00077	-.03007	-.00004	.00002	-.00042	-.02852	-.00051	-.00012	IPK028SB
30	IPK028SL	1.0041	10.422	1.0290	50.775	.99360	1.0885	1.0389	48.784	.98532	1.0088	IPK028SL
31	IPK028SC	.97112	9.9631	.99920	49.702	.96504	1.0613	1.0085	47.165	.95532	.95848	IPK028SC
32	K033-05M	1.0654	200.36	.92942	131.92	4.5949	.92562	1.0534	64.371	.85828	.88924	K033-05M
33	K033-05S	1.0292	203.29	.89249	130.57	4.6615	.88036	1.0178	63.391	.83608	.87240	K033-05S
34	K033-05A	1.1375	195.50	1.0207	130.46	4.8922	1.0451	1.1296	70.448	.96718	.99589	K033-05A
35	K033-05	.20626	196.16	.05615	86.935	4.1608	.00104	.16397	22.455	.00787	-.00418	K033-05
36	K033-05J	.04143	39.747	.01101	17.533	.83990	.00016	.03235	4.1240	.00144	-.00096	K033-05J
37	K033-03	.20456	195.96	.05114	86.910	4.0596	-.00001	.16453	24.080	.00761	-.00401	K033-03
38	BLANK	.00027	.01527	.00015	-.03354	.00084	.00012	.00001	.10107	.00054	.00006	BLANK
39	CCV4	.48981	5.0923	.50314	51.418	.48878	.53988	.50943	49.488	.50855	.50379	CCV4
40	CCB4	.00037	-.00099	-.00019	-.04865	.00041	.00025	-.00013	.06925	.00004	.00000	CCB4
41	K033-04	.21575	203.12	.05586	87.091	3.8687	.00022	.17490	30.115	.00939	-.00400	K033-04
42	K033-06	.21658	197.87	.04870	79.667	3.7250	.00431	.15991	21.310	.01016	-.00372	K033-06
43	K033-07	.35515	309.83	.07952	140.16	6.5310	.00037	.27405	37.010	.01634	-.00499	K033-07
44	K033-08	.35551	318.09	.07397	145.32	5.5463	-.00111	.29668	37.498	.01616	-.00681	K033-08
45	K033-09	.17091	178.40	.03594	77.410	3.9941	.00233	.14760	21.748	.00608	-.00428	K033-09
46	K033-10	.18228	196.64	.04188	85.048	4.0266	.00086	.16169	24.315	.00663	-.00582	K033-10
47	K033-11	.17976	179.54	.04087	74.884	3.8253	.00949	.15216	22.273	.00653	-.00451	K033-11
48	K033-12	.25290	227.08	.04264	98.952	3.3401	.00032	.20772	38.137	.01302	-.00480	K033-12
49	K033-13	.12931	188.66	.04106	84.709	3.5590	-.00036	.09527	51.181	.00530	-.00329	K033-13
50	BLANK	.00040	.01072	-.00047	-.01000	.00203	-.00001	.00013	.08280	-.00105	-.00019	BLANK
51	CCV5	.49338	5.0693	.49765	50.186	.47694	.53413	.50076	49.204	.49968	.50418	CCV5
52	CCB5	.00046	.00234	-.00049	-.01601	.00131	.00019	-.00011	.07434	-.00035	.00000	CCB5
53	K033-14	.44654	333.91	.10452	153.40	4.8221	-.00010	.33875	34.813	.01660	-.00829	K033-14
54	K033-15	.12775	147.31	.04121	73.589	3.2722	-.00058	.11642	19.158	.00158	-.00422	K033-15
55	K033-16	.31134	272.10	.08051	119.83	4.0399	.00006	.23673	35.509	.01370	-.00633	K033-16

56	K033-17	.14995	137.96	.04492	60.200	1.8791	.00319	.12723	21.450	.00806	-.00277	K033-17
57	K033-18	.12465	116.71	.02837	51.121	1.6902	.00002	.11032	17.894	.00562	-.00234	K033-18
58	K033-19	.22423	198.74	.08204	88.999	3.7375	-.00060	.20614	32.499	.01074	-.00394	K033-19
59	K033-20	.23907	213.25	.11944	96.169	4.2423	-.00115	.22169	32.481	.00909	-.00388	K033-20
60	K033-21	.21195	196.16	.06129	84.064	2.7350	-.00088	.17385	25.259	.00989	-.00361	K033-21
61	K033-22	.14972	163.45	.04254	61.976	2.1874	-.00004	.14472	25.197	.00712	-.00373	K033-22
62	BLANK	.00014	.01487	.00050	-.01686	.00159	-.00002	-.00008	.01323	-.00174	-.00011	BLANK
63	CCV6	.50806	5.1112	.50051	50.101	.47691	.53956	.50507	49.975	.50227	.50749	CCV6
64	CCB6	.00044	.00233	-.00072	-.03884	-.00018	.00019	-.00009	.01667	-.00033	.00033	CCB6
65	IPK029SB	.00045	.00195	-.00054	.00562	.00026	.00000	.00019	-.01198	-.00163	.00027	IPK029SB
66	IPK029SL	1.0274	10.200	1.0204	49.253	.96267	1.0908	1.0343	48.506	.96786	.97228	IPK029SL
67	IPK029SC	1.0164	10.138	1.0122	48.958	.95588	1.0738	1.0236	48.492	.96631	.97654	IPK029SC
68	K033-23A	1.0482	63.966	1.0130	70.241	1.7158	1.0580	1.0364	54.985	.96620	.96710	K033-23A
69	K033-23	.04971	59.933	.01907	24.565	.85925	.00172	.04539	7.0429	.00503	-.00141	K033-23
70	K033-23J	.00977	11.645	.00238	4.6849	.16726	.00030	.00837	1.3354	.00011	-.00040	K033-23J
71	J955-08A	1.1980	204.86	1.0450	143.46	3.9267	1.0499	1.1762	80.779	.96795	.96948	J955-08A
72	J955-08	.22909	203.34	.06713	98.264	3.1139	.00039	.20116	32.474	.01088	-.00555	J955-08
73	J955-08J	.04735	42.378	.01195	19.869	.63608	.00012	.03995	6.2678	.00085	-.00119	J955-08J
74	BLANK	-209.30	-37.067	-.22691	-11737.	-10.061	-.42103	-72.105	-785.94	-6.5539	-8.3800	BLANK
75	CCV7	.50922	5.0765	.50230	49.831	.47937	.54357	.50572	49.372	.50433	.49992	CCV7
76	CCB7	.00046	.00235	-.00103	-.00346	-.00045	.00037	-.00024	.01692	.00045	.00012	CCB7
77	IPK009SB	.00034	-.00224	-.00033	-.05079	.00056	.00005	-.00031	-.00936	-.00149	-.00007	IPK009SB
78	IPK009SL	1.0004	9.8687	.98977	47.252	.93352	1.0448	.99953	46.644	.93933	.94102	IPK009SL
79	IPK009SC	.99861	9.8483	.98637	47.180	.92582	1.0408	.99649	46.621	.93765	.94214	IPK009SC
80	J955-08M	1.1578	214.76	.97339	145.39	4.0242	.92846	1.1157	74.531	.83727	.91048	J955-08M
81	J955-08S	1.1543	212.50	.96571	142.29	4.0569	.91168	1.1014	74.065	.81162	.90170	J955-08S
82	J955-05	.18583	156.51	.06058	70.443	3.8001	.00017	.15436	21.195	.00502	-.00405	J955-05
83	J955-06	.19575	170.59	.06568	73.743	4.2356	.00007	.15858	22.509	.00620	-.00468	J955-06
84	J955-07	.26666	211.74	.09022	104.41	4.8888	-.00019	.18828	31.473	.00846	-.00420	J955-07
85	J955-09	.25600	201.89	.07709	95.910	3.2416	.00093	.20683	29.091	.01035	-.00503	J955-09
86	BLANK	466.43	-135.27	.09133	24703.	28.002	-.48198	-43.422	2166.1	-24.441	-5.5664	BLANK
87	CCV8	.51307	5.0737	.50575	49.925	.48304	.54529	.50857	50.273	.51469	.50667	CCV8
88	CCB8	.00045	.00497	-.00011	-.07374	.00018	.00033	-.00008	.04394	-.00106	-.00012	CCB8
89	J955-10	.15223	131.17	.04369	58.805	2.6766	.00050	.13831	23.967	.00916	-.00256	J955-10
90	J955-11	.29473	213.93	.14321	96.287	4.6255	-.00070	.22354	35.587	.00846	-.00465	J955-11
91	J955-12	.18246	136.00	.08130	65.061	3.3092	.00198	.12772	25.024	-.00071	-.00330	J955-12
92	J955-13	.21525	207.31	.08766	85.942	3.2307	.00069	.17486	34.550	.00873	-.00534	J955-13
93	J955-14	.08990	95.167	.03626	37.082	1.4987	.00083	.08320	13.328	.00576	-.00242	J955-14
94	J955-15	.06571	60.609	.01765	26.112	.89050	.00414	.05785	7.5976	.00435	-.00126	J955-15
95	J955-16	.05455	58.887	.02024	22.460	.76828	-.00006	.04670	7.5814	.00244	-.00159	J955-16
96	J955-17	.25909	223.62	.10250	102.89	4.0516	.00004	.23682	42.497	.00971	-.00451	J955-17
97	J955-18	.21460	198.87	.07628	88.307	2.8193	-.00041	.18456	30.676	.01034	-.00407	J955-18
98	BLANK	-194.47	2021.3	-5.3451	-10039.	-5.0515	-.44595	-44.512	-512.85	547.96	193.32	BLANK
99	CCV9	.51645	4.9970	.49855	49.370	.47779	.54241	.50416	50.123	.50334	.49915	CCV9
100	CCB9	.00010	-.00020	-.00064	-.05532	.00145	.00031	-.00010	.01059	-.00157	.00011	CCB9
101	J955-19	.24954	224.91	.08694	96.884	3.2591	.00306	.20862	33.463	.01206	-.00459	J955-19
102	J955-20	.11359	87.472	.02423	37.927	1.2250	.00116	.08135	14.799	.00432	-.00219	J955-20
103	J955-21	.07486	75.410	.02768	29.607	1.1470	.00142	.05952	10.545	.00319	-.00148	J955-21
104	J955-22	.06252	61.366	.02245	24.829	.85866	.00049	.04847	9.2729	.00330	-.00149	J955-22
105	J411-01	.21711	.86435	.00322	.20945	.00782	.00143	.06959	.07723	.00041	.00028	K411-01
106	K417-01	.24704	1.0996	.02671	.25051	.01843	.01768	.04484	.10607	.00046	.00066	K417-01
107	BLANK	-33.191	-7.0798	-.11496	-1290.1	2.9240	-.23929	-34.891	142.23	-10.593	-5.4760	BLANK
108	CCV10	.48910	4.7114	.46811	46.057	.44341*	.50720	.47279	47.234	.47416	.47070	CCV10
109	CCB10	.00018	.00091	-.00052	-.03970	-.00167	.00034	-.00024	-.01691	-.00002	-.00009	CCB10
110	IPK014WB	.00020	.00314	-.00067	-.01573	-.00003	.00010	-.00030	-.01635	-.00116	.00024	IPK014WB
111	IPK014WL	1.0812	10.680	1.0219	50.526	.96908	1.0487	1.0078	53.434	1.0647	.27214*	IPK014WL
112	IPK014WC	1.0665	10.495	1.0289	50.553	.97060	1.0700	1.0204	52.786	1.0446	.51279*	IPK014WC
113	J386-06M	.95541	12.459	.99803	225.54	1.0541	1.1731	1.0272	199.91	1.1285	1.1205	J386-06M

INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID
114	J386-06S	.96263	12.430	.99195	224.07	1.0457	1.1714	1.0205	199.23	1.1253	1.1169	J386-06S
115	J386-06A	.93301	12.261	.98949	219.61	1.0279	1.1484	1.0094	196.65	1.1086	1.0412	J386-06A
116	J386-06	.00061	2.4760	-.00044	177.52	.10726	.08132	.00155	146.03	-.00191	.00080	J386-06
117	J386-06J	.00024	.49049	-.00113	35.089	.02159	.01627	.00012	26.426	-.00008	-.00003	J386-06J
118	J386-05	.00011	1.5245	-.00144	327.75	.29240	.07351	.00280	274.67	.00087	.00024	J386-05
119	BLANK	-17.107	11.240	.86198	-881.89	6.0795	-.71558	-33.491	-712.28	-9.4318	-5.8505	BLANK
120	CCV11	.57870*	5.5356*	.54747	52.462	.50600	.59843*	.55265*	55.852*	.54051	.54420	CCV11
121	CCB11	.00033	.00396	-.00018	.00647	.00061	.00030	-.00025	.15972*	.00023	.00005	CCB11
122	J386-07	.00060	4.0224	-.00021	310.89	.17880	.07211	.00245	273.23	-.00016	.00014	J386-07
123	K025-04	.00143	3.3611	-.00028	61.504	.49090	.10917	.01075	51.248	-.00123	-.00023	K025-04
124	K038-01	.00138	.69748	-.00071	147.03	.04491	.00038	.01484	7.7989	-.00134	-.00039	K038-01
125	K045-01	.00030	.02249	-.00073	24.432	.00169	.00989	.00006	3.3383	-.00080	-.00023	K045-01
126	K045-02	.07870	.43211	.00401	10.139	.01172	.00499	.00104	7.6351	-.00212	-.00041	K045-02
127	K045-03	.00252	.05128	-.00061	24.699	.03546	.00875	.00088	4.6449	.00012	.00003	K045-03
128	K023-02	.00032	2.3420	-.00101	33.265	.20956	.00141	.00387	9.0801	-.00263	-.00007	K023-02
129	K033-02	.00120	.11997	-.00040	-.01102	.00194	.00024	.00409	.12609	-.00142	.00016	K033-02
130	BLANK	45.175	28.883	-.97477	2256.2	-5.9535	-.62600	-37.151	65.520	-16.164	-7.3107	BLANK
131	CCV12	.53103	4.9826	.49973	47.679	.45753	.54619	.50841	51.834	.49995	.49877	CCV12
132	CCB12	.00078	.02062	.00025	.04896	.00164	.00060	.00052	.13192*	-.00044	.00005	CCB12
133	ICSAF	.00305	187.97	-.00827	480.46	-.00032	-.00195	-.00053	.11668	.00904	-.00010	ICSAF
134	ICSABF	.53695	186.15	.98272	475.88	.44499	1.1114	1.0006	87.057	1.0052	1.0967	ICSABF
135	CCV13	.54003	5.0378	.50277	48.101	.45614	.54898	.50845	52.214	.49971	.49686	CCV13
136	CCB13	.00028	.00437	.00025	.01117	.00162	.00029	-.00001	.07967	-.00011	-.00008	CCB13
137	K410-01	33.620	.13731	1.3006	1.5275	.02020	.25061	.30819	71.692	.04714	.00571	K410-01
138	BLANK	-328.34	133.85	.78881	-12823.	10.952	-.75401	-47.850	-20464.	-14.226	-29.962	BLANK

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INDX	LSID	Na	Tl	V	Zn	LSID
1	Blank	.00344	-.00052	-.00017	.00178	Blank
2	S2		.13762	.14943		S2
3	S5				.85041	S5
4	S8	5.9980				S8
5	ICV	48.997	.48724	.52103	.52638	ICV
6	ICB	-.00673	.00059	.00002	-.00028	ICB
7	ICSAI	.09517	-.00084	-.00026	-.00515	ICSAI
8	ICSABI	80.237	.90340	.50649	1.0054	ICSABI
9	CCV1	48.657	.47022	.49992	.50487	CCV1
10	CCB1	-.00973	.00064	.00008	-.00056	CCB1
11	IDL-01	-.00625	.00193	-.00010	.00088	IDL-01
12	IDL-02	-.03085	.00094	.00006	.00011	IDL-02
13	IDL-03	-.03213	.00177	-.00005	.00102	IDL-03
14	IDL-04	-.03271	.00118	-.00013	.00003	IDL-04
15	IDL-05	-.02512	.00110	.00000	.00059	IDL-05
16	IDL-06	-.03023	.00117	.00016	.00550	IDL-06
17	IDL-07	-.03041	.00154	.00012	.00063	IDL-07
18	CCV2	48.154	.47058	.49481	.50564	CCV2
19	CCB2	-.01476	.00112	-.00011	-.00086	CCB2
20	FeAl	-.02721	.00052	.00000	.00745	FeAl
21	BLANK	-.01884	.00056	.00027	.00158	BLANK
22	FeB	-.03725	.00082	.00011	.01046	FeB
23	BLANK	-.01638	.00068	.00013	.00323	BLANK
24	Cd	-.03970	.00018	-.00004	-.00107	Cd
25	BLANK	.02643	.00032	.00027	.00265	BLANK
26	BLANK	13.683	.00087	.00029	.00316	BLANK
27	CCV3	48.487	.47388	.50147	.50667	CCV3
28	CCB3	-.01658	.00056	-.00009	-.00122	CCB3
29	IPK028SB	-.04323	.00063	-.00012	-.00033	IPK028SB
30	IPK028SL	50.060	1.0046	1.0331	1.0771	IPK028SL
31	IPK028SC	48.506	.97179	.98966	1.0437	IPK028SC
32	K033-05M	47.532	.84307	1.2707	1.4146	K033-05M
33	K033-05S	46.104	.80431	1.2585	1.3802	K033-05S
34	K033-05A	51.665	.91929	1.3795	1.4809	K033-05A
35	K033-05	2.1739	.00732	.43184	.49237	K033-05
36	K033-05J	.35862	.00150	.08370	.09854	K033-05J
37	K033-03	1.2091	.00777	.41486	.48858	K033-03
38	BLANK	245.77	-.00003	.00004	.01037	BLANK
39	CCV4	50.118	.48972	.50784	.53125	CCV4
40	CCB4	-.00306	.00048	-.00021	.00678	CCB4
41	K033-04	.96484	.00850	.43098	.52351	K033-04
42	K033-06	1.8267	.00620	.38179	.51219	K033-06
43	K033-07	4.8326	.00999	.68388	.70560	K033-07
44	K033-08	4.8786	.00711	.75934	.73659	K033-08
45	K033-09	4.2198	.00550	.57771	.40000	K033-09
46	K033-10	4.8853	.00556	.62148	.42721	K033-10
47	K033-11	3.7572	.00599	.43226	.42952	K033-11
48	K033-12	8.6579	.00726	.54013	.63421	K033-12
49	K033-13	10.982	.00565	.34210	.56326	K033-13
50	BLANK	-.02576	.00026	-.00006	.00112	BLANK
51	CCV5	49.593	.48543	.50456	.51704	CCV5
52	CCB5	-.01763	.00101	-.00003	.00288	CCB5
53	K033-14	17.080	.00920	.87018	.89112	K033-14
54	K033-15	8.4122	.00353	.30371	.32080	K033-15
55	K033-16	11.045	.00906	.68502	.73616	K033-16

56	K033-17	6.2109	.00527	.30292	.40460	K033-17
57	K033-18	6.2391	.00504	.24161	.37304	K033-18
58	K033-19	9.9399	.00800	.40380	.63999	K033-19
59	K033-20	9.8944	.00820	.43349	.72408	K033-20
60	K033-21	9.4038	.00650	.37983	.52135	K033-21
61	K033-22	7.3958	.00718	.39985	.46137	K033-22
62	BLANK	.22218	.00035	.00012	.00666	BLANK
63	CCV6	50.409	.49043	.50682	.52046	CCV6
64	CCB6	-.03830	.00015	.00003	-.00036	CCB6
65	IPK029SB	-.05436	.00129	-.00018	.00017	IPK029SB
66	IPK029SL	49.701	.99803	1.0120	1.0689	IPK029SL
67	IPK029SC	49.506	.98753	1.0141	1.0593	IPK029SC
68	K033-23A	52.453	.95647	1.1343	1.2082	K033-23A
69	K033-23	3.5669	.00211	.15866	.19026	K033-23
70	K033-23J	.63179	.00094	.02991	.03556	K033-23J
71	J955-08A	60.634	.94325	1.5236	1.6404	J955-08A
72	J955-08	11.120	.00875	.58779	.64189	J955-08
73	J955-08J	2.0923	.00203	.11942	.12750	J955-08J
74	BLANK	-41986.	11.787	3.5076	-143.95	BLANK
75	CCV7	49.792	.49488	.50573	.53093	CCV7
76	CCB7	-.03697	-.00011	-.00014	-.00038	CCB7
77	IPK009SB	-.04512	.00115	-.00004	.00062	IPK009SB
78	IPK009SL	48.032	.96916	.97560	1.0352	IPK009SL
79	IPK009SC	47.841	.96657	.97683	1.0332	IPK009SC
80	J955-08M	58.679	.86525	1.4705	1.5956	J955-08M
81	J955-08S	58.646	.85030	1.4958	1.5738	J955-08S
82	J955-05	.92695	.00668	.41988	.54217	J955-05
83	J955-06	.87723	.00773	.46751	.57402	J955-06
84	J955-07	1.5482	.00830	.51912	.60148	J955-07
85	J955-09	12.658	.00872	.54321	.64410	J955-09
86	BLANK	96887.	8.1016	3.6367	-87.221	BLANK
87	CCV8	50.658	.49620	.51500	.52624	CCV8
88	CCB8	-.02236	.00022	.00007	.00975	CCB8
89	J955-10	7.8129	.00900	.27269	.44103	J955-10
90	J955-11	9.8358	.00842	.48085	.76640	J955-11
91	J955-12	6.7194	.00468	.28475	.44125	J955-12
92	J955-13	7.9359	.00749	.54345	.57623	J955-13
93	J955-14	4.2365	.00535	.24566	.31752	J955-14
94	J955-15	3.1881	.00317	.13632	.19105	J955-15
95	J955-16	3.4755	.00267	.16163	.18513	J955-16
96	J955-17	7.4684	.01068	.49517	.76725	J955-17
97	J955-18	6.9663	.00733	.44477	.56743	J955-18
98	BLANK	-39639.	7.9373	-51.409	-88.236	BLANK
99	CCV9	50.574	.49374	.50752	.52020	CCV9
100	CCB9	-.05004	.00084	-.00013	-.00024	CCB9
101	J955-19	8.1551	.00748	.50042	.68963	J955-19
102	J955-20	4.5545	.00477	.22195	.31084	J955-20
103	J955-21	4.1661	.00386	.14845	.25391	J955-21
104	J955-22	4.1358	.00420	.12258	.19909	J955-22
105	K411-01	.35213	-.00052	.00113	.39883	K411-01
106	K417-01	.38469	.00022	.00311	.93381	K417-01
107	BLANK	-6430.6	6.4498	3.6936	-69.242	BLANK
108	CCV10	47.574	.46184	.47738	.49758	CCV10
109	CCB10	-.05069	.00062	.00001	-.00037	CCB10
110	IPK014WB	-.04745	.00027	.00003	-.00011	IPK014WB
111	IPK014WL	53.040	1.0145	1.0365	1.0644	IPK014WL
112	IPK014WC	52.834	1.0246	1.0207	1.0665	IPK014WC
113	J386-06M	1901.4	.92065	1.0206	1.1107	J386-06M

114	J386-06S	1884.2	.92014	1.0116	1.1057	J386-06S
115	J386-06A	1853.4	.90523	1.0001	1.0955	J386-06A
116	J386-06	1883.4	.00050	-.00034	.00677	J386-06
117	J386-06J	416.64	.00067	-.00031	.00192	J386-06J
118	J386-05	3572.0	.00017	-.00058	.39344	J386-05
119	BLANK	-5925.5	6.2767	3.2467	-68.528	BLANK
120	CCV11	56.875*	.54374	.54770	.57329*	CCV11
121	CCB11	.41499*	.00009	.00012	.00153	CCB11
122	J386-07	3576.4	.00002	-.00045	.36730	J386-07
123	K025-04	477.35	.00119	.00021	.00090	K025-04
124	K038-01	408.15	.00149	-.00045	.00177	K038-01
125	K045-01	32.479	.00065	.01273	.01360	K045-01
126	K045-02	27.540	.00052	.01268	.06036	K045-02
127	K045-03	31.483	.00046	.00415	.01959	K045-03
128	K023-02	33.681	.00133	-.00035	.00326	K023-02
129	K033-02	.49789	.00145	.00001	.00246	K033-02
130	BLANK	10818.	5.6473	5.3837	-74.239	BLANK
131	CCV12	52.158	.49432	.50753	.52362	CCV12
132	CCB12	.27340*	.00118	.00030	.00312	CCB12
133	ICSAF	.33402	-.00090	-.00083	-.00554	ICSAF
134	ICSABF	85.353	.94634	.49222	1.0404	ICSABF
135	CCV13	52.381	.49780	.50354	.52590	CCV13
136	CCB13	.14672*	.00082	-.00007	.00473	CCB13
137	K410-01	6830.1	-.04574	.08356	1.0916	K410-01
138	BLANK	-327600.	8.9282	17.155	-97.522	BLANK
INDX	LSID	Na	Tl	V	Zn	LSID

ID8K014 Section 3 of 3

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/17/07 16:15

End Date: 11/18/07 00:57

Comments:

IPK033WL, WC B↑
CCB2 ↑Na
CCB3 ↑Na
IPK019SB ↑Na
CCV4 Mn↓
CCV5 NO TS TH 11/19/07
CCV6 Cu↑, Na↑ CCB6 Na↑
CCV7 Cu↑ CCB7 Na↑
CCV8 Ca↓ Mg↓ Mn↓ CCB8 Na↑
CCV9 Cu↑ Mn↓ CCB9 Na↑
K410-01 OR in Na
J 356-05 OR in Na

Book #: AD8-003

Instrument No.: D8

Analytical Batch: 1D8K015

Analytical Sequence: S_6010K07(V11)

Method File: 6010K07(V11)

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	SM1B11.01.03
S3	NA
S4	NA
S5	SM1B11.01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B11.03.01
CCV	SM1B11.02.06
ICSA	SM1B10.93.03
ICSAB	SM1B10.95.05
CRI/MRL	

Analyzed By: TH / CPC

Date: 11/19/07

ID8K015054	K104-10	21:05	11/17/07	1.000
ID8K015055	K104-11	21:11	11/17/07	1.000
ID8K015056	BLANK	21:16	11/17/07	1.000
ID8K015057	CCV5	21:22	11/17/07	1.000
ID8K015058	CCB5	21:27	11/17/07	1.000
ID8K015059	K104-12	21:33	11/17/07	1.000
ID8K015060	K104-13	21:38	11/17/07	1.000
ID8K015061	K104-14	21:44	11/17/07	1.000
ID8K015062	K104-15	21:49	11/17/07	1.000
ID8K015063	K104-16	21:55	11/17/07	1.000
ID8K015064	K104-17	22:00	11/17/07	1.000
ID8K015065	K104-18	22:06	11/17/07	1.000
ID8K015066	BLANK	22:11	11/17/07	1.000
ID8K015067	CCV6	22:17	11/17/07	1.000
ID8K015068	CCB6	22:22	11/17/07	1.000
ID8K015069	IPK014WB Ag	22:28	11/17/07	1.000
ID8K015070	IPK014WL	22:33	11/17/07	1.000
ID8K015071	IPK014WC	22:39	11/17/07	1.000
ID8K015072	K038-01A	22:44	11/17/07	1.000
ID8K015073	K038-01	22:49	11/17/07	1.000
ID8K015074	K038-01J	22:55	11/17/07	5.000
ID8K015075	K023-02	23:01	11/17/07	1.000
ID8K015076	K033-02	23:06	11/17/07	1.000
ID8K015077	K025-04	23:12	11/17/07	1.000
ID8K015078	BLANK	23:17	11/17/07	1.000
ID8K015079	CCV7	23:23	11/17/07	1.000
ID8K015080	CCB7	23:28	11/17/07	1.000
ID8K015081	ICSAF	23:34	11/17/07	1.000
ID8K015082	ICSABF	23:39	11/17/07	1.000
ID8K015083	CCV8	23:45	11/17/07	1.000
ID8K015084	CCB8	23:50	11/17/07	1.000
ID8K015085	K045-01	23:56	11/17/07	1.000
ID8K015086	K045-02	00:01	11/18/07	1.000
ID8K015087	K045-03	00:07	11/18/07	1.000
ID8K015088	J386-05	00:12	11/18/07	5.000
ID8K015089	J386-06	00:18	11/18/07	5.000
ID8K015090	J386-06M	00:24	11/18/07	5.000
ID8K015091	J386-06S	00:29	11/18/07	5.000
ID8K015092	J386-07	00:35	11/18/07	5.000
ID8K015093	K410-01	00:40	11/18/07	20.000
ID8K015094	BLANK	00:46	11/18/07	1.000
ID8K015095	CCV9	00:51	11/18/07	1.000
ID8K015096	CCB9	00:57	11/18/07	1.000

SEQUENCE FILE : ID8K015

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K015001	Blank	16:15	11/17/07	1.000
ID8K015002	S2	16:20	11/17/07	1.000
ID8K015003	S5	16:25	11/17/07	1.000
ID8K015004	S8	16:31	11/17/07	1.000
ID8K015005	ICV	16:36	11/17/07	1.000
ID8K015006	ICB	16:42	11/17/07	1.000
ID8K015007	ICSAI	16:47	11/17/07	1.000
ID8K015008	ICSABI	16:53	11/17/07	1.000
ID8K015009	CCV1	16:58	11/17/07	1.000
ID8K015010	CCB1	17:04	11/17/07	1.000
ID8K015011	IPK033WB	17:09	11/17/07	1.000
ID8K015012	IPK033WL	17:15	11/17/07	1.000
ID8K015013	IPK033WC	17:20	11/17/07	1.000
ID8K015014	K212-01	17:25	11/17/07	1.000
ID8K015015	K117-21A	17:31	11/17/07	1.000
ID8K015016	K117-21	17:36	11/17/07	1.000
ID8K015017	K117-21J	17:42	11/17/07	5.000
ID8K015018	K117-22	17:48	11/17/07	1.000
ID8K015019	K117-23	17:53	11/17/07	1.000
ID8K015020	BLANK	17:59	11/17/07	1.000
ID8K015021	CCV2	18:04	11/17/07	1.000
ID8K015022	CCB2	18:09	11/17/07	1.000
ID8K015023	K117-24	18:15	11/17/07	1.000
ID8K015024	K117-25	18:21	11/17/07	1.000
ID8K015025	K117-26	18:26	11/17/07	1.000
ID8K015026	K117-27	18:32	11/17/07	1.000
ID8K015027	K117-37	18:37	11/17/07	1.000
ID8K015028	K117-38	18:43	11/17/07	1.000
ID8K015029	K117-39	18:49	11/17/07	1.000
ID8K015030	K117-40	18:54	11/17/07	1.000
ID8K015031	K117-41	19:00	11/17/07	1.000
ID8K015032	BLANK	19:05	11/17/07	1.000
ID8K015033	CCV3	19:11	11/17/07	1.000
ID8K015034	CCB3	19:16	11/17/07	1.000
ID8K015035	IPK019SB	19:22	11/17/07	1.000
ID8K015036	IPK019SL	19:27	11/17/07	1.000
ID8K015037	IPK019SC	19:33	11/17/07	1.000
ID8K015038	K104-01A	19:38	11/17/07	1.000
ID8K015039	K104-01	19:43	11/17/07	1.000
ID8K015040	K104-01J	19:49	11/17/07	5.000
ID8K015041	K104-01M	19:54	11/17/07	1.000
ID8K015042	K104-01S	20:00	11/17/07	1.000
ID8K015043	K104-02	20:05	11/17/07	1.000
ID8K015044	BLANK	20:11	11/17/07	1.000
ID8K015045	CCV4	20:16	11/17/07	1.000
ID8K015046	CCB4	20:21	11/17/07	1.000
ID8K015047	K104-03	20:27	11/17/07	1.000
ID8K015048	K104-04	20:33	11/17/07	1.000
ID8K015049	K104-05	20:38	11/17/07	1.000
ID8K015050	K104-06	20:43	11/17/07	1.000
ID8K015051	K104-07	20:49	11/17/07	1.000
ID8K015052	K104-08	20:54	11/17/07	1.000
ID8K015053	K104-09	21:00	11/17/07	1.000

SDG : 07K033 UNIT : % SUMMARY of ICV and CCV : ID8K015 DATE : 11/17/07 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	96	99	102	99	100	105	104	100	98	101	93	99	98	99	97	106	101	97	103	99	98	96	102	104
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	88	----	----	----	----	----	----	94	----	----	----	93	----	100	----	----	----	----	----	----	----	----	----	----
ICSABI	88	102	104	107	100	102	105	94	97	101	95	93	96	99	95	108	100	109	103	111	108	91	101	104
CCV1	95	97	100	97	99	103	102	99	96	99	92	97	97	98	96	104	99	96	100	97	97	94	100	102
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK033WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK033WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK033WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K212-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-21A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-21J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	96	98	100	99	97	104	102	98	96	100	97	98	98	96	94	106	100	100	102	98	102	95	100	102
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-37	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-38	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-39	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-40	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-41	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	95	96	98	100	94	102	102	95	95	100	102	96	97	92	90	106	100	103	99	96	104	95	99	102
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK019SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK019SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK019SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	95	97	97	100	94	103	102	94	95	100	105	97	97	92	89*	106	99	105	98	96	103	95	98	103
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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K104-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	-2557*	-1640*	3100*	-517*	165*	696*	22*	74*	-1048*	185*	-91*	601*	-93*	-3*	-1068*	15*	163*	388*	178*	-750*	-3263*	797*	560*	-181*
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	98	100	101	102	97	106	105	96	98	103	112*	101	100	95	92	109	102	109	102	99	106	97	101	106
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K023-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K025-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	97	99	99	101	95	105	103	94	96	101	112*	99	99	94	91	107	101	108	101	98	106	97	99	104
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAF	88	----	----	----	----	----	----	87	----	----	----	91	----	92	----	----	----	----	----	----	----	----	----	----
ICSABF	89	102	102	110	95	103	106	88	94	101	112	92	97	94	89	110	100	122*	103	110	116	92	97	104
CCV8	92	94	94	95	90	99	98	89*	90	96	107	93	94	89*	86*	101	95	103	95	92	100	91	93	98
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	96	98	98	100	94	104	101	94	95	99	113*	98	97	92	89*	105	99	109	100	97	106	95	99	102
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

SDG : 07K033 UNIT : UG/L

SUMMARY of CALIBRATION BLANKS : ID8K015 (WATER)

DATE : 11/17/07 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-1.70	-.740	-1.57	.180	.040	.510	.020	-4.13	-.010	-.120	-.140	-.520	.220	13.7	.150	.090	.100	49.1	-.270	-.130	-6.79	.330	-.110	-.190
ICSAI	----	-.600	-8.10	.470	-.110	-27.3	7.43	----	.260	.310	2.45	----	-10.1	----	.500	-2.01	-.160	71.6	6.26	-.190	108	.090	-.230	-3.69
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	22.1	.640	-.550	.200	.290	1.02	.260	121	.420	.230	.440	20.4	1.19	-32.3	1.15	.380	.970	43.7	-.090	-.050	37.1	1.18	.210	5.60
IPK033WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK033WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK033WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K212-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-21A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-21J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.88	-.760	-.640	.110	.120	.510	.020	3.66	.300	.050	.240	4.97	.120	5.65	1.04	.090	.170	209	.330	.140	1275	.820	.100	.780
K117-24	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-25	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-26	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-27	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-37	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-38	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-39	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-40	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K117-41	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	49.0	.680	.260	.510	.340	.830	.240	424	.750	.250	.970	146	.740	66.3	1.92	.270	.830	205	.780	.190	1756	.950	.370	16.4
IPK019SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK019SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK019SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-4.72	.340	.000	.010	.060	.890	.070	-4.12	-.070	.100	.130	3.31	.640	-37.1	.690	.150	.140	79.7	.760	.000	392	1.24	.010	-.260
K104-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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K104-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	-7.80	-.730	-.200	-.480	.050	.360	.010	-5.12	-.150	-.010	.070	1.54	.950	28.3	-.780	-.100	.020	38.9	-.210	-.150	212	.880	-.120	-.310
K104-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K104-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-7.94	-.680	-1.25	-.300	.090	.220	.060	-4.64	.030	-.130	.120	1.07	.920	21.9	-.440	.010	.080	69.2	-.090	.100	103	.930	-.030	-.370
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K023-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K025-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-9.91	-.520	-.630	-.270	.040	1.11	.000	.030	-.030	.050	.160	.520	1.17	3.51	.260	.150	-.140	66.0	-.290	-.080	186	.460	-.030	-.130
ICSAF	----	.150	-9.22	.460	-.060	-16.6	8.74	----	.170	.150	3.13	----	-9.20	----	-.190	-2.00	-.270	153	7.90	-.190	379	-2.35	-.360	-3.83
ICSABF	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-3.47	-.590	-.650	-.210	.180	1.16	.080	-4.92	.110	.010	.190	-.190	.660	-1.20	-.850	.160	.070	53.3	-.260	.020	198	1.21	-.200	-.300
K045-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K045-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-06S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
J386-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-4.82	-.010	-2.00	.200	-.060	1.32	.030	-9.46	-.050	.020	.400	.230	.320	-10.8	-.240	.160	-.130	87.0	.160	.110	416	.910	-.140	-.220

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8K015001			1	☐		Continue
2	0	Unk	S1		ID8K015002			1	☐		Continue
3	0	Unk	S2		ID8K015003			1	☐		Continue
4	0	Unk	S3		ID8K015004			1	☐		Continue
5	1	QC	ICV		ID8K015005			1	☒	ICV	Continue
6	2	QC	ICB		ID8K015006			1	☒	CCB1	Continue
7	3	QC	ICSAI		ID8K015007			1	☒	ICSA	Continue
8	4	QC	ICSABI		ID8K015008			1	☒	ICSAB	Continue
9	5	QC	CCV1		ID8K015009			1	☒	CCV	Continue
10	6	QC	CCB1		ID8K015010			1	☒	CCB1	Continue
11	7	QC	IPK033WB		ID8K015011			1	☒	CCB1	Continue
12	8	QC	IPK033WL	BT	ID8K015012			1	☒	LCS	Continue
13	9	QC	IPK033WC	BT	ID8K015013			1	☒	LCS	Continue
14	10	Unk	K212-01		ID8K015014			1	☐		Continue
15	11	Unk	K117-21A		ID8K015015			1	☐		Continue
16	12	Unk	K177-21		ID8K015016			1	☐		Continue
17	13	Unk	K177-21J		ID8K015017			1	☐		Continue
18	14	Unk	K177-22		ID8K015018			1	☐		Continue
19	15	Unk	K177-23		ID8K015019			1	☐		Continue
20	16	Unk	BLANK		ID8K015020			1	☐		Continue
21	17	QC	CCV2		ID8K015021			1	☒	CCV	Continue
22	18	QC	CCB2	NAT	ID8K015022			1	☒	CCB1	Continue
23	19	Unk	K177-24		ID8K015023			1	☐		Continue
24	20	Unk	K177-25		ID8K015024			1	☐		Continue
25	21	Unk	K177-26		ID8K015025			1	☐		Continue
26	22	Unk	K177-27		ID8K015026			1	☐		Continue
27	23	Unk	K177-37		ID8K015027			1	☐		Continue
28	24	Unk	K177-38		ID8K015028			1	☐		Continue
29	25	Unk	K177-39		ID8K015029			1	☐		Continue
30	26	Unk	K177-40		ID8K015030			1	☐		Continue
31	27	Unk	K177-41		ID8K015031			1	☐		Continue
32	28	Unk	BLANK		ID8K015032			1	☐		Continue
33	29	QC	CCV3		ID8K015033			1	☒	CCB1 CCV	Continue
34	30	QC	CCB3	NAT	ID8K015034			1	☒	CCV CCB1	Continue
35	31	QC	IPK019SB	NAT	ID8K015035			1	☒	CCB1	Continue
36	32	QC	IPK019SL		ID8K015036			1	☒	LCS	Continue
37	33	QC	IPK019SC		ID8K015037			1	☒	LCS	Continue
38	34	Unk	K104-01A		ID8K015038			1	☐		Continue
39	35	Unk	K104-01		ID8K015039			1	☐		Continue
40	36	Unk	K104-01J		ID8K015040			1	☐		Continue
41	37	Unk	K104-01M		ID8K015041			1	☐		Continue
42	38	Unk	K104-01S		ID8K015042			1	☐		Continue
43	39	Unk	K104-02		ID8K015043			1	☐		Continue
44	40	Unk	BLANK		ID8K015044			1	☐		Continue
45	41	QC	CCV4	MnL	ID8K015045			1	☒	CCV	Continue
46	42	QC	CCB4		ID8K015046			1	☒	CCB1	Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	Unk	K104-03		ID8K015047			1	☐		Continue
48	44	Unk	K104-04		ID8K015048			1	☐		Continue
49	45	Unk	K104-05		ID8K015049			1	☐		Continue
50	46	Unk	K104-06		ID8K015050			1	☐		Continue
51	47	Unk	K104-07		ID8K015051			1	☐		Continue
52	48	Unk	K104-08		ID8K015052			1	☐		Continue
53	49	Unk	K104-09		ID8K015053			1	☐		Continue
54	50	Unk	K104-10		ID8K015054			1	☐		Continue
55	51	Unk	K104-11		ID8K015055			1	☐		Continue
56	52	Unk	BLANK		ID8K015056			1	☐		Continue
57	53	QC	CCV5	NO IS	ID8K015057			1	☒	CCV	Continue
58	54	QC	CCB5		ID8K015058			1	☒	CCB1	Continue
59	55	Unk	K104-12		ID8K015059			1	☐		Continue
60	56	Unk	K104-13		ID8K015060			1	☐		Continue
61	57	Unk	K104-14		ID8K015061			1	☐		Continue
62	58	Unk	K104-15		ID8K015062			1	☐		Continue
63	59	Unk	K104-16		ID8K015063			1	☐		Continue
64	60	Unk	K104-17		ID8K015064			1	☐		Continue
65	61	Unk	K104-18		ID8K015065			1	☐		Continue
66	62	Unk	BLANK		ID8K015066			1	☐		Continue
67	63	QC	CCV6	Low ~~Not~~ ~~Not~~ Na ↑	ID8K015067			1	☒	CCV	Continue
68	64	QC	CCB6		ID8K015068			1	☒	CCB1	Continue
69	65	QC	IPK014WB		ID8K015069			1	☒	CCB1	Continue
70	66	QC	IPK014WL		ID8K015070			1	☒	LCS	Continue
71	67	QC	IPK014WC		ID8K015071			1	☒	LCS	Continue
72	68	Unk	K038-01A		ID8K015072			1	☐		Continue
73	69	Unk	K038-01		ID8K015073			1	☐		Continue
74	70	Unk	K038-01J		ID8K015074			1	☐		Continue
75	71	Unk	K023-02		ID8K015075			1	☐		Continue
76	72	Unk	K033-02		ID8K015076			1	☐		Continue
77	73	Unk	K025-04		ID8K015077			1	☐		Continue
78	74	Unk	BLANK		ID8K015078			1	☐		Continue
79	75	QC	CCV7	Low ~~Not~~ Na ↑	ID8K015079			1	☒	CCV	Continue
80	76	QC	CCB7		ID8K015080			1	☒	CCB1	Continue
81	77	QC	ICSAF		ID8K015081			1	☒	ICSA	Continue
82	78	QC	ICSABF		ID8K015082			1	☒	ICSAB	Continue
83	79	QC	CCV8	Low Mgl Mnl ~~Na~~ Na ↑	ID8K015083			1	☒	CCV	Continue
84	80	QC	CCB8		ID8K015084			1	☒	CCB1	Continue
85	81	Unk	K045-01		ID8K015085			1	☐		Continue
86	82	Unk	K045-02		ID8K015086			1	☐		Continue
87	83	Unk	K045-03		ID8K015087			1	☐		Continue
88	84	Unk	J386-05	5X	ID8K015088			1	☐		Continue
89	85	Unk	J386-06	5X	ID8K015089			1	☐		Continue
90	86	Unk	J386-06M	5X	ID8K015090			1	☐		Continue
91	87	Unk	J386-06S	5X	ID8K015091			1	☐		Continue
92	88	Unk	J386-07	5X	ID8K015092			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	Unk	K410-01	20X CR	ID8K015093			1	☐		Continue
94	90	Unk	BLANK		ID8K015094			1	☐		Continue
95	91	QC	CCV9	CCV Mn2 Act	ID8K015095			1	☒	CCV	Continue
96	92	QC	CCB9	Not	ID8K015096			1	☒	CCB1	Continue

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ID8K015 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00126	.00003	-.00002	.00044	-.00006	.00001	.00001	.00008	.00010	-.00018	Blank
2	S2				.82248	.73248	.09839	2.5079		.16465	.69835	S2
3	S5		.00819	.00489								S5
4	S8	.26435							1.5001			S8
5	ICV	4.8007	.49470	.50936	.49380	.50023	.52382	.51790	50.138	.49053	.50522	ICV
6	ICB	-.00170	-.00074	-.00157	.00018	.00004	.00051	.00002	-.00413	-.00001	-.00012	ICB
7	ICSAI	441.34	-.00060	-.00810	.00047	-.00011	-.02726	.00743	472.34	.00026	.00031	ICSAI
8	ICSABI	441.15	1.0203	1.0396	.53461	.49863	.51082	1.0525	468.76	.48558	.50534	ICSABI
9	CCV1	4.7323	.48479	.49784	.48614	.49351	.51346	.50854	49.333	.48046	.49602	CCV1
10	CCB1	.02213	.00064	-.00055	.00020	.00029	.00102	.00026	.12146*	.00042	.00023	CCB1
11	IPK033WB	.00572	-.00157	-.00001	-.00002	.00009	.00004	.00003	.03800	.00009	-.00004	IPK033WB
12	IPK033WL	10.159	5.3985	1.0980	1.0018	1.0549	1.2382*	1.0399	51.845	1.0212	1.0067	IPK033WL
13	IPK033WC	10.136	5.4014	1.0846	.98953	1.0409	1.2407*	1.0244	51.254	1.0163	.99653	IPK033WC
14	K212-01	.01359	.00460	.00887	.07902	.00007	.27978	.00021	113.46	.00082	.00011	K212-01
15	K117-21A	25.440	6.2569	1.9911	3.0268	.92012	2.0357	1.0514	95.855	.81840	1.1324	K117-21A
16	K117-21	12.499	-.02550	.52872	2.1364	.01918	.77250	.04372	62.498	.04659	.14784	K117-21
17	K117-21J	1.6965	-.00212	.07892	.39367	.00409	.13644	.00181	14.891	.01143	.02872	K117-21J
18	K117-22	21.673	-.00207	.01318	1.0952	.00527	.01406	.00159	98.033	.00402	.00476	K117-22
19	K117-23	17.111	-.00127	.01970	1.9056	.00498	.01328	.01012	98.245	.00203	.14308	K117-23
20	BLANK	.00633	.00026	-.00103	-.00023	.00014	.00041	-.00003	.00252	.00007	-.00016	BLANK
21	CCV2	4.8075	.49236	.50172	.49657	.48730	.51798	.51204	48.802	.48024	.50160	CCV2
22	CCB2	-.00188	-.00076	-.00064	.00011	.00012	.00051	.00002	.00366	.00030	.00005	CCB2
23	K117-24	19.022	-.01897	.07182	.22078	.00273	.77785	.03920	212.58	.00400	.57578	K117-24
24	K117-25	3.8705	-.00226	.00338	.15085	.00103	.01567	.00040	9.2610	.00345	.00171	K117-25
25	K117-26	3.2999	.00000	.00410	.17493	.00110	.01784	.00222	9.6602	.00898	.00425	K117-26
26	K117-27	5.1341	-.01887	.03893	1.1078	.00082	.86479	.00406	18.427	.01540	.02514	K117-27
27	K117-37	.48841	-.02030	.01161	.01902	.00009	.89490	.00033	1.0081	.00575	.00143	K117-37
28	K117-38	.01607	.00035	.00012	.00250	.00009	.00974	.00195	.56762	.00095	.00022	K117-38
29	K117-39	.00499	.00110	-.00021	.00048	.00018	.01150	.00004	.06898	.00068	.00010	K117-39
30	K117-40	.03037	-.00191	-.00020	.00257	.00002	.00835	.00039	.24322	.00158	.00010	K117-40
31	K117-41	.04569	-.00108	-.00010	.00251	.00020	.01708	.00034	.25832	.00101	.00007	K117-41
32	BLANK	-.00476	-.00067	-.00127	.00029	.00024	.00015	.00000	.00580	.00002	.00000	BLANK
33	CCV3	4.7454*	.48119*	.49040*	.50232*	.47170*	.50928*	.51174*	47.513*	.47287*	.50017*	CCV3
34	CCB3	.04903*	.00068*	.00026*	.00051*	.00034*	.00083*	.00024*	.42380*	.00075*	.00025*	CCB3
35	IPK019SB	-.00446	-.00188	.00110	.00017	.00003	.00009	-.00002	.00818	.00018	.00002	IPK019SB
36	IPK019SL	9.5028	4.9340	.98824	1.0081	.98093	1.0524	1.0258	48.053	.95991	1.0134	IPK019SL
37	IPK019SC	9.5259	4.9280	.97829	1.0066	.98135	1.0536	1.0200	48.101	.96454	1.0099	IPK019SC
38	K104-01A	121.64	4.6308	1.0138	2.2249	.93587	1.0048	1.0074	84.213	1.0146	1.0920	K104-01A
39	K104-01	113.33	-.02523	.06833	1.2630	.00341	-.01317	.00779	39.156	.10716	.10385	K104-01
40	K104-01J	25.016	-.00636	.01462	.26053	.00073	-.00369	.00114	8.3400	.02307	.02105	K104-01J
41	K104-01M	111.91	2.1942	.95837	2.0876	.91630	.91765	.97666	80.846	.95565	1.0473	K104-01M
42	K104-01S	100.28	2.2864	.94069	1.9318	.89915	.91864	.95426	75.482	.94334	1.0194	K104-01S
43	K104-02	115.01	-.02737	.06443	1.3174	.00349	-.00904	.00785	39.942	.10959	.10115	K104-02
44	BLANK	.16933	.00830	-.01099	.00789	-.00022	.01357	.00006	3.4603	.00200	-.00049	BLANK
45	CCV4	4.7348	.48390	.48533	.49790	.46877	.51295	.50875	46.867	.47570	.49880	CCV4
46	CCB4	-.00472	.00034	.00000	.00001	.00006	.00089	.00007	-.00412	-.00007	.00010	CCB4
47	K104-03	125.58	-.03423	.08684	1.2907	.00459	-.01507	.00952	42.903	.13598	.10988	K104-03
48	K104-04	36.963	-.00715	.01562	.32534	.00095	-.00509	.00283	22.443	.06868	.02252	K104-04
49	K104-05	49.469	-.01043	.02905	.25937	.00115	-.00155	.00295	15.117	.10211	.02662	K104-05
50	K104-06	77.208	-.01464	.04733	.34899	.00179	-.00938	.00604	23.564	.13981	.04786	K104-06
51	K104-07	48.389	-.00948	.06792	.26520	.00143	-.01303	.00346	19.656	.08646	.03361	K104-07
52	K104-08	98.610	-.01680	.07329	.38681	.00322	-.01892	.00677	37.427	.15773	.06216	K104-08
53	K104-09	126.44	-.02077	.22869	.53188	.00566	-.01125	.00839	38.489	.25884	.09430	K104-09

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
54	K104-10	76.961	-.01567	.07325	.36207	.00277	-.01714	.00522	25.279	.13544	.08922	K104-10
55	K104-11	119.28	-.02682	.09394	1.2175	.00367	-.01078	.00823	41.547	.12519	.10151	K104-11
56	BLANK	.04958	.00219	-.00401	.00266	.00022	.00499	-.00013	1.2426	.00061	-.00024	BLANK
57	CCV5	-127.86*	-8.2024*	15.501*	-2.5843*	.82662*	3.4778*	.11172*	36.840*	-5.2386*	.92467*	CCV5
58	CCB5	-.00780	-.00073	-.00020	-.00048	.00005	.00036	.00001	-.00512	-.00015	-.00001	CCB5
59	K104-12	90.020	-.01935	.06918	.82628	.00236	-.01099	.00538	29.463	.10777	.06955	K104-12
60	K104-13	116.07	-.02667	.13767	1.3581	.00509	-.00319	.00728	21.041	.14126	.10496	K104-13
61	K104-14	119.40	-.02873	.12308	1.3064	.00484	-.00246	.00714	23.186	.15202	.09452	K104-14
62	K104-15	35.257	-.01241	.32809	.47280	.00176	.01730	.03450	187.19	.97153	.27655	K104-15
63	K104-16	67.968	-.00893	.02426	.36110	.00128	-.01325	.00437	24.910	.20792	.04084	K104-16
64	K104-17	48.810	-.00962	.00966	.31428	.00097	-.01009	.00373	17.453	.09047	.03030	K104-17
65	K104-18	67.632	-.01231	.08322	.31781	.00162	-.01357	.00635	37.002	.11168	.04122	K104-18
66	BLANK	-.00673	-.00080	-.00096	-.00018	.00022	.00023	-.00001	.00008	.00007	.00015	BLANK
67	CCV6	4.8871	.50196	.50623	.51191	.48511	.53023	.52396	48.225	.49023	.51320	CCV6
68	CCB6	-.00794	-.00068	-.00125	-.00030	.00009	.00022	.00006	-.00464	.00003	-.00013	CCB6
69	IPK014WB	-.00792	-.00184	.00021	-.00003	.00011	.00003	-.00006	.01297	.00005	.00005	IPK014WB
70	IPK014WL	9.4544	4.9173	.97264	1.0014	.98575	1.0355	1.0304	46.973	.94091	1.0164	IPK014WL
71	IPK014WC	9.3868	4.9062	.96628	.99561	.98039	1.0344	1.0172	47.262	.93842	1.0056	IPK014WC
72	K038-01A	9.9251	5.2057	1.0496	1.2014	.93699	2.6218	1.0173	265.00	.92427	.99112	K038-01A
73	K038-01	.02595	.00092	.00034	.21128	.00001	1.5097	.00015	225.96	.00103	.00021	K038-01
74	K038-01J	-.00378	.00104	.00005	.04264	.00018	.28658	.00014	47.068	.00052	.00005	K038-01J
75	K023-02	-.00037	-.00244	.01039	.59141	.00020	.06704	.00003	102.49	.00071	.00000	K023-02
76	K033-02	.00610	-.00146	.00059	.00009	.00009	.00645	-.00002	.18563	.00023	-.00002	K033-02
77	K025-04	.01614	-.00183	.24871	.62070	-.00004	1.6852	.00004	62.354	.00061	.00024	K025-04
78	BLANK	-.00072	.00011	-.00004	.00019	.00023	.01045	.00005	.07334	.00007	.00008	BLANK
79	CCV7	4.8721	.49644	.49535	.50489	.47701	.52286	.51659	47.123	.47866	.50566	CCV7
80	CCB7	-.00991	-.00052	-.00063	-.00027	.00004	.00111	.00000	.00003	-.00003	.00005	CCB7
81	ICSAF	438.88	.00015	-.00922	.00046	-.00006	-.01659	.00874	437.33	.00017	.00015	ICSAF
82	ICSABF	444.90	1.0249	1.0213	.55247	.47681	.51555	1.0569	441.69	.47042	.50672	ICSABF
83	CCV8	4.5914	.46991	.46827	.47734	.45152	.49266	.48777	44.606*	.45146	.47772	CCV8
84	CCB8	-.00347	-.00059	-.00065	-.00021	.00018	.00116	.00008	-.00492	.00011	.00001	CCB8
85	K045-01	.01920	-.00265	.00008	.23067	-.00003	.03408	.00005	67.605	.00493	-.00032	K045-01
86	K045-02	.04658	-.00105	.00176	.16259	.00013	.01360	.00010	42.936	.00592	-.00017	K045-02
87	K045-03	.01731	-.00171	-.00001	.22993	.00015	.03560	.00008	65.722	.00160	-.00016	K045-03
88	J386-05	.00495	-.00174	.00290	.01237	.00003	1.3470	.00002	23.162	.00052	-.00002	J386-05
89	J386-06	.00214	-.00058	.00506	.00826	.00002	1.1233	.00002	14.890	.00015	-.00019	J386-06
90	J386-06M	1.9458	1.0494	.21282	.20723	.19332	1.2847	.20829	23.846	.19015	.20354	J386-06M
91	J386-06S	1.9704	1.0696	.21626	.20723	.19473	1.3197	.20911	24.118	.19561	.20514	J386-06S
92	J386-07	.00186	-.00042	.00513	.02282	-.00006	1.4473	.00004	23.485	.00053	-.00014	J386-07
93	K410-01	.00407	.00312	.00212	.07845	.00012	.21887	.00013	.68697	.01972	.00006	K410-01
94	BLANK	.04995	.00160	-.00374	.00304	.00037	.00810	-.00002	1.3681	.00074	-.00031	BLANK
95	CCV9	4.7862	.49057	.49197	.50102	.46988	.51812	.50692	46.936	.47708	.49643	CCV9
96	CCB9	-.00482	-.00001	-.00200	.00020	-.00006	.00132	.00003	-.00946	-.00005	.00002	CCB9

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INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID
1	Blank	.00308	-.00002	-.00003	-.00001	.00003	.00001	-.00043	-.00153	.00001	.00015	Blank
2	S2	1.9557		.19118		.05342		.64218			.19983	S2
3	S5						.72524			.00486		S5
4	S8		.07286		.14961				2.2888			S8
5	ICV	.46338	4.9443	.49133	49.541	.48442	.52965	.50454	48.336	.51291	.49457	ICV
6	ICB	-.00014	-.00052	.00022	.01365	.00015	.00009	.00010	.04905	-.00027	-.00013	ICB
7	ICSAI	.00245	185.79	-.01006	500.73	.00050	-.00201	-.00016	.07165	.00626	-.00019	ICSAI
8	ICSABI	.47305	185.98	.96328	495.49	.47276	1.0841	.99823	81.608	1.0318	1.1148	ICSABI
9	CCV1	.46150	4.8616	.48455	49.044	.47920	.52204	.49583	47.853	.50102	.48506	CCV1
10	CCB1	.00044	.02040	.00119	-.03226	.00115	.00038	.00097	.04369	-.00009	-.00005	CCB1
11	IPK033WB	.00021	.00362	.00066	.02794	.00091	.00004	.00049	-.01886	-.00224	.00032	IPK033WB
12	IPK033WL	.96990	10.624	1.0098	51.272	1.0003	1.0061	1.0081	51.134	1.1496	1.0655	IPK033WL
13	IPK033WC	.97115	10.583	1.0003	50.490	.98741	1.0038	.99711	51.078	1.1309	1.0646	IPK033WC
14	K212-01	.00120	.02325	-.00011	58.299	.22378	.01410	.00127	3.4199	-.00214	-.00026	K212-01
15	K117-21A	.83849	233.15	.96191	40.882	10.114	1.2605	1.2290	114.05	2.0045	1.6143	K117-21A
16	K117-21	.09350	244.99	.10778	7.6760	9.9071	.11636	.28272	28.731	.06741	.01396	K117-21
17	K117-21J	.02002	59.826	.02178	1.9419	2.1624	.02066	.05671	5.1321	.01081	.00132	K117-21J
18	K117-22	.02613	5.5000	.01613	11.478	.47250	.00038	.01695	5.4527	-.00132	-.00022	K117-22
19	K117-23	.08194	4.8888	.19530	10.608	19.572	.01139	.26208	4.7317	-.00523	.00298	K117-23
20	BLANK	.00027	.00173	.00040	.03482	-.00129	.00023	-.00014	.35111	-.00036	-.00005	BLANK
21	CCV2	.48483	4.8770	.48847	47.837	.46891	.52841	.49902	50.028	.50820	.48805	CCV2
22	CCB2	.00024	.00497	.00012	.00565	.00104	.00009	.00017	.20930*	.00033	.00014	CCB2
23	K117-24	.15680	81.703	.09712	26.193	52.668	.10325	1.0078	40.972	.04305	.03167	K117-24
24	K117-25	.00882	1.7088	.01000	1.2569	.19093	.00055	.00276	2.3722	-.00124	.00022	K117-25
25	K117-26	.00618	1.3968	.05557	1.0716	.54963	.00103	.00500	1.9014	-.00197	.00092	K117-26
26	K117-27	.02281	18.409	.04011	2.3063	3.0291	.01314	.02179	33.871	.06105	.02929	K117-27
27	K117-37	.00074	.11786	.00321	.03352	.00271	.00441	.00655	25.117	.06366	.12245	K117-37
28	K117-38	.00253	.13561	.04412	.07913	.00235	.00002	.00117	.54055	-.00008	.00126	K117-38
29	K117-39	.00084	.11459	.00173	-.04530	.00054	.00006	.00055	.40716	-.00118	.00072	K117-39
30	K117-40	.00213	.44853	.00811	.00056	.01056	.00005	.00212	.28956	-.00217	.00055	K117-40
31	K117-41	.00351	.04351	.00739	.02527	.00949	-.00001	.00101	.24789	-.00273	.00043	K117-41
32	BLANK	.00023	.00265	.00075	-.02336	-.00008	-.00004	.00000	.18366	-.00153	-.00014	BLANK
33	CCV3	.51004*	4.8206*	.48548*	46.213*	.44851*	.52824*	.49851*	51.615*	.49473*	.47876*	CCV3
34	CCB3	.00097*	.14645*	.00074*	.06633*	.00192*	.00027*	.00083*	.20459*	.00078*	.00019*	CCB3
35	IPK019SB	-.00008	-.00045	-.00001	-.00085	-.00166	-.00004	.00045	.06855	-.00109	.00043	IPK019SB
36	IPK019SL	1.0694	9.9482	.98964	45.897	.90925	1.0514	1.0100	52.070	.97705	.96495	IPK019SL
37	IPK019SC	1.0742	9.9899	.98845	46.053	.90563	1.0495	1.0066	52.051	.96596	.96577	IPK019SC
38	K104-01A	1.1766	170.66	1.0231	101.99	3.6300	1.0343	1.0576	106.84	.93591	.93526	K104-01A
39	K104-01	.12992	163.03	.06542	58.490	2.8215	.00067	.08435	54.500	.01069	-.00341	K104-01
40	K104-01J	.02771	35.694	.01306	12.313	.59315	.00007	.01728	11.290	.00006	-.00079	K104-01J
41	K104-01M	1.1121	156.73	.98331	96.551	2.5555	.97682	1.0250	99.628	.88877	.88278	K104-01M
42	K104-01S	1.0821	139.35	.95977	88.991	2.2633	.95582	.99650	93.083	.88044	.87887	K104-01S
43	K104-02	.12013	165.23	.08506	59.247	1.6358	.00076	.08625	57.244	.00974	-.00366	K104-02
44	BLANK	.02963	.04404	.00092	1.4218	.00122	.00024	.03117	.51328	.00498	.00103	BLANK
45	CCV4	.52580	4.8703	.48692	46.059	.44650*	.52860	.49585	52.262	.49080	.48150	CCV4
46	CCB4	.00013	.00331	.00064	-.03707	.00069	.00015	.00014	.07971	.00076	.00000	CCB4
47	K104-03	.13172	194.45	.05384	66.190	2.1718	.00104	.08675	49.851	.01001	-.00496	K104-03
48	K104-04	.07799	63.291	.05412	20.138	.70747	.00116	.04064	9.8182	.00453	-.00122	K104-04
49	K104-05	.10102	79.247	.02944	24.224	.70001	.00256	.06611	11.933	.00681	-.00185	K104-05
50	K104-06	.13891	136.62	.04639	42.571	1.3133	.01057	.09280	25.128	.01100	-.00258	K104-06
51	K104-07	.11697	98.772	.03643	29.163	1.1485	.00510	.06917	9.6322	.00923	-.00156	K104-07
52	K104-08	.22924	171.28	.16427	56.269	1.8018	.02368	.17064	20.858	.02124	-.00223	K104-08
53	K104-09	.34280	208.25	.10043	67.498	2.3601	.01368	.24892	30.541	.02069	-.00255	K104-09

INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID
54	K104-10	.15241	133.73	.05264	44.386	1.6962	.00159	.13527	21.133	.00927	-.00225	K104-10
55	K104-11	.22376	169.92	.05879	58.715	3.8552	.00605	.11372	57.359	.01183	-.00346	K104-11
56	BLANK	.01083	.01353	.00026	.45608	.00008	.00006	.01172	.14443	.00087	.00049	BLANK
57	CCV5	-.45624*	30.032*	-.46457*	-1.4317*	-5.3400*	.07486*	.81415*	193.90*	.88972*	-3.7489*	CCV5
58	CCB5	.00007	.00154	.00095	.02826	-.00078	-.00010	.00002	.03891	-.00021	-.00015	CCB5
59	K104-12	.16463	132.05	.03869	44.231	2.2260	.00521	.07979	39.931	.00904	-.00269	K104-12
60	K104-13	.08016	168.36	.03882	44.210	4.0247	.00198	.08629	49.385	.01141	-.00488	K104-13
61	K104-14	.08945	166.76	.03479	44.995	3.3837	.00405	.08646	49.698	.00982	-.00436	K104-14
62	K104-15	4.5721	669.32	1.1211	32.332	4.5259	.09374	.53058	9.3888	.04467	.00056	K104-15
63	K104-16	.19476	120.62	.05286	37.645	1.1021	.00510	.08021	14.969	.01258	-.00205	K104-16
64	K104-17	.09303	109.56	.04490	27.873	1.1794	.00612	.06446	10.401	.00706	-.00192	K104-17
65	K104-18	.18986	171.59	.06239	37.303	1.2970	.01778	.07197	20.191	.01440	-.00236	K104-18
66	BLANK	.00024	.01077	.00008	-.01648	-.00063	.00000	-.00007	.03450	-.00022	-.00006	BLANK
67	CCV6	.55831*	5.0368	.50091	47.640	.46046	.54329	.51137	54.265	.51250	.49459	CCV6
68	CCB6	.00012	.00107	.00092	.02190	-.00044	.00001	.00008	.06917	-.00009	.00010	CCB6
69	IPK014WB	-.00004	.00446	.00028	-.01830	.00017	-.00002	.00031	-.00849	-.00162	.00005	IPK014WB
70	IPK014WL	1.1160	9.9605	.99566	46.089	.90756	1.0641	1.0144	52.424	.96197	.94379	IPK014WL
71	IPK014WC	1.1228	9.8856	.98689	45.995	.90334	1.0521	1.0024	52.663	.95822	.94111	IPK014WC
72	K038-01A	1.0320	10.349	.97412	186.38	.92120	1.0603	.99369	67.628	1.0445	.93897	K038-01A
73	K038-01	.00148	.68914	.00058	142.34	.04373	.00054	.01502	7.7772	-.00144	.00072	K038-01
74	K038-01J	.00107	.14229	-.00044	28.746	.00990	.00020	.00355	1.4220	-.00110	.00005	K038-01J
75	K023-02	.00078	2.3353	-.00011	32.774	.20629	.00133	.00424	9.4557	-.00185	.00007	K023-02
76	K033-02	.00119	.12455	.00019	.03373	.00018	.00015	.00432	.10845	-.00148	.00006	K033-02
77	K025-04	.00166	3.3499	.00026	59.553	.48360	.10754	.01124	54.455	.00057	-.00035	K025-04
78	BLANK	.00069	.01579	.00064	.00482	.00029	.00005	.00031	.12519	.00016	.00016	BLANK
79	CCV7	.55912*	4.9431	.49419	46.751	.45287	.53743	.50384	54.122	.50319	.48795	CCV7
80	CCB7	.00016	.00052	.00117	.00351	.00026	.00015	-.00014	.06603	-.00029	-.00008	CCB7
81	ICSAF	.00313	182.31	-.00920	462.04	-.00019	-.00200	-.00027	.15284	.00790	-.00019	ICSAF
82	ICSABF	.55988	184.33	.96625	468.50	.44333	1.1014	1.0004	91.493*	1.0258	1.0951	ICSABF
83	CCV8	.53329	4.6719	.46758	44.258*	.42900*	.50734	.47635	51.317	.47566	.45876	CCV8
84	CCB8	.00019	-.00019	.00066	-.00120	-.00085	.00016	.00007	.05334	-.00026	.00002	CCB8
85	K045-01	.00069	.02767	-.00010	23.336	.00142	.00959	.00049	3.2716	-.00035	-.00014	K045-01
86	K045-02	.08182	.42162	.00431	9.7547	.01009	.00474	.00125	7.7521	-.00098	-.00031	K045-02
87	K045-03	.00258	.05087	-.00017	23.352	.03414	.00822	.00108	4.5580	-.00080	-.00035	K045-03
88	J386-05	.00021	.30272	.00010	62.770	.05718	.01417	.00030	53.530	-.00046	-.00016	J386-05
89	J386-06	.00040	.49457	.00079	33.804	.01984	.01571	.00051	28.592	.00039	-.00014	J386-06
90	J386-06M	.21865	2.4993	.19646	41.830	.20063	.22879	.20466	39.544	.20481	.19694	J386-06M
91	J386-06S	.22097	2.5428	.19848	41.967	.20342	.22944	.20548	40.186	.20951	.20176	J386-06S
92	J386-07	.00053	.83037	.00002	60.715	.03501	.01440	.00066	53.808	.00008	-.00015	J386-07
93	K410-01	1.8742	.00391	.07137	.08752	.00155	.01161	.01624	1.7654	.00125	.00028	K410-01
94	BLANK	.01361	.00335	.00047	.61340	.00261	.00014	.01309	.29953	.00016	.00059	BLANK
95	CCV9	.56343*	4.8910	.48529	46.014	.44574*	.52664	.49569	54.674	.49875	.48356	CCV9
96	CCB9	.00040	.00023	.00032	-.01077	-.00024	.00016	-.00013	.08703	.00016	.00011	CCB9

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INDX	LSID	Na	Tl	V	Zn	LSID
1	Blank	.00690	-.00055	-.00015	.00070	Blank
2	S2		.14401	.15125		S2
3	S5				.83140	S5
4	S8	6.6061				S8
5	ICV	48.873	.47904	.51177	.51939	ICV
6	ICB	-.00679	.00033	-.00011	-.00019	ICB
7	ICSAI	.10841	.00009	-.00023	-.00369	ICSAI
8	ICSABI	80.789	.91138	.50539	1.0365	ICSABI
9	CCV1	48.306	.47171	.50151	.50958	CCV1
10	CCB1	.03715	.00118	.00021	.00560	CCB1
11	IPK033WB	-.03197	.00137	-.00001	.00152	IPK033WB
12	IPK033WL	50.941	.98037	1.0525	1.0622	IPK033WL
13	IPK033WC	50.765	.98074	1.0437	1.0508	IPK033WC
14	K212-01	276.05	.00126	.03072	.00541	K212-01
15	K117-21A	4849.2	.80110	1.6365	1.2720	K117-21A
16	K117-21	5044.2	-.05253	.80968	.27668	K117-21
17	K117-21J	3874.7	-.00526	.17652	.06404	K117-21J
18	K117-22	10.246	-.00059	.01338	.07563	K117-22
19	K117-23	7.9714	.01708	.05043	.12249	K117-23
20	BLANK	2.4258	-.00034	-.00004	-.00017	BLANK
21	CCV2	50.800	.47496	.50091	.51013	CCV2
22	CCB2	1.2747*	.00082	.00010	.00078	CCB2
23	K117-24	4926.1	-.03229	.21447	.14058	K117-24
24	K117-25	11.180	.00140	.00325	.03727	K117-25
25	K117-26	5.6412	.00110	.00349	.05793	K117-26
26	K117-27	4673.1	-.06749	.04684	.07901	K117-27
27	K117-37	4558.7	-.07893	.00106	.06180	K117-37
28	K117-38	13.328	.00159	.00011	.05031	K117-38
29	K117-39	6.0276	.00158	-.00019	.01151	K117-39
30	K117-40	4.1534	.00162	.00039	.06615	K117-40
31	K117-41	3.2408	.00171	.00009	.02402	K117-41
32	BLANK	2.1453	.00036	-.00005	.00086	BLANK
33	CCV3	52.184*	.47274*	.49270*	.51088*	CCV3
34	CCB3	1.7562*	.00095*	.00037*	.01637*	CCB3
35	IPK019SB	.97398*	.00141	-.00007	.00106	IPK019SB
36	IPK019SL	53.492	.95385	.99839	1.0453	IPK019SL
37	IPK019SC	53.100	.95407	.99911	1.0414	IPK019SC
38	K104-01A	55.186	.92538	1.2794	1.5228	K104-01A
39	K104-01	3.6274	.01937	.34502	.52368	K104-01
40	K104-01J	1.0887	.00532	.07338	.10652	K104-01J
41	K104-01M	52.727	.86484	1.2218	1.4608	K104-01M
42	K104-01S	51.475	.84870	1.1831	1.3813	K104-01S
43	K104-02	3.3133	.01875	.35701	.53069	K104-02
44	BLANK	7.6152	-.00280	-.00085	.06458	BLANK
45	CCV4	51.465	.47463	.49235	.51294	CCV4
46	CCB4	.39207*	.00124	.00001	-.00026	CCB4
47	K104-03	3.8105	.02193	.48371	.57857	K104-03
48	K104-04	2.2288	.01596	.12846	.43280	K104-04
49	K104-05	.99341	.02147	.17002	.31717	K104-05
50	K104-06	1.9718	.02699	.27767	.76063	K104-06
51	K104-07	1.3659	.00860	.15754	.29969	K104-07
52	K104-08	1.2893	.01170	.28002	.51289	K104-08
53	K104-09	1.4996	.01436	.35382	.97975	K104-09

54	K104-10	1.1903	.01005	.23112	.37956	K104-10
55	K104-11	2.6681	.01964	.38800	.55943	K104-11
56	BLANK	2.7858	-.00208	-.00006	.02904	BLANK
57	CCV5	-1631.4*	3.9829*	2.7984*	-.90420*	CCV5
58	CCB5	.21189*	.00088	-.00012	-.00031	CCB5
59	K104-12	2.2333	.01302	.28717	.40532	K104-12
60	K104-13	3.1712	.01837	.55655	.37009	K104-13
61	K104-14	3.2501	.01773	.50516	.38761	K104-14
62	K104-15	1.7488	.07230	.12064	6.4881	K104-15
63	K104-16	1.2996	.01031	.21762	.30460	K104-16
64	K104-17	1.2598	.01834	.17728	.27872	K104-17
65	K104-18	1.6570	.01564	.23049	.43016	K104-18
66	BLANK	.08050	-.00001	-.00001	.00034	BLANK
67	CCV6	53.030	.48650	.50459	.52918	CCV6
68	CCB6	.10274*	.00093	-.00003	-.00037	CCB6
69	IPK014WB	.05773	.00179	-.00010	.00125	IPK014WB
70	IPK014WL	52.225	.96619	.97404	1.0507	IPK014WL
71	IPK014WC	52.259	.95463	.96954	1.0395	IPK014WC
72	K038-01A	452.34	.90387	.96394	1.0309	K038-01A
73	K038-01	412.03	.00001	-.00038	.00308	K038-01
74	K038-01J	83.984	.00070	-.00017	.00160	K038-01J
75	K023-02	34.276	.00164	.00000	.00344	K023-02
76	K033-02	.27746	.00121	-.00004	.00068	K033-02
77	K025-04	494.83	.00114	.00027	.00237	K025-04
78	BLANK	84.258	.00027	.00005	.00762	BLANK
79	CCV7	52.813	.48350	.49567	.52114	CCV7
80	CCB7	.18582*	.00046	-.00003	-.00013	CCB7
81	ICSAF	.37900	-.00235	-.00036	-.00383	ICSAF
82	ICSABF	86.882	.92246	.48587	1.0416	ICSABF
83	CCV8	49.954	.45664	.46618	.49154	CCV8
84	CCB8	.19844*	.00121	-.00020	-.00030	CCB8
85	K045-01	31.990	.00159	.01221	.01429	K045-01
86	K045-02	27.177	.00093	.01204	.05645	K045-02
87	K045-03	30.494	.00058	.00392	.01456	K045-03
88	J386-05	1014.2	.00020	-.00010	.08063	J386-05
89	J386-06	435.14	.00003	-.00035	.00246	J386-06
90	J386-06M	429.18	.18590	.19772	.22271	J386-06M
91	J386-06S	431.04	.18650	.20266	.22252	J386-06S
92	J386-07	1029.0	.00093	-.00017	.07708	J386-07
93	K410-01	1530.6	-.00182	.00449	.06072	K410-01 → Not OR
94	BLANK	4.1177	-.00104	-.00035	.02866	BLANK
95	CCV9	53.048	.47370	.49257	.51200	CCV9
96	CCB9	.41568*	.00091	-.00014	-.00022	CCB9
INDX	LSID	Na	Tl	V	Zn	LSID

ID8K015 Section 3 of 3

7080

EMAX LABORATORIES, INC.

ANALYSIS LOG
for
METALS BY ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/20/07 11:24

End Date: 11/20/07 13:25

Comments:

1PK014WL2
↓ WL3 ↓ AG

Book #: AD8-003

Instrument No.: D8 TH 11/20/07

Analytical Batch: 1D8K017

Analytical Sequence: S-6010K07 (V13)

Method File: 6010K07 (V13)

SOP #	Rev. #
☐ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B10.97.01
S1	NA
S2	SM1B11.01.03
S3	NA
S4	NA
S5	SM1B11.01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B11.03.01
CCV	SM1B11.02.06
ICSA	SM1B10.93.03
ICSAB	SM1B10.95.05
CRI/MRL	

Analyzed By: TH

Date: 11/20/07

SEQUENCE FILE : ID8K017

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8K017001	Blank	11:24	11/20/07	1.000
ID8K017002	S2	11:29	11/20/07	1.000
ID8K017003	S5	11:35	11/20/07	1.000
ID8K017004	S8	11:40	11/20/07	1.000
ID8K017005	ICV	11:46	11/20/07	1.000
ID8K017006	ICB	11:51	11/20/07	1.000
ID8K017007	ICSAI	11:58	11/20/07	1.000
ID8K017008	ICSABI	12:03	11/20/07	1.000
ID8K017009	CCV1	12:09	11/20/07	1.000
ID8K017010	CCB1	12:14	11/20/07	1.000
ID8K017011	K410-01	12:19	11/20/07	50.000
ID8K017012	IPK014WB	12:25	11/20/07	1.000
ID8K017013	IPK014WL	12:31	11/20/07	1.000
ID8K017014	IPK014WC	12:36	11/20/07	1.000
ID8K017015	K038-01A	12:41	11/20/07	1.000
ID8K017016	K038-01	12:47	11/20/07	1.000
ID8K017017	K038-01J	12:52	11/20/07	5.000
ID8K017018	K033-02	12:58	11/20/07	1.000
ID8K017019	K410-01	13:03	11/20/07	10.000
ID8K017020	BLANK	13:09	11/20/07	1.000
ID8K017021	BLANK1	13:14	11/20/07	1.000
ID8K017022	CCV2	13:20	11/20/07	1.000
ID8K017023	CCB2	13:25	11/20/07	1.000

NOT [illegible]

OC

7082

SDG : 07K03 UNIT : % SUMMARY of ICV and CCV : ID8K017 DATE : 11/20/07 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	94	96	97	95	98	101	98	97	95	96	92	96	94	96	95	101	96	94	98	97	95	92	100	98
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSAI	92	----	----	----	----	----	----	93	----	----	----	92	----	98	----	----	----	----	----	----	----	----	----	----
ICSABI	94	101	103	108	102	109	103	94	98	100	95	94	96	98	96	107	99	109	102	111	108	92	104	101
CCV1	99	99	101	99	101	104	101	99	99	100	92	100	96	98	97	104	99	96	102	100	97	95	105	101
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	100	99	102	101	101	105	102	102	102	100	95	101	97	100	98	104	100	98	103	102	100	94	108	102
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

7083

SDG : 07K033 UNIT : UG/L

SUMMARY of CALIBRATION BLANKS : ID8K017 (WATER)

DATE : 11/20/07 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	4.73	1.80	.810	-.110	.100	-3.58	.030	3.67	-.120	.010	-.210	-8.86	.630	-49.0	1.78	.330	-.130	-56.0	1.01	.260	-241	-.440	-.090	-.400
ICSAI	----	3.04	-9.38	.100	-.280	13.3	2.37	----	.420	.440	2.26	----	-2.33	----	1.24	-2.05	-.160	22.4	11.6	.140	-53.3	-2.04	.210	-5.24
ICSABI	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	15.5	1.62	1.07	.040	-.100	-4.03	.110	178	.160	-.020	-.140	-2.35	.550	-90.6	-.320	.230	.220	-70.4	1.59	.460	-302	-.350	.080	7.07
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPK014WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K038-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K033-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
K410-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	12.4	1.89	.790	.230	.160	-3.46	.110	-7.86	.140	-.120	-.370	-7.37	1.000	-48.9	-.210	.300	-.100	-61.2	3.28	.490	-104	-.220	.140	-.410

QC limit of each parameter are listed in a table attached next to all the ICP check forms

* : Out of QC Limit

7081

	Pos ID	Type	Sample Name	Comment	Data File	Type*	Diln Factor	ConFact	Check	Check Table	Fail Action
1	0	Unk	S0					1	☐		Continue
2	0	Unk	S2					1	☐		Continue
3	0	Unk	S5					1	☐		Continue
4	0	Unk	S8					1	☐		Continue
5	1	QC	ICV		ID8K017005			1	☒	ICV	Continue
6	2	QC	ICB		ID8K017006			1	☒	CCB1	Continue
7	3	QC	ICSAI		ID8K017007			1	☒	ICSA	Continue
8	4	QC	ICSABI		ID8K017008			1	☒	ICSAB	Continue
9	5	QC	CCV1		ID8K017009			1	☒	CCV	Continue
10	6	QC	CCB1		ID8K017010			1	☒	CCB1	Continue
11	7	Unk	K410-01	50X	ID8K017011			1	☐		Continue
12	8	QC	IPK014WB		ID8K017012			1	☒	CCB1	Continue
13	9	QC	IPK014WL	Ag↓	ID8K017013			1	☒	LCS	Continue
14	10	QC	IPK014WC	Ag↓	ID8K017014			1	☒	LCS	Continue
15	11	Unk	K038-01A		ID8K017015			1	☐		Continue
16	12	Unk	K038-01		ID8K017016			1	☐		Continue
17	13	Unk	K038-01J		ID8K017017			1	☐		Continue
18	14	Unk	K033-02		ID8K017018			1	☐		Continue
19	15	Unk	K410-01	10X	ID8K017019			1	☐		Continue
20	16	Unk	BLANK		ID8K017020			1	☐		Continue
21	17	Unk	BLANK1		ID8K017021			1	☐		Continue
22	18	QC	CCV2		ID8K017022			1	☒	CCV	Continue
23	19	QC	CCB2		ID8K017023			1	☒	CCB1	Continue

50:40

7085

ID8K017 Section 1 of 3

INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID
1	Blank	.00119	.00002	-.00003	.00076	-.00004	.00045	.00000	.00011	.00016	-.00031	Blank
2	S2				.84283	.69655	.10154	2.5553		.17685	.68149	S2
3	S5		.00854	.00543								S5
4	S8	.24016							1.5048			S8
5	ICV	4.6866	.47867	.48308	.47596	.49107	.50628	.49007	48.340	.47681	.48146	ICV
6	ICB	.00473	.00180	.00081	-.00011	.00010	-.00358	.00003	.00367	-.00012	.00001	ICB
7	ICSAI	459.47	.00304	-.00938	.00010	-.00028	.01330	.00237	463.89	.00042	.00044	ICSAI
8	ICSABI	468.46	1.0149	1.0276	.54249	.50879	.54656	1.0342	469.08	.48753	.49994	ICSABI
9	CCV1	4.9294	.49685	.50582	.49657	.50489	.52214	.50720	49.622	.49651	.49784	CCV1
10	CCB1	.01554	.00162	.00107	.00004	-.00010	-.00403	.00011	.17761*	.00016	-.00002	CCB1
11	K410-01	.03648	.00322	.00112	.03030	.00013	.07962	.00008	.40209	.00766	-.00003	K410-01
12	IPK014WB	.01046	.00124	.00038	.00050	.00015	-.00414	.00000	.09922	.00007	-.00014	IPK014WB
13	IPK014WL	9.2196	4.9023	.97123	.97869	1.0213	1.0410	1.0013	49.593	.98590	.99847	IPK014WL
14	IPK014WC	9.4635	4.8975	.98430	.98388	1.0177	1.0335	1.0038	49.562	.98452	.99927	IPK014WC
15	K038-01A	10.265	5.1410	1.0695	1.2039	1.0051	2.6441	1.0056	282.10	.96503	.98949	K038-01A
16	K038-01	.02896	.00491	.00004	.21307	.00033	1.5297	.00024	245.62	.00118	.00041	K038-01
17	K038-01J	.01545	.00338	-.00019	.04221	-.00009	.28640	.00005	50.357	.00062	-.00003	K038-01J
18	K033-02	.01966	.00117	.00041	.00045	.00010	.00284	.00003	.23368	.00025	.00005	K033-02
19	K410-01	.02512	.01227	.03628	.15486	.00773	.43264	.01325	1.5769	.04326	.00821	K410-01
20	BLANK	.01429	.00169	-.00016	.00015	.00007	-.00312	.00004	.01220	.00016	.00000	BLANK
21	BLANK1	.01447	.00080	-.00131	-.00026	-.00023	-.00359	-.00003	-.00735	.00017	-.00023	BLANK1
22	CCV2	5.0051	.49380	.51197	.50408	.50739	.52691	.51025	51.152	.51001	.49979	CCV2
23	CCB2	.01244	.00189	.00079	.00023	.00016	-.00346	.00011	-.00786	.00014	-.00012	CCB2
INDX	LSID	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	LSID

ID8K017 Section 1 of 3

ID8K017 Section 2 of 3

INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID
1	Blank	.00493	.00002	-.00012	.00010	.00002	-.00002	-.00023	.00073	.00000	.00013	Blank
2	S2	2.5546		.19517		.04825		.63330			.19628	S2
3	S5						.69176			.00538		S5
4	S8		.07930		.15036				2.8069			S8
5	ICV	.46082	4.8100	.47125	48.144	.47285	.50259	.48152	46.968	.49074	.48322	ICV
6	ICB	-.00021	-.00886	.00063	-.04904	.00178	.00033	-.00013	-.05602	.00101	.00026	ICB
7	ICSAI	.00226	184.97	-.00233	487.50	.00124	-.00205	-.00016	.02242	.01161	.00014	ICSAI
8	ICSABI	.47579	188.23	.95795	491.61	.47903	1.0675	.98922	81.466	1.0236	1.1065	ICSABI
9	CCV1	.46235	5.0076	.48110	49.240	.48694	.52077	.49737	47.989	.51236	.50189	CCV1
10	CCB1	-.00014	-.00235	.00055	-.09057	-.00032	.00023	.00022	-.07036	.00159	.00046	CCB1
11	K410-01	.64908	.00446	.02776	.03679	-.00200	.00443	.00639	.38455	.00281	.00080	K410-01
12	IPK014WB	.00007	-.00367	.00051	-.09174	.00038	.00010	.00018	-.08447	.00077	.00059	IPK014WB
13	IPK014WL	.96127	9.9780	.97132	48.372	.97215	1.0363	.99581	48.069	.94207	.48631*	IPK014WL
14	IPK014WC	.95554	10.012	.96884	48.295	.96580	1.0320	.99556	47.672	.95904	.67471*	IPK014WC
15	K038-01A	.89105	10.587	.95938	195.99	.99632	1.0174	.99253	60.688	1.0553	1.0288	K038-01A
16	K038-01	.00120	.70538	.00003	151.48	.04641	.00071	.01471	6.9720	.00004	.00077	K038-01
17	K038-01J	.00008	.13593	-.00005	30.238	.01209	.00015	.00277	1.2045	.00179	.00049	K038-01J
18	K033-02	.00067	.11541	.00076	-.05181	.00016	.00026	.00406	-.04289	.00023	.00059	K033-02
19	K410-01	3.0084	.02140	.14433	.18327	.01131	.02406	.04066	3.3405	.00530	.00489	K410-01
20	BLANK	.00103	-.00038	.00016	-.05445	.00029	.00004	-.00031	.08649	.00167	.00064	BLANK
21	BLANK1	.00006	-.00561	.00042	-.07187	-.00041	.00005	-.00019	-.01560	.00064	.00048	BLANK1
22	CCV2	.47618	5.0657	.48291	49.938	.48930	.51765	.49938	48.972	.51621	.50956	CCV2
23	CCB2	-.00037	-.00737	.00100	-.04885	-.00021	.00030	-.00010	-.06118	.00328	.00049	CCB2
INDX	LSID	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	LSID

ID8K017 Section 2 of 3

INDX	LSID	Na	Tl	V	Zn	LSID
1	Blank	.04413	-.00040	-.00025	.00149	Blank
2	S2		.13835	.15190		S2
3	S5				.90910	S5
4	S8	7.6349				S8
5	ICV	47.446	.45997	.50075	.49095	ICV
6	ICB	-.24119*	-.00044	-.00009	-.00040	ICB
7	ICSAI	-.05332	-.00204	.00021	-.00524	ICSAI
8	ICSABI	80.759	.91861	.51896	1.0080	ICSABI
9	CCV1	48.694	.47269	.52694	.50446	CCV1
10	CCB1	-.30176*	-.00035	.00008	.00707	CCB1
11	K410-01	596.24	-.00030	.00224	.02777	K410-01
12	IPK014WB	-.11461*	-.00004	.00046	.00753	IPK014WB
13	IPK014WL	48.565	.93522	1.0331	1.0159	IPK014WL
14	IPK014WC	48.361	.94313	1.0396	1.0061	IPK014WC
15	K038-01A	427.13	.90379	1.0426	1.0125	K038-01A
16	K038-01	397.83	-.00009	.00033	.00268	K038-01
17	K038-01J	79.518	-.00020	.00005	.00128	K038-01J
18	K033-02	-.11879	.00072	.00057	.00033	K033-02
19	K410-01	2545.0	.00013	.01055	.16562	K410-01
20	BLANK	1.5542	.00026	.00000	.00171	BLANK
21	BLANK1	.21094	.00000	-.00003	-.00090	BLANK1
22	CCV2	49.966	.46886	.54240	.51178	CCV2
23	CCB2	-.10390*	-.00022	.00014	-.00041	CCB2
INDX	LSID	Na	Tl	V	Zn	LSID

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No. 4 ☑ EMAX-3010 Rev. No. 3 ☐ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: WATER Start Date: 11-7-07 Time: 16:15 Temp: 90 °C Ending Date: 11-7-07 Time: 20:00 Temp.: 90 °C

BATCH: IPK014-W

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPK014-WB					50	—	50		
02	-WL					50	—	50		
03	-WC					50	—	50		
04	K012-07					50	<2	50		
05	-09					50		50		
06	-09M					50		50		
07	-09S					50		50		
08	-10					50		50		
09	-13					50		50		
10	J386-05					50		50		
11	-06					50		50		
12	-06M					50		50		
13	-06S					50		50		
14	-07					50		50		
15	K025-04					50		50		
16	K038-01					50		50		
17	K045-01					50		50		
18	-02					50		50		
19	-03					50		50		
20	K023-02					50		50		
21	K033-02					50		50		
22	K410-01					50	10	50		
23	K431-01					50	<2	50		
24		11-7-07 MC								
25										

Standards	ID	Amount Added (ml)
LCS -1	SM1A-10-99	0.5
LCS -2	SM1A-10-98	0.5
LCS -3	SM1A-10-97	0.5
MS		
Reagent	**Lot# / ID**	**Amount Added**
HNO_3	SW1A-03-695	1.5+1.5
HCl	SW1A-03-612	2.5
H_2O_2	N1A	
HNO3 (1:1)	N1A	
Digestate Location	ICP	
Extract Location		

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 11/8/7

Checked By: CPC

Date Disposed: Disposed by:

7889

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No.4 ☐ EMAX-3010 Rev. No. 3 ☑ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: Soil Start Date: 11-14-07 Time: 11:30 Temp: 90 °C Ending Date: 11-14-07 Time: 15:30 Temp.: 90 °C

BATCH: IPK028-S

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g/ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPK028-SB					—	N/A	100		
02	SL					—		100		
03	-SC					—		100		
04	K033-03					1.001		100		
05	-04					1.003		100		
06	-05					1.000		100		
07	-05M					1.003		100		
08	-05S					1.003		100		
09	-06					1.002		100		
10	-07					1.001		100		
11	-08					1.002		100		
12	-09					1.003		100		
13	-10					1.001		100		
14	-11					1.002		100		
15	-12					1.003		100		
16	-13					1.001		100		
17	-14					1.002		100		
18	-15					1.003		100		
19	-16					1.002		100		
20	-17					1.001		100		
21	-18					1.000		100		
22	-19					1.001		100		
23	-20					1.002		100		
24	-21					1.003		100		
25	-22					1.000		100		

Standards	ID	Amount Added (ml)
LCS -1	SM1A-10-99	1.0
LCS -2	SM1A-10-98	1.0
LCS -3	SM1A-10-97	1.0
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SW1A-03-645	10.0
HCl	SW1A-03-561	10.0
H_2O_2	SW1A-03-573	10.0
HNO3 (1:1)	SM5B-02-77	10.0

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 11/14/7

Checked By: CPC

Date Disposed: Disposed by:

7050

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No.4 ☐ EMAX-3010 Rev. No. 3 ☐ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐ Book # EIP-064

Matrix: SOIL Start Date: 11-14-07 Time: 10:20 Temp: 90 °C Ending Date: 11-14-07 Time: 14:20 Temp.: 90 °C

BATCH: IPK029-S

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPK029-SB					–	N/A	100		
02	-SC					–		100		
03	-SC					–		100		
04	K050-01					1.003		100		
05	-02					1.002		100		
06	-03					1.001		100		
07	-04					1.003		100		
08	-05					1.001		100		
09	-06					1.002		100		
10	-07					1.003		100		
11	-08					1.001		100		
12	09					1.003		100		
13	10					1.002		100		
14	10 MS					1.001		100		
15	10 S					1.001		100		
16	-11					1.003		100		
17	K033-23					1.002		100		
18	K438-01					1.003		100		
19	-02					1.002		100		
20	-03					1.000		100		
21	-04					1.001		100		
22	K438-05					1.003		100		
23	K191-01					1.001		100		
24	-02					1.002		100		
25	-03					1.000		100		

Standards	ID	Amount Added (ml)
LCS -1	SMIA-10-99	1.0
LCS -2	SMIA-10-98	1.0
LCS -3	SMIA-10-97	1.0
MS		

Reagent	Lot# / ID	Amount Added
HNO_3	SWIA-03-645	10.0
HCl	SWIA-03-561	10.0
H_2O_2	SWIA-03-573	10.0
HNO3 (1:1)	SMSB-02-77	10.0

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: MC Standard Added By: MC

Witnessed By: CPC Extracts Rcvd. By: CPC 11/14/7

Checked By: CPC

Date Disposed: Disposed by:

1601

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 07K033

METHOD 7470A/7471A
MERCURY BY COLD VAPOR

One (1) water and twenty-one (21) soil samples were received on 11/02/07 for Mercury analysis by Method 7470A/7471A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Serial Dilution/Post-Analytical Spike**

   Sample K033-05 and samples J363-03 and K129-03 from other SDGs were analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. **Matrix Spike/Matrix Spike Duplicate**

   Sample K033-05 was spiked. All recoveries were within QC limit.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 07K033
Instrument ID : TI047

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGK011WB	1	NA	11/06/0717:27	11/06/0713:00	M47K006024	M47K006020	HGK011W	Method Blank
LCS1W	HGK011WL	1	NA	11/06/0717:29	11/06/0713:00	M47K006025	M47K006020	HGK011W	Lab Control Sample (LCS)
LCD1W	HGK011WC	1	NA	11/06/0717:31	11/06/0713:00	M47K006026	M47K006020	HGK011W	LCS Duplicate
U8-008AS	J363-03A	1	NA	11/06/0717:33	11/06/0713:00	M47K006027	M47K006020	HGK011W	Analytical Spike Sample
U8-008	J363-03	1	NA	11/06/0717:36	11/06/0713:00	M47K006028	M47K006020	HGK011W	Field Sample
U8-008DL	J363-03J	5	NA	11/06/0717:37	11/06/0713:00	M47K006029	M47K006020	HGK011W	Diluted Sample
LEB-110107	K033-02	1	NA	11/06/0718:14	11/06/0713:00	M47K006047	M47K006044	HGK011W	Field Sample

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	HGK027SB	1	NA	11/16/0712:10	11/15/0715:30	M47K016034	M47K016032	HGK027S	Method Blank
LCS1S	HGK027SL	1	NA	11/16/0712:12	11/15/0715:30	M47K016035	M47K016032	HGK027S	Lab Control Sample (LCS)
LCD1S	HGK027SC	1	NA	11/16/0712:14	11/15/0715:30	M47K016036	M47K016032	HGK027S	LCS Duplicate
811872-2276AS	K129-03A	1	46.9	11/16/0712:16	11/15/0715:30	M47K016037	M47K016032	HGK027S	Analytical Spike Sample
811872-2276	K129-03	1	46.9	11/16/0712:18	11/15/0715:30	M47K016038	M47K016032	HGK027S	Field Sample
811872-2276DL	K129-03J	5	46.9	11/16/0712:20	11/15/0715:30	M47K016039	M47K016032	HGK027S	Diluted Sample
SB3-90	K033-23	1	11.3	11/16/0712:49	11/15/0715:30	M47K016053	M47K016044	HGK027S	Field Sample
MBLK2S	HGK028SB	1	NA	11/16/0713:12	11/15/0716:00	M47K016064	M47K016056	HGK028S	Method Blank
LCS2S	HGK028SL	1	NA	11/16/0713:14	11/15/0716:00	M47K016065	M47K016056	HGK028S	Lab Control Sample (LCS)
LCD2S	HGK028SC	1	NA	11/16/0713:16	11/15/0716:00	M47K016066	M47K016056	HGK028S	LCS Duplicate
SB3-10AS	K033-05A	1	5.6	11/16/0713:18	11/15/0716:00	M47K016067	M47K016056	HGK028S	Analytical Spike Sample
SB3-10	K033-05	1	5.6	11/16/0713:24	11/15/0716:00	M47K016070	M47K016068	HGK028S	Field Sample
SB3-10DL	K033-05J	5	5.6	11/16/0713:27	11/15/0716:00	M47K016071	M47K016068	HGK028S	Diluted Sample
SB3-10MS	K033-05M	1	5.6	11/16/0713:29	11/15/0716:00	M47K016072	M47K016068	HGK028S	Matrix Spike Sample (MS)
SB3-10MSD	K033-05S	1	5.6	11/16/0713:31	11/15/0716:00	M47K016073	M47K016068	HGK028S	MS Duplicate (MSD)
SB3-0.5'	K033-03	1	5.0	11/16/0713:33	11/15/0716:00	M47K016074	M47K016068	HGK028S	Field Sample
SB3-5	K033-04	1	3.9	11/16/0713:35	11/15/0716:00	M47K016075	M47K016068	HGK028S	Field Sample
SB3-15	K033-06	1	4.6	11/16/0713:37	11/15/0716:00	M47K016076	M47K016068	HGK028S	Field Sample
SB3-20	K033-07	1	9.0	11/16/0713:39	11/15/0716:00	M47K016077	M47K016068	HGK028S	Field Sample
SB3-20'DUP	K033-08	1	9.5	11/16/0713:41	11/15/0716:00	M47K016078	M47K016068	HGK028S	Field Sample
SB3-25	K033-09	1	5.6	11/16/0713:43	11/15/0716:00	M47K016079	M47K016068	HGK028S	Field Sample
SB3-25DUP	K033-10	1	5.6	11/16/0713:50	11/15/0716:00	M47K016082	M47K016080	HGK028S	Field Sample
SB3-30	K033-11	1	5.3	11/16/0713:52	11/15/0716:00	M47K016083	M47K016080	HGK028S	Field Sample
SB3-35	K033-12	1	7.2	11/16/0713:54	11/15/0716:00	M47K016084	M47K016080	HGK028S	Field Sample
SB3-40	K033-13	1	8.3	11/16/0713:56	11/15/0716:00	M47K016085	M47K016080	HGK028S	Field Sample
SB3-45	K033-14	1	9.7	11/16/0713:58	11/15/0716:00	M47K016086	M47K016080	HGK028S	Field Sample
SB3-50	K033-15	1	5.9	11/16/0714:00	11/15/0716:00	M47K016087	M47K016080	HGK028S	Field Sample
SB3-55	K033-16	1	8.6	11/16/0714:02	11/15/0716:00	M47K016088	M47K016080	HGK028S	Field Sample
SB3-60	K033-17	1	7.8	11/16/0714:04	11/15/0716:00	M47K016089	M47K016080	HGK028S	Field Sample
SB3-65	K033-18	1	8.4	11/16/0714:06	11/15/0716:00	M47K016090	M47K016080	HGK028S	Field Sample
SB3-70	K033-19	1	9.8	11/16/0714:08	11/15/0716:00	M47K016091	M47K016080	HGK028S	Field Sample
SB3-75	K033-20	1	10.6	11/16/0714:14	11/15/0716:00	M47K016094	M47K016092	HGK028S	Field Sample
SB3-80	K033-21	1	8.3	11/16/0714:16	11/15/0716:00	M47K016095	M47K016092	HGK028S	Field Sample
SB3-85	K033-22	1	9.7	11/16/0714:18	11/15/0716:00	M47K016096	M47K016092	HGK028S	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07K033

Matrix : WATER
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGK011WB	ND	1	NA	0.500	0.100	11/06/0717:27	11/06/0713:00	M47K006024	M47K006020	HGK011W	NA	11/06/07
LCS1W	HGK011WL	5.14	1	NA	0.500	0.100	11/06/0717:29	11/06/0713:00	M47K006025	M47K006020	HGK011W	NA	11/06/07
LCD1W	HGK011WC	5.39	1	NA	0.500	0.100	11/06/0717:31	11/06/0713:00	M47K006026	M47K006020	HGK011W	NA	11/06/07
LEB-110107	K033-02	ND	1	NA	0.500	0.100	11/06/0718:14	11/06/0713:00	M47K006047	M47K006044	HGK011W	11/01/07	11/02/07

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGK011WB	HGK011WL	HGK011WC		
LAB FILE ID:	M47K006024	M47K006025	M47K006026		
DATIME EXTRCTD:	11/06/0713:00	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/06/0717:27	11/06/0717:29	11/06/0717:31	DATE RECEIVED:	11/06/07
PREP. BATCH:	HGK011W	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020	M47K006020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	5.14	103	5.00	5.39	108	5	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGK027SB	HGK027SL	HGK027SC		
LAB FILE ID:	M47K016034	M47K016035	M47K016036		
DATIME EXTRCTD:	11/15/0715:30	11/15/0715:30	11/15/0715:30	DATE COLLECTED:	NA
DATIME ANALYZD:	11/16/0712:10	11/16/0712:12	11/16/0712:14	DATE RECEIVED:	11/15/07
PREP. BATCH:	HGK027S	HGK027S	HGK027S		
CALIB. REF:	M47K016032	M47K016032	M47K016032		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.817	98	0.833	0.813	98	0	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	HGK028SB	HGK028SL	HGK028SC		
LAB FILE ID:	M47K016064	M47K016065	M47K016066		
DATIME EXTRCTD:	11/15/0716:00	11/15/0716:00	11/15/0716:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/16/0713:12	11/16/0713:14	11/16/0713:16	DATE RECEIVED:	11/15/07
PREP. BATCH:	HGK028S	HGK028S	HGK028S		
CALIB. REF:	M47K016056	M47K016056	M47K016056		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.808	97	0.833	0.803	96	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	U8-008	U8-008DL		
EMAX SAMP ID:	J363-03	J363-03J		
LAB FILE ID:	M47K006028	M47K006029		
DATE EXTRACTED:	11/06/0713:00	11/06/0713:00	DATE COLLECTED:	10/29/07
DATE ANALYZED:	11/06/0717:36	11/06/0717:37	DATE RECEIVED:	10/30/07
PREP. BATCH:	HGK011W	HGK011W		
CALIB. REF:	M47K006020	M47K006020		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SERIAL DIL RSLT (ug/L)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

7698

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	811872-2276	811872-2276DL		
EMAX SAMP ID:	K129-03	K129-03J		
LAB FILE ID:	M47K016038	M47K016039		
DATE EXTRACTED:	11/15/0715:30	11/15/0715:30	DATE COLLECTED:	11/08/07
DATE ANALYZED:	11/16/0712:18	11/16/0712:20	DATE RECEIVED:	11/08/07
PREP. BATCH:	HGK027S	HGK027S		
CALIB. REF:	M47K016032	M47K016032		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	46.9
DILTN FACTR:	1	1		
SAMPLE ID:	811872-2276			
CONTROL NO.:	K129-03	K129-03A		
LAB FILE ID:	M47K016038	M47K016037		
DATIME EXTRCTD:	11/15/0715:30	11/15/0715:30	DATE COLLECTED:	11/08/07
DATIME ANALYZD:	11/16/0712:18	11/16/0712:16	DATE RECEIVED:	11/08/07
PREP. BATCH:	HGK027S	HGK027S		
CALIB. REF:	M47K016032	M47K016032		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Mercury	ND	0.627	0.584	93	85-115

METHOD 7471A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07K033

Matrix : SOIL
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGK027SB	ND	1	NA	0.100	0.0330	11/16/0712:10	11/15/0715:30	M47K016034	M47K016032	HGK027S	NA	11/15/07
LCS1S	HGK027SL	0.817	1	NA	0.100	0.0330	11/16/0712:12	11/15/0715:30	M47K016035	M47K016032	HGK027S	NA	11/15/07
LCD1S	HGK027SC	0.813	1	NA	0.100	0.0330	11/16/0712:14	11/15/0715:30	M47K016036	M47K016032	HGK027S	NA	11/15/07
SB3-90	K033-23	ND	1	11.3	0.113	0.0372	11/16/0712:49	11/15/0715:30	M47K016053	M47K016044	HGK027S	11/01/07	11/02/07
MBLK2S	HGK028SB	ND	1	NA	0.100	0.0330	11/16/0713:12	11/15/0716:00	M47K016064	M47K016056	HGK028S	NA	11/15/07
LCS2S	HGK028SL	0.808	1	NA	0.100	0.0330	11/16/0713:14	11/15/0716:00	M47K016065	M47K016056	HGK028S	NA	11/15/07
LCD2S	HGK028SC	0.803	1	NA	0.100	0.0330	11/16/0713:16	11/15/0716:00	M47K016066	M47K016056	HGK028S	NA	11/15/07
SB3-10AS	K033-05A	0.334	1	5.6	0.106	0.0350	11/16/0713:18	11/15/0716:00	M47K016067	M47K016056	HGK028S	11/01/07	11/02/07
SB3-10	K033-05	ND	1	5.6	0.106	0.0350	11/16/0713:24	11/15/0716:00	M47K016070	M47K016068	HGK028S	11/01/07	11/02/07
SB3-10DL	K033-05J	ND	5	5.6	0.530	0.175	11/16/0713:27	11/15/0716:00	M47K016071	M47K016068	HGK028S	11/01/07	11/02/07
SB3-10MS	K033-05M	0.662	1	5.6	0.106	0.0350	11/16/0713:29	11/15/0716:00	M47K016072	M47K016068	HGK028S	11/01/07	11/02/07
SB3-10MSD	K033-05S	0.759	1	5.6	0.106	0.0350	11/16/0713:31	11/15/0716:00	M47K016073	M47K016068	HGK028S	11/01/07	11/02/07
SB3-0.5'	K033-03	ND	1	5.0	0.105	0.0347	11/16/0713:33	11/15/0716:00	M47K016074	M47K016068	HGK028S	11/01/07	11/02/07
SB3-5	K033-04	ND	1	3.9	0.104	0.0343	11/16/0713:35	11/15/0716:00	M47K016075	M47K016068	HGK028S	11/01/07	11/02/07
SB3-15	K033-06	ND	1	4.6	0.105	0.0346	11/16/0713:37	11/15/0716:00	M47K016076	M47K016068	HGK028S	11/01/07	11/02/07
SB3-20	K033-07	ND	1	9.0	0.110	0.0363	11/16/0713:39	11/15/0716:00	M47K016077	M47K016068	HGK028S	11/01/07	11/02/07
SB3-20'DUP	K033-08	ND	1	9.5	0.110	0.0365	11/16/0713:41	11/15/0716:00	M47K016078	M47K016068	HGK028S	11/01/07	11/02/07
SB3-25	K033-09	ND	1	5.6	0.106	0.0350	11/16/0713:43	11/15/0716:00	M47K016079	M47K016068	HGK028S	11/01/07	11/02/07
SB3-25DUP	K033-10	ND	1	5.6	0.106	0.0350	11/16/0713:50	11/15/0716:00	M47K016082	M47K016080	HGK028S	11/01/07	11/02/07
SB3-30	K033-11	ND	1	5.3	0.106	0.0348	11/16/0713:52	11/15/0716:00	M47K016083	M47K016080	HGK028S	11/01/07	11/02/07
SB3-35	K033-12	ND	1	7.2	0.108	0.0356	11/16/0713:54	11/15/0716:00	M47K016084	M47K016080	HGK028S	11/01/07	11/02/07
SB3-40	K033-13	ND	1	8.3	0.109	0.0360	11/16/0713:56	11/15/0716:00	M47K016085	M47K016080	HGK028S	11/01/07	11/02/07
SB3-45	K033-14	ND	1	9.7	0.111	0.0365	11/16/0713:58	11/15/0716:00	M47K016086	M47K016080	HGK028S	11/01/07	11/02/07
SB3-50	K033-15	ND	1	5.9	0.106	0.0351	11/16/0714:00	11/15/0716:00	M47K016087	M47K016080	HGK028S	11/01/07	11/02/07
SB3-55	K033-16	ND	1	8.6	0.109	0.0361	11/16/0714:02	11/15/0716:00	M47K016088	M47K016080	HGK028S	11/01/07	11/02/07
SB3-60	K033-17	ND	1	7.8	0.108	0.0358	11/16/0714:04	11/15/0716:00	M47K016089	M47K016080	HGK028S	11/01/07	11/02/07
SB3-65	K033-18	ND	1	8.4	0.109	0.0360	11/16/0714:06	11/15/0716:00	M47K016090	M47K016080	HGK028S	11/01/07	11/02/07
SB3-70	K033-19	ND	1	9.8	0.111	0.0366	11/16/0714:08	11/15/0716:00	M47K016091	M47K016080	HGK028S	11/01/07	11/02/07
SB3-75	K033-20	ND	1	10.6	0.112	0.0369	11/16/0714:14	11/15/0716:00	M47K016094	M47K016092	HGK028S	11/01/07	11/02/07
SB3-80	K033-21	ND	1	8.3	0.109	0.0360	11/16/0714:16	11/15/0716:00	M47K016095	M47K016092	HGK028S	11/01/07	11/02/07
SB3-85	K033-22	ND	1	9.7	0.111	0.0365	11/16/0714:18	11/15/0716:00	M47K016096	M47K016092	HGK028S	11/01/07	11/02/07

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1S				
CONTROL NO.:	HGK027SB	HGK027SL	HGK027SC		
LAB FILE ID:	M47K016034	M47K016035	M47K016036		
DATIME EXTRCTD:	11/15/0715:30	11/15/0715:30	11/15/0715:30	DATE COLLECTED:	NA
DATIME ANALYZD:	11/16/0712:10	11/16/0712:12	11/16/0712:14	DATE RECEIVED:	11/15/07
PREP. BATCH:	HGK027S	HGK027S	HGK027S		
CALIB. REF:	M47K016032	M47K016032	M47K016032		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.817	98	0.833	0.813	98	0	80-120	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK2S				
CONTROL NO.:	HGK028SB	HGK028SL	HGK028SC		
LAB FILE ID:	M47K016064	M47K016065	M47K016066		
DATIME EXTRCTD:	11/15/0716:00	11/15/0716:00	11/15/0716:00	DATE COLLECTED:	NA
DATIME ANALYZD:	11/16/0713:12	11/16/0713:14	11/16/0713:16	DATE RECEIVED:	11/15/07
PREP. BATCH:	HGK028S	HGK028S	HGK028S		
CALIB. REF:	M47K016056	M47K016056	M47K016056		

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.833	0.808	97	0.833	0.803	96	1	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 7471A

MATRIX:	SOIL			% MOISTURE:	5.6
DILTN FACTR:	1	1	1		
SAMPLE ID:	SB3-10				
CONTROL NO.:	K033-05	K033-05M	K033-05S		
LAB FILE ID:	M47K016070	M47K016072	M47K016073		
DATIME EXTRCTD:	11/15/0716:00	11/15/0716:00	11/15/0716:00	DATE COLLECTED:	11/01/07
DATIME ANALYZD:	11/16/0713:24	11/16/0713:29	11/16/0713:31	DATE RECEIVED:	11/02/07
PREP. BATCH:	HGK028S	HGK028S	HGK028S		
CALIB. REF:	M47K016068	M47K016068	M47K016068		

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	0.882	0.662	75	0.882	0.759	86	14	75-125	20

7101

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 7471A

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	SB3-10	SB3-10DL		
EMAX SAMP ID:	K033-05	K033-05J		
LAB FILE ID:	M47K016070	M47K016071		
DATE EXTRACTED:	11/15/0716:00	11/15/0716:00	DATE COLLECTED:	11/01/07
DATE ANALYZED:	11/16/0713:24	11/16/0713:27	DATE RECEIVED:	11/02/07
PREP. BATCH:	HGK028S	HGK028S		
CALIB. REF:	M47K016068	M47K016068		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 07K033
METHOD: METHOD 7471A

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MATRIX:	SOIL		% MOISTURE:	5.6
DILTN FACTR:	1	1		
SAMPLE ID:	SB3-10			
CONTROL NO.:	K033-05	K033-05A		
LAB FILE ID:	M47K016070	M47K016067		
DATIME EXTRCTD:	11/15/0716:00	11/15/0716:00	DATE COLLECTED:	11/01/07
DATIME ANALYZD:	11/16/0713:24	11/16/0713:18	DATE RECEIVED:	11/02/07
PREP. BATCH:	HGK028S	HGK028S		
CALIB. REF:	M47K016068	M47K016056		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT (%)
Mercury	ND	0.353	0.334	95	85-115

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/6/07 **Start Time:** 16:33

End Date: 11/6/07 **End Time:** 19:40

Comments:

QC OK

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47K006

Method File: Hg

SOP #	Rev. #
☑ EMAX-7470	3
☐ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-715
S3	↓
S4	
S5	
S6	
ICV	SM3B-07-716
CCV	↓
LCS	
Analytical Spike	
	SM3B-07-686

Analyzed By: NT

Date: 11/6/07

7107

"M47K006"

EMAXlfid	EMAXlsid	conc	Raw_resp	rsd/rf	adatetime	DF
M47K006000	STD1REP1	0	309		11/06/0716:33	1
M47K006001	STD2REP1	.2	13652		11/06/0716:35	1
M47K006002	STD3REP1	1	50519		11/06/0716:37	1
M47K006003	STD4REP1	2	100009		11/06/0716:39	1
M47K006004	STD5REP1	5	247407		11/06/0716:41	1
M47K006005	STD6REP1	10	486043		11/06/0716:43	1
M47K006006	ICV	2.05	101952	0	11/06/0716:52	1
M47K006007	ICB	-.001	2576	0	11/06/0716:53	1
M47K006008	CCV1	5.06	247681	0	11/06/0716:55	1
M47K006009	CCB1	-.052	81	0	11/06/0716:58	1
M47K006010	HGK010WB	-.017	1811	0	11/06/0717:00	1
M47K006011	HGK010WL	5.1	249606	0	11/06/0717:02	1
M47K006012	HGK010WC	5.1	249975	0	11/06/0717:04	1
M47K006013	TXK001SB	-.032	1076	0	11/06/0717:06	1
M47K006014	K007-01A	2.18	108086	0	11/06/0717:08	1
M47K006015	K007-01	-.029	1241	0	11/06/0717:10	1
M47K006016	K007-01J	.007	2987	0	11/06/0717:12	5
M47K006017	K007-01M	5.47	267860	0	11/06/0717:14	1
M47K006018	K007-01S	5.24	256661	0	11/06/0717:16	1
M47K006019	K002-01A	2.12	105574	0	11/06/0717:18	1
M47K006020	CCV2	5.23	255954	0	11/06/0717:19	1
M47K006021	CCB2	-.04	670	0	11/06/0717:21	1
M47K006022	K002-01	-.062	-375	0	11/06/0717:23	1
M47K006023	K002-01J	.002	2712	0	11/06/0717:25	5
M47K006024	HGK011WB	-.001	2575	0	11/06/0717:27	1
M47K006025	HGK011WL	5.14	251913	0	11/06/0717:29	1
M47K006026	HGK011WC	5.39	263700	0	11/06/0717:31	1
M47K006027	J363-03A	2.08	103654	0	11/06/0717:33	1
M47K006028	J363-03	-.02	1648	0	11/06/0717:36	1
M47K006029	J363-03J	-.061	-330	0	11/06/0717:37	5
M47K006030	J363-03M	5.38	263582	0	11/06/0717:39	1
M47K006031	J363-03S	5.36	262397	0	11/06/0717:41	1
M47K006032	CCV3	5.2	254841	0	11/06/0717:43	1
M47K006033	CCB3	-.027	1334	0	11/06/0717:46	1
M47K006034	J345-02	.003	2791	0	11/06/0717:48	1
M47K006035	J549-01	.072	6130	0	11/06/0717:50	1
M47K006036	J385-02	.001	2687	0	11/06/0717:52	1
M47K006037	J955-02	.007	2957	0	11/06/0717:54	1
M47K006038	J955-03	.034	4287	0	11/06/0717:56	1
M47K006039	J955-04	1.62	81095	0	11/06/0717:58	1
M47K006040	K051-03	-.014	1927	0	11/06/0718:00	1
M47K006041	J393-04	-.004	2425	0	11/06/0718:02	1
M47K006042	K017-02	-.013	1996	0	11/06/0718:04	1
M47K006043	K017-03	.026	3868	0	11/06/0718:06	1
M47K006044	CCV4	5.22	255832	0	11/06/0718:08	1
M47K006045	CCB4	.015	3351	0	11/06/0718:10	1
M47K006046	K038-01	-.054	-13	0	11/06/0718:12	1
M47K006047	K033-02	.021	3635	0	11/06/0718:14	1
M47K006048	K047-04	.022	3683	0	11/06/0718:16	1
M47K006049	K047-05	.033	4210	0	11/06/0718:18	1
M47K006050	K047-06	-.004	2447	0	11/06/0718:21	1
M47K006051	K047-07	-.029	1205	0	11/06/0718:23	1
M47K006052	K047-08	-.049	237	0	11/06/0718:25	1
M47K006053	K047-09	-.011	2109	0	11/06/0718:27	1
M47K006054	K410-01	.053	5217	0	11/06/0718:29	1
M47K006055	HGK012WB	-.014	1948	0	11/06/0718:31	1
M47K006056	CCV5	5.16	252873	0	11/06/0718:33	1
M47K006057	CCB5	-.007	2299	0	11/06/0718:35	1
M47K006058	HGK012WL	5.25	257134	0	11/06/0718:37	1
M47K006059	HGK012WC	5.41	264798	0	11/06/0718:39	1
M47K006060	K032-04A	2.12	105201	0-	11/06/0718:41	1
M47K006061	K032-04	-.016	1848	0	11/06/0718:43	1
M47K006062	K032-04J	.017	3452	0	11/06/0718:45	5
M47K006063	K032-04M	5.51	269492	0	11/06/0718:47	1
M47K006064	K032-04S	5.51	269658	0	11/06/0718:49	1
M47K006065	K032-05	-.074	-942	0	11/06/0718:51	1
M47K006066	K021-02	-.004	2432	0	11/06/0718:53	1
M47K006067	K021-03	-.047	361	0	11/06/0718:55	1
M47K006068	CCV6	5.34	261677	0	11/06/0718:58	1
M47K006069	CCB6	-.018	1730	0	11/06/0719:00	1
M47K006070	K021-04	-.035	905	0	11/06/0719:02	1
M47K006071	K021-05	-.024	1481	0	11/06/0719:04	1
M47K006072	K021-06	-.025	1397	0	11/06/0719:06	1
M47K006073	K021-08	-.032	1076	0	11/06/0719:08	1
M47K006074	J391-01	.013	3260	0	11/06/0719:10	1

M47K006075	J391-02	-.014	1971	0	11/06/0719:12	1
M47K006076	J391-03	-.012	2045	0	11/06/0719:14	1
M47K006077	J391-05	.014	3290	0	11/06/0719:16	1
M47K006078	J391-06	.026	3885	0	11/06/0719:18	1
M47K006079	J391-07	.022	3688	0	11/06/0719:20	1
M47K006080	CCV7	5.3	259596	0	11/06/0719:22	1
M47K006081	CCB7	-.042	613	0	11/06/0719:24	1
M47K006082	K003-01	.011	3156	0	11/06/0719:26	1
M47K006083	K003-02	-.019	1699	0	11/06/0719:28	1
M47K006084	K003-03	.025	3814	0	11/06/0719:30	1
M47K006085	K003-04	.01	3133	0	11/06/0719:32	1
M47K006086	K003-06	.017	3463	0	11/06/0719:34	1
M47K006087	K003-07	.005	2875	0	11/06/0719:36	1
M47K006088	CCV8	5.25	256904	0	11/06/0719:38	1
M47K006089	CCB8	-.04	681	0	11/06/0719:40	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47K006000	BLANK	-5.443732E-02	2638.44	.9999567	11/06/0719:40	1

RunProt: HGCOM

RunFold: M47K006 Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 16:44:05 06 Nov 2007 Xmit: Off Gas: 0.35 LPM

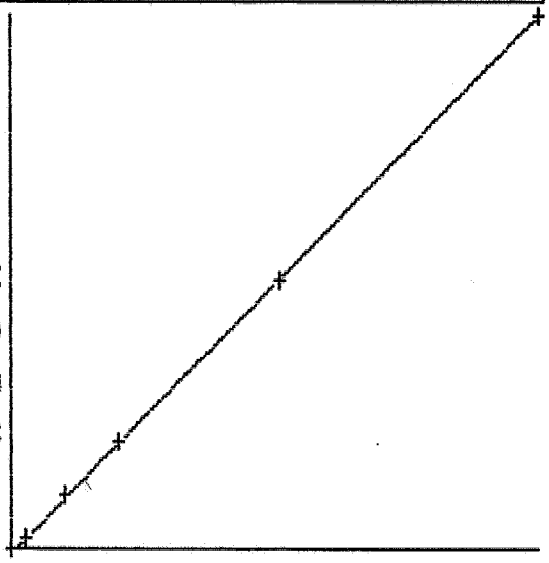
State: Idle User: NT\TH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear	
S1	.000	-.048	-.048	Quadratic	
S2	.200	.227	.027	Wtdlinear	
S3	1.00	.988	-.012		C
S4	2.00	2.01	.009	Accept	o
S5	5.00	5.05	.050		n
S6	10.0	9.97	-.027		c

A .0000000 r .999957

B 2.06306e-5 C -5.41697e-2



Relative Absorbance

	Mean			
S1	309	0	SD	309
S2	13652	0	%RSD	13652
S3	50519	0	%RSD	50519
S4	100009	0	%RSD	100009
S5	247407	0	%RSD	247407
S6	486043	0	%RSD	486043

New cal coefficients stored

EMAX LABORATORIES, INC.

ANALYSIS LOG *for* MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 11/16/07 **Start Time:** 10:59

End Date: 11/16/07 **End Time:** 15:22

Book #: A47-51

Instrument No.: 47

Analytical Sequence/Batch: M47K016

Method File: Hg

Comments:

QC OK

K104-01A was confirmed at the end of analysis

SOP #	Rev. #
☐ EMAX-7470	3
☑ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-731
S3	↓
S4	
S5	
S6	
ICV	SM3B-07-732
CCV	↓
LCS	
Analytical Spike	
	SM3B-07-685

Analyzed By: NT

Date: 11/16/07

7111

"M47K016"

EMAX1fid	EMAX1sid	conc	Raw_resp	rsd/rf	adatetime	DF
M47K016000	STD1REP1	0	287		11/16/0710:59	1
M47K016001	STD2REP1	.2	15349		11/16/0711:01	1
M47K016002	STD3REP1	1	88793		11/16/0711:03	1
M47K016003	STD4REP1	2	166536		11/16/0711:05	1
M47K016004	STD5REP1	5	408673		11/16/0711:07	1
M47K016005	STD6REP1	10	786847		11/16/0711:09	1
M47K016006	ICV	2.02	164802	0	11/16/0711:13	1
M47K016007	ICB	-.042	2325	0	11/16/0711:15	1
M47K016008	CCV1	4.85	387740	0	11/16/0711:17	1
M47K016009	CCB1	-.049	1778	0	11/16/0711:19	1
M47K016010	HGK026SB	-.004	5283	0	11/16/0711:21	1
M47K016011	HGK026SL	4.87	389145	0	11/16/0711:23	1
M47K016012	HGK026SC	4.94	394266	0	11/16/0711:25	1
M47K016013	K115-03A	2.07	168694	0	11/16/0711:27	1
M47K016014	K115-03	.007	6171	0	11/16/0711:29	1
M47K016015	K115-03J	-.025	3683	0	11/16/0711:31	5
M47K016016	K115-03M	5.05	402866	0	11/16/0711:33	1
M47K016017	K115-03S	5.05	403446	0	11/16/0711:36	1
M47K016018	K115-05	.11	14285	0	11/16/0711:38	1
M47K016019	K115-06	.113	14537	0	11/16/0711:40	1
M47K016020	CCV2	4.91	391779	0	11/16/0711:42	1
M47K016021	CCB2	-.031	3150	0	11/16/0711:44	1
M47K016022	K136-01	2.16	175714	0	11/16/0711:46	1
M47K016023	K136-04	-.048	1800	0	11/16/0711:48	1
M47K016024	K136-05	.01	6397	0	11/16/0711:50	1
M47K016025	K136-10	.009	6327	0	11/16/0711:52	1
M47K016026	K164-03	.614	53931	0	11/16/0711:54	1
M47K016027	K164-04	.243	24782	0	11/16/0711:56	1
M47K016028	K164-07	.087	12491	0	11/16/0711:58	1
M47K016029	K164-08	.64	55997	0	11/16/0712:00	1
M47K016030	K164-09	-.053	1474	0	11/16/0712:02	1
M47K016031	K172-09	-.042	2330	0	11/16/0712:04	1
M47K016032	CCV3	4.98	397552	0	11/16/0712:06	1
M47K016033	CCB3	.018	7065	0	11/16/0712:08	1
M47K016034	HGK027SB	-.004	5292	0	11/16/0712:10	1
M47K016035	HGK027SL	4.9	391076	0	11/16/0712:12	1
M47K016036	HGK027SC	4.88	389463	0	11/16/0712:14	1
M47K016037	K129-03A	1.86	152342	0	11/16/0712:16	1
M47K016038	K129-03	-.022	3900	0	11/16/0712:18	1
M47K016039	K129-03J	-.004	5297	0	11/16/0712:20	5
M47K016040	K129-03M	4.58	365810	0	11/16/0712:22	1
M47K016041	K129-03S	4.61	368818	0	11/16/0712:24	1
M47K016042	K129-04	.039	8647	0	11/16/0712:26	1
M47K016043	K129-13	.067	10904	0	11/16/0712:28	1
M47K016044	CCV4	4.86	388077	0	11/16/0712:30	1
M47K016045	CCB4	-.028	3432	0	11/16/0712:33	1
M47K016046	K129-14	-.053	1439	0	11/16/0712:35	1
M47K016047	K129-25	-.032	3065	0	11/16/0712:37	1
M47K016048	K129-26	-.013	4616	0	11/16/0712:39	1
M47K016049	K148-01	.119	15010	0	11/16/0712:41	1
M47K016050	K148-02	-.051	1603	0	11/16/0712:43	1
M47K016051	K148-03	-.013	4581	0	11/16/0712:45	1
M47K016052	K148-04	-.033	3024	0	11/16/0712:47	1
M47K016053	K033-23	.001	5703	0	11/16/0712:49	1
M47K016054	J057-07	2.61	211215	0	11/16/0712:51	1
M47K016055	J057-09	.787	67538	0	11/16/0712:53	1
M47K016056	CCV5	4.87	389292	0	11/16/0712:55	1
M47K016057	CCB5	-.039	2571	0	11/16/0712:57	1
M47K016058	K432-01	.121	15137	0	11/16/0712:59	1
M47K016059	K438-01	.071	11232	0	11/16/0713:02	1
M47K016060	K438-02	.048	9413	0	11/16/0713:04	1
M47K016061	K438-03	.063	10569	0	11/16/0713:06	1
M47K016062	K438-04	.223	23140	0	11/16/0713:08	1
M47K016063	K438-05	.04	8735	0	11/16/0713:10	1
M47K016064	HGK028SB	-.014	4485	0	11/16/0713:12	1
M47K016065	HGK028SL	4.85	387295	0	11/16/0713:14	1
M47K016066	HGK028SC	4.82	385346	0	11/16/0713:16	1
M47K016067	K033-05A	1.89	154312	0	11/16/0713:18	1
M47K016068	CCV6	4.8	383253	0	11/16/0713:20	1
M47K016069	CCB6	-.035	2896	0	11/16/0713:22	1
M47K016070	K033-05	.062	10458	0	11/16/0713:24	1
M47K016071	K033-05J	.045	9139	0	11/16/0713:27	5
M47K016072	K033-05M	3.75	300675	0	11/16/0713:29	1
M47K016073	K033-05S	4.3	343908	0	11/16/0713:31	1
M47K016074	K033-03	-.031	3173	0	11/16/0713:33	1

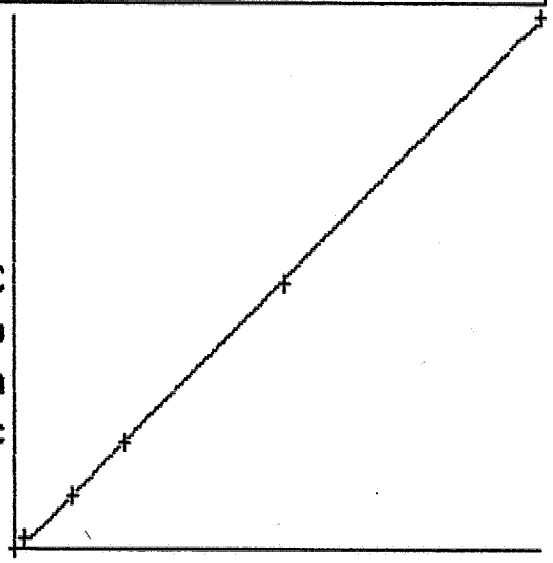
M47K016075	K033-04	.014	6688	0	11/16/0713:35	1
M47K016076	K033-06	.042	8926	0	11/16/0713:37	1
M47K016077	K033-07	.102	13612	0	11/16/0713:39	1
M47K016078	K033-08	.165	18610	0	11/16/0713:41	1
M47K016079	K033-09	.088	12537	0	11/16/0713:43	1
M47K016080	CCV7	4.83	385849	0	11/16/0713:46	1
M47K016081	CCB7	-.014	4495	0	11/16/0713:48	1
M47K016082	K033-10	.056	10044	0	11/16/0713:50	1
M47K016083	K033-11	.026	7672	0	11/16/0713:52	1
M47K016084	K033-12	.01	6412	0	11/16/0713:54	1
M47K016085	K033-13	.044	9094	0	11/16/0713:56	1
M47K016086	K033-14	.079	11833	0	11/16/0713:58	1
M47K016087	K033-15	.075	11527	0	11/16/0714:00	1
M47K016088	K033-16	-.014	4514	0	11/16/0714:02	1
M47K016089	K033-17	.003	5827	0	11/16/0714:04	1
M47K016090	K033-18	.034	8268	0	11/16/0714:06	1
M47K016091	K033-19	.062	10532	0	11/16/0714:08	1
M47K016092	CCV8	4.89	390429	0	11/16/0714:10	1
M47K016093	CCB8	-.053	1467	0	11/16/0714:12	1
M47K016094	K033-20	.118	14878	0	11/16/0714:14	1
M47K016095	K033-21	-.034	2958	0	11/16/0714:16	1
M47K016096	K033-22	-.029	3314	0	11/16/0714:18	1
M47K016097	HGK029SB	-.005	5215	0	11/16/0714:20	1
M47K016098	HGK029SL	4.86	388502	0	11/16/0714:22	1
M47K016099	HGK029SC	4.83	386104	0	11/16/0714:24	1
M47K016100	ZZZZ	1.18	98575	0	11/16/0714:26	1
M47K016101	K104-01	-.018	4214	0	11/16/0714:28	1
M47K016102	K104-01J	.007	6182	0	11/16/0714:31	5
M47K016103	K104-01M	4.27	341686	0	11/16/0714:33	1
M47K016104	CCV9	4.84	386775	0	11/16/0714:35	1
M47K016105	CCB9	-.001	5537	0	11/16/0714:36	1
M47K016106	K104-01S	4.29	343016	0	11/16/0714:38	1
M47K016107	K104-02	-.029	3313	0	11/16/0714:40	1
M47K016108	K104-03	.052	9707	0	11/16/0714:43	1
M47K016109	K104-04	-.032	3107	0	11/16/0714:45	1
M47K016110	K104-06	-.005	5200	0	11/16/0714:47	1
M47K016111	K104-07	-.065	525	0	11/16/0714:49	1
M47K016112	K104-08	-.033	3027	0	11/16/0714:51	1
M47K016113	K104-09	-.017	4307	0	11/16/0714:53	1
M47K016114	K104-10	-.032	3079	0	11/16/0714:55	1
M47K016115	K104-11	-.052	1496	0	11/16/0714:57	1
M47K016116	CCV10	4.82	384776	0	11/16/0714:59	1
M47K016117	CCB10	-.008	4968	0	11/16/0715:01	1
M47K016118	K104-12	-.022	3877	0	11/16/0715:03	1
M47K016119	K104-13	.065	10765	0	11/16/0715:05	1
M47K016120	K104-14	-.004	5273	0	11/16/0715:07	1
M47K016121	K104-15	.276	27350	0	11/16/0715:09	1
M47K016122	K104-16	-.03	3270	0	11/16/0715:11	1
M47K016123	K104-17	-.008	4979	0	11/16/0715:13	1
M47K016124	K104-18	-.006	5141	0	11/16/0715:15	1
M47K016125	K104-01A	1.78	145785	0	11/16/0715:17	1
M47K016126	CCV11	4.79	382864	0	11/16/0715:20	1
M47K016127	CCB11	-.009	4924	0	11/16/0715:22	1
**********	**********	**********	**********	**********	**********	***
EMAX1fid	EMAX1sid	Xint	Yint	rrf	adatetime	DF
M47K016000	BLANK	-7.281214E-02	5729.39	.9997611	11/16/0715:22	1

RunProt: HGCOM
RunFold: M47K016 Seq: 6 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 11:12:02 16 Nov 2007 Xmit: Off Gas: 0.35 LPM
State: Idle User: MTNTH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear	
S1	.000	-.068	-.068	Quadratic	
S2	.200	.124	-.076	Wtdlinear	
S3	1.00	1.06	.057		C
S4	2.00	2.04	.044	Accept	o
S5	5.00	5.12	.120		n
S6	10.0	9.92	-.076		c

A .0000000 r .999761
B 1.27025e-5 C -7.13282e-2



Relative Absorbance

	Mean			
S1	287	0	SD	287
S2	15349	0	%RSD	15349
S3	88793	0	%RSD	88793
S4	166536	0	%RSD	166536
S5	400673	0	%RSD	400673
S6	706847	0	%RSD	706847

New cal coefficients stored

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☑ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Soil Start Date: 11/15/07 Time: 15:30 Ending Date: 11/15/07 Time: 16:30 Book # E47-059

BATCH: HGK027S

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture/Clarity	Matrix Description Artifacts	Sample Amount (g/ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	100	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK027SB				0.600g					
12	SL				0.600					
13	SC				0.600					
14	K129-03	Bn	Fn		0.601					
15	03M				0.601					
16	03S				0.603					
17	04				0.602					
18	13				0.602					
19	14				0.602					
20	25				0.604					
21	26				0.601					
22	K148-01				0.601					
23	02				0.603					
24	03				0.601					
25	04				0.601					
26	K033-23				0.602					
27	J057-07				0.602					
28	09				0.604					

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL SM	3B-07-731	100	0.2, 1, 2, 5, 10
ICV SM	3B-07-732		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3 } aqua	SWIA-03-601		
HCl / regia	SWIA-03-612		
H_2SO_4	N/A		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$	N/A		
$NH_2OH.HCl$	SM5B-02-75		
$SnCl_2$	68		

Temp of Digestion Bath: 95 °C

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7115

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☑ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Soil Start Date: 11/15/07 Time: 15:30 Ending Date: 11/15/07 Time: 16:30 Book # E47-059

BATCH: HGK0275

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture/Clarity	Matrix Description: Artifacts	Sample Amount (g | ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description: Color	Matrix Description: Clarity
01	K432-01	Bn	Fn	N/A	0.602	N/A	N/A	100	Cr	Cr
02	K438-01	↓	↓	↓	0.602	↓	↓	↓	↓	↓
03	02	↓	↓	↓	0.601	↓	↓	↓	↓	↓
04	03	↓	↓	↓	0.601	↓	↓	↓	↓	↓
05	04	↓	↓	↓	0.603	↓	↓	↓	↓	↓
06	05	↓	↓	↓	0.603	↓	↓	↓	↓	↓
07										
08										
09										
10										
11										
12										
13										
14						NT				
15						11/15/07				
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL			
ICV			
CCV/MS			
LCS			
Reagent	Lot# / ID		
HNO_3			
HCl			
H_2SO_4			
$KMnO_4$			
$K_2S_2O_8$			
$NH_2OH.HCl$	SAME AS PAGE 7		
$SnCl_2$			

Temp of Digestion Bath: °C

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☑ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Soil Start Date: 11/15/07 Time: 16:00 Ending Date: 11/15/07 Time: 17:00 Book # E47-059

BATCH: HGK028S

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g/ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	100	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK028SB				0.600g					
12	SL				0.600					
13	SC				0.600					
14	K033-03	Bn	Fn		0.601					
15	04				0.601					
16	05				0.602					
17	05M				0.602					
18	05S				0.601					
19	06				0.601					
20	07				0.603					
21	08				0.604					
22	09				0.601					
23	10				0.601					
24	11				0.602					
25	12				0.601					
26	13				0.601					
27	14				0.604					
28	15				0.602					

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL	SM3B-07-731	100	0.2, 1, 2, 5, 10
ICV	SM3B-07-732		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3 / aqua	SW1A-03-601		
HCl / regia	SW1A-03-612		
H_2SO_4	N/A		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$	N/A		
$NH_2OH.HCl$	SM5B-02-75		
$SnCl_2$	68		
Temp of Digestion Bath:	95 °C		

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

2117

DIGESTION LOG FOR MERCURY

SOP ☐ EMAX-7470 Rev. No.3 ☑ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Soil | Start Date: 11/15/07 | Time: 16:00 | Ending Date: 11/15/07 | Time: 17:00 | Book # E47-059

BATCH: HGK028S

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture/Clarity	Matrix Description Artifacts	Sample Amount (g | ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	K033-16	Bn	Fn	N/A	0.601	N/A	N/A	100	Cr	Cr
02	17				0.602					
03	18				0.602					
04	19				0.601					
05	20				0.601					
06	21				0.601					
07	22				0.602					
08										
09										
10										
11										
12										
13										
14										
15										
16							NT			
17							11/15/07			
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL			
ICV			
CCV/MS			
LCS			
Reagent	Lot# / ID		
HNO_3			
HCl			
H_2SO_4			
$KMnO_4$			
$K_2S_2O_8$			
$NH_2OH.HCl$			
$SnCl_2$			

SAME AS PAGE 9

Temp of Digestion Bath: °C

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT | Witnessed By: MC

Checked By:

Disposed By: | Date Disposed:

7118

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/6/07 Time: 13:00 Ending Date: 11/6/07 Time: 15:30 Book # E47-058

BATCH: HGK011W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g / ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	75	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGK011WB				50					
12	WL									
13	WC									
14	J363-03						<2			
15	03M						<2			
16	035						<2			
17	J345-02						<2			
18	J549-01	Bn	Td				<2			
19	J385-02	Cr	Cr				<2			
20	J955-02						<2			
21	03						<2			
22	04						<2			
23	K051-03						<2			
24	J393-04						<2			
25	K017-02						<2			
26	03						<2			
27	K038-01						<2			
28	K033-02						<2			

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL SM	3B-07-715	50	0.2,1,2,5,10
ICV SM	3B-07-716		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3	SW1A-03-601		
HCl	N/A		
H_2SO_4	SW1A-03-617		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$		76	
$NH_2OH.HCl$		75	
$SnCl_2$		68	
Temp of Digestion Bath:	95 °C		

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7159

EMAX LABORATORIES, INC.

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐

Matrix: Water Start Date: 11/6/07 Time: 13:00 Ending Date: 11/6/07 Time: 15:30 Book # E47-058

BATCH: HGK011W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (g / ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	K047-04	Cr	Cr	N/A	50	N/A	<2	75	Cr	Cr
02	05						<2			
03	06						<2			
04	07						<2			
05	08						<2			
06	09						<2			
07	K410-01	Yw	Td				10			
08										
09										
10										
11										
12										
13										
14										
15										
16						NT				
17						11/6/07				
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL			
ICV			
CCV/MS			
LCS			
Reagent		Lot# / ID	
HNO_3			
HCl			
H_2SO_4			
$KMnO_4$			
$K_2S_2O_8$			
$NH_2OH.HCl$			
$SnCl_2$			
Temp of Digestion Bath:	°C		
Legend			

SAME AS PAGE 81

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7129

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 314.0
PERCHLORATE

SDG#: 07K033

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **07K033**

METHOD 314.0
PERCHLORATE

One (1) water and twenty-one (21) soil samples were received on 11/02/07 for Perchlorate analysis by Method 314.0 in accordance with "Method for Determination of Perchlorate by Ion Chromatography", EPA 600/98-118.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blanks were free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control sample results were within QC limits.

4. Duplicate

Sample K033-05 was analyzed for duplicate. %RPD was within QC limit.

5. Matrix Spike

Sample K033-05 was spiked. %Recovery was within QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07K033

Matrix : WATER
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCK003WB	ND	1	NA	2.00	0.500	11/06/0714:37	NA	JK06002	JK06001	PCK003W	NA	NA
LCS1W	PCK003WL	22.3	1	NA	2.00	0.500	11/06/0715:19	NA	JK06004	JK06001	PCK003W	NA	NA
LCD1W	PCK003WC	23.1	1	NA	2.00	0.500	11/06/0715:40	NA	JK06005	JK06001	PCK003W	NA	NA
LEB-110107	K033-02	ND	1	NA	2.00	0.500	11/06/0720:08	NA	JK06015	JK06012	PCK003W	11/01/0708:30	11/02/07

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 07K033

Matrix : SOIL
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PCK008SB	ND	1	NA	20.0	10.0	11/14/0716:08	11/09/0717:30	JK14002	JK14001	PCK008S	NA	11/09/07
LCS1S	PCK008SL	233	1	NA	20.0	10.0	11/14/0716:50	11/09/0717:30	JK14004	JK14001	PCK008S	NA	11/09/07
LCD1S	PCK008SC	231	1	NA	20.0	10.0	11/14/0717:11	11/09/0717:30	JK14005	JK14001	PCK008S	NA	11/09/07
SB3-0.5'	K033-03	ND	1	5.0	21.1	10.5	11/14/0717:52	11/09/0717:30	JK14006	JK14001	PCK008S	11/01/0710:10	11/02/07
SB3-5	K033-04	ND	1	3.9	20.8	10.4	11/14/0718:13	11/09/0717:30	JK14007	JK14001	PCK008S	11/01/0710:12	11/02/07
SB3-10	K033-05	ND	1	5.6	21.2	10.6	11/14/0718:34	11/09/0717:30	JK14008	JK14001	PCK008S	11/01/0710:25	11/02/07
SB3-10DUP	K033-05D	ND	1	5.6	21.2	10.6	11/14/0718:55	11/09/0717:30	JK14009	JK14001	PCK008S	11/01/0710:25	11/02/07
SB3-10MS	K033-05M	101	1	5.6	21.2	10.6	11/14/0719:16	11/09/0717:30	JK14010	JK14001	PCK008S	11/01/0710:25	11/02/07
SB3-15	K033-06	14.2J	1	4.6	21.0	10.5	11/14/0720:19	11/09/0717:30	JK14013	JK14012	PCK008S	11/01/0710:38	11/02/07
SB3-20	K033-07	ND	1	9.0	22.0	11.0	11/14/0720:40	11/09/0717:30	JK14014	JK14012	PCK008S	11/01/0711:18	11/02/07
SB3-20'DUP	K033-08	ND	1	9.5	22.1	11.0	11/14/0721:01	11/09/0717:30	JK14015	JK14012	PCK008S	11/01/0711:28	11/02/07
SB3-25	K033-09	14.0J	1	5.6	21.2	10.6	11/14/0721:22	11/09/0717:30	JK14016	JK14012	PCK008S	11/01/0711:30	11/02/07
SB3-25DUP	K033-10	ND	1	5.6	21.2	10.6	11/14/0721:43	11/09/0717:30	JK14017	JK14012	PCK008S	11/01/0711:31	11/02/07
SB3-30	K033-11	ND	1	5.3	21.1	10.6	11/14/0722:04	11/09/0717:30	JK14018	JK14012	PCK008S	11/01/0711:32	11/02/07
SB3-35	K033-12	ND	1	7.2	21.6	10.8	11/14/0722:25	11/09/0717:30	JK14019	JK14012	PCK008S	11/01/0711:55	11/02/07
SB3-40	K033-13	ND	1	8.3	21.8	10.9	11/14/0722:46	11/09/0717:30	JK14020	JK14012	PCK008S	11/01/0712:06	11/02/07
SB3-45	K033-14	ND	1	9.7	22.1	11.1	11/14/0723:07	11/09/0717:30	JK14021	JK14012	PCK008S	11/01/0712:12	11/02/07
SB3-50	K033-15	ND	1	5.9	21.3	10.6	11/15/0700:10	11/09/0717:30	JK14024	JK14023	PCK008S	11/01/0712:30	11/02/07
SB3-55	K033-16	ND	1	8.6	21.9	10.9	11/15/0700:31	11/09/0717:30	JK14025	JK14023	PCK008S	11/01/0712:37	11/02/07
SB3-60	K033-17	ND	1	7.8	21.7	10.8	11/15/0700:52	11/09/0717:30	JK14026	JK14023	PCK008S	11/01/0712:59	11/02/07
SB3-65	K033-18	ND	1	8.4	21.8	10.9	11/15/0701:13	11/09/0717:30	JK14027	JK14023	PCK008S	11/01/0713:21	11/02/07
SB3-70	K033-19	ND	1	9.8	22.2	11.1	11/15/0701:35	11/09/0717:30	JK14028	JK14023	PCK008S	11/01/0713:38	11/02/07
SB3-75	K033-20	ND	1	10.6	22.4	11.2	11/15/0701:56	11/09/0717:30	JK14029	JK14023	PCK008S	11/01/0714:00	11/02/07
SB3-80	K033-21	ND	1	8.3	21.8	10.9	11/15/0702:17	11/09/0717:30	JK14030	JK14023	PCK008S	11/01/0715:18	11/02/07
SB3-85	K033-22	ND	1	9.7	22.1	11.1	11/15/0702:38	11/09/0717:30	JK14031	JK14023	PCK008S	11/01/0715:42	11/02/07
MBLK2S	PCK009SB	ND	1	NA	20.0	10.0	11/15/0704:02	11/09/0717:30	JK14035	JK14034	PCK009S	NA	11/09/07
LCS2S	PCK009SL	231	1	NA	20.0	10.0	11/15/0704:44	11/09/0717:30	JK14037	JK14034	PCK009S	NA	11/09/07
LCD2S	PCK009SC	231	1	NA	20.0	10.0	11/15/0705:05	11/09/0717:30	JK14038	JK14034	PCK009S	NA	11/09/07
SB3-90	K033-23	ND	1	11.3	22.5	11.3	11/15/0705:26	11/09/0717:30	JK14039	JK14034	PCK009S	11/01/0716:20	11/02/07

QC SUMMARY

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	PCK003WB	PCK003WL	PCK003WC		
LAB FILE ID:	JK06002	JK06004	JK06005		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	11/06/0714:37	11/06/0715:19	11/06/0715:40	DATE RECEIVED:	NA
PREP. BATCH:	PCK003W	PCK003W	PCK003W		
CALIB. REF:	JK06001	JK06001	JK06001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	22.3	89	25.0	23.1	92	4	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 314.0

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	PCK008SB	PCK008SL	PCK008SC		
LAB FILE ID:	JK14002	JK14004	JK14005		
DATE EXTRACTED:	11/09/0717:30	11/09/0717:30	11/09/0717:30	DATE COLLECTED:	NA
DATE ANALYZED:	11/14/0716:08	11/14/0716:50	11/14/0717:11	DATE RECEIVED:	11/09/07
PREP. BATCH:	PCK008S	PCK008S	PCK008S		
CALIB. REF:	JK14001	JK14001	JK14001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	250	233	93	250	231	92	1	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 314.0

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2S				
LAB SAMP ID:	PCK009SB	PCK009SL	PCK009SC		
LAB FILE ID:	JK14035	JK14037	JK14038		
DATE EXTRACTED:	11/09/0717:30	11/09/0717:30	11/09/0717:30	DATE COLLECTED:	NA
DATE ANALYZED:	11/15/0704:02	11/15/0704:44	11/15/0705:05	DATE RECEIVED:	11/09/07
PREP. BATCH:	PCK009S	PCK009S	PCK009S		
CALIB. REF:	JK14034	JK14034	JK14034		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	250	231	92	250	231	92	0	85-115	20

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EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 314.0

==========

MATRIX:	SOIL		% MOISTURE:	5.6
DILUTION FACTOR:	1	1		
SAMPLE ID:	SB3-10			
LAB SAMP ID:	K033-05	K033-05M		
LAB FILE ID:	JK14008	JK14010		
DATE EXTRACTED:	11/09/0717:30	11/09/0717:30	DATE COLLECTED:	11/01/07 10:25
DATE ANALYZED:	11/14/0718:34	11/14/0719:16	DATE RECEIVED:	11/02/07
PREP. BATCH:	PCK008S	PCK008S		
CALIB. REF:	JK14001	JK14001		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	QC LIMIT (%)
Perchlorate	ND	106	101	95	80-120

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 07K033
METHOD: METHOD 314.0

MATRIX:	SOIL		% MOISTURE:	5.6
DILUTION FACTOR:	1	1		
SAMPLE ID:	SB3-10			
EMAX SAMP ID:	K033-05	K033-05D		
LAB FILE ID:	JK14008	JK14009		
DATE EXTRACTED:	11/09/0717:30	11/09/0717:30	DATE COLLECTED:	11/01/07 10:25
DATE ANALYZED:	11/14/0718:34	11/14/0718:55	DATE RECEIVED:	11/02/07
PREP. BATCH:	PCK008S	PCK008S		
CALIB. REF:	JK14001	JK14001		

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	DUPL RSLT (ug/kg)	RPD RSLT %	QC LIMIT (%)
Perchlorate	ND	ND	0	20

INITIAL CALIBRATION

IC SEQ FORM (ESD)

LFID	LSID	SELCOMP	METHOD	DateTime	DF
JI07001	IB	P	IC57I07	09/07/0712:02	1
JI07002	S-0.0	P	IC57I07	09/07/0712:23	1
JI07003	S-2.0	P	IC57I07	09/07/0712:44	1
JI07004	S-4.0	P	IC57I07	09/07/0713:06	1
JI07005	S-10.0	P	IC57I07	09/07/0713:27	1
JI07006	S-25.0	P	IC57I07	09/07/0713:48	1
JI07007	S-30.0	P	IC57I07	09/07/0714:09	1
JI07008	ICV	P	IC57I07	09/07/0714:30	1
JI07009	ICB	P	IC57I07	09/07/0715:14	1

pw 9-7-07

8012

Method : c:\ezchrom\methods\ic57i07.met
Printed : Sep 07, 2007 15:50:05
Channel : A
Peak : PERCHLORATE

* - Replicate Not Used

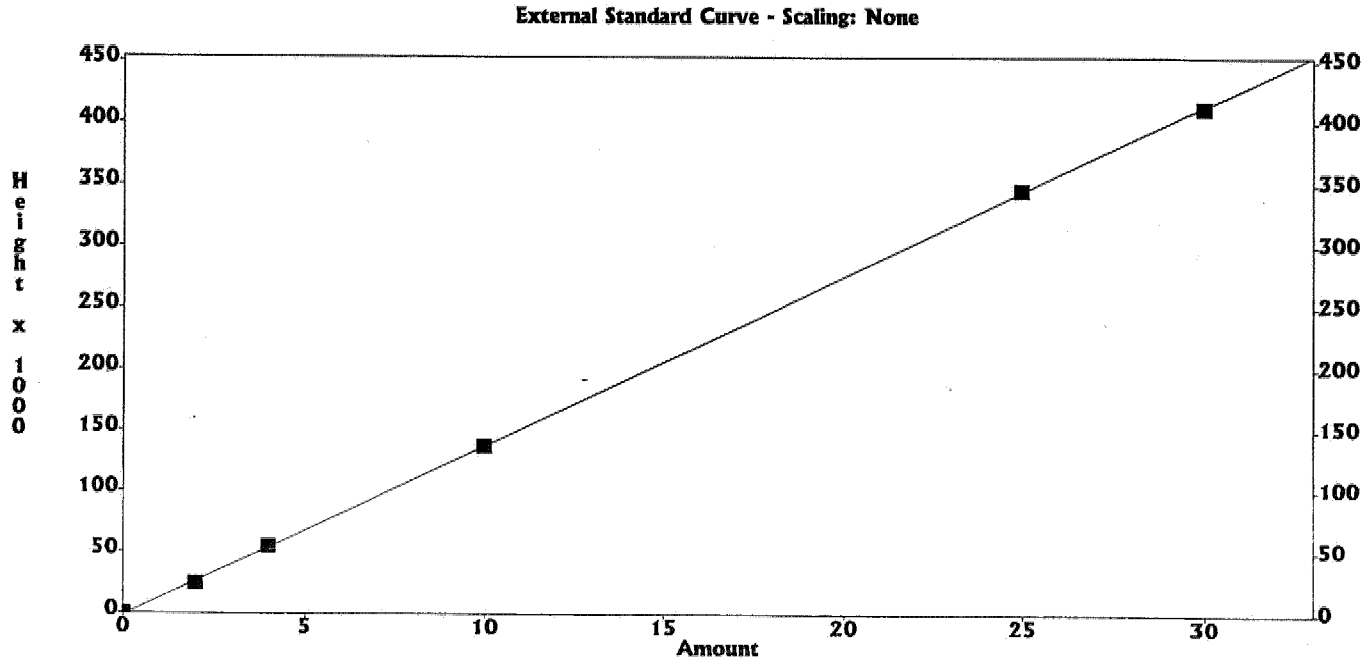
Level	Height	Amount	RF	Rep Hgt 1	Rep Hgt 2	Rep Hgt 3	Rep Hgt 4	Rep Hgt 5	Replic STD	Replic %RSD	Old Height
2	24283	2	12141.50	24283							0
3	54790	4	13697.50	54790							0
4	137022	10	13702.20	137022							0
5	345226	25	13809.04	345226							0
6	412192	30	13739.73	412192							0

Calib Flag: Replace

Average RF: 13418
RF StdDev: 714.977
RF %RSD: 5.328

RF Definition: Height / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 7.22736e-005 x Height + 0.128135
R^2 = 0.999945



RW 9-7-07

8013

SECOND SOURCE

IC RESULT FORM CalVersion: PCHLO314.I07/JI07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JI07001	IB	P	.000	09/07/0712:02	1
JI07002	S-0.0	P	.0000	09/07/0712:23	1
JI07003	S-2.0	P	2	09/07/0712:44	1
JI07004	S-4.0	P	4	09/07/0713:06	1
JI07005	S-10.0	P	10	09/07/0713:27	1
JI07006	S-25.0	P	25	09/07/0713:48	1
JI07007	S-30.0	P	30	09/07/0714:09	1
JI07008	ICV	P	95%	09/07/0714:30	1
JI07009	ICB	P	.000	09/07/0715:14	1

DAILY CALIBRATION

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK06001	IPCS	P	84.5%	11/06/0714:16	1
JK06002	PCK003WB	P	.000	11/06/0714:37	1
JK06003	MRL	P	102%	11/06/0714:58	1
JK06004	PCK003WL	P	22.3	11/06/0715:19	1
JK06005	PCK003WC	P	23.1	11/06/0715:40	1
JK06006	J344-02	P	.000	11/06/0716:15	1
JK06007	J345-02	P	.000	11/06/0716:36	1
JK06008	K042-02	P	.000	11/06/0716:57	1
JK06009	K042-03	P	4.94	11/06/0717:18	1
JK06010	J385-02	P	3.53	11/06/0717:39	1
JK06011	K042-02	P	.000	11/06/0718:00	5
JK06012	CCV49-15	P	92%	11/06/0718:21	1
JK06013	J955-02	P	.000	11/06/0719:26	1
JK06014	J955-03	P	.000	11/06/0719:47	1
JK06015	K033-02	P	.000	11/06/0720:08	1
JK06016	K017-02	P	.000	11/06/0720:29	1
JK06017	K017-03	*	45.3E	11/06/0720:50	1
JK06018	J396-01	P	51.4	11/06/0721:11	5
JK06019	J396-02	P	2.42	11/06/0721:32	1
JK06020	RINSE	P	.000	11/06/0721:53	1
JK06021	J396-02R	P	2.65	11/06/0722:14	1
JK06022	RINSE	P	.000	11/06/0722:35	1
JK06023	CCV50-30	P	88.9%*	11/06/0722:56	1
JK06024	J396-03	P	2.23	11/06/0723:17	1
JK06025	RINSE	P	.000	11/06/0723:38	1
JK06026	J396-03R	P	2.42	11/06/0723:59	1
JK06027	RINSE	P	.000	11/07/0700:20	1
JK06028	J396-01D	P	51	11/07/0700:41	5
JK06029	J396-01M	P	95	11/07/0701:02	5
JK06030	J955-04	*	.000	11/07/0701:23	5
JK06031	K042-03R	P	6.13	11/07/0701:44	1
JK06032	J344-08	*	1990E	11/07/0702:05	50
JK06033	J344-07	*	10400E	11/07/0702:26	200
JK06034	CCV51-15	P	89.8%*	11/07/0702:47	1
JK06035	J344-07D	*	10400E	11/07/0703:08	200
JK06036	J344-07M	*	12100E	11/07/0703:29	200
JK06037	J344-09	*	1090E	11/07/0703:50	20
JK06038	J344-12	*	802E	11/07/0704:11	20
JK06039	J345-06	*	763E	11/07/0704:32	20
JK06040	J345-07	P	486	11/07/0704:53	20
JK06041	J345-08	P	588	11/07/0705:15	20
JK06042	J345-09	P	412	11/07/0705:36	20
JK06043	J345-10	P	409	11/07/0705:57	20
JK06044	J345-15	P	254	11/07/0706:18	20
JK06045	CCV52-30	P	87.6%*	11/07/0706:39	1
JK06046	J345-16	P	69.4	11/07/0707:00	10
JK06047	J345-17	P	255	11/07/0707:21	20
JK06048	J345-18	P	265	11/07/0707:42	20
JK06049	J345-19	P	583	11/07/0708:03	20
JK06050	J345-20	*	766E	11/07/0708:24	20
JK06051	J345-20D	*	768E	11/07/0708:45	20
JK06052	J345-20M	*	965E	11/07/0709:06	20
JK06053	J346-01	*	1510E	11/07/0709:27	50
JK06054	CCV53-15	P	89.8%*	11/07/0709:48	1
JK06055	IPCS	P	84.7%	11/07/0712:06	1
JK06056	PCK004SB	P	.000	11/07/0712:27	1
JK06057	MRL	P	112%	11/07/0712:48	1
JK06058	PCK004SL	P	22	11/07/0713:09	1
JK06059	PCK004SC	P	21.7	11/07/0713:30	1
JK06060	J346-03	P	1.39	11/07/0713:51	1
JK06061	J346-04	P	.000	11/07/0714:12	1
JK06062	J346-05	P	.000	11/07/0714:33	1
JK06063	J346-06	P	.000	11/07/0714:54	1
JK06064	J346-07	P	.000	11/07/0715:15	1
JK06065	RINSE	P	1.22	11/07/0715:36	1
JK06066	CCV54-30	P	86.5%*	11/07/0715:57	1
JK06067	J346-08	P	.000	11/07/0716:18	1
JK06068	J346-09	P	.000	11/07/0716:39	1
JK06069	J346-10	P	.000	11/07/0717:00	1
JK06070	J346-11	P	1.55	11/07/0717:22	1
JK06071	J346-12	*	63.8E	11/07/0717:43	1
JK06072	J346-13	*	.000	11/07/0718:11	1
JK06073	J385-03	*	.000	11/07/0718:47	1
JK06074	J385-04	*	.000	11/07/0719:09	1

JK06075	J385-05	P	2.65	11/07/0720:24	1
JK06076	RINSE	P	.000	11/07/0720:45	1
JK06077	CCV55-15	P	85.8%*	11/07/0721:06	1
JK06078	J385-06	P	6.65	11/07/0721:27	1
JK06079	J385-06D	P	7.09	11/07/0721:48	1
JK06080	J385-06M	P	15.7	11/07/0722:09	1
JK06081	RINSE	P	.000	11/07/0722:30	1
JK06082	CCV56-30	P	87.3%*	11/07/0722:51	1
JK06083	IPCS	P	86.9%	11/07/0723:12	1
JK06084	PCK005WB	P	.000	11/07/0723:33	1
JK06085	MRL	P	108%	11/07/0723:54	1
JK06086	PCK005WL	P	21.9	11/08/0700:15	1
JK06087	PCK005WC	P	22	11/08/0700:36	1
JK06088	K017-03	*	3030E	11/08/0700:57	100
JK06089	J955-04	*	.000	11/08/0701:18	2000
JK06090	J344-08	P	1930	11/08/0701:39	100
JK06091	J344-07	P	10300	11/08/0702:00	500
JK06092	J344-07D	P	10200	11/08/0702:21	500
JK06093	J344-07M	P	14500	11/08/0702:42	500
JK06094	CCV57-15	P	93.8%	11/08/0703:03	1
JK06095	J344-09	P	1090	11/08/0703:24	100
JK06096	J344-12	P	769	11/08/0703:46	50
JK06097	J345-06	P	737	11/08/0704:07	40
JK06098	J345-20	P	762	11/08/0704:28	50
JK06099	J345-20D	P	756	11/08/0704:49	50
JK06100	J345-20M	P	1180	11/08/0705:10	50
JK06101	J346-01	P	1520	11/08/0708:30	100
JK06102	J346-12	P	82.5	11/08/0708:57	10
JK06103	J346-13	P	134	11/08/0709:18	20
JK06104	J385-03	P	916	11/08/0709:39	100
JK06105	CCV58-30	P	85.9%*	11/08/0710:00	1
JK06106	J385-04	P	1850	11/08/0710:21	100
JK06107	CCV59-15	P	86.7%*	11/08/0710:42	1

IC RESULT FORM CalVersion: PCHLO314.I07

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK14001	IPCS	P	94.4%	11/14/0715:47	1
JK14002	PCK008SB	P	.000	11/14/0716:08	1
JK14003	MRL	P	100%	11/14/0716:29	1
JK14004	PCK008SL	P	23.3	11/14/0716:50	1
JK14005	PCK008SC	P	23.1	11/14/0717:11	1
JK14006	K033-03	P	.000	11/14/0717:52	1
JK14007	K033-04	P	.000	11/14/0718:13	1
JK14008	K033-05	P	.000	11/14/0718:34	1
JK14009	K033-05D	P	.000	11/14/0718:55	1
JK14010	K033-05M	P	9.49	11/14/0719:16	1
JK14011	RINSE	P	.000	11/14/0719:37	1
JK14012	CCV65-15	P	88.8%*	11/14/0719:58	1
JK14013	K033-06	P	1.35	11/14/0720:19	1
JK14014	K033-07	P	.000	11/14/0720:40	1
JK14015	K033-08	P	.000	11/14/0721:01	1
JK14016	K033-09	P	1.32	11/14/0721:22	1
JK14017	K033-10	P	.000	11/14/0721:43	1
JK14018	K033-11	P	.000	11/14/0722:04	1
JK14019	K033-12	P	.000	11/14/0722:25	1
JK14020	K033-13	P	.000	11/14/0722:46	1
JK14021	K033-14	P	.000	11/14/0723:07	1
JK14022	RINSE	P	.000	11/14/0723:28	1
JK14023	CCV66-30	P	91.8%	11/14/0723:49	1
JK14024	K033-15	P	.000	11/15/0700:10	1
JK14025	K033-16	P	.000	11/15/0700:31	1
JK14026	K033-17	P	.000	11/15/0700:52	1
JK14027	K033-18	P	.000	11/15/0701:13	1
JK14028	K033-19	P	.000	11/15/0701:35	1
JK14029	K033-20	P	.000	11/15/0701:56	1
JK14030	K033-21	P	.000	11/15/0702:17	1
JK14031	K033-22	P	.000	11/15/0702:38	1
JK14032	RINSE	P	.000	11/15/0702:59	1
JK14033	CCV67-15	P	92.6%	11/15/0703:20	1
JK14034	IPCS	P	93.5%	11/15/0703:41	1
JK14035	PCK009SB	P	.000	11/15/0704:02	1
JK14036	MRL	P	97.2%	11/15/0704:23	1
JK14037	PCK009SL	P	23.1	11/15/0704:44	1
JK14038	PCK009SC	P	23.1	11/15/0705:05	1
JK14039	K033-23	P	.000	11/15/0705:26	1
JK14040	RINSE	P	.000	11/15/0705:47	1
JK14041	CCV68-30	P	93.1%	11/15/0706:08	1

ANALYTICAL LOG

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK06

Method File: IC57I07

Analytical Batch: PCK003W, PCK004W/S & PCK005W
ae 11/06/07

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	↓ 988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1017 ae 11/06/07
LCS	1018
MS	999
IPC	↓ 1014
CMC	SW8B-02-1027
MRL	SW8B-02-1015 ae 11/06/07

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
145.8 µS/cm	(±) 30	25°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: ae

Date: 11/06/07

8021

Method: Ic57i07.met Batch: Jk06.seq Data: Jk02.054 - [Batch: jk06.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Reslib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 4880 uS/cm	ic57i07.met	JK06.001	1	
2	PCK003WB *BAH	ic57i07.met	JK06.002	1	
3	MRL	ic57i07.met	JK06.003	1	
4	PCK003WL *BAH	ic57i07.met	JK06.004	1	
5	PCK003WC	ic57i07.met	JK06.005	1	
6	J344-02 3.10 uS/cm	ic57i07.met	JK06.006	1	
7	J345-02 2.80 uS/cm	ic57i07.met	JK06.007	1	
8	K042-02 1158 uS/cm	ic57i07.met	JK06.008	1	Rec; not used.
9	K042-03 518	ic57i07.met	JK06.009	1	Rec.
10	J385-02 al 11/6/07 3.60 uS/cm	ic57i07.met	JK06.010	1	
11	~~RINSE~~ K042-02 DF=5	ic57i07.met	JK06.011	5 1	al 11/6/07
12	CCV49-15	ic57i07.met	JK06.012	1	
13	J955-02 2.05 uS/cm *BAH	ic57i07.met	JK06.013	1	
14	J955-03 2.70 al 11/6/07	ic57i07.met	JK06.014	1	
15	K033-02 3.01 uS/cm	ic57i07.met	JK06.015	1	
16	K017-02 3.35 uS/cm	ic57i07.met	JK06.016	1	
17	K017-03 572	ic57i07.met	JK06.017	1	
18	J396-01 DF=5 358 uS/cm at DF1	ic57i07.met	JK06.018	5	
19	J396-02 355 uS/cm	ic57i07.met	JK06.019	1	
20	RINSE	ic57i07.met	JK06.020	1	
21	J396-02R *BAH	ic57i07.met	JK06.021	1	RE-ANALYSIS (FOR CONFIRMATION)
22	RINSE	ic57i07.met	JK06.022	1	
23	CCV50-30	ic57i07.met	JK06.023	1	
24	J396-03 335 uS/cm *BAH	ic57i07.met	JK06.024	1	
25	RINSE	ic57i07.met	JK06.025	1	

Instrument 1: T057

Tuesday, November 06, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | 12:42 PM

8022

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Na014: SW8A-02-18

Book #:	A57-015
Instrument No.:	57
Analytical Sequence:	JK14
Method File:	IC57I07
Analytical Batch:	PCK0085 & PCK0095

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	↓ 988
CCV	N/A
CCV-15	SW8B-02-1016
CCV-30	1017
LCS	1018
MS	999
IPC	↓ 1014
CMC	SWP1-01-127
MRL	SW8B-02-1015

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
146.1	(±) 30	21°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: el

Date: 11/14/07

8023

Method: Ic57i07.met Batch: Jk14.seq Data: Jk14.005 - [Batch: jk14.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID		Method	Filename	Mult.	Description
1	IPCS	4820 µs/cm	ic57i07.met	JK14.001	1	
2	PCK008SB	*BAH	ic57i07.met	JK14.002	1	
3	MRL		ic57i07.met	JK14.003	1	
4	PCK008SL	*BAH	ic57i07.met	JK14.004	1	
5	PCK008SC		ic57i07.met	JK14.005	1	
6	K033-03	57.8 µs/cm	*BAH ic57i07.met	JK14.006	1	
7	K033-04	69.5	ic57i07.met	JK14.007	1	
8	K033-05	72.5	ic57i07.met	JK14.008	1	
9	K033-05D		ic57i07.met	JK14.009	1	
10	K033-05M		ic57i07.met	JK14.010	1	
11	RINSE		ic57i07.met	JK14.011	1	
12	CCV65-15		ic57i07.met	JK14.012	1	
13	K033-06	75.6 µs/cm	*BAH ic57i07.met	JK14.013	1	
14	K033-07	84.7	ic57i07.met	JK14.014	1	
15	K033-08	88.5	ic57i07.met	JK14.015	1	
16	K033-09	111.6	ic57i07.met	JK14.016	1	
17	K033-10	113.6	ic57i07.met	JK14.017	1	
18	K033-11	88.5	ic57i07.met	JK14.018	1	
19	K033-12	158.6	ic57i07.met	JK14.019	1	
20	K033-13	183.7	ic57i07.met	JK14.020	1	
21	K033-14	216.0	ic57i07.met	JK14.021	1	
22	RINSE		ic57i07.met	JK14.022	1	
23	CCV66-30		ic57i07.met	JK14.023	1	
24	K033-15	155.1 µs/cm	*BAH ic57i07.met	JK14.024	1	
25	K033-16		ic57i07.met	JK14.025	1	

Instrument 1: T057

Wednesday, November 14, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | 5:39 PM

8024

Method: Ic57i07.met Batch: Jk14.seq Data: Jk14.005 - [Batch: jk14.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
25	K033-16 154.0 uS/cm	*BAH ic57i07.met	JK14.025	1	
26	K033-17 92.1	ic57i07.met	JK14.026	1	
27	K033-18 49.0	ic57i07.met	JK14.027	1	
28	K033-19 140.0	ic57i07.met	JK14.028	1	
29	K033-20 133.0	ic57i07.met	JK14.029	1	
30	K033-21 92.0	ic57i07.met	JK14.030	1	
31	K033-22 112.7	ic57i07.met	JK14.031	1	
32	RINSE	ic57i07.met	JK14.032	1	
33	CCV67-15	ic57i07.met	JK14.033	1	
34	IPCS 4820 uS/cm	ic57i07.met	JK14.034	1	
35	PCK009SB	*BAH ic57i07.met	JK14.035	1	
36	MRL	ic57i07.met	JK14.036	1	
37	PCK009SL	*BAH ic57i07.met	JK14.037	1	
38	PCK009SC	ic57i07.met	JK14.038	1	
39	K033-23 rd 11/14/07	ic57i07.met	JK14.039	1	
40	RINSE	ic57i07.met	JK14.040	1	
41	CCV68-30	ic57i07.met	JK14.041	1	
42	B	ic57i07.met	JK14.042	1	
43	B	ic57i07.met	JK14.043	1	
44	B	ic57i07.met	JK14.044	1	
45	B	ic57i07.met	JK14.045	1	
46	B	ic57i07.met	JK14.046	1	
47	B	ic57i07.met	JK14.047	1	
48	B	ic57i07.met	JK14.048	1	
49	B	ic57i07.met	JK14.049	1	

Instrument 1: T057

Wednesday, November 14, 2007

Start | EZChrom Chromatography ... | Method: Ic57i07.met ... | Method: Ic57i07.met Bat... | untitled - Paint | 5:39 PM

8025

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * NaOH: SW8A-02-18

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JI07

Method File: ICS7107

Analytical Batch: N/A

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-987
ICV	-988
CCV	N/A
CCV-15	N/A
CCV-30	N/A
LCS	N/A
MS	N/A
IPC	N/A
CMC	N/A
MRL	N/A

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
N/A	(±) 30	N/A

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: SA

Date: 9/7/2007

Method: Ic57i07.met Batch: Ji07.seq Data: Ji06.010 - [Batch: ji07.seq]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single Batch Recalib Analyze Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IB	ic57i07.met	JI07.001	1	
2	S-0.0	ic57i07.met	JI07.002	1	
3	S-2.0	ic57i07.met	JI07.003	1	
4	S-4.0	ic57i07.met	JI07.004	1	
5	S-10.0	ic57i07.met	JI07.005	1	
6	S-25.0	ic57i07.met	JI07.006	1	
7	S-30.0	ic57i07.met	JI07.007	1	
8	ICV	ic57i07.met	JI07.008	1	
9	ICB	ic57i07.met	JI07.009	1	
10	B	ic57i07.met	JI07.010	1	
11	B	ic57i07.met	JI07.011	1	
12	B	ic57i07.met	JI07.012	1	
13	B	ic57i07.met	JI07.013	1	
14	B	ic57i07.met	JI07.014	1	
15	B	ic57i07.met	JI07.015	1	
16	B	ic57i07.met	JI07.016	1	
17	B	ic57i07.met	JI07.017	1	
18	B	ic57i07.met	JI07.018	1	
19	B	ic57i07.met	JI07.019	1	
20	B	ic57i07.met	JI07.020	1	
21	B	ic57i07.met	JI07.021	1	
22	B	ic57i07.met	JI07.022	1	
23	B	ic57i07.met	JI07.023	1	
24	B	ic57i07.met	JI07.024	1	
25	B	ic57i07.met	JI07.025	1	

Instrument 1: T057

Friday, September 07, 2007

Start EZChem Chromatography ... Method: Ic57i07.met ... Method: Ic57i05.met Bat... 12:01 PM

8027

EXTRACTION LOG

SAMPLE PREPARATION LOG FOR ORGANIC ACID/PERCHLORATE

SOP ☑ EMAX-314.0 ☐ EMAX-300.0M

Book # E0P-002

Matrix Soil Start Date 11/09/07 Time 17:30 End Date 11/09/07 Time 18:30

PREPARATION BATCH # PCK0085

Sample Prep ID	Lab Sample ID	Sample Amount (g)	Dilution Volume (ml)	Extract Volume (ml)	Notes
*01	PCK0085B	10.000g	100mL	100mL	
*02	L				
*03	C				
*04	074033-03				
*05	-04				
*06	-05				
*07	-05D				
*08	-05M				
*09	-06				
*10	-07				
*11	-08				
*12	-09				
*13	-10				
*14	-11				
*15	-12				
*16	-13				
*17	-14				
*18	-15				
*19	-16				
*20	-17				
*21	-18				
*22	-19				
*23	-20				
*24	-21				
*25	-22				

Standards	ID	Amount Added (ml)
Acetate		
Butyrate		
Lactate		
Propionate		
Pyruvate		
Perchlorate LCS/MS	SW8B-02-999	2.5mL/1.0mL

Reagent	Lot # / ID
H_2SO_4	
Nanopure	DI

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Og = Orange Rd = Red	Fn = Fine	Td = turbid	Vg= Vegetation
Yw = Yellow			

Comments:

Prepared By: MPA/cl

Standard Added By: cl

Checked By:

MPA 11/09/07

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

80225

SAMPLE PREPARATION LOG FOR ORGANIC ACID/PERCHLORATE

SOP ☑ EMAX-314.0 ☐ EMAX-300.0M Book # E0P-002

Matrix Soil Start Date 11/09/07 Time 17:30 End Date 11/09/07 Time 18:30

PREPARATION BATCH * PCK0086

Sample Prep ID	Lab Sample ID	Sample Amount (g)	Dilution Volume (ml)	Extract Volume (ml)	Notes
*01	PCK008 SB (ok 11/09/07)	10.000g	100 ml	100 ml	
*02	SL				
*03	SC				
*04	07K033-23				
*05					
*06					
*07					
*08					
*09					
*10					
*11					
*12					
*13					
*14					
*15					
*16					
*17					
*18					
*19					
*20					
*21					
*22					
*23					
*24					
*25					

ok 11/09/07

Standards	ID	Amount Added (ml)
Acetate		
Butyrate		
Lactate		
Propionate		
Pyruvate		
Perchlorate LCS	SW8B-02-999	2.5 ml

Reagent	Lot # / ID
H_2SO_4	
Nanopure	DI H_2O

Legend:

Color	Texture	Clarity	Artifacts
Bu = Blue Bl = Black	Cs = Coarse	Cr = Clear	Rk = Rocks
Bn = Brown Gn = Green	Md = Medium	Cy = Cloudy	Sl = Shale
Og = Orange Rd = Red	Fn = Fine	Td = turbid	Vg= Vegetation
Yw = Yellow			

Comments:

Prepared By: cl

Standard Added By: cl

Checked By:

EMAX LABORATORIES, INC. 1835 W. 205th St. Torrance, CA 90501

8238

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CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **08A073**

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OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax:(310) 618-0818

Date: 01-31-2008
EMAX Batch No.: 08A073

Attn: Michael Wilson

Tetra Tech, Inc.
348 W Hospitality Lane, Ste 100
San Bernardino CA 92408

Subject: Laboratory Report
Project: LMC Beaumont Site 2

Enclosed is the Laboratory report for samples received on 01/10/08.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
LTB-010908	A073-01	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
TT-MW2-7D	A073-02	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
				METALS DISSOLVED BY ICP
				MERCURY DISSOLVED
TT-MW2-23	A073-03	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
				METALS DISSOLVED BY ICP
				MERCURY DISSOLVED
TT-MW2-21	A073-04	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
				METALS DISSOLVED BY ICP
				MERCURY DISSOLVED

Sample ID	Control #	Col Date	Matrix	Analysis
TT-MW2-22	A073-05	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
				METALS DISSOLVED BY ICP
				MERCURY DISSOLVED
DUP-010908	A073-06	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
				METALS DISSOLVED BY ICP
				MERCURY DISSOLVED
TT-MW2-24	A073-07	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
				METALS DISSOLVED BY ICP
				MERCURY DISSOLVED
TT-MW2--24MS	A073-07M	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
				PERCHLORATE BY IC
				METALS CAM
				MERCURY
				METALS DISSOLVED BY ICP
				MERCURY DISSOLVED
TT-MW2--24MSD	A073-07S	01/09/08	WATER	VOLATILE ORGANICS BY GC/MS
				METALS CAM
				MERCURY
				METALS DISSOLVED BY ICP
				MERCURY DISSOLVED
TT-MW2-24DUP	A073-07D	01/09/08	WATER	PERCHLORATE BY IC

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Acting Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meet all NELAC requirements unless noted in the Case Narrative.

TT-0610-

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: Emax

CHAIN OF CUSTODY RECORD

08A073

DATE 1-9-08 PAGE 1 OF 1

CLIENT: LMC

PROJECT NAME: LMC Site 2 GW monit.

PROJECT MANAGER: P. Michalski

TC #: 21705-01

SAMPLERS (Signature): L. Margulis

TURN-AROUND TIME: Standard

OBSERVATIONS/COMMENTS: Please report to the MDL

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOC (EPA 8260B)	Perchlorate (EPA 314.0)	Metals-Total (6010/7470)	Metals-dissolved (6010/7470)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	LTB-010908	1-9-08	0700	X				U	W	G	2	HCL	
2.	TT-MW2-7D	↓	0948	X	X	X	X	↓	↓	P/G	6	See Bottle	
3.	TT-MW2-23	↓	1100	X	X	X	X	↓	↓	↓	↓	↓	
4.	TT-MW2-21	↓	1200	X	X	X	X	↓	↓	↓	↓	↓	
5.	TT-MW2-22	↓	1255	X	X	X	X	↓	↓	↓	↓	↓	
6.	DUP-010908	↓	1300	X	X	X	X	↓	↓	↓	↓	↓	
7.	TT-MW2-24	↓	1355	X	X	X	X	↓	↓	↓	18	↓	T. 3.8°C
~~8.~~													
9.													
10.													

L. Margulis 1-9-07

FILTERING: ☐ FILTERED ☐ UNFILTERED

MATRIX TYPE: S - Soil; M - Sediment; W - Water

CONTAINER TYPE: G - Glass Bottle/Jar; SS - Stainless Steel Sleeve; SB - Brass Sleeve; P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only) HCL; NR (None required); NaOH; H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 50
Linda Margullis	L. Margulis	TETRA TECH, INC.	1-9-08	17:06	
RECEIVED BY: Bolden Eckford	SIGNATURE: Bolden Eckford	COMPANY: EMAX/Top Line	DATE: 1-10-08	TIME: 0930	METHOD OF SHIPMENT/SHIPMENT NO.
RELINQUISHED BY: Bolden Eckford	SIGNATURE: Bolden Eckford	COMPANY: Top Line	DATE: 1-10-08	TIME: 12:38 pm	Special Shipping/Handling/Storage Requirements:
RECEIVED BY: CAROL DiPUGLIA	SIGNATURE: Carol DiPuglia	COMPANY: EMAX	DATE: 01/10/08	TIME: 1238	

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GISVAT-MISC\COCR.CDR

1002

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 08A073
☐ EMAX Courier		Recepient EDP
☐ Client Delivery		Date 01/10/08
☑ Third Party	T.L.C.	Time 1238

COC Inspection

☑ Client Name ☑ Client PM/FC ☑ Sampler Name ☑ Sampling Date/Time/Location ☑ Sample ID ☑ Matrix
☑ Address ☑ Tel # / Fax # ☑ Courier Signature ☑ Analysis Required ☑ Preservative (if any) ☑ TAT

Safety Issues
☑ None ☐ High concentrations expected ☐ Superfund Site samples ☐ Rad screening required

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures	☑ Cooler 1 3.8 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C

Comments: ☐ **PM was informed on non-compliant coolers imediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
-1-7-	007 013, 019 025	= >	H1	R5
	031, 036-038	=		

REVIEWS

Sample Labeling EDP Date 01/10/08

SRF _____ Date 01/10/08

PM _____ Date 1/15/08

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	E1	Preservative needed; sample has no preservative	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	E2	Preservative not needed but sample is preserved	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	F1	Not enough quantity of samples	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC	F2	Bubble is> 6mm	R4	Cancel the analysis
B2	Sample ID is not indicated in label	G1	Temperature is out of range (4 +_ 2°C)	R5	Samples were filtered in the field for dissolved metals
B3	Sample ID is inconsistent in COC vis-à-vis label	G2	Out of Holding Time	R6	
C1	Wrong container	G3	>20 % solid particle		
C2	Broken container	H1	NOT FILTERED INFORMATION FOR DISOLVED METALS		
C3	Leaking container	H2			
D1	Date and/or time is not indicated in COC				
D2	Date and/or time is not indicated in label				
D3	Date and/or time is inconsistent in COC vis-à-vis label				

Pick-up + Delivery: 310-235-2190
Fax: 310-235-2197
New Accounts: 310-235-2190

top line courier

Serving Southern California

Date	1-10-07
Ref. No.	
Invoice No.	31020
Order No. 1	
Order No. 2	

Ref. No: G260200682

DUPLITEXT PRINTING & GRAPHICS (310) 559-9944

CHARGE TO:	ADDRESS:		ACCOUNT NO.
PICK-UP FROM: TETRA TECH		DELIVER TO NO. 1: EMAX LAB	
ADDRESS: 348 W. Hospitality Lane		ADDRESS: 1835 205th Street	
CITY: San Bernardino, CA 92408		CITY: Torrance, CA 90501	
SENDER'S NAME:	EXT. NO./DEPT.	RECEIVER'S NAME:	TEL. NO. /DEPT.

30 MIN.: (30 MIN.)	☐	SUPER RUSH: (1 HOUR)	☐	RUSH (2 HOURS)	☐	REGULAR: (4 HOURS)	☐
RETURN:	☐	WAIT TIME:	☐	NEXT DAY:	☐ 8:30 ☐ 10:00 ☐ 12:00		
FILING:	☐	DEPT.:	☐	WINDOW:	☐		
DRIVER #		SERVING:	☐	RECORDING:	☐	BANK DEPOSIT:	☐

DELIVER TO NO. 2: 08A073 01/10/08
ADDRESS:
CITY: ZIP:
RECEIVER'S NAME: TEL. NO. /DEPT.

NO./PKG.	DESCRIPTION AND SPECIAL INSTRUCTIONS
	32LBS

SIGNATURE ON RETURN X	DEL. TIME		RELEASE SIGNATURE: *Sign to authorize delivery without obtaining signature*
SIGNATURE ON DELIVERY X	DEL. TIME	12:38PM / 1/10/08	By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

1001

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 08A073

CASE NARRATIVE

CLIENT: TETRA TECH, INC.

PROJECT: LMC BEAUMONT SITE 2

SDG: 08A073

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Seven (7) water samples were received on 01/10/08 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   Sample A073-07 was spiked. All recoveries were within QC limit except Trichloroethene due to high parent sample concentration.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met with the aforementioned exception.

   Chloromethane was manually reintegrated in sample A073-04 to correct for improper integration. Chromatograms of before and after manual integration were kept on file for review.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 08A073
Instrument ID : T-006

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V006A37Q	1	NA	01/18/0816:01	01/18/0816:01	RAW448	RAW139	V006A37	Method Blank
LCS1W	V006A37L	1	NA	01/18/0814:07	01/18/0814:07	RAW445	RAW139	V006A37	Lab Control Sample (LCS)
LCD1W	V006A37C	1	NA	01/18/0814:46	01/18/0814:46	RAW446	RAW139	V006A37	LCS Duplicate
LTB-010908	A073-01	1	NA	01/18/0817:17	01/18/0817:17	RAW450	RAW139	V006A37	Field Sample
TT-MW2-24	A073-07	1	NA	01/18/0817:54	01/18/0817:54	RAW451	RAW139	V006A37	Field Sample
TT-MW2-7D	A073-02	1	NA	01/18/0818:31	01/18/0818:31	RAW452	RAW139	V006A37	Field Sample
TT-MW2-23	A073-03	1	NA	01/18/0819:09	01/18/0819:09	RAW453	RAW139	V006A37	Field Sample
TT-MW2-21	A073-04	1	NA	01/18/0819:48	01/18/0819:48	RAW454	RAW139	V006A37	Field Sample
TT-MW2-22	A073-05	1	NA	01/18/0820:25	01/18/0820:25	RAW455	RAW139	V006A37	Field Sample
DUP-010908	A073-06	1	NA	01/18/0821:02	01/18/0821:02	RAW456	RAW139	V006A37	Field Sample
TT-MW2--24MS	A073-07M	1	NA	01/18/0822:57	01/18/0822:57	RAW459	RAW139	V006A37	Matrix Spike Sample (MS)
TT-MW2--24MSD	A073-07S	1	NA	01/18/0823:34	01/18/0823:34	RAW460	RAW139	V006A37	MS Duplicate (MSD)
MBLK2W	V006A47Q	1	NA	01/23/0815:39	01/23/0815:39	RAW571	RAW139	V006A47	Method Blank
LCS2W	V006A47L	1	NA	01/23/0813:45	01/23/0813:45	RAW568	RAW139	V006A47	Lab Control Sample (LCS)
LCD2W	V006A47C	1	NA	01/23/0814:22	01/23/0814:22	RAW569	RAW139	V006A47	LCS Duplicate
TT-MW2-22DL	A073-05T	25	NA	01/23/0816:55	01/23/0816:55	RAW573	RAW139	V006A47	Diluted Sample
DUP-010908DL	A073-06T	25	NA	01/23/0817:34	01/23/0817:34	RAW574	RAW139	V006A47	Diluted Sample
TT-MW2-24DL	A073-07T	5	NA	01/23/0818:51	01/23/0818:51	RAW576	RAW139	V006A47	Diluted Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/18/08 17:17
Sample ID:	LTB-010908	Date Analyzed:	01/18/08 17:17
Lab Samp ID:	A073-01	Dilution Factor:	1
Lab File ID:	RAW450	Matrix :	WATER
Ext Btch ID:	V006A37	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	89	70-140
4-BROMOFLUOROBENZENE	100	70-130
TOLUENE-D8	98	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/18/08 18:31
Sample ID:	TT-MW2-7D	Date Analyzed:	01/18/08 18:31
Lab Samp ID:	A073-02	Dilution Factor:	1
Lab File ID:	RAW452	Matrix :	WATER
Ext Btch ID:	V006A37	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	0.21J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	0.24J	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.26J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	91	70-140
4-BROMOFLUOROBENZENE	98	70-130
TOLUENE-D8	103	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/18/08 19:09
Sample ID:	TT-MW2-23	Date Analyzed:	01/18/08 19:09
Lab Samp ID:	A073-03	Dilution Factor:	1
Lab File ID:	RAW453	Matrix :	WATER
Ext Btch ID:	V006A37	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	0.44J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.4	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	92	70-140
4-BROMOFLUOROBENZENE	102	70-130
TOLUENE-D8	102	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/18/08 19:48
Sample ID:	TT-MW2-21	Date Analyzed:	01/18/08 19:48
Lab Samp ID:	A073-04	Dilution Factor:	1
Lab File ID:	RAW454	Matrix	: WATER
Ext Btch ID:	V006A37	% Moisture	: NA
Calib. Ref.:	RAW139	Instrument ID	: T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	0.54J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	0.56J	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.2	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	89	70-140
4-BROMOFLUOROBENZENE	102	70-130
TOLUENE-D8	102	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/18/08 20:25
Sample ID:	TT-MW2-22	Date Analyzed:	01/18/08 20:25
Lab Samp ID:	A073-05	Dilution Factor:	1
Lab File ID:	RAW455	Matrix :	WATER
Ext Btch ID:	V006A37	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	0.48J	1.0	0.20
1,1-DICHLOROETHENE	5.0	1.0	0.20
1,2-DICHLOROETHANE	2.1	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	0.66J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	1.0	1.0	0.20
CHLOROMETHANE	0.52J	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	170E	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.24J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	47	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	93	70-140
4-BROMOFLUOROBENZENE	98	70-130
TOLUENE-D8	101	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/23/08 16:55
Sample ID:	TT-MW2-22DL	Date Analyzed:	01/23/08 16:55
Lab Samp ID:	A073-05T	Dilution Factor:	25
Lab File ID:	RAW573	Matrix :	WATER
Ext Btch ID:	V006A47	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	25	5.0
1,1,2,2-TETRACHLOROETHANE	ND	25	5.0
1,1,2-TRICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHENE	5.7J	25	5.0
1,2-DICHLOROETHANE	ND	25	5.0
1,2-DICHLOROPROPANE	ND	25	5.0
2-BUTANONE	ND	250	120
2-HEXANONE	ND	250	120
4-METHYL-2-PENTANONE	ND	250	120
ACETONE	ND	250	120
BENZENE	ND	25	5.0
BROMODICHLOROMETHANE	ND	25	5.0
BROMOFORM	ND	25	7.5
BROMOMETHANE	ND	25	5.0
CARBON DISULFIDE	ND	25	5.0
CARBON TETRACHLORIDE	ND	25	5.0
CHLOROBENZENE	ND	25	5.0
CHLOROETHANE	ND	25	5.0
CHLOROFORM	ND	25	5.0
CHLOROMETHANE	ND	25	5.0
CIS-1,2-DICHLOROETHENE	ND	25	5.0
CIS-1,3-DICHLOROPROPENE	ND	25	5.0
DIBROMOCHLOROMETHANE	ND	25	5.0
ETHYLBENZENE	ND	25	5.0
M/P-XYLENES	ND	50	12
MTBE	ND	25	5.0
METHYLENE CHLORIDE	560	25	12
O-XYLENE	ND	25	5.0
STYRENE	ND	25	5.0
TETRACHLOROETHENE	ND	25	5.0
TOLUENE	ND	25	5.0
TRANS-1,2-DICHLOROETHENE	ND	25	5.0
TRANS-1,3-DICHLOROPROPENE	ND	25	5.0
TRICHLOROETHENE	49	25	5.0
VINYL CHLORIDE	ND	25	5.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	88	70-140
4-BROMOFLUOROBENZENE	96	70-130
TOLUENE-D8	99	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/18/08 21:02
Sample ID:	DUP-010908	Date Analyzed:	01/18/08 21:02
Lab Samp ID:	A073-06	Dilution Factor:	1
Lab File ID:	RAW456	Matrix :	WATER
Ext Btch ID:	V006A37	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	0.47J	1.0	0.20
1,1-DICHLOROETHENE	4.8	1.0	0.20
1,2-DICHLOROETHANE	2.0	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	0.39J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	0.99J	1.0	0.20
CHLOROMETHANE	0.52J	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	150E	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.23J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	47	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	90	70-140
4-BROMOFLUOROBENZENE	102	70-130
TOLUENE-D8	102	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/23/08 17:34
Sample ID:	DUP-010908DL	Date Analyzed:	01/23/08 17:34
Lab Samp ID:	A073-06T	Dilution Factor:	25
Lab File ID:	RAW574	Matrix :	WATER
Ext Btch ID:	V006A47	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	25	5.0
1,1,2,2-TETRACHLOROETHANE	ND	25	5.0
1,1,2-TRICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHENE	5.2J	25	5.0
1,2-DICHLOROETHANE	ND	25	5.0
1,2-DICHLOROPROPANE	ND	25	5.0
2-BUTANONE	ND	250	120
2-HEXANONE	ND	250	120
4-METHYL-2-PENTANONE	ND	250	120
ACETONE	ND	250	120
BENZENE	ND	25	5.0
BROMODICHLOROMETHANE	ND	25	5.0
BROMOFORM	ND	25	7.5
BROMOMETHANE	ND	25	5.0
CARBON DISULFIDE	ND	25	5.0
CARBON TETRACHLORIDE	ND	25	5.0
CHLOROBENZENE	ND	25	5.0
CHLOROETHANE	ND	25	5.0
CHLOROFORM	ND	25	5.0
CHLOROMETHANE	ND	25	5.0
CIS-1,2-DICHLOROETHENE	ND	25	5.0
CIS-1,3-DICHLOROPROPENE	ND	25	5.0
DIBROMOCHLOROMETHANE	ND	25	5.0
ETHYLBENZENE	ND	25	5.0
M/P-XYLENES	ND	50	12
MTBE	ND	25	5.0
METHYLENE CHLORIDE	600	25	12
O-XYLENE	ND	25	5.0
STYRENE	ND	25	5.0
TETRACHLOROETHENE	ND	25	5.0
TOLUENE	ND	25	5.0
TRANS-1,2-DICHLOROETHENE	ND	25	5.0
TRANS-1,3-DICHLOROPROPENE	ND	25	5.0
TRICHLOROETHENE	51	25	5.0
VINYL CHLORIDE	ND	25	5.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	88	70-140
4-BROMOFLUOROBENZENE	97	70-130
TOLUENE-D8	100	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/18/08 17:54
Sample ID:	TT-MW2-24	Date Analyzed:	01/18/08 17:54
Lab Samp ID:	A073-07	Dilution Factor:	1
Lab File ID:	RAW451	Matrix :	WATER
Ext Btch ID:	V006A37	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	0.45J	1.0	0.20
1,1-DICHLOROETHANE	0.63J	1.0	0.20
1,1-DICHLOROETHENE	1.1	1.0	0.20
1,2-DICHLOROETHANE	0.55J	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	2.8	1.0	0.20
CHLOROMETHANE	0.27J	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.27J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	58E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	90	70-140
4-BROMOFLUOROBENZENE	99	70-130
TOLUENE-D8	101	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	01/09/08
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
Batch No.	: 08A073	Date Extracted:	01/23/08 18:51
Sample ID:	TT-MW2-24DL	Date Analyzed:	01/23/08 18:51
Lab Samp ID:	A073-07T	Dilution Factor:	5
Lab File ID:	RAW576	Matrix :	WATER
Ext Btch ID:	V006A47	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	1.2J	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
2-BUTANONE	ND	50	25
2-HEXANONE	ND	50	25
4-METHYL-2-PENTANONE	ND	50	25
ACETONE	ND	50	25
BENZENE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	1.5
BROMOMETHANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	1.0
CHLOROFORM	3.1J	5.0	1.0
CHLOROMETHANE	ND	5.0	1.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
ETHYLBENZENE	ND	5.0	1.0
M/P-XYLENES	ND	10	2.5
MTBE	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.5
O-XYLENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	61	5.0	1.0
VINYL CHLORIDE	ND	5.0	1.0

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	70-140
4-BROMOFLUOROBENZENE	95	70-130
TOLUENE-D8	98	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	01/18/08
Batch No.	: 08A073	Date Extracted:	01/18/08 16:01
Sample ID:	MBLK1W	Date Analyzed:	01/18/08 16:01
Lab Samp ID:	V006A37Q	Dilution Factor:	1
Lab File ID:	RAW448	Matrix :	WATER
Ext Btch ID:	V006A37	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	85	70-140
4-BROMOFLUOROBENZENE	110	70-130
TOLUENE-D8	102	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V006A37Q	V006A37L	V006A37C		
LAB FILE ID:	RAW448	RAW445	RAW446		
DATE EXTRACTED:	01/18/0816:01	01/18/0814:07	01/18/0814:46	DATE COLLECTED:	NA
DATE ANALYZED:	01/18/0816:01	01/18/0814:07	01/18/0814:46	DATE RECEIVED:	01/18/08
PREP. BATCH:	V006A37	V006A37	V006A37		
CALIB. REF:	RAW139	RAW139	RAW139		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	8.19	82	10.0	8.61	86	5	60-130	30
Benzene	ND	10.0	9.80	98	10.0	9.77	98	0	70-130	30
Chlorobenzene	ND	10.0	9.69	97	10.0	9.80	98	1	70-120	30
Toluene	ND	10.0	9.90	99	10.0	10.0	100	1	70-130	30
Trichloroethene	ND	10.0	9.25	92	10.0	9.35	94	1	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	8.66	87	10.0	8.74	87	70-140
4-Bromofluorobenzene	10.0	9.55	96	10.0	9.67	97	70-130
Toluene-d8	10.0	10.3	103	10.0	10.1	101	70-130

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	01/23/08
Batch No.	: 08A073	Date Extracted:	01/23/08 15:39
Sample ID:	MBLK2W	Date Analyzed:	01/23/08 15:39
Lab Samp ID:	V006A47Q	Dilution Factor:	1
Lab File ID:	RAW571	Matrix :	WATER
Ext Btch ID:	V006A47	% Moisture :	NA
Calib. Ref.:	RAW139	Instrument ID :	T-006

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
MTBE	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
O-XYLENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	96	70-140
4-BROMOFLUOROBENZENE	94	70-130
TOLUENE-D8	98	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	V006A47Q	V006A47L	V006A47C		
LAB FILE ID:	RAW571	RAW568	RAW569		
DATE EXTRACTED:	01/23/0815:39	01/23/0813:45	01/23/0814:22	DATE COLLECTED:	NA
DATE ANALYZED:	01/23/0815:39	01/23/0813:45	01/23/0814:22	DATE RECEIVED:	01/23/08
PREP. BATCH:	V006A47	V006A47	V006A47		
CALIB. REF:	RAW139	RAW139	RAW139		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10.0	9.86	99	10.0	7.51	75	27	60-130	30
Benzene	ND	10.0	11.0	110	10.0	9.35	93	16	70-130	30
Chlorobenzene	ND	10.0	11.3	113	10.0	9.58	96	16	70-120	30
Toluene	ND	10.0	11.0	110	10.0	9.52	95	15	70-130	30
Trichloroethene	ND	10.0	10.7	107	10.0	8.81	88	19	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	8.94	89	10.0	8.85	88	70-140
4-Bromofluorobenzene	10.0	9.06	91	10.0	9.10	91	70-130
Toluene-d8	10.0	9.87	99	10.0	9.96	100	70-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	TT-MW2-24				
LAB SAMP ID:	A073-07	A073-07M	A073-07S		
LAB FILE ID:	RAW451	RAW459	RAW460		
DATE EXTRACTED:	01/18/0817:54	01/18/0822:57	01/18/0823:34	DATE COLLECTED:	01/09/08
DATE ANALYZED:	01/18/0817:54	01/18/0822:57	01/18/0823:34	DATE RECEIVED:	01/10/08
PREP. BATCH:	V006A37	V006A37	V006A37		
CALIB. REF:	RAW139	RAW139	RAW139		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	1.12	10.0	9.76	86	10.0	9.69	86	1	60-140	30
Benzene	ND	10.0	9.83	98	10.0	9.58	96	3	60-140	30
Chlorobenzene	ND	10.0	10.1	101	10.0	9.63	96	5	63-132	30
Toluene	0.265J	10.0	10.2	99	10.0	9.89	96	3	70-140	30
Trichloroethene	58.2E	10.0	63.9	58*	10.0	63.1	50*	1	60-140	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.50	95	10.0	9.17	92	70-140
4-Bromofluorobenzene	10.0	9.47	95	10.0	9.36	94	70-130
Toluene-d8	10.0	9.95	100	10.0	9.82	98	70-140

INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAW132
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 08A073
BFB Injection Date : 01/07/08
BFB Injection Time : 11:20
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.66
75	30.0 - 60.0% of mass 95	46.14
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.04
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	97.92
175	5.0 - 9.0% of mass 174	7.16(7.3)1
176	95.0 - 101.0% of mass 174	95.73(97.8)1
177	5.0 - 9.0% of mass 176	5.59(5.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V006A071	RAW134	01/07/08	12:38
2	VSTD0.5	V006A072	RAW135	01/07/08	13:16
3	VSTD01	V006A073	RAW136	01/07/08	13:54
4	VSTD02	V006A074	RAW137	01/07/08	14:32
5	VSTD05	V006A075	RAW138	01/07/08	15:10
6	VSTD010	V006A076	RAW139	01/07/08	15:49
7	VSTD020	V006A077	RAW140	01/07/08	16:27
8	VSTD030	V006A078	RAW141	01/07/08	17:04
9	VSTD040	V006A079	RAW142	01/07/08	17:43
10	VSTD050	V006A0710	RAW143	01/07/08	18:20
11	VSTD010	IV006A0701	RAW146	01/07/08	20:14

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T006
Beginning DateTime :01/07/08 12:38
Spike Units :PPB
IC File :RAW139

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :01/07/08 18:20
HPChem Method :V006A07

M	IDX	Parameters	.3 12:38 RAW134	.5 13:16 RAW135	1 13:54 RAW136	2 14:32 RAW137	5 15:10 RAW138	10 15:49 RAW139	20 16:27 RAW140	30 17:04 RAW141	40 17:43 RAW142	50 18:20 RAW143	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	11.0533
	2	Dichlorodifluoromethane	0.386	0.358	0.378	0.383	0.357	0.372	0.352	0.369	0.316	0.320	0.359	6.83	3.3915
	3	Chloromethane	0.366	0.365	0.374	0.341	0.322	0.341	0.313	0.337	0.289	0.291	0.334	9.00	3.9021
	4	Vinyl chloride	0.290	0.291	0.339	0.334	0.307	0.331	0.310	0.312	0.267	0.270	0.305	8.33	4.0567
	5	Bromomethane	0.255	0.392	0.364	0.319	0.287	0.306	0.287	0.296	0.262	0.266	0.303	14.64	4.8625
	6	Chloroethane	0.276	0.220	0.189	0.218	0.199	0.213	0.206	0.211	0.185	0.189	0.210	12.46	4.9875
	7	Dichlorofluoromethane	0.534	0.602	0.614	0.631	0.576	0.585	0.596	0.612	0.552	0.541	0.584	5.63	5.0410
	8	Trichlorofluoromethane	0.485	0.404	0.443	0.439	0.424	0.457	0.429	0.449	0.391	0.392	0.431	6.89	5.4186
2	9	Acrolein	------	------	0.009	0.009	0.010	0.008	0.008	0.008	0.007	0.008	0.008	11.86	6.0742
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.230	0.228	0.260	0.252	0.231	0.243	0.254	0.267	0.243	0.240	0.245	5.43	6.1021
2	11	Acetone	------	------	------	0.043	0.039	0.032	0.033	0.033	0.030	0.031	0.034	14.32	6.1680
	12	1,1-Dichloroethene	0.325	0.356	0.384	0.367	0.335	0.343	0.362	0.370	0.340	0.337	0.352	5.34	6.3923
5	13	tert-Butyl alcohol	------	------	0.018	0.016	0.016	0.015	0.017	0.017	0.015	0.013	0.016	9.84	6.4710
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	0.106	0.114	0.194	0.281	0.344	0.396	0.439	0.460	0.428	0.422	0.318	42.94	6.8918
	17	Methylene chloride	1.095	0.921	0.439	0.474	0.290	0.289	0.290	0.374	0.365	------	0.504	58.76	7.0973
	18	Carbon disulfide	0.795	0.849	0.699	0.955	0.665	0.913	0.958	1.008	0.934	0.782	0.856	13.66	7.2083
3	19	Acrylonitrile	------	0.033	0.035	0.044	0.036	0.044	0.046	0.049	0.045	0.045	0.042	13.54	7.2563
	20	tert-Butyl methyl ether (MTBE)	0.365	0.438	0.384	0.514	0.466	0.478	0.504	0.530	0.493	0.486	0.466	11.69	7.3177
	21	trans-1,2-Dichloroethene	0.378	0.446	0.466	0.481	0.440	0.453	0.469	0.484	0.451	0.439	0.451	6.70	7.5478
	22	Isopropyl ether (DIPE)	0.839	0.927	1.065	1.053	0.977	0.975	1.025	1.061	0.979	0.974	0.987	7.03	7.9461
	23	Vinyl acetate	0.278	0.275	0.301	0.299	0.291	0.302	0.336	0.351	0.333	0.334	0.310	8.51	8.0938
	24	1,1-Dichloroethane	0.520	0.537	0.588	0.605	0.554	0.567	0.588	0.612	0.557	0.554	0.568	5.18	8.1593
	25	tert-Butyl ethyl ether (ETBE)	0.487	0.581	0.677	0.646	0.636	0.621	0.644	0.687	0.635	0.645	0.626	9.05	8.5307
2	26	2-Butanone	0.067	0.080	0.082	0.071	0.067	0.064	0.067	0.071	0.064	0.066	0.070	8.98	8.7235
	27	2,2-Dichloropropane	0.356	0.373	0.415	0.398	0.394	0.398	0.405	0.425	0.387	0.370	0.392	5.37	8.9794
	28	cis-1,2-Dichloroethene	0.423	0.446	0.521	0.510	0.477	0.494	0.504	0.519	0.471	0.468	0.483	6.71	9.0384
	29	Chloroform	0.452	0.488	0.556	0.553	0.511	0.510	0.534	0.541	0.498	0.496	0.514	6.32	9.2877
	30	Bromochloromethane	0.179	0.195	0.228	0.226	0.222	0.223	0.235	0.246	0.229	0.230	0.221	8.98	9.5606
	31	1,1,1-Trichloroethane	0.424	0.468	0.506	0.474	0.456	0.466	0.483	0.498	0.458	0.452	0.468	5.06	9.9424
	32	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	33	tert-Amyl methyl ether (TAME)	0.366	0.440	0.494	0.479	0.488	0.468	0.471	0.506	0.476	0.485	0.467	8.46	10.3209
	34	1,2-Dichloroethane-d4	------	------	0.219	0.215	0.223	0.207	0.232	0.234	0.213	0.212	0.219	4.45	10.4362
	35	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	17.2545
	36	1,1-Dichloropropene	0.148	0.150	0.176	0.170	0.162	0.161	0.180	0.184	0.168	0.169	0.167	7.11	10.1903
	37	Carbon tetrachloride	0.427	0.437	0.454	0.456	0.437	0.454	0.481	0.501	0.456	0.449	0.455	4.76	10.3995
	38	1,2-Dichloroethane	0.242	0.297	0.335	0.340	0.327	0.320	0.335	0.343	0.305	0.307	0.315	9.55	10.6010
	39	Benzene	1.152	1.274	1.395	1.406	1.273	1.302	1.368	1.398	1.243	1.245	1.306	6.44	10.6796
	40	Trichloroethene	0.412	0.400	0.439	0.442	0.394	0.413	0.432	0.450	0.408	0.409	0.420	4.58	11.7298
	41	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	42	1,2-Dichloropropane	0.270	0.285	0.332	0.338	0.323	0.329	0.350	0.364	0.328	0.331	0.325	8.65	12.0328
	43	Bromodichloromethane	0.299	0.379	0.424	0.413	0.392	0.395	0.424	0.430	0.389	0.393	0.394	9.55	12.4816
	44	Dibromomethane	0.109	0.146	0.162	0.160	0.158	0.157	0.167	0.175	0.157	0.160	0.155	11.41	12.6126
	45	2-Chloroethyl vinyl ether	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
2	46	4-Methyl-2-pentanone	------	0.145	0.175	0.172	0.189	0.171	0.183	0.190	0.173	0.177	0.175	7.63	12.9795
	47	cis-1,3-Dichloropropene	0.331	0.358	0.425	0.416	0.420	0.424	0.460	0.473	0.428	0.430	0.416	10.21	13.4626
	48	Toluene-d8	------	------	1.039	1.058	1.050	1.022	1.169	1.190	1.049	1.039	1.077	5.97	14.0028
	49	Toluene	1.309	1.358	1.493	1.441	1.324	1.348	1.387	1.420	1.258	1.244	1.358	5.83	14.1684
	50	Ethyl methacrylate	------	0.215	0.264	0.276	0.269	0.275	0.299	0.307	0.283	0.293	0.276	9.70	14.3177
	51	trans-1,3-Dichloropropene	0.203	0.288	0.325	0.310	0.317	0.325	0.345	0.359	0.321	0.329	0.312	13.68	14.4383
	52	2-Hexanone	------	0.092	0.113	0.113	0.129	0.117	0.126	0.130	0.119	0.124	0.118	9.86	14.7194
	53	1,1,2-Trichloroethane	0.151	0.200	0.220	0.224	0.219	0.217	0.231	0.235	0.216	0.220	0.213	11.15	14.8029
	54	1,3-Dichloropropane	0.289	0.344	0.391	0.411	0.381	0.386	0.412	0.419	0.383	0.381	0.380	10.12	15.3252
	55	Tetrachloroethene	0.358	0.328	0.364	0.362	0.342	0.346	0.362	0.372	0.341	0.336	0.351	4.10	15.5583
	56	Dibromochloromethane	0.197	0.252	0.284	0.282	0.276	0.276	0.299	0.304	0.284	0.285	0.274	11.13	15.9847
	57	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	58	1,2-Dibromoethane	0.139	0.189	0.208	0.205	0.209	0.202	0.219	0.227	0.204	0.207	0.201	12.01	16.4371

CM 1/9/08

	59	1-Chlorohexane	0.545	0.574	0.592	0.596	0.551	0.592	0.635	0.662	0.596	0.591	0.594	5.89	16.6393
	60	Chlorobenzene	0.864	0.863	0.959	0.947	0.855	0.881	0.916	0.936	0.842	0.838	0.890	5.10	17.3447
	61	1,1,1,2-Tetrachloroethane	0.256	0.268	0.317	0.337	0.320	0.331	0.345	0.351	0.319	0.320	0.316	9.77	17.4029
	62	Ethylbenzene	1.563	1.527	1.676	1.653	1.566	1.582	1.628	1.636	1.454	1.422	1.571	5.34	17.4125
2	63	m-Xylene & p-Xylene	1.184	1.185	1.283	1.283	1.144	1.149	1.182	1.187	1.041	------	1.182	6.18	17.5801
	64	o-Xylene	1.082	1.104	1.255	1.230	1.164	1.192	1.250	1.251	1.127	1.108	1.176	5.80	18.5935
	65	Styrene	0.704	0.777	0.901	0.942	0.912	0.938	0.992	1.016	0.915	0.913	0.901	10.42	18.6603
	66	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	23.7723
	67	Isopropylbenzene	3.895	3.817	4.035	3.974	3.711	3.851	4.027	4.156	3.791	3.819	3.908	3.50	19.3907
	68	Bromoform	------	0.333	0.403	0.397	0.389	0.383	0.420	0.444	0.422	0.451	0.405	8.79	19.5154
	69	1,1,2,2-Tetrachloroethane	0.394	0.554	0.637	0.663	0.606	0.615	0.666	0.678	0.642	0.679	0.614	14.03	19.7685
	70	4-Bromofluorobenzene	------	------	0.971	0.925	0.913	0.889	1.046	1.074	1.003	1.031	0.982	6.92	20.0076
	71	1,2,3-Trichloropropane	------	0.076	0.110	0.112	0.107	0.105	0.108	0.114	0.105	0.112	0.105	10.76	20.1235
	72	trans-1,4-Dichloro-2-butene	------	------	0.073	0.095	0.111	0.112	0.128	0.140	0.135	0.144	0.117	20.68	20.2351
	73	n-Propylbenzene	4.438	4.209	4.573	4.703	4.393	4.570	4.784	4.898	4.444	4.474	4.549	4.46	20.3305
	74	Bromobenzene	0.932	0.896	0.967	0.954	0.883	0.897	0.964	1.004	0.929	0.960	0.939	4.08	20.5217
	75	1,3,5-Trimethylbenzene	2.855	2.676	3.041	2.996	2.854	2.959	3.047	3.120	2.870	2.901	2.932	4.37	20.6951
	76	2-Chlorotoluene	2.255	2.362	2.500	2.498	2.323	2.355	2.473	2.398	2.199	2.381	2.374	4.20	20.8078
	77	4-Chlorotoluene	2.467	2.346	2.457	2.523	2.179	2.282	2.378	2.607	2.399	2.218	2.386	5.64	20.9044
	78	tert-Butylbenzene	2.551	2.540	2.838	2.878	2.675	2.784	2.918	3.040	2.801	2.819	2.784	5.64	21.5512
	79	1,2,4-Trimethylbenzene	2.556	2.613	2.725	2.764	2.671	2.792	2.958	3.038	2.758	2.778	2.765	5.26	21.6507
	80	sec-Butylbenzene	3.534	3.495	4.129	4.184	3.962	4.163	4.352	4.508	4.071	4.103	4.050	7.91	22.0639
	81	p-Isopropyltoluene	2.773	2.748	2.999	3.079	3.002	3.228	3.436	3.562	3.248	3.285	3.136	8.49	22.3730
	82	1,3-Dichlorobenzene	1.727	1.657	1.783	1.760	1.633	1.689	1.748	1.777	1.606	1.657	1.704	3.74	22.6805
	83	1,4-Dichlorobenzene	1.722	1.557	1.726	1.682	1.553	1.616	1.670	1.728	1.566	1.601	1.642	4.38	22.9265
	84	n-Butylbenzene	2.291	2.164	2.379	2.409	2.354	2.485	2.762	2.956	2.721	2.821	2.534	10.34	23.3608
	85	1,2-Dichlorobenzene	1.325	1.441	1.476	1.467	1.365	1.374	1.451	1.494	1.369	1.383	1.415	4.08	23.8402
	86	1,2-Dibromo-3-chloropropane	------	0.052	0.083	0.077	0.096	0.092	0.107	0.114	0.107	0.113	0.093	21.69	25.7132
	87	1,2,4-Trichlorobenzene	0.856	0.782	0.919	0.896	0.860	0.873	0.967	1.063	0.990	1.028	0.924	9.47	27.8631
	88	Hexachlorobutadiene	0.658	0.612	0.667	0.634	0.618	0.648	0.706	0.768	0.705	0.726	0.674	7.50	28.1728
	89	Naphthalene	1.416	1.342	1.194	1.167	1.122	1.078	1.173	1.325	1.250	1.306	1.237	8.73	28.5266
	90	1,2,3-Trichlorobenzene	0.710	0.673	0.724	0.727	0.718	0.695	0.785	0.876	0.806	0.844	0.756	8.99	29.1157

Spike Amount = Nominal Amount * M
Ave_%RSD : 9.4 Max_%RSD : 58.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
16	Iodomethane	-0.01594	0.43400	0.9984
72	trans-1,4-Dichloro-2-butene	-0.00914	0.13935	0.9983
86	1,2-Dibromo-3-chloropropane	-0.00391	0.11053	0.9986

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = xo + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
17	Methylene chloride	0.02875	0.23143	0.03416	0.9965

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or 1/9/08

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A07\RAW146.D Vial: 15
Acq On : 7 Jan 2008 8:14 pm Operator: DN
Sample : IVO06A0701 Inst : TO06
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	10.000	10.784	-7.8	97	0.00
3	P,T	Chloromethane	10.000	10.532	-5.3	96	0.00
4	C,T	Vinyl chloride	10.000	10.982	-9.8	94	0.00
5	T	Bromomethane	10.000	10.882	-8.8	100	-0.02
6	T	Chloroethane	10.000	10.329	-3.3	95	-0.02
7	T	Dichlorofluoromethane	10.000	10.617	-6.2	99	0.00
8	T	Trichlorofluoromethane	10.000	10.657	-6.6	93	-0.02
9	T	Acrolein	20.000	16.614	16.9	82	-0.02
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.478	-4.8	98	-0.01
11	T	Acetone	20.000	20.374	-1.9	102	0.00
12	CMT	1,1-Dichloroethene	10.000	10.288	-2.9	98	0.00
13	T	tert-Butyl alcohol	50.000	55.550	-11.1	112	-0.02
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	8.521	14.8	83	0.00
17	T	Methylene chloride	10.000	9.072	9.3	86	-0.01
18	T	Carbon disulfide	10.000	10.855	-8.6	95	-0.01
19	T	Acrylonitrile	30.000	33.135	-10.4	98	-0.01
20	T	tert-Butyl methyl ether (MT	10.000	10.617	-6.2	96	-0.01
21	T	trans-1,2-Dichloroethene	10.000	10.770	-7.7	100	-0.01
22	T	Isopropyl ether (DIPE)	10.000	11.068	-10.7	104	-0.01
23	T	Vinyl acetate	10.000	12.095	-21.0#	116	0.00
24	P,T	1,1-Dichloroethane	10.000	10.831	-8.3	101	-0.01
25	T	tert-Butyl ethyl ether (ETB	10.000	10.095	-1.0	95	0.00
26	T	2-Butanone	20.000	19.817	0.9	100	0.00
27	T	2,2-Dichloropropane	10.000	10.861	-8.6	99	-0.01
28	T	cis-1,2-Dichloroethene	10.000	10.880	-8.8	99	-0.01
29	C,T	Chloroform	10.000	10.735	-7.3	101	-0.01
30	T	Bromochloromethane	10.000	10.956	-9.6	101	-0.02
31	T	1,1,1-Trichloroethane	10.000	10.466	-4.7	98	-0.01
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	10.060	-0.6	93	0.00
34	S	1,2-Dichloroethane-d4	10.000	10.980	-9.8	108	-0.01
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	94	-0.02
36	T	1,1-Dichloropropene	10.000	10.284	-2.8	100	-0.01
37	T	Carbon tetrachloride	10.000	10.523	-5.2	99	-0.01
38	T	1,2-Dichloroethane	10.000	10.309	-3.1	96	0.00
39	TM	Benzene	10.000	10.580	-5.8	100	-0.01
40	TM	Trichloroethene	10.000	10.471	-4.7	100	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A07\RAW146.D Vial: 15
Acq On : 7 Jan 2008 8:14 pm Operator: DN
Sample : IVO06A0701 Inst : TO06
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	11.061	-10.6	103	-0.01
43	T	Bromodichloromethane	10.000	10.657	-6.6	100	-0.01
44	T	Dibromomethane	10.000	10.680	-6.8	99	-0.01
45	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	0.00
46	T	4-Methyl-2-pentanone	20.000	20.367	-1.8	98	0.00
47	T	cis-1,3-Dichloropropene	10.000	10.779	-7.8	100	-0.01
48	S	Toluene-d8	10.000	11.275	-12.8	112	-0.01
49	CMT	Toluene	10.000	10.526	-5.3	100	-0.01
50	T	Ethyl methacrylate	10.000	10.361	-3.6	98	-0.01
51	T	trans-1,3-Dichloropropene	10.000	10.817	-8.2	98	-0.01
52	T	2-Hexanone	20.000	20.908	-4.5	99	0.00
53	T	1,1,2-Trichloroethane	10.000	10.651	-6.5	99	-0.01
54	T	1,3-Dichloropropane	10.000	10.720	-7.2	99	-0.01
55	T	Tetrachloroethene	10.000	10.288	-2.9	98	-0.01
56	T	Dibromochloromethane	10.000	10.624	-6.2	99	-0.01
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	10.751	-7.5	101	-0.01
59	T	1-Chlorohexane	10.000	10.738	-7.4	101	-0.01
60	PM	Chlorobenzene	10.000	10.531	-5.3	100	-0.01
61	T	1,1,1,2-Tetrachloroethane	10.000	10.854	-8.5	98	-0.01
62	C,T	Ethylbenzene	10.000	10.670	-6.7	100	-0.01
63	T	m-Xylene & p-Xylene	20.000	20.834	-4.2	101	-0.01
64	T	o-Xylene	10.000	10.704	-7.0	99	-0.01
65	T	Styrene	10.000	11.106	-11.1	100	-0.01
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	93	-0.02
67	T	Isopropylbenzene	10.000	10.522	-5.2	99	-0.01
68	P,T	Bromoform	10.000	10.011	-0.1	98	-0.01
69	P,T	1,1,2,2-Tetrachloroethane	10.000	10.629	-6.3	99	-0.01
70	S	4-Bromofluorobenzene	10.000	11.002	-10.0	113	-0.01
71	T	1,2,3-Trichloropropane	10.000	10.101	-1.0	94	-0.02
72	T	trans-1,4-Dichloro-2-butene	10.000	9.117	8.8	98	-0.01
73	T	n-Propylbenzene	10.000	10.724	-7.2	99	-0.02
74	T	Bromobenzene	10.000	10.311	-3.1	100	-0.01
75	T	1,3,5-Trimethylbenzene	10.000	10.700	-7.0	99	-0.01
76	T	2-Chlorotoluene	10.000	10.575	-5.7	99	-0.02
77	T	4-Chlorotoluene	10.000	10.357	-3.6	101	-0.02
78	T	tert-Butylbenzene	10.000	10.832	-8.3	101	-0.02
79	T	1,2,4-Trimethylbenzene	10.000	10.713	-7.1	99	-0.01
80	T	sec-Butylbenzene	10.000	11.030	-10.3	100	-0.01

(#) = Out of Range

cr 1/9/08

2026

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A07\RAW146.D Vial: 15
Acq On : 7 Jan 2008 8:14 pm Operator: DN
Sample : IVO06A0701 Inst : TO06
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	11.115	-11.2	100	-0.01
82	T	1,3-Dichlorobenzene	10.000	10.491	-4.9	98	-0.01
83	T	1,4-Dichlorobenzene	10.000	10.529	-5.3	99	-0.01
84	T	n-Butylbenzene	10.000	10.655	-6.5	101	-0.01
85	T	1,2-Dichlorobenzene	10.000	10.440	-4.4	100	-0.01
86	T	1,2-Dibromo-3-chloropropane	10.000	9.126	8.7	98	-0.01
87	T	1,2,4-Trichlorobenzene	10.000	10.077	-0.8	99	-0.02
88	T	Hexachlorobutadiene	10.000	10.559	-5.6	102	-0.01
89	T	Naphthalene	10.000	9.186	8.1	98	-0.01
90	T	1,2,3-Trichlorobenzene	10.000	9.918	0.8	100	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

CT 1/9/08

2027

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAW442
Instrument ID: T-006
GC Column:RTX502.2ID:0.32mm (mm)

Contract: LMC BEAUMONT SITE 2
SAS No.: SDG No.: 08A073
BFB Injection Date : 01/18/08
BFB Injection Time : 12:12
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.17
75	30.0 - 60.0% of mass 95	40.58
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.18
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	97.32
175	5.0 - 9.0% of mass 174	7.60(7.8)1
176	95.0 - 101.0% of mass 174	92.61(95.2)1
177	5.0 - 9.0% of mass 176	5.76(6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV006A0731	RAW444	01/18/08	13:30
2	MBLK1W	V006A37Q	RAW448	01/18/08	16:01
3	LCS1W	V006A37L	RAW445	01/18/08	14:07
4	LCD1W	V006A37C	RAW446	01/18/08	14:46
5	LTB-010908	A073-01	RAW450	01/18/08	17:17
6	TT-MW2-24	A073-07	RAW451	01/18/08	17:54
7	TT-MW2-7D	A073-02	RAW452	01/18/08	18:31
8	TT-MW2-23	A073-03	RAW453	01/18/08	19:09
9	TT-MW2-21	A073-04	RAW454	01/18/08	19:48
10	TT-MW2-22	A073-05	RAW455	01/18/08	20:25
11	DUP-010908	A073-06	RAW456	01/18/08	21:02
12	TT-MW2--24MS	A073-07M	RAW459	01/18/08	22:57
13	TT-MW2--24MSD	A073-07S	RAW460	01/18/08	23:34

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RAW139
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 08A073
Date Analyzed: 01/07/08
Time Analyzed: 15:49
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2860531	11.05	2509257	17.26	1052812	23.77
	UPPER LIMIT	5721062	11.55	5018514	17.76	2105624	24.27
	LOWER LIMIT	1430266	10.55	1254629	16.76	526406	23.27
	SAMPLE ID						
1	VSTD010	2192517	11.05	1898611	17.25	799179	23.76
2	MBLK1W	2229107	11.05	1914407	17.24	652919	23.76
3	LCS1W	2227599	11.05	1929459	17.24	792900	23.76
4	LCD1W	2231103	11.05	1939330	17.25	792368	23.76
5	LTB-010908	2499478	11.05	2189249	17.25	853342	23.76
6	TT-MW2-24	2423782	11.05	2090852	17.25	801978	23.76
7	TT-MW2-7D	2438995	11.05	2086238	17.23	817009	23.74
8	TT-MW2-23	2403811	11.03	2073554	17.25	779889	23.76
9	TT-MW2-21	2359171	11.03	2038171	17.23	744300	23.76
10	TT-MW2-22	2282980	11.06	1999467	17.25	758334	23.76
11	DUP-010908	2287001	11.04	1937627	17.24	717941	23.75
12	TT-MW2--24MS	2217166	11.02	1970718	17.23	855535	23.75
13	TT-MW2--24MSD	2293620	11.04	2051280	17.23	865373	23.75

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A18\RAW444.D Vial: 3
Acq On : 18 Jan 2008 1:30 pm Operator: DN
Sample : CVO06A0731 Inst : TO06
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	77	0.00
2	T	Dichlorodifluoromethane	10.000	9.597	4.0	71	0.00
3	P,T	Chloromethane	10.000	8.409	15.9	63	0.06
4	C,T	Vinyl chloride	10.000	9.388	6.1	66	0.00
5	T	Bromomethane	10.000	9.725	2.8	74	0.00
6	T	Chloroethane	10.000	10.876	-8.8	83	0.00
7	T	Dichlorofluoromethane	10.000	9.544	4.6	73	0.00
8	T	Trichlorofluoromethane	10.000	10.375	-3.8	75	0.00
9	T	Acrolein	20.000	12.357	NT 38.2#	50	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.042	-0.4	78	0.00
11	T	Acetone	20.000	19.334	3.3	80	0.02
12	CMT	1,1-Dichloroethene	10.000	8.630	13.7	68	0.00
13	T	tert-Butyl alcohol	50.000	44.769	10.5	74	-0.01
14	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	10.000	9.005	9.9	73	0.00
17	T	Methylene chloride	10.000	7.953	20.5#	62	0.00
18	T	Carbon disulfide	10.000	6.516	34.8#	47	0.00
19	T	Acrylonitrile	30.000	19.317	NT 35.6#	47	0.00
20	T	tert-Butyl methyl ether (MT	10.000	7.148	28.5#	53	0.00
21	T	trans-1,2-Dichloroethene	10.000	5.628	43.7#	43	-0.01
22	T	Isopropyl ether (DIPE)	10.000	9.622	3.8	75	0.00
23	T	Vinyl acetate	10.000	10.277	-2.8	81	-0.01
24	P,T	1,1-Dichloroethane	10.000	9.567	4.3	74	-0.01
25	T	tert-Butyl ethyl ether (ETB	10.000	9.427	5.7	73	0.00
26	T	2-Butanone	20.000	17.844	10.8	74	0.00
27	T	2,2-Dichloropropane	10.000	10.806	-8.1	82	-0.01
28	T	cis-1,2-Dichloroethene	10.000	9.628	3.7	72	-0.01
29	C,T	Chloroform	10.000	10.169	-1.7	79	-0.01
30	T	Bromochloromethane	10.000	9.790	2.1	74	-0.01
31	T	1,1,1-Trichloroethane	10.000	9.721	2.8	75	-0.01
32	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	9.856	1.4	75	0.00
34	S	1,2-Dichloroethane-d4	10.000	8.828	11.7	72	-0.01
35	I	CHLOROBENZENE-D5	10.000	10.000	0.0	76	-0.01
36	T	1,1-Dichloropropene	10.000	9.570	4.3	75	-0.01
37	T	Carbon tetrachloride	10.000	9.483	5.2	72	-0.01
38	T	1,2-Dichloroethane	10.000	9.114	8.9	68	-0.01
39	TM	Benzene	10.000	10.168	-1.7	77	-0.01
40	TM	Trichloroethene	10.000	9.629	3.7	74	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A18\RAW444.D Vial: 3
Acq On : 18 Jan 2008 1:30 pm Operator: DN
Sample : CVO06A0731 Inst : TO06
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.602	-6.0	79	-0.01
43	T	Bromodichloromethane	10.000	10.373	-3.7	78	-0.01
44	T	Dibromomethane	10.000	10.683	-6.8	80	-0.01
45	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	0.00
46	T	4-Methyl-2-pentanone	20.000	19.986	0.1	77	0.00
47	T	cis-1,3-Dichloropropene	10.000	10.206	-2.1	76	-0.01
48	S	Toluene-d8	10.000	10.168	-1.7	81	0.00
49	CMT	Toluene	10.000	10.384	-3.8	79	-0.01
50	T	Ethyl methacrylate	10.000	10.336	-3.4	78	0.00
51	T	trans-1,3-Dichloropropene	10.000	10.347	-3.5	75	-0.01
52	T	2-Hexanone	20.000	20.468	-2.3	78	0.00
53	T	1,1,2-Trichloroethane	10.000	10.891	-8.9	81	-0.01
54	T	1,3-Dichloropropane	10.000	10.544	-5.4	78	0.00
55	T	Tetrachloroethene	10.000	9.405	6.0	72	-0.01
56	T	Dibromochloromethane	10.000	10.117	-1.2	76	-0.01
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	10.701	-7.0	80	0.00
59	T	1-Chlorohexane	10.000	10.356	-3.6	79	0.00
60	PM	Chlorobenzene	10.000	10.234	-2.3	78	0.00
61	T	1,1,1,2-Tetrachloroethane	10.000	10.321	-3.2	75	0.00
62	C,T	Ethylbenzene	10.000	10.379	-3.8	78	0.00
63	T	m-Xylene & p-Xylene	20.000	20.235	-1.2	79	0.00
64	T	o-Xylene	10.000	10.507	-5.1	78	0.00
65	T	Styrene	10.000	10.775	-7.8	78	0.00
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	76	-0.01
67	T	Isopropylbenzene	10.000	10.064	-0.6	78	0.00
68	P,T	Bromoform	10.000	8.894	11.1	71	0.00
69	P,T	1,1,2,2-Tetrachloroethane	10.000	10.667	-6.7	81	0.00
70	S	4-Bromofluorobenzene	10.000	9.562	4.4	80	0.00
71	T	1,2,3-Trichloropropane	10.000	10.317	-3.2	79	-0.01
72	T	trans-1,4-Dichloro-2-butene	10.000	6.234	37.7#	53	0.00
73	T	n-Propylbenzene	10.000	10.330	-3.3	78	-0.01
74	T	Bromobenzene	10.000	9.596	4.0	76	0.00
75	T	1,3,5-Trimethylbenzene	10.000	10.160	-1.6	76	0.00
76	T	2-Chlorotoluene	10.000	10.173	-1.7	78	-0.01
77	T	4-Chlorotoluene	10.000	10.079	-0.8	80	-0.01
78	T	tert-Butylbenzene	10.000	9.979	0.2	76	-0.01
79	T	1,2,4-Trimethylbenzene	10.000	10.232	-2.3	77	0.00
80	T	sec-Butylbenzene	10.000	10.283	-2.8	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A18\RAW444.D Vial: 3
Acq On : 18 Jan 2008 1:30 pm Operator: DN
Sample : CVO06A0731 Inst : TO06
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	9.888	1.1	73	0.00
82	T	1,3-Dichlorobenzene	10.000	9.937	0.6	76	0.00
83	T	1,4-Dichlorobenzene	10.000	9.947	0.5	77	-0.01
84	T	n-Butylbenzene	10.000	9.930	0.7	77	-0.01
85	T	1,2-Dichlorobenzene	10.000	10.169	-1.7	79	-0.01
86	T	1,2-Dibromo-3-chloropropane	10.000	8.939	10.6	78	0.00
87	T	1,2,4-Trichlorobenzene	10.000	9.659	3.4	78	-0.01
88	T	Hexachlorobutadiene	10.000	8.790	12.1	69	-0.01
89	T	Naphthalene	10.000	9.732	2.7	85	-0.01
90	T	1,2,3-Trichlorobenzene	10.000	9.555	4.5	79	-0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A18\RAW444.D
Acq On : 18 Jan 2008 1:30 pm
Sample : CVO06A0731
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA
MS Integration Params: 524INT.P

Vial: 3
Operator: DN
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	77	0.00
2	T	Dichlorodifluoromethane	0.359	0.344	4.2	71	0.00
3	P,T	Chloromethane	0.334	0.281	15.9	63	0.06
4	C,T	Vinyl chloride	0.305	0.286	6.2	66	0.00
5	T	Bromomethane	0.303	0.295	2.6	74	0.00
6	T	Chloroethane	0.210	0.229	-9.0	83	0.00
7	T	Dichlorofluoromethane	0.584	0.558	4.5	73	0.00
8	T	Trichlorofluoromethane	0.431	0.448	-3.9	75	0.00
9	T	Acrolein	0.008	0.005	37.5#	50	0.00
10	T	1,1,2-Trichloro-1,2,2-trifl	0.245	0.246	-0.4	78	0.00
11	T	Acetone	0.034	0.033	2.9	80	0.02
12	CMT	1,1-Dichloroethene	0.352	0.304	13.6	68	0.00
13	T	tert-Butyl alcohol	0.016	0.014	12.5	74	-0.01
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.318	0.375	-17.9	73	0.00
17	T	Methylene chloride	0.504	0.234	53.6#	62	0.00
18	T	Carbon disulfide	0.856	0.558	34.8#	47#	0.00
19	T	Acrylonitrile	0.042	0.027	35.7#	47#	0.00
20	T	tert-Butyl methyl ether (MT	0.466	0.333	28.5#	53	0.00
21	T	trans-1,2-Dichloroethene	0.451	0.254	43.7#	43#	-0.01
22	T	Isopropyl ether (DIPE)	0.987	0.950	3.7	75	0.00
23	T	Vinyl acetate	0.310	0.319	-2.9	81	-0.01
24	P,T	1,1-Dichloroethane	0.568	0.544	4.2	74	-0.01
25	T	tert-Butyl ethyl ether (ETB	0.626	0.590	5.8	73	0.00
26	T	2-Butanone	0.070	0.062	11.4	74	0.00
27	T	2,2-Dichloropropane	0.392	0.424	-8.2	82	-0.01
28	T	cis-1,2-Dichloroethene	0.483	0.465	3.7	72	-0.01
29	C,T	Chloroform	0.514	0.523	-1.8	79	-0.01
30	T	Bromochloromethane	0.221	0.217	1.8	74	-0.01
31	T	1,1,1-Trichloroethane	0.468	0.455	2.8	75	-0.01
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.467	0.461	1.3	75	0.00
34	S	1,2-Dichloroethane-d4	0.219	0.194	11.4	72	-0.01
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	76	-0.01
36	T	1,1-Dichloropropene	0.167	0.160	4.2	75	-0.01
37	T	Carbon tetrachloride	0.455	0.432	5.1	72	-0.01
38	T	1,2-Dichloroethane	0.315	0.287	8.9	68	-0.01
39	TM	Benzene	1.306	1.328	-1.7	77	-0.01
40	TM	Trichloroethene	0.420	0.404	3.8	74	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A18\RAW444.D Vial: 3
Acq On : 18 Jan 2008 1:30 pm Operator: DN
Sample : CVO06A0731 Inst : TO06
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.325	0.344	-5.8	79	-0.01
43	T	Bromodichloromethane	0.394	0.408	-3.6	78	-0.01
44	T	Dibromomethane	0.155	0.166	-7.1	80	-0.01
45	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	0.00
46	T	4-Methyl-2-pentanone	0.175	0.175	0.0	77	0.00
47	T	cis-1,3-Dichloropropene	0.416	0.425	-2.2	76	-0.01
48	S	Toluene-d8	1.077	1.095	-1.7	81	0.00
49	CMT	Toluene	1.358	1.411	-3.9	79	-0.01
50	T	Ethyl methacrylate	0.276	0.285	-3.3	78	0.00
51	T	trans-1,3-Dichloropropene	0.312	0.323	-3.5	75	-0.01
52	T	2-Hexanone	0.118	0.121	-2.5	78	0.00
53	T	1,1,2-Trichloroethane	0.213	0.232	-8.9	81	-0.01
54	T	1,3-Dichloropropane	0.380	0.400	-5.3	78	0.00
55	T	Tetrachloroethene	0.351	0.330	6.0	72	-0.01
56	T	Dibromochloromethane	0.274	0.277	-1.1	76	-0.01
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.201	0.215	-7.0	80	0.00
59	T	1-Chlorohexane	0.594	0.615	-3.5	79	0.00
60	PM	Chlorobenzene	0.890	0.911	-2.4	78	0.00
61	T	1,1,1,2-Tetrachloroethane	0.316	0.327	-3.5	75	0.00
62	C,T	Ethylbenzene	1.571	1.630	-3.8	78	0.00
63	T	m-Xylene & p-Xylene	1.182	1.196	-1.2	79	0.00
64	T	o-Xylene	1.176	1.236	-5.1	78	0.00
65	T	Styrene	0.901	0.971	-7.8	78	0.00
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	76	-0.01
67	T	Isopropylbenzene	3.908	3.933	-0.6	78	0.00
68	P,T	Bromoform	0.405	0.360	11.1	71	0.00
69	P,T	1,1,2,2-Tetrachloroethane	0.614	0.655	-6.7	81	0.00
70	S	4-Bromofluorobenzene	0.982	0.939	4.4	80	0.00
71	T	1,2,3-Trichloropropane	0.105	0.109	-3.8	79	-0.01
72	T	trans-1,4-Dichloro-2-butene	0.117	0.078	33.3#	53	0.00
73	T	n-Propylbenzene	4.549	4.699	-3.3	78	-0.01
74	T	Bromobenzene	0.939	0.901	4.0	76	0.00
75	T	1,3,5-Trimethylbenzene	2.932	2.979	-1.6	76	0.00
76	T	2-Chlorotoluene	2.374	2.415	-1.7	78	-0.01
77	T	4-Chlorotoluene	2.386	2.404	-0.8	80	-0.01
78	T	tert-Butylbenzene	2.784	2.779	0.2	76	-0.01
79	T	1,2,4-Trimethylbenzene	2.765	2.830	-2.4	77	0.00
80	T	sec-Butylbenzene	4.050	4.165	-2.8	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A18\RAW444.D
Acq On : 18 Jan 2008 1:30 pm
Sample : CVO06A0731
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA
MS Integration Params: 524INT.P

Vial: 3
Operator: DN
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	3.136	3.101	1.1	73	0.00
82	T	1,3-Dichlorobenzene	1.704	1.693	0.6	76	0.00
83	T	1,4-Dichlorobenzene	1.642	1.633	0.5	77	-0.01
84	T	n-Butylbenzene	2.534	2.516	0.7	77	-0.01
85	T	1,2-Dichlorobenzene	1.415	1.438	-1.6	79	-0.01
86	T	1,2-Dibromo-3-chloropropane	0.093	0.095	-2.2	78	0.00
87	T	1,2,4-Trichlorobenzene	0.924	0.892	3.5	78	-0.01
88	T	Hexachlorobutadiene	0.674	0.593	12.0	69	-0.01
89	T	Naphthalene	1.237	1.204	2.7	85	-0.01
90	T	1,2,3-Trichlorobenzene	0.756	0.722	4.5	79	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc — Contract: LMC BEAUMONT SITE 2

Lab Code: EMXT — Case No.: — SAS No.: — SDG No.: 08A073

Lab File ID: RAW565 — BFB Injection Date : 01/23/08

Instrument ID: T-006 — BFB Injection Time : 11:49

GC Column:RTX502.2ID:0.32mm (mm) — Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.10
75	30.0 - 60.0% of mass 95	40.35
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.77
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	96.21
175	5.0 - 9.0% of mass 174	7.41(7.7)1
176	95.0 - 101.0% of mass 174	94.50(98.2)1
177	5.0 - 9.0% of mass 176	6.34(6.7)2

1-Value is % mass 174 — 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD,BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV006A0742	RAW567	01/23/08	13:06
2	MBLK2W	V006A47Q	RAW571	01/23/08	15:39
3	LCS2W	V006A47L	RAW568	01/23/08	13:45
4	LCD2W	V006A47C	RAW569	01/23/08	14:22
5	TT-MW2-22DL	A073-05T	RAW573	01/23/08	16:55
6	DUP-010908DL	A073-06T	RAW574	01/23/08	17:34
7	TT-MW2-24DL	A073-07T	RAW576	01/23/08	18:51

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RAW139
Instrument ID: T-006
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: LMC BEAUMONT SITE 2
SDG No.: 08A073
Date Analyzed: 01/07/08
Time Analyzed: 15:49
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2860531	11.05	2509257	17.26	1052812	23.77
	UPPER LIMIT	5721062	11.55	5018514	17.76	2105624	24.27
	LOWER LIMIT	1430266	10.55	1254629	16.76	526406	23.27
	SAMPLE ID						
1	VSTD010	3103762	11.09	2695578	17.29	1164723	23.80
2	MBLK2W	3183255	11.08	2759859	17.29	1136212	23.80
3	LCS2W	3053721	11.08	2668189	17.28	1160242	23.79
4	LCD2W	3174489	11.09	2721964	17.29	1202605	23.80
5	TT-MW2-22DL	2807800	11.08	2401918	17.29	942055	23.80
6	DUP-010908DL	2582801	11.08	2201951	17.29	855638	23.81
7	TT-MW2-24DL	2492881	11.08	2162513	17.29	845437	23.80

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
AREA UPPER LIMIT = + 50% of surrogate area
AREA LOWER LIMIT = - 50% of surrogate area

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A23\RAW567.D
Acq On : 23 Jan 2008 1:06 pm
Sample : CVO06A0742
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA
MS Integration Params: 524INT.P

Vial: 3
Operator: DN
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000		0.0	109	0.04
2	T	Dichlorodifluoromethane	10.000	8.315		16.9	87	0.02
3	P,T	Chloromethane	10.000	7.891		21.1#	84	0.07
4	C,T	Vinyl chloride	10.000	8.365		16.3	84	0.03
5	T	Bromomethane	10.000	8.869		11.3	95	0.03
6	T	Chloroethane	10.000	9.899		1.0	106	0.03
7	T	Dichlorofluoromethane	10.000	9.795		2.1	106	0.04
8	T	Trichlorofluoromethane	10.000	9.105		8.9	93	0.03
9	T	Acrolein	20.000	2.464	HT	87.7#	14	-0.05
10	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.952		-9.5	120	0.04
11	T	Acetone	20.000	16.517		17.4	97	0.04
12	CMT	1,1-Dichloroethene	10.000	9.412		5.9	105	0.04
13	T	tert-Butyl alcohol	50.000	49.512		1.0	117	0.02
14	T	Acetonitrile	-1.000	0.000		0.0	0	0.00
15	T	Methyl acetate	-1.000	0.000		0.0	0	0.00
16	T	Iodomethane	10.000	12.138		-21.4#	140	0.05
17	T	Methylene chloride	10.000	13.167		-31.7#	147	0.05
18	T	Carbon disulfide	10.000	12.144		-21.4#	123	0.05
19	T	Acrylonitrile	30.000	35.410		-18.0	122	0.05
20	T	tert-Butyl methyl ether (MT	10.000	10.097		-1.0	107	0.05
21	T	trans-1,2-Dichloroethene	10.000	9.948		0.5	107	0.05
22	T	Isopropyl ether (DIPE)	10.000	9.465		5.4	104	0.05
23	T	Vinyl acetate	10.000	11.571		-15.7	129	0.05
24	P,T	1,1-Dichloroethane	10.000	10.475		-4.7	114	0.05
25	T	tert-Butyl ethyl ether (ETB	10.000	9.173		8.3	100	0.04
26	T	2-Butanone	20.000	19.130		4.4	113	0.04
27	T	2,2-Dichloropropane	10.000	11.213		-12.1	120	0.05
28	T	cis-1,2-Dichloroethene	10.000	10.033		-0.3	106	0.05
29	C,T	Chloroform	10.000	11.046		-10.5	121	0.05
30	T	Bromochloromethane	10.000	10.368		-3.7	111	0.04
31	T	1,1,1-Trichloroethane	10.000	10.312		-3.1	112	0.05
32	T	Cyclohexane	-1.000	0.000		0.0	0	0.00
33	T	tert-Amyl methyl ether (TAM	10.000	9.385		6.2	102	0.04
34	S	1,2-Dichloroethane-d4	10.000	8.775		12.2	101	0.04
35	I	CHLOROBENZENE-D5	10.000	10.000		0.0	107	0.03
36	T	1,1-Dichloropropene	10.000	10.274		-2.7	114	0.05
37	T	Carbon tetrachloride	10.000	10.190		-1.9	110	0.05
38	T	1,2-Dichloroethane	10.000	9.862		1.4	104	0.04
39	TM	Benzene	10.000	11.081		-10.8	119	0.04
40	TM	Trichloroethene	10.000	10.473		-4.7	114	0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A23\RAW567.D
Acq On : 23 Jan 2008 1:06 pm
Sample : CVO06A0742
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA
MS Integration Params: 524INT.P

Vial: 3
Operator: DN
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	-1.000	0.000	0.0	0	0.00
42	C,T	1,2-Dichloropropane	10.000	10.727	-7.3	114	0.04
43	T	Bromodichloromethane	10.000	11.210	-12.1	120	0.04
44	T	Dibromomethane	10.000	11.547	-15.5	123	0.04
45	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	0.00
46	T	4-Methyl-2-pentanone	20.000	20.612	-3.1	113	0.04
47	T	cis-1,3-Dichloropropene	10.000	11.952	-19.5	126	0.04
48	S	Toluene-d8	10.000	9.973	0.3	113	0.04
49	CMT	Toluene	10.000	10.906	-9.1	118	0.04
50	T	Ethyl methacrylate	10.000	10.339	-3.4	111	0.03
51	T	trans-1,3-Dichloropropene	10.000	11.799	-18.0	122	0.03
52	T	2-Hexanone	20.000	20.680	-3.4	112	0.03
53	T	1,1,2-Trichloroethane	10.000	11.235	-12.3	119	0.03
54	T	1,3-Dichloropropane	10.000	10.772	-7.7	114	0.03
55	T	Tetrachloroethene	10.000	10.627	-6.3	116	0.04
56	T	Dibromochloromethane	10.000	10.690	-6.9	114	0.04
57	T	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
58	T	1,2-Dibromoethane	10.000	11.022	-10.2	118	0.04
59	T	1-Chlorohexane	10.000	10.622	-6.2	114	0.04
60	PM	Chlorobenzene	10.000	11.250	-12.5	122	0.04
61	T	1,1,1,2-Tetrachloroethane	10.000	10.454	-4.5	108	0.03
62	C,T	Ethylbenzene	10.000	10.823	-8.2	115	0.04
63	T	m-Xylene & p-Xylene	20.000	21.011	-5.1	116	0.04
64	T	o-Xylene	10.000	10.689	-6.9	113	0.03
65	T	Styrene	10.000	11.173	-11.7	115	0.03
66	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	111	0.03
67	T	Isopropylbenzene	10.000	9.923	0.8	111	0.03
68	P,T	Bromoform	10.000	9.621	3.8	112	0.03
69	P,T	1,1,2,2-Tetrachloroethane	10.000	10.448	-4.5	115	0.03
70	S	4-Bromofluorobenzene	10.000	9.398	6.0	115	0.04
71	T	1,2,3-Trichloropropane	10.000	8.734	12.7	97	0.03
72	T	trans-1,4-Dichloro-2-butene	10.000	6.457	35.4#	80	0.03
73	T	n-Propylbenzene	10.000	10.134	-1.3	112	0.03
74	T	Bromobenzene	10.000	10.098	-1.0	117	0.03
75	T	1,3,5-Trimethylbenzene	10.000	10.371	-3.7	114	0.03
76	T	2-Chlorotoluene	10.000	10.378	-3.8	116	0.03
77	T	4-Chlorotoluene	10.000	10.542	-5.4	122	0.03
78	T	tert-Butylbenzene	10.000	9.545	4.6	106	0.03
79	T	1,2,4-Trimethylbenzene	10.000	10.315	-3.1	113	0.03
80	T	sec-Butylbenzene	10.000	10.128	-1.3	109	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A23\RAW567.D
Acq On : 23 Jan 2008 1:06 pm
Sample : CVO06A0742
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA
MS Integration Params: 524INT.P

Vial: 3
Operator: DN
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	10.000	10.143	-1.4	109	0.03
82	T	1,3-Dichlorobenzene	10.000	10.520	-5.2	117	0.03
83	T	1,4-Dichlorobenzene	10.000	10.451	-4.5	117	0.03
84	T	n-Butylbenzene	10.000	10.251	-2.5	116	0.03
85	T	1,2-Dichlorobenzene	10.000	10.656	-6.6	121	0.03
86	T	1,2-Dibromo-3-chloropropane	10.000	9.441	5.6	121	0.03
87	T	1,2,4-Trichlorobenzene	10.000	10.222	-2.2	120	0.03
88	T	Hexachlorobutadiene	10.000	9.264	7.4	107	0.03
89	T	Naphthalene	10.000	10.673	-6.7	136	0.03
90	T	1,2,3-Trichlorobenzene	10.000	10.273	-2.7	124	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A23\RAW567.D
Acq On : 23 Jan 2008 1:06 pm
Sample : CVO06A0742
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA
MS Integration Params: 524INT.P

Vial: 3
Operator: DN
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	109	0.04
2	T	Dichlorodifluoromethane	0.359	0.298	17.0	87	0.02
3	P,T	Chloromethane	0.334	0.263	21.3#	84	0.07
4	C,T	Vinyl chloride	0.305	0.255	16.4	84	0.03
5	T	Bromomethane	0.303	0.269	11.2	95	0.03
6	T	Chloroethane	0.210	0.208	1.0	106	0.03
7	T	Dichlorofluoromethane	0.584	0.572	2.1	106	0.04
8	T	Trichlorofluoromethane	0.431	0.393	8.8	93	0.03
9	T	Acrolein	0.008	0.001	87.5#	14#	-0.05
10	T	1,1,2-Trichloro-1,2,2-trifl	0.245	0.268	-9.4	120	0.04
11	T	Acetone	0.034	0.028	17.6	97	0.04
12	CMT	1,1-Dichloroethene	0.352	0.331	6.0	105	0.04
13	T	tert-Butyl alcohol	0.016	0.016	0.0	117	0.02
14	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.318	0.511	-60.7#	140	0.05
17	T	Methylene chloride	0.504	0.393	22.0#	147	0.05
18	T	Carbon disulfide	0.856	1.039	-21.4#	123	0.05
19	T	Acrylonitrile	0.042	0.050	-19.0	122	0.05
20	T	tert-Butyl methyl ether (MT	0.466	0.470	-0.9	107	0.05
21	T	trans-1,2-Dichloroethene	0.451	0.448	0.7	107	0.05
22	T	Isopropyl ether (DIPE)	0.987	0.935	5.3	104	0.05
23	T	Vinyl acetate	0.310	0.359	-15.8	129	0.05
24	P,T	1,1-Dichloroethane	0.568	0.595	-4.8	114	0.05
25	T	tert-Butyl ethyl ether (ETB	0.626	0.574	8.3	100	0.04
26	T	2-Butanone	0.070	0.067	4.3	113	0.04
27	T	2,2-Dichloropropane	0.392	0.440	-12.2	120	0.05
28	T	cis-1,2-Dichloroethene	0.483	0.485	-0.4	106	0.05
29	C,T	Chloroform	0.514	0.568	-10.5	121	0.05
30	T	Bromochloromethane	0.221	0.229	-3.6	111	0.04
31	T	1,1,1-Trichloroethane	0.468	0.483	-3.2	112	0.05
32	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
33	T	tert-Amyl methyl ether (TAM	0.467	0.439	6.0	102	0.04
34	S	1,2-Dichloroethane-d4	0.219	0.192	12.3	101	0.04
35	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	0.03
36	T	1,1-Dichloropropene	0.167	0.171	-2.4	114	0.05
37	T	Carbon tetrachloride	0.455	0.464	-2.0	110	0.05
38	T	1,2-Dichloroethane	0.315	0.311	1.3	104	0.04
39	TM	Benzene	1.306	1.447	-10.8	119	0.04
40	TM	Trichloroethene	0.420	0.440	-4.8	114	0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A23\RAW567.D
Acq On : 23 Jan 2008 1:06 pm
Sample : CVO06A0742
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA
MS Integration Params: 524INT.P

Vial: 3
Operator: DN
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Methylcyclohexane	0.000	0.000	0.0	0#	0.00
42	C,T	1,2-Dichloropropane	0.325	0.349	-7.4	114	0.04
43	T	Bromodichloromethane	0.394	0.441	-11.9	120	0.04
44	T	Dibromomethane	0.155	0.179	-15.5	123	0.04
45	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	0.00
46	T	4-Methyl-2-pentanone	0.175	0.180	-2.9	113	0.04
47	T	cis-1,3-Dichloropropene	0.416	0.498	-19.7	126	0.04
48	S	Toluene-d8	1.077	1.074	0.3	113	0.04
49	CMT	Toluene	1.358	1.481	-9.1	118	0.04
50	T	Ethyl methacrylate	0.276	0.285	-3.3	111	0.03
51	T	trans-1,3-Dichloropropene	0.312	0.369	-18.3	122	0.03
52	T	2-Hexanone	0.118	0.122	-3.4	112	0.03
53	T	1,1,2-Trichloroethane	0.213	0.240	-12.7	119	0.03
54	T	1,3-Dichloropropane	0.380	0.409	-7.6	114	0.03
55	T	Tetrachloroethene	0.351	0.373	-6.3	116	0.04
56	T	Dibromochloromethane	0.274	0.293	-6.9	114	0.04
57	T	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
58	T	1,2-Dibromoethane	0.201	0.221	-10.0	118	0.04
59	T	1-Chlorohexane	0.594	0.630	-6.1	114	0.04
60	PM	Chlorobenzene	0.890	1.001	-12.5	122	0.04
61	T	1,1,1,2-Tetrachloroethane	0.316	0.331	-4.7	108	0.03
62	C,T	Ethylbenzene	1.571	1.700	-8.2	115	0.04
63	T	m-Xylene & p-Xylene	1.182	1.242	-5.1	116	0.04
64	T	o-Xylene	1.176	1.257	-6.9	113	0.03
65	T	Styrene	0.901	1.006	-11.7	115	0.03
66	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	111	0.03
67	T	Isopropylbenzene	3.908	3.877	0.8	111	0.03
68	P,T	Bromoform	0.405	0.389	4.0	112	0.03
69	P,T	1,1,2,2-Tetrachloroethane	0.614	0.641	-4.4	115	0.03
70	S	4-Bromofluorobenzene	0.982	0.922	6.1	115	0.04
71	T	1,2,3-Trichloropropane	0.105	0.092	12.4	97	0.03
72	T	trans-1,4-Dichloro-2-butene	0.117	0.081	30.8#	80	0.03
73	T	n-Propylbenzene	4.549	4.609	-1.3	112	0.03
74	T	Bromobenzene	0.939	0.948	-1.0	117	0.03
75	T	1,3,5-Trimethylbenzene	2.932	3.041	-3.7	114	0.03
76	T	2-Chlorotoluene	2.374	2.464	-3.8	116	0.03
77	T	4-Chlorotoluene	2.386	2.515	-5.4	122	0.03
78	T	tert-Butylbenzene	2.784	2.658	4.5	106	0.03
79	T	1,2,4-Trimethylbenzene	2.765	2.852	-3.1	113	0.03
80	T	sec-Butylbenzene	4.050	4.102	-1.3	109	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\08A23\RAW567.D
Acq On : 23 Jan 2008 1:06 pm
Sample : CVO06A0742
Misc : 10.0ppb 8260/25.0ppb KET-A/50ppb TBA
MS Integration Params: 524INT.P

Vial: 3
Operator: DN
Inst : TO06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06A07.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Jan 08 10:16:53 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	p-Isopropyltoluene	3.136	3.181	-1.4	109	0.03
82	T	1,3-Dichlorobenzene	1.704	1.792	-5.2	117	0.03
83	T	1,4-Dichlorobenzene	1.642	1.716	-4.5	117	0.03
84	T	n-Butylbenzene	2.534	2.598	-2.5	116	0.03
85	T	1,2-Dichlorobenzene	1.415	1.507	-6.5	121	0.03
86	T	1,2-Dibromo-3-chloropropane	0.093	0.100	-7.5	121	0.03
87	T	1,2,4-Trichlorobenzene	0.924	0.944	-2.2	120	0.03
88	T	Hexachlorobutadiene	0.674	0.625	7.3	107	0.03
89	T	Naphthalene	1.237	1.321	-6.8	136	0.03
90	T	1,2,3-Trichlorobenzene	0.756	0.776	-2.6	124	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOG

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 3 ☐ EMAX-524.2 Rev.No. 3 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 1/7/08 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A06 -031

BATCH V006A07

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RAW132	BFB 08 A10	2ml	NA	NA		11:20 am
02	133	11					
03	134	V006A07 1	.03/.07/.15ml				8260 Gas/Ket-AA/BBA .3 / .6 / 1.5 ppb
04	135	2	.05/.1/.25ml				.5 / 1 / 2.5 ppb
05	136	3	.1/.2/.5ml				1 / 2 / 5
06	137	4	.2/.4/1ml				2 / 4 / 10
07	138	5	.5/1/2.5ml				5 / 10 / 25
08	139	6	1/2/5ml				10 20 50
09	140	7	2/4/10ml				20 40 100
10	141	8	3/6/15ml				30 60 100
11	142	9	4/8/20ml				40 80 200
12	143	10	5/10/25ml				50 100 250
13	144	IS/SS	25ml				
14	145	V006A11 B					
15	146	IV006A07 01	1/2/5ml				10 20 50
16	147	02					
17	148	BLANK	25ml				9:28 pm
18							
19							
20							
21					D		1-8-08
22							
23							
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	1/7/08
ICAL ID	V006A07

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC 8260	SV1.13.29.1	50/250
DCC Ket-AA	.33.3	250
DCC Gases	.10.1	250
BFB	.5.3	50
IS/SURR. IS / SS	.4.3 / .5.2	250 / 250
LCS 8260	.34.2	50/250
LCS Ket-AA	.31.1	250
LCS Gases	.12.2	250
SOLVENT	ID	
METHANOL		
DATA FILE	00A07	

Electronic Data Archival	
Location	Date
HPCHEM_VOA/T006	

Comments:

Analyzed By: DH

Date Disposed: 1/8/08

Disposed By: DN

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 4 ☐ EMAX-524.2 Rev.No. 4 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 1.18.08 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A06 -032

BATCH CV06A0731

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RAW442	BFB06A37 ✓	5ml				
02	443	CV06A0730	1/2/5ml				
03	444	31 ✓					
04	445	V06A37L ✓					
05	446	C ✓					
06	447	B	25ml				
07	448	Q ✓					
08	449	08A148-09 ✓	25ml	1	<2		
09	450	08A073-01 ✓					
10	451	-07 ✓					5x
11	452	-02 ✓					
12	453	-03 ✓					
13	454	-04 ✓					
14	455	-05 ✓					25x
15	456	-06 ✓					25x
16	457	08A142-01 ✓					
17	458	-02 ✓					
18	459	08A073-07M ✓					
19	460	-07S ✓					
20							
21							
22							
23							DN 1.22.08
24							
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	1.7.08
ICAL ID	V06A07

STANDARDS NAME	ID	CONC. (mg/L)
DCC	SV1.13.29.1	
DCC	33.3	
DCC	10.1	
BFB	5.3	
IS/SURR.	33.2	50/50
LCS	34.2	
LCS	31.1	
LCS	12.2	

SOLVENT	ID
METHANOL	
DATA FILE	08A18

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DN

Date Disposed: 1/22/08

Disposed By: DN

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ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 4 ☐ EMAX-524.2 Rev.No. 4 ☐ EMAX-CLP-VOA ☐ EMAX 624 Rev.No. 1 ☐

Start Date: 1-23-08 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A06 -032

BATCH V006A0742

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix pH-W	Matrix S	Notes
01	RAW565	BFB06A47 ✓	2ml				11:49 am
02	566	CV006A07 41	5ml				
03	567	42 ✓					
04	568	V006A47 L ✓					
05	569	C ✓					
06	570	B	25ml				
07	571	A ✓					
08	572	08A125-05T ✓	5ml	5	<2		
09	573	08A073-05T ✓	1ml	25			
10	574	-06T ✓					
11	575	08A140-01R ✓	25ml	1	<2		
12	576	08A073-07T ✓	5ml	5	<2		
13	577	08A191-04 ✓	25ml	1	<2		
14	578	-01 ✓			5		5x
15	579	-02			<2		1x
16	580	-03 ✓			7		10
17	581	-05			<2		1x
18	582	08A145-06T	2.5ml	10	<2		
19	583	08A491-01	25ml	10			11:18 pm
20	584	RINSE	25ml				
21	585						
22							
23							
24							DH 1-24-08
25							

Instrument No.	06
INITIAL CALIBRATION REFERENCE	
DATE	1-7-08
ICAL ID	V006A07

STANDARDS		
NAME	ID	CONC. (mg/L)
DCC	Sl. 13.29.1	
DCC	.33.3	
DCC	.10.1	
BFB	.5.3	
IS/SURR.	.23.2	50/50
LCS	.34.2	
LCS	.31.1	
LCS	.12.2	

SOLVENT	ID
METHANOL	
DATA FILE	08A23

Electronic Data Archival	
Location	Date
HPCHEM_VOA/TO06	

Comments:

Analyzed By: DH

Date Disposed: 1/24/08

Disposed By: DH

2048

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METALS / MERCURY

SDG#: 08A073

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **08A073**

METHOD 3010A/6010B
TOTAL AND DISSOLVED METALS BY ICP

Six (6) water samples for Total and six (6) water samples for Dissolved Metals were received on 01/10/08 for Metals analysis by Method 3010A/6010B in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Serial Dilution/Post-Analytical Spike**

   Sample A073-07 (Total) was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. **Matrix Spike/Matrix Spike Duplicate**

   Samples A037-07 (Total and Dissolved) was spiked. All recoveries were within QC limit.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
METALS BY ICP

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 08A073
Instrument ID : T-ID8

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPA019WB	1	NA	01/23/0823:56	01/15/0812:00	ID8A020086	ID8A020084	IPA019W	Method Blank
LCS1W	IPA019WL	1	NA	01/24/0800:02	01/15/0812:00	ID8A020087	ID8A020084	IPA019W	Lab Control Sample (LCS)
LCD1W	IPA019WC	1	NA	01/24/0800:07	01/15/0812:00	ID8A020088	ID8A020084	IPA019W	LCS Duplicate
TT-MW2-24AS	A073-07A	1	NA	01/24/0800:24	01/15/0812:00	ID8A020091	ID8A020084	IPA019W	Analytical Spike Sample
TT-MW2-24	A073-07	1	NA	01/24/0800:29	01/15/0812:00	ID8A020092	ID8A020084	IPA019W	Field Sample
TT-MW2-24DL	A073-07J	5	NA	01/24/0800:35	01/15/0812:00	ID8A020093	ID8A020084	IPA019W	Diluted Sample
TT-MW2-7D	A073-02	1	NA	01/24/0800:40	01/15/0812:00	ID8A020094	ID8A020084	IPA019W	Field Sample
TT-MW2-23	A073-03	1	NA	01/24/0801:02	01/15/0812:00	ID8A020098	ID8A020096	IPA019W	Field Sample
TT-MW2-21	A073-04	1	NA	01/24/0801:08	01/15/0812:00	ID8A020099	ID8A020096	IPA019W	Field Sample
TT-MW2-22	A073-05	1	NA	01/24/0801:13	01/15/0812:00	ID8A020100	ID8A020096	IPA019W	Field Sample
DUP-010908	A073-06	1	NA	01/24/0801:19	01/15/0812:00	ID8A020101	ID8A020096	IPA019W	Field Sample
TT-MW2--24MS	A073-07M	1	NA	01/24/0817:57	01/15/0812:00	ID8A021033	ID8A021031	IPA019W	Matrix Spike Sample (MS)
TT-MW2--24MSD	A073-07S	1	NA	01/24/0818:03	01/15/0812:00	ID8A021034	ID8A021031	IPA019W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 09:48
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-7D	Date Analyzed:	01/24/08 00:40
Lab Samp ID:	A073-02	Dilution Factor:	1
Lab File ID:	ID8A020094	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020084	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.0207	0.0100	0.00500
Barium	0.00709J	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	0.00535J	0.0100	0.00500
Lead	0.00764J	0.0100	0.00300
Molybdenum	0.0186J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	0.0341	0.0100	0.00500
Zinc	0.0121	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 11:00
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-23	Date Analyzed:	01/24/08 01:02
Lab Samp ID:	A073-03	Dilution Factor:	1
Lab File ID:	ID8A020098	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.00547J	0.0100	0.00500
Barium	0.188	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	0.0224	0.0100	0.00300
Molybdenum	0.0281J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	0.0284	0.0100	0.00500
Zinc	0.0499	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 12:00
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-21	Date Analyzed:	01/24/08 01:08
Lab Samp ID:	A073-04	Dilution Factor:	1
Lab File ID:	ID8A020099	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.0129	0.0100	0.00500
Barium	0.00409J	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	0.00554J	0.0100	0.00300
Molybdenum	0.0224J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	0.0735	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 12:55
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-22	Date Analyzed:	01/24/08 01:13
Lab Samp ID:	A073-05	Dilution Factor:	1
Lab File ID:	ID8A020100	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.00970J	0.0100	0.00500
Barium	0.0132	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	0.00551J	0.0100	0.00300
Molybdenum	0.0286J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	0.0195	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 13:00
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	DUP-010908	Date Analyzed:	01/24/08 01:19
Lab Samp ID:	A073-06	Dilution Factor:	1
Lab File ID:	ID8A020101	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.0100	0.0100	0.00500
Barium	0.0123	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	0.00486J	0.0100	0.00300
Molybdenum	0.0278J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	0.0158	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 13:55
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-24	Date Analyzed:	01/24/08 00:29
Lab Samp ID:	A073-07	Dilution Factor:	1
Lab File ID:	ID8A020092	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020084	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	0.0232	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	0.00841J	0.0100	0.00500
Lead	0.00747J	0.0100	0.00300
Molybdenum	0.0306J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	0.0115	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	01/15/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	MBLK1W	Date Analyzed:	01/23/08 23:56
Lab Samp ID:	IPA019WB	Dilution Factor:	1
Lab File ID:	ID8A020086	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020084	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPA019WB	IPA019WL	IPA019WC		
LAB FILE ID:	ID8A020086	ID8A020087	ID8A020088		
DATIME EXTRCTD:	01/15/0812:00	01/15/0812:00	01/15/0812:00	DATE COLLECTED:	NA
DATIME ANALYZD:	01/23/0823:56	01/24/0800:02	01/24/0800:07	DATE RECEIVED:	01/15/08
PREP. BATCH:	IPA019W	IPA019W	IPA019W		
CALIB. REF:	ID8A020084	ID8A020084	ID8A020084		

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	4.97	100	5	5.07	101	2	80-120	20
Arsenic	ND	1	1.02	102	1	1.03	103	1	80-120	20
Barium	ND	1	.981	98	1	.991	99	1	80-120	20
Beryllium	ND	1	1.02	102	1	1.04	104	1	80-120	20
Cadmium	ND	1	1.01	101	1	1.02	102	1	80-120	20
Chromium	ND	1	.992	99	1	1	100	1	80-120	20
Cobalt	ND	1	.993	99	1	1.01	101	1	80-120	20
Copper	ND	1	.964	96	1	.977	98	1	80-120	20
Lead	ND	1	.992	99	1	1	100	1	80-120	20
Molybdenum	ND	1	1	100	1	1.02	102	2	80-120	20
Nickel	ND	1	.985	98	1	.994	99	1	80-120	20
Selenium	ND	1	.994	99	1	1	100	1	80-120	20
Silver	ND	1	.979	98	1	.989	99	1	80-120	20
Thallium	ND	1	.957	96	1	.969	97	1	80-120	20
Vanadium	ND	1	1.03	103	1	1.04	104	1	80-120	20
Zinc	ND	1	1.03	103	1	1.04	104	1	80-120	20

Revised Report

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	TT-MW2-24				
CONTROL NO.:	A073-07	A073-07M	A073-07S		
LAB FILE ID:	ID8A020092	ID8A021033	ID8A021034		
DATIME EXTRCTD:	01/15/0812:00	01/15/0812:00	01/15/0812:00	DATE COLLECTED:	01/09/08 13:55
DATIME ANALYZD:	01/24/0800:29	01/24/0817:57	01/24/0818:03	DATE RECEIVED:	01/10/08
PREP. BATCH:	IPA019W	IPA019W	IPA019W		
CALIB. REF:	ID8A020084	ID8A021031	ID8A021031		

ACCESSION:

PARAMETER	SMPL RSLT mg/L	SPIKE AMT mg/L	MS RSLT mg/L	MS % REC	SPIKE AMT mg/L	MSD RSLT mg/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	5.38	108	5	5.43	109	1	75-125	20
Arsenic	ND	1	1.09	109	1	1.1	110	1	75-125	20
Barium	.0232	1	1.1	108	1	1.11	108	0	75-125	20
Beryllium	ND	1	1.13	113	1	1.13	113	0	75-125	20
Cadmium	ND	1	1.06	106	1	1.05	105	0	75-125	20
Chromium	ND	1	1.04	104	1	1.04	104	1	75-125	20
Cobalt	ND	1	1.08	108	1	1.09	109	0	75-125	20
Copper	.00841J	1	1.15	114	1	1.16	115	1	75-125	20
Lead	.00747J	1	1.08	107	1	1.08	108	0	75-125	20
Molybdenum	.0306J	1	1.09	105	1	1.09	106	1	75-125	20
Nickel	ND	1	1.07	107	1	1.06	106	0	75-125	20
Selenium	ND	1	1.09	109	1	1.1	110	0	75-125	20
Silver	ND	1	1.01	101	1	1.05	105	4	75-125	20
Thallium	ND	1	1.07	107	1	1.08	108	1	75-125	20
Vanadium	ND	1	1.09	109	1	1.1	110	0	75-125	20
Zinc	.0115	1	1.09	108	1	1.1	108	0	75-125	20

Revised Report

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	TT-MW2-24	TT-MW2-24DL		
EMAX SAMP ID:	A073-07	A073-07J		
LAB FILE ID:	ID8A020092	ID8A020093		
DATE EXTRACTED:	01/15/0812:00	01/15/0812:00	DATE COLLECTED:	01/09/08 13:55
DATE ANALYZED:	01/24/0800:29	01/24/0800:35	DATE RECEIVED:	01/10/08
PREP. BATCH:	IPA019W	IPA019W		
CALIB. REF:	ID8A020084	ID8A020084		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SERIAL DIL RSLT (mg/L)	DIF RSLT %	QC LIMIT (%)
Antimony	ND	ND	0	10
Arsenic	ND	ND	0	10
Barium	0.0232	0.0218J	NA	10
Beryllium	ND	ND	0	10
Cadmium	ND	ND	0	10
Chromium	ND	ND	0	10
Cobalt	ND	ND	0	10
Copper	0.00841J	ND	NA	10
Lead	0.00747J	ND	NA	10
Molybdenum	0.0306J	ND	NA	10
Nickel	ND	ND	0	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Thallium	ND	ND	0	10
Vanadium	ND	ND	0	10
Zinc	0.0115	ND	NA	10

Revised Report

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 3010A/6010B

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	TT-MW2-24			
CONTROL NO.:	A073-07	A073-07A		
LAB FILE ID:	ID8A020092	ID8A020091		
DATIME EXTRCTD:	01/15/0812:00	01/15/0812:00	DATE COLLECTED:	01/09/08 13:55
DATIME ANALYZD:	01/24/0800:29	01/24/0800:24	DATE RECEIVED:	01/10/08
PREP. BATCH:	IPA019W	IPA019W		
CALIB. REF:	ID8A020084	ID8A020084		

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	AS RSLT (mg/L)	AS % REC	QC LIMIT (%)
Antimony	ND	5	5.19	104	75-125
Arsenic	ND	1	1.07	107	75-125
Barium	.0232	1	.997	97	75-125
Beryllium	ND	1	.994	99	75-125
Cadmium	ND	1	1.01	101	75-125
Chromium	ND	1	.967	97	75-125
Cobalt	ND	1	.976	98	75-125
Copper	.00841J	1	.911	90	75-125
Lead	.00747J	1	.98	97	75-125
Molybdenum	.0306J	1	1.03	100	75-125
Nickel	ND	1	.965	97	75-125
Selenium	ND	1	1.06	106	75-125
Silver	ND	1	.961	96	75-125
Thallium	ND	1	.912	91	75-125
Vanadium	ND	1	1.02	102	75-125
Zinc	.0115	1	1.03	102	75-125

Revised Report

LAB CHRONICLE
DISSOLVED METALS BY ICP

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 08A073
Instrument ID : T-ID8

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IPA019WB	1	NA	01/23/0823:56	01/15/0812:00	ID8A020086	ID8A020084	IPA019W	Method Blank
LCS1W	IPA019WL	1	NA	01/24/0800:02	01/15/0812:00	ID8A020087	ID8A020084	IPA019W	Lab Control Sample (LCS)
LCD1W	IPA019WC	1	NA	01/24/0800:07	01/15/0812:00	ID8A020088	ID8A020084	IPA019W	LCS Duplicate
TT-MW2-7D	A073-02	1	NA	01/24/0801:24	01/15/0812:00	ID8A020102	ID8A020096	IPA019W	Field Sample
TT-MW2-23	A073-03	1	NA	01/24/0801:30	01/15/0812:00	ID8A020103	ID8A020096	IPA019W	Field Sample
TT-MW2-21	A073-04	1	NA	01/24/0801:35	01/15/0812:00	ID8A020104	ID8A020096	IPA019W	Field Sample
TT-MW2-22	A073-05	1	NA	01/24/0801:41	01/15/0812:00	ID8A020105	ID8A020096	IPA019W	Field Sample
DUP-010908	A073-06	1	NA	01/24/0801:46	01/15/0812:00	ID8A020106	ID8A020096	IPA019W	Field Sample
TT-MW2-24	A073-07	1	NA	01/24/0802:08	01/15/0812:00	ID8A020110	ID8A020108	IPA019W	Field Sample
TT-MW2--24MS	A073-07M	1	NA	01/24/0818:08	01/15/0812:00	ID8A021035	ID8A021031	IPA019W	Matrix Spike Sample (MS)
TT-MW2--24MSD	A073-07S	1	NA	01/29/0812:38	01/15/0812:00	ID8A024011	ID8A024009	IPA019W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

METHOD 3010A/6010B
DISSOLVED METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 09:48
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-7D	Date Analyzed:	01/24/08 01:24
Lab Samp ID:	A073-02	Dilution Factor:	1
Lab File ID:	ID8A020102	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.0223	0.0100	0.00500
Barium	0.00278J	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	0.0158	0.0100	0.00500
Lead	0.00613J	0.0100	0.00300
Molybdenum	0.0189J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	0.0276	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
DISSOLVED METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 11:00
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-23	Date Analyzed:	01/24/08 01:30
Lab Samp ID:	A073-03	Dilution Factor:	1
Lab File ID:	ID8A020103	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	0.0131	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	0.00633J	0.0100	0.00300
Molybdenum	0.0271J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	0.00584J	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
DISSOLVED METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 12:00
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-21	Date Analyzed:	01/24/08 01:35
Lab Samp ID:	A073-04	Dilution Factor:	1
Lab File ID:	ID8A020104	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.0134	0.0100	0.00500
Barium	0.00334J	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	0.00494J	0.0100	0.00300
Molybdenum	0.0220J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
DISSOLVED METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 12:55
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-22	Date Analyzed:	01/24/08 01:41
Lab Samp ID:	A073-05	Dilution Factor:	1
Lab File ID:	ID8A020105	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.00965J	0.0100	0.00500
Barium	0.0123	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	0.00540J	0.0100	0.00300
Molybdenum	0.0270J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	0.00505J	0.0100	0.00500
Zinc	0.00812J	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
DISSOLVED METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 13:00
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	DUP-010908	Date Analyzed:	01/24/08 01:46
Lab Samp ID:	A073-06	Dilution Factor:	1
Lab File ID:	ID8A020106	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020096	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.0105	0.0100	0.00500
Barium	0.0114	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	0.00536J	0.0100	0.00300
Molybdenum	0.0268J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	0.00765J	0.0100	0.00500
Zinc	0.00628J	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
DISSOLVED METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	01/09/08 13:55
Project	: LMC BEAUMONT SITE 2	Date Received:	01/10/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	TT-MW2-24	Date Analyzed:	01/24/08 02:08
Lab Samp ID:	A073-07	Dilution Factor:	1
Lab File ID:	ID8A020110	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020108	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	0.00593J	0.0100	0.00500
Barium	0.0229	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	0.00788J	0.0100	0.00500
Lead	0.00774J	0.0100	0.00300
Molybdenum	0.0296J	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	0.00839J	0.0100	0.00500

Revised Report

METHOD 3010A/6010B
DISSOLVED METALS BY ICP

Client	: TETRA TECH, INC.	Date Collected:	NA
Project	: LMC BEAUMONT SITE 2	Date Received:	01/15/08
SDG NO.	: 08A073	Date Extracted:	01/15/08 12:00
Sample ID:	MBLK1W	Date Analyzed:	01/23/08 23:56
Lab Samp ID:	IPA019WB	Dilution Factor:	1
Lab File ID:	ID8A020086	Matrix :	WATER
Ext Btch ID:	IPA019W	% Moisture :	NA
Calib. Ref.:	ID8A020084	Instrument ID :	EMAXTID8

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Antimony	ND	0.100	0.0400
Arsenic	ND	0.0100	0.00500
Barium	ND	0.0100	0.00200
Beryllium	ND	0.0100	0.00100
Cadmium	ND	0.0100	0.00200
Chromium	ND	0.0100	0.00500
Cobalt	ND	0.0100	0.00500
Copper	ND	0.0100	0.00500
Lead	ND	0.0100	0.00300
Molybdenum	ND	0.0500	0.0100
Nickel	ND	0.0200	0.0100
Selenium	ND	0.0100	0.00500
Silver	ND	0.0100	0.00500
Thallium	ND	0.0100	0.00500
Vanadium	ND	0.0100	0.00500
Zinc	ND	0.0100	0.00500

Revised Report

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IPA019WB	IPA019WL	IPA019WC		
LAB FILE ID:	ID8A020086	ID8A020087	ID8A020088		
DATIME EXTRCTD:	01/15/0812:00	01/15/0812:00	01/15/0812:00	DATE COLLECTED:	NA
DATIME ANALYZD:	01/23/0823:56	01/24/0800:02	01/24/0800:07	DATE RECEIVED:	01/15/08
PREP. BATCH:	IPA019W	IPA019W	IPA019W		
CALIB. REF:	ID8A020084	ID8A020084	ID8A020084		

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	4.97	100	5	5.07	101	2	80-120	20
Arsenic	ND	1	1.02	102	1	1.03	103	1	80-120	20
Barium	ND	1	.981	98	1	.991	99	1	80-120	20
Beryllium	ND	1	1.02	102	1	1.04	104	1	80-120	20
Cadmium	ND	1	1.01	101	1	1.02	102	1	80-120	20
Chromium	ND	1	.992	99	1	1	100	1	80-120	20
Cobalt	ND	1	.993	99	1	1.01	101	1	80-120	20
Copper	ND	1	.964	96	1	.977	98	1	80-120	20
Lead	ND	1	.992	99	1	1	100	1	80-120	20
Molybdenum	ND	1	1	100	1	1.02	102	2	80-120	20
Nickel	ND	1	.985	98	1	.994	99	1	80-120	20
Selenium	ND	1	.994	99	1	1	100	1	80-120	20
Silver	ND	1	.979	98	1	.989	99	1	80-120	20
Thallium	ND	1	.957	96	1	.969	97	1	80-120	20
Vanadium	ND	1	1.03	103	1	1.04	104	1	80-120	20
Zinc	ND	1	1.03	103	1	1.04	104	1	80-120	20

Revised Report

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 3010A/6010B

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	TT-MW2-24				
CONTROL NO.:	A073-07	A073-07M	A073-07S		
LAB FILE ID:	ID8A020110	ID8A021035	ID8A024011		
DATIME EXTRCTD:	01/15/0812:00	01/15/0812:00	01/15/0812:00	DATE COLLECTED:	01/09/08 13:55
DATIME ANALYZD:	01/24/0802:08	01/24/0818:08	01/29/0812:38	DATE RECEIVED:	01/10/08
PREP. BATCH:	IPA019W	IPA019W	IPA019W		
CALIB. REF:	ID8A020108	ID8A021031	ID8A024009		

ACCESSION:

PARAMETER	SMPL RSLT mg/L	SPIKE AMT mg/L	MS RSLT mg/L	MS % REC	SPIKE AMT mg/L	MSD RSLT mg/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Antimony	ND	5	5.37	107	5	5.73	115	6	75-125	20
Arsenic	.00593J	1	1.08	107	1	1.16	115	7	75-125	20
Barium	.0229	1	1.09	106	1	1.12	110	3	75-125	20
Beryllium	ND	1	1.1	110	1	1.19	119	7	75-125	20
Cadmium	ND	1	1.04	104	1	1.1	110	5	75-125	20
Chromium	ND	1	1.02	102	1	1.08	108	5	75-125	20
Cobalt	ND	1	1.07	107	1	1.12	112	5	75-125	20
Copper	.00788J	1	1.13	113	1	1.16	115	3	75-125	20
Lead	.00774J	1	1.06	105	1	1.12	111	5	75-125	20
Molybdenum	.0296J	1	1.08	105	1	1.14	111	5	75-125	20
Nickel	ND	1	1.05	105	1	1.09	109	4	75-125	20
Selenium	ND	1	1.08	108	1	1.15	115	7	75-125	20
Silver	ND	1	1.05	105	1	1.04	104	1	75-125	20
Thallium	ND	1	1.06	106	1	1.09	109	3	75-125	20
Vanadium	ND	1	1.07	107	1	1.13	113	5	75-125	20
Zinc	.00839J	1	1.08	107	1	1.15	114	7	75-125	20

Revised Report

TRACE-LOW ICP QC CHECK TABLE

QC	ICV HIGH	ICV	CCV	ICSAB	ICSA
Limit%	95-105	90-110	90-110	80-120	80-120
Comp	mg/L	mg/L	mg/L	mg/L	mg/L
Al	10	5	5	500	500
Sb	1	0.5	0.5	1	0
As	1	0.5	0.5	1	0
Ba	1	0.5	0.5	0.5	0
Be	1	0.5	0.5	0.5	0
B	1	0.5	0.5	0.5	0
Cd	1	0.5	0.5	1	0
Ca	100	50	50	500	500
Cr	1	0.5	0.5	0.5	0
Co	1	0.5	0.5	0.5	0
Cu	1	0.5	0.5	0.5	0
Fe	10	5	5	200	200
Pb	1	0.5	0.5	1	0
Li	1	0.5	0.5	0.5	0
Mg	100	50	50	500	500
Mn	1	0.5	0.5	0.5	0
Mo	1	0.5	0.5	1	0
Ni	1	0.5	0.5	1	0
K	100	50	50	75	0
Se	1	0.5	0.5	1	0
Si	1	0.5	0.5	1	0
Ag	1	0.5	0.5	1	0
Na	100	50	50	75	0
Sr	1	0.5	0.5	0.5	0
Tl	1	0.5	0.5	1	0
Sn	1	0.5	0.5	1	0
Ti	1	0.5	0.5	1	0
U	10	5	5	1	0
V	1	0.5	0.5	0.5	0
Zn	1	0.5	0.5	1	0

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/23/08 16:12

End Date: 1/24/08 6:57

Comments:

A073-07M TOT Ag ↓
A073-07M DISS Ag ↓
A073-07S ↓

6010BA08(V35): ICSAI

Book #: AD8-004

Instrument No.: D8

Analytical Batch: 1D8A020

Analytical Sequence: S-6010BA08 (V34)

Method File: 6010BA08 (V34)
6010BA08 (V35)

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B11.08.03
S1	NA
S2	SM1B11.01.03
S3	NA
S4	NA
S5	SM1B11.01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B11.03.01
CCV	02.06
ICSA TH 1/24/08	08.02
ICSAB ~~BGMP~~	0.4.01
CRI/MRL CAM3	SM1B11.08.06
BGMP	SM1B10.96.01

Analyzed By: TH/CPC

Date: 1/24/08

SEQUENCE FILE : ID8A020

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A020001	Blank	16:12	01/23/08	1.000
ID8A020002	S2	16:18	01/23/08	1.000
ID8A020003	S5	16:23	01/23/08	1.000
ID8A020004	S8	16:29	01/23/08	1.000
ID8A020005	ICV	16:34	01/23/08	1.000
ID8A020006	ICB	16:39	01/23/08	1.000
ID8A020007	MRLa	16:45	01/23/08	1.000
ID8A020008	MRL2a	16:50	01/23/08	1.000
ID8A020009	ICSA1	16:56	01/23/08	1.000
ID8A020010	ICSAB1	17:02	01/23/08	1.000
ID8A020011	CCV1	17:07	01/23/08	1.000
ID8A020012	CCB1	17:12	01/23/08	1.000
ID8A020013	IPA023SB	17:18	01/23/08	1.000
ID8A020014	IPA023SL	17:24	01/23/08	1.000
ID8A020015	IPA023SC	17:29	01/23/08	1.000
ID8A020016	A090-01M	17:34	01/23/08	1.000
ID8A020017	A090-01D	17:40	01/23/08	1.000
ID8A020018	A090-01A	17:45	01/23/08	1.000
ID8A020019	A090-01	17:51	01/23/08	1.000
ID8A020020	A090-01J	17:56	01/23/08	5.000
ID8A020021	A090-02	18:01	01/23/08	1.000
ID8A020022	BLANK	18:07	01/23/08	1.000
ID8A020023	CCV2	18:13	01/23/08	1.000
ID8A020024	CCB2	18:18	01/23/08	1.000
ID8A020025	A090-03	18:23	01/23/08	1.000
ID8A020026	A090-04	18:29	01/23/08	1.000
ID8A020027	A091-01	18:35	01/23/08	1.000
ID8A020028	BLANK	18:40	01/23/08	1.000
ID8A020029	BLANK	18:46	01/23/08	1.000
ID8A020030	MRLb	18:51	01/23/08	1.000
ID8A020031	MRL2b	18:57	01/23/08	1.000
ID8A020032	MRL	19:02	01/23/08	1.000
ID8A020033	CCV3	19:08	01/23/08	1.000
ID8A020034	CCB3	19:13	01/23/08	1.000
ID8A020035	IPA017SB	19:19	01/23/08	1.000
ID8A020036	IPA017SL	19:24	01/23/08	1.000
ID8A020037	IPA017SC	19:30	01/23/08	1.000
ID8A020038	A088-01M	19:35	01/23/08	1.000
ID8A020039	A088-01S	19:40	01/23/08	1.000
ID8A020040	A088-01A	19:46	01/23/08	1.000
ID8A020041	A088-01	19:51	01/23/08	1.000
ID8A020042	A088-01J	19:56	01/23/08	5.000
ID8A020043	A088-02	20:02	01/23/08	1.000
ID8A020044	BLANK	20:07	01/23/08	1.000
ID8A020045	CCV4	20:13	01/23/08	1.000
ID8A020046	CCB4	20:18	01/23/08	1.000
ID8A020047	A088-03	20:24	01/23/08	1.000
ID8A020048	A088-04	20:29	01/23/08	1.000
ID8A020049	A088-05	20:34	01/23/08	1.000
ID8A020050	A088-06	20:40	01/23/08	1.000
ID8A020051	A088-09	20:45	01/23/08	1.000
ID8A020052	A088-10	20:51	01/23/08	1.000
ID8A020053	BLANK	20:56	01/23/08	1.000

ID8A020054	CCV5	21:02	01/23/08	1.000
ID8A020055	CCB5	21:07	01/23/08	1.000
ID8A020056	A098-03	21:13	01/23/08	1.000
ID8A020057	A098-04	21:18	01/23/08	1.000
ID8A020058	A098-05	21:23	01/23/08	1.000
ID8A020059	A098-06	21:29	01/23/08	1.000
ID8A020060	A098-07	21:34	01/23/08	1.000
ID8A020061	A098-08	21:40	01/23/08	1.000
ID8A020062	A098-09	21:45	01/23/08	1.000
ID8A020063	A098-10	21:51	01/23/08	1.000
ID8A020064	A098-11	21:56	01/23/08	1.000
ID8A020065	BLANK	22:02	01/23/08	1.000
ID8A020066	CCV6	22:07	01/23/08	1.000
ID8A020067	CCB6	22:13	01/23/08	1.000
ID8A020068	IPA018SB	22:18	01/23/08	1.000
ID8A020069	IPA018SL	22:24	01/23/08	1.000
ID8A020070	IPA018SC	22:29	01/23/08	1.000
ID8A020071	A092-03A	22:35	01/23/08	1.000
ID8A020072	A092-03	22:40	01/23/08	1.000
ID8A020073	A092-03J	22:45	01/23/08	5.000
ID8A020074	BLANK	22:51	01/23/08	1.000
ID8A020075	CCV7	22:56	01/23/08	1.000
ID8A020076	CCB7	23:02	01/23/08	1.000
ID8A020077	A092-04	23:07	01/23/08	1.000
ID8A020078	A092-05	23:13	01/23/08	1.000
ID8A020079	A092-06	23:18	01/23/08	1.000
ID8A020080	A092-07	23:23	01/23/08	1.000
ID8A020081	A098-01	23:29	01/23/08	1.000
ID8A020082	A098-02	23:34	01/23/08	1.000
ID8A020083	BLANK	23:40	01/23/08	1.000
ID8A020084	CCV8	23:46	01/23/08	1.000
ID8A020085	CCB8	23:51	01/23/08	1.000
ID8A020086	IPA019WB	23:56	01/23/08	1.000
ID8A020087	IPA019WL	00:02	01/24/08	1.000
ID8A020088	IPA019WC	00:07	01/24/08	1.000
ID8A020089	A073-07M } Rerun	00:13	01/24/08	1.000
ID8A020090	A073-07S	00:18	01/24/08	1.000
ID8A020091	A073-07A	00:24	01/24/08	1.000
ID8A020092	A073-07	00:29	01/24/08	1.000
ID8A020093	A073-07J	00:35	01/24/08	5.000
ID8A020094	A073-02	00:40	01/24/08	1.000
ID8A020095	BLANK	00:46	01/24/08	1.000
ID8A020096	CCV9	00:51	01/24/08	1.000
ID8A020097	CCB9	00:57	01/24/08	1.000
ID8A020098	A073-03	01:02	01/24/08	1.000
ID8A020099	A073-04	01:08	01/24/08	1.000
ID8A020100	A073-05	01:13	01/24/08	1.000
ID8A020101	A073-06	01:19	01/24/08	1.000
ID8A020102	A073-02	01:24	01/24/08	1.000
ID8A020103	A073-03	01:30	01/24/08	1.000
ID8A020104	A073-04	01:35	01/24/08	1.000
ID8A020105	A073-05	01:41	01/24/08	1.000
ID8A020106	A073-06	01:46	01/24/08	1.000
ID8A020107	BLANK	01:52	01/24/08	1.000
ID8A020108	CCV10	01:57	01/24/08	1.000
ID8A020109	CCB10	02:03	01/24/08	1.000

Total

DES

ID8A020110	A073-07	02:08	01/24/08	1.000
ID8A020111	A073-07M	02:14	01/24/08	1.000
ID8A020112	A073-07S	02:20	01/24/08	1.000
ID8A020113	A092-01	02:25	01/24/08	1.000
ID8A020114	A092-08	02:31	01/24/08	1.000
ID8A020115	A088-07	02:36	01/24/08	1.000
ID8A020116	A088-16	02:42	01/24/08	1.000
ID8A020117	A088-17	02:47	01/24/08	1.000
ID8A020118	BLANK	02:53	01/24/08	1.000
ID8A020119	CCV11	02:59	01/24/08	1.000
ID8A020120	CCB11	03:04	01/24/08	1.000
ID8A020121	ZZZZZZZ	03:10	01/24/08	1.000
ID8A020122	A136-02	03:15	01/24/08	5.000
ID8A020123	ZZZZZZZ	03:21	01/24/08	10.000
ID8A020124	A122-02	03:26	01/24/08	10.000
ID8A020125	A122-07	03:32	01/24/08	10.000
ID8A020126	A122-09	03:38	01/24/08	10.000
ID8A020127	BLANK	03:43	01/24/08	1.000
ID8A020128	CCV12	03:49	01/24/08	1.000
ID8A020129	CCB12	03:54	01/24/08	1.000
ID8A020130	A122-01	04:00	01/24/08	10.000
ID8A020131	A122-03	04:06	01/24/08	10.000
ID8A020132	A122-06	04:11	01/24/08	10.000
ID8A020133	A122-08	04:17	01/24/08	10.000
ID8A020134	A122-01	04:22	01/24/08	1.000
ID8A020135	A122-03	04:28	01/24/08	1.000
ID8A020136	A122-06	04:34	01/24/08	1.000
ID8A020137	A122-08	04:39	01/24/08	1.000
ID8A020138	BLANK	04:45	01/24/08	1.000
ID8A020139	BLANK	04:51	01/24/08	1.000
ID8A020140	CCV13	04:56	01/24/08	1.000
ID8A020141	CCB13	05:02	01/24/08	1.000
ID8A020142	A068-01M	05:07	01/24/08	10.000
ID8A020143	A068-01S	05:13	01/24/08	10.000
ID8A020144	A068-01A	05:18	01/24/08	10.000
ID8A020145	A068-01	05:23	01/24/08	10.000
ID8A020146	A068-01J	05:29	01/24/08	50.000
ID8A020147	A068-04	05:34	01/24/08	10.000
ID8A020148	BLANK	05:40	01/24/08	1.000
ID8A020149	CCV14	05:45	01/24/08	1.000
ID8A020150	CCB14	05:51	01/24/08	1.000
ID8A020151	IPA029WB	05:56	01/24/08	1.000
ID8A020152	IPA029WL	06:02	01/24/08	1.000
ID8A020153	IPA029WC	06:07	01/24/08	1.000
ID8A020154	TXA006SB	06:13	01/24/08	1.000
ID8A020155	A075-02M	06:18	01/24/08	1.000
ID8A020156	A075-02S	06:24	01/24/08	1.000
ID8A020157	A075-02A	06:29	01/24/08	1.000
ID8A020158	A075-02	06:35	01/24/08	1.000
ID8A020159	A075-02J	06:40	01/24/08	5.000
ID8A020160	A075-01	06:46	01/24/08	1.000
ID8A020161	CCV15	06:51	01/24/08	1.000
ID8A020162	CCB15	06:57	01/24/08	1.000

DIS

SDG : 08A073 UNIT : % SUMMARY of ICV and CCV : ID8A020 DATE : 01/23/08

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	94	99	100	99	100	105	103	101	99	100	95	99	98	98	98	103	100	99	101	101	99	96	103	100
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL2A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	94	----	----	----	----	----	----	96	----	----	----	94	----	100	----	----	----	----	----	----	----	----	----	----
ICSAB1	94	102	104	108	100	108	105	95	97	100	95	93	96	98	94	107	100	108	103	110	107	94	102	100
CCV1	96	100	101	100	101	105	103	101	99	100	95	101	98	99	97	104	100	98	102	101	99	96	104	100
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA023SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA023SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA023SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	96	101	102	100	102	106	105	101	100	101	95	101	99	100	98	105	102	98	104	102	99	97	105	102
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A091-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL2B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	96	101	102	100	102	105	104	100	100	101	95	101	99	99	97	105	100	98	103	101	98	97	104	101
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA017SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA017SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA017SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	96	101	103	100	102	105	104	101	101	101	94	101	99	100	97	104	101	97	103	102	98	96	105	102
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	96	101	102	100	101	106	104	101	101	101	95	102	99	100	97	104	100	98	103	102	98	96	105	102
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	96	102	103	100	101	106	104	102	101	101	95	103	99	100	97	104	100	98	104	102	97	96	105	102
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA018SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA018SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	96	102	103	100	101	105	103	100	100	101	95	103	99	100	96	105	99	97	103	101	97	96	104	102
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	96	102	103	100	101	105	102	100	100	100	95	103	99	100	96	105	97	96	103	101	96	96	104	103
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA019WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA019WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA019WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	97	103	104	100	101	106	102	100	101	100	95	103	99	100	96	105	97	97	104	101	97	96	104	103
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	97	102	104	100	101	106	103	100	101	100	95	104	99	100	96	105	99	97	105	101	97	96	105	103
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A073-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	97	103	105	101	101	107	104	101	102	100	97	104	100	100	95	105	100	98	105	102	98	96	105	103
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A136-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A136-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A136-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	97	102	105	102	101	107	107	102	102	100	96	104	99	100	96	104	102	99	106	103	98	95	107	102
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	98	104	108	103	100	108	107	103	104	100	98	105	99	100	96	103	103	100	108	103	100	95	109	103
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	97	103	106	103	101	107	108	103	103	101	98	104	100	100	96	104	104	100	106	103	99	95	108	102
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXA006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	97	104	107	103	101	107	107	102	103	101	98	104	99	100	96	104	103	99	107	103	98	95	108	103
CCB15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 08A073 UNIT : UG/L

SUMMARY of CALIBRATION BLANKS : ID8A020 (WATER)

DATE : 01/23/08 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	2.96	.420	-.500	-.290	.040	.050	-.080	-.100	-.100	.020	-.100	.080	-.060	53.7	.340	.150	-.470	-19.0	.310	.110	16.3	.460	.250	.330
MRLA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL2A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	-1.56	2.11	.070	-.090	-15.2	-.010	----	.090	.400	2.74	----	-.020	----	.110	-2.26	-.020	78.6	2.51	.460	153	1.10	-.230	1.73
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	12.3	.140	-.010	-.220	.110	-.120	.120	9.70	-.010	.140	-.200	-.220	-1.05	15.0	-.920	.130	-.610	-.110	-.410	.300	2.27	-.110	.300	.340
IPA023SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA023SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA023SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01D	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	6.18	.420	-.020	-.090	.040	.770	-.160	9.68	.170	.070	.070	1.80	-1.17	16.0	-1.10	.080	-.520	23.9	.970	.170	-52.6	.920	.260	1.01
A090-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A090-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A091-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRLB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL2B	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	2.63	-.390	-.120	-.440	.010	-.280	-.140	-6.77	-.110	.020	.030	-4.44	-.550	-13.4	.110	.170	-.970	-25.3	.170	.310	-73.9	-.070	.190	-.150
IPA017SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA017SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA017SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	4.10	.190	-.130	-.170	.020	.010	-.020	-12.5	.120	.010	-.120	-1.57	-.770	-.380	-1.11	.280	-.940	-28.7	-.420	.180	-79.0	.010	.090	-.080
A088-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	.660	-.050	-.980	-.270	-.050	-.370	-.020	-2.74	.030	.020	-.270	-2.03	-.230	-.810	-1.20	.200	-.380	-5.11	-1.09	.130	-68.5	.290	-.090	-.110
A098-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	2.28	-.400	.000	-.610	-.030	-.570	-.100	-6.60	-.030	.020	-.040	.900	-.600	18.9	-.890	.210	-.490	-21.9	.310	.370	-78.0	.170	.190	.050
IPA018SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA018SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-03J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	1.31	.950	.960	-.380	.060	-.270	.030	-10.0	.060	.070	-.210	-3.38	.240	.490	-1.18	.130	-.880	12.9	-.120	.230	-78.0	.350	.300	-.100
A092-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A098-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	.410	-.140	-.550	-.300	-.080	-.570	-.100	-8.19	.080	-.090	-.080	-4.10	-.820	15.4	-.370	.100	-.610	-22.0	1.21	.370	-89.7	.140	.400	-.240
IPA019WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA019WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA019WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	2.37	-.150	-.090	-.240	.090	.280	-.260	-9.30	-.080	.170	-.010	-2.76	.020	40.8	.040	.360	.010	-1.99	.430	.750	-31.5	.140	-.060	-.120
A073-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	4.08	.450	.000	-.120	.030	-.100	-.200	-4.54	.200	.090	.090	-2.13	-.010	55.3	.110	.200	-.410	-7.35	.280	.390	-24.3	-.090	.030	-.240

A073-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	3.75	.810	.170	-.510	-.030	3.10	.000	15.1	.250	.020	-.100	-.310	.340	52.4	-.680	.320	-.370	35.6	-.510	.990	331	-.330	.080	.670
A136-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A136-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A136-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	9.77	.210	-2.07	-.300	.110	1.09	.070	-6.53	.190	.070	.200	-3.54	-.650	52.4	-.780	.310	-.730	-11.2	.540	.430	150	-.280	.090	-.350
A122-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	12.5	-1.03	-.880	-.380	.050	3.77	-.010	18.7	.360	.040	-.080	-4.77	.280	41.3	-1.01	.350	-.600	62.0	.260	.230	616	-.140	.140	.520
A068-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	9.64	.430	.920	-.050	-.080	1.02	-.210	11.0	.370	.100	-.130	-1.90	.400	7.30	-.810	.380	-.180	-20.7	.840	.470	150	.480	.260	1.87
IPA029WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TXA006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-02J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A075-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB15	12.0	.960	.700	-.140	-.060	1.20	.000	52.1	.280	.130	.040	-.350	-.140	58.4	-.810	.380	-.240	-17.7	2.61	.400	121	-.290	.120	4.35

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8A020001			1	☐		Continue
2	0	Unk	S2		ID8A020002			1	☐		Continue
3	0	Unk	S5		ID8A020003			1	☐		Continue
4	0	Unk	S8		ID8A020004			1	☐		Continue
5	1	QC	ICV		ID8A020005			1	☒	ICV	Continue
6	2	QC	ICB		ID8A020006			1	☒	CCB1	Continue
7	3	Unk	MRLa	BGMP	ID8A020007			1	☐		Continue
8	4	Unk	MRL2a	CAM3	ID8A020008			1	☐		Continue
9	5	QC	ICSA1		ID8A020009			1	☒	ICSA	Continue
10	6	QC	ICSAB1		ID8A020010			1	☒	ICSAB	Continue
11	7	QC	CCV1		ID8A020011			1	☒	CCV	Continue
12	8	QC	CCB1		ID8A020012			1	☒	CCB1	Continue
13	9	QC	IPA023SB		ID8A020013			1	☒	CCB1	Continue
14	10	QC	IPA023SL		ID8A020014			1	☒	LCS	Continue
15	11	QC	IPA023SC		ID8A020015			1	☒	LCS	Continue
16	12	Unk	A090-01M		ID8A020016			1	☐		Continue
17	13	Unk	A090-01D		ID8A020017			1	☐		Continue
18	14	Unk	A090-01A		ID8A020018			1	☐		Continue
19	15	Unk	A090-01		ID8A020019			1	☐		Continue
20	16	Unk	A090-01J		ID8A020020			1	☐		Continue
21	17	Unk	A090-02		ID8A020021			1	☐		Continue
22	18	Unk	BLANK		ID8A020022			1	☐		Continue
23	19	QC	CCV2		ID8A020023			1	☒	CCV	Continue
24	20	QC	CCB2		ID8A020024			1	☒	CCB1	Continue
25	21	Unk	A090-03		ID8A020025			1	☐		Continue
26	22	Unk	A090-04		ID8A020026			1	☐		Continue
27	23	Unk	A091-01		ID8A020027			1	☐		Continue
28	24	Unk	BLANK		ID8A020028			1	☐		Continue
29	25	Unk	BLANK		ID8A020029			1	☐		Continue
30	26	Unk	MRLb	BGMP	ID8A020030			1	☐		Continue
31	27	Unk	MRL2b	CAM3	ID8A020031			1	☐		Continue
32	28	Unk	MRL	CAM3	ID8A020032			1	☐		Continue
33	29	QC	CCV3		ID8A020033			1	☒	CCV	Continue
34	30	QC	CCB3		ID8A020034			1	☒	CCB1	Continue
35	31	QC	IPA017SB		ID8A020035			1	☒	CCB1	Continue
36	32	QC	IPA017SL		ID8A020036			1	☒	LCS	Continue
37	33	QC	IPA017SC		ID8A020037			1	☒	LCS	Continue
38	34	Unk	A088-01M		ID8A020038			1	☐		Continue
39	35	Unk	A088-01S		ID8A020039			1	☐		Continue
40	36	Unk	A088-01A		ID8A020040			1	☐		Continue
41	37	Unk	A088-01		ID8A020041			1	☐		Continue
42	38	Unk	A088-01J		ID8A020042			1	☐		Continue
43	39	Unk	A088-02		ID8A020043			1	☐		Continue
44	40	Unk	BLANK		ID8A020044			1	☐		Continue
45	41	QC	CCV4		ID8A020045			1	☒	CCV	Continue
46	42	QC	CCB4		ID8A020046			1	☒	CCB1	Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	Unk	A088-03		ID8A020047			1	☐		Continue
48	44	Unk	A088-04		ID8A020048			1	☐		Continue
49	45	Unk	A088-05		ID8A020049			1	☐		Continue
50	46	Unk	A088-06		ID8A020050			1	☐		Continue
51	47	Unk	A088-09		ID8A020051			1	☐		Continue
52	48	Unk	A088-10		ID8A020052			1	☐		Continue
53	49	Unk	BLANK		ID8A020053			1	☐		Continue
54	50	QC	CCV5		ID8A020054			1	☒	CCV	Continue
55	51	QC	CCB5		ID8A020055			1	☒	CCB1	Continue
56	52	Unk	A098-03		ID8A020056			1	☐		Continue
57	53	Unk	A098-04		ID8A020057			1	☐		Continue
58	54	Unk	A098-05		ID8A020058			1	☐		Continue
59	55	Unk	A098-06		ID8A020059			1	☐		Continue
60	56	Unk	A098-07		ID8A020060			1	☐		Continue
61	57	Unk	A098-08		ID8A020061			1	☐		Continue
62	58	Unk	A098-09		ID8A020062			1	☐		Continue
63	59	Unk	A098-10		ID8A020063			1	☐		Continue
64	60	Unk	A098-11		ID8A020064			1	☐		Continue
65	61	Unk	BLANK		ID8A020065			1	☐		Continue
66	62	QC	CCV6		ID8A020066			1	☒	CCV	Continue
67	63	QC	CCB6		ID8A020067			1	☒	CCB1	Continue
68	64	QC	IPA018SB		ID8A020068			1	☒	CCB1	Continue
69	65	QC	IPA018SL		ID8A020069			1	☒	LCS	Continue
70	66	QC	IPA018SC		ID8A020070			1	☒	LCS	Continue
71	67	Unk	A092-03A		ID8A020071			1	☐		Continue
72	68	Unk	A092-03		ID8A020072			1	☐		Continue
73	69	Unk	A092-03J		ID8A020073			1	☐		Continue
74	70	Unk	BLANK		ID8A020074			1	☐		Continue
75	71	QC	CCV7		ID8A020075			1	☒	CCV	Continue
76	72	QC	CCB7		ID8A020076			1	☒	CCB1	Continue
77	73	Unk	A092-04		ID8A020077			1	☐		Continue
78	74	Unk	A092-05		ID8A020078			1	☐		Continue
79	75	Unk	A092-06		ID8A020079			1	☐		Continue
80	76	Unk	A092-07		ID8A020080			1	☐		Continue
81	77	Unk	A098-01	IPA019W	ID8A020081			1	☐		Continue
82	78	Unk	A098-02	IPA019W	ID8A020082			1	☐		Continue
83	79	Unk	BLANK		ID8A020083			1	☐		Continue
84	80	QC	CCV8		ID8A020084			1	☒	CCV	Continue
85	81	QC	CCB8		ID8A020085			1	☒	CCB1	Continue
86	82	QC	IPA019WB		ID8A020086			1	☒	CCB1	Continue
87	83	QC	IPA019WL		ID8A020087			1	☒	LCS	Continue
88	84	QC	IPA019WC		ID8A020088			1	☒	LCS	Continue
89	85	Unk	A073-07M	TOT ↓Ag	ID8A020089			1	☐		Continue
90	86	Unk	A073-07S	TOT	ID8A020090			1	☐		Continue
91	87	Unk	A073-07A	TOT	ID8A020091			1	☐		Continue
92	88	Unk	A073-07	TOT	ID8A020092			1	☐		Continue

7035

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	Unk	A073-07J	TOT	ID8A020093			1	☐		Continue
94	90	Unk	A073-02	TOT	ID8A020094			1	☐		Continue
95	91	Unk	BLANK		ID8A020095			1	☐		Continue
96	92	QC	CCV9		ID8A020096			1	☒	CCV	Continue
97	93	QC	CCB9		ID8A020097			1	☒	CCB1	Continue
98	94	Unk	A073-03	TOT	ID8A020098			1	☐		Continue
99	95	Unk	A073-04	TOT	ID8A020099			1	☐		Continue
100	96	Unk	A073-05	TOT	ID8A020100			1	☐		Continue
101	97	Unk	A073-06	TOT	ID8A020101			1	☐		Continue
102	98	Unk	A073-02	DISS	ID8A020102			1	☐		Continue
103	99	Unk	A073-03	DISS	ID8A020103			1	☐		Continue
104	100	Unk	A073-04	DISS	ID8A020104			1	☐		Continue
105	101	Unk	A073-05	DISS	ID8A020105			1	☐		Continue
106	102	Unk	A073-06	DISS	ID8A020106			1	☐		Continue
107	103	Unk	BLANK		ID8A020107			1	☐		Continue
108	104	QC	CCV10		ID8A020108			1	☒	CCV	Continue
109	105	QC	CCB10		ID8A020109			1	☒	CCB1	Continue
110	106	Unk	A073-07	DISS	ID8A020110			1	☐		Continue
111	107	Unk	A073-07M	DISS ↓Ag	ID8A020111			1	☐		Continue
112	108	Unk	A073-07S	DISS ↓Ag	ID8A020112			1	☐		Continue
113	109	Unk	A092-01 10X Na	TOT Na↑	ID8A020113			1	☐		Continue
114	110	Unk	A092-08 10X Na	DISS Na↑	ID8A020114			1	☐		Continue
115	111	Unk	A088-07	TOT	ID8A020115			1	☐		Continue
116	112	Unk	A088-16 10X Na	TOT ↑Na	ID8A020116			1	☐		Continue
117	113	Unk	A088-17 10X Na	DISS ↑Na	ID8A020117			1	☐		Continue
118	114	Unk	BLANK		ID8A020118			1	☐		Continue
119	115	QC	CCV11		ID8A020119			1	☒	CCV	Continue
120	116	QC	CCB11		ID8A020120			1	☒	CCB1	Continue
121	117	Unk	A136-02	error Pb	ID8A020121			1	☐		Continue
122	118	Unk	A136-02	5X	ID8A020122			1	☐		Continue
123	119	Unk	A136-02	10X	ID8A020123			1	☐		Continue
124	120	Unk	A122-02	DISS 10X Na	ID8A020124			1	☐		Continue
125	121	Unk	A122-07	DISS 10X Na	ID8A020125			1	☐		Continue
126	122	Unk	A122-09	DISS 10X Na ↑Na	ID8A020126			1	☐		Continue
127	123	Unk	BLANK		ID8A020127			1	☐		Continue
128	124	QC	CCV12		ID8A020128			1	☒	CCV	Continue
129	125	QC	CCB12		ID8A020129			1	☒	CCB1	Continue
130	126	Unk	A122-01	TOT 10X Na	ID8A020130			1	☐		Continue
131	127	Unk	A122-03	TOT 10X Na ↑Na	ID8A020131			1	☐		Continue
132	128	Unk	A122-06	TOT 10X Na	ID8A020132			1	☐		Continue
133	129	Unk	A122-08	TOT 10X Na ↑Na	ID8A020133			1	☐		Continue
134	130	Unk	A122-01	TOT 1X	ID8A020134			1	☐		Continue
135	131	Unk	A122-03	TOT 1X	ID8A020135			1	☐		Continue
136	132	Unk	A122-06	TOT 1X	ID8A020136			1	☐		Continue
137	133	Unk	A122-08	TOT 1X	ID8A020137			1	☐		Continue
138	134	Unk	BLANK		ID8A020138			1	☐		Continue

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
139	135	Unk	BLANK		ID8A020139			1	☐		Continue
140	136	QC	CCV13		ID8A020140			1	☒	CCV	Continue
141	137	QC	CCB13		ID8A020141			1	☒	CCB1	Continue
142	138	Unk	A068-01M	10X Pb	ID8A020142			1	☐		Continue
143	139	Unk	A068-01S	10X Pb	ID8A020143			1	☐		Continue
144	140	Unk	A068-01A	10X Pb	ID8A020144			1	☐		Continue
145	141	Unk	A068-01	10X Pb ?	ID8A020145			1	☐		Continue
146	142	Unk	A068-01J	50X Pb	ID8A020146			1	☐		Continue
147	143	Unk	A068-04	10X Pb	ID8A020147			1	☐		Continue
148	144	Unk	BLANK		ID8A020148			1	☐		Continue
149	145	QC	CCV14		ID8A020149			1	☒	CCV	Continue
150	146	QC	CCB14		ID8A020150			1	☒	CCB1	Continue
151	147	QC	IPA029WB		ID8A020151			1	☒	CCB1	Continue
152	148	QC	IPA029WL		ID8A020152			1	☒	LCS	Continue
153	149	QC	IPA029WC		ID8A020153			1	☒	LCS	Continue
154	150	QC	TXA006SB	TCLP Pb	ID8A020154			1	☒	CCB1	Continue
155	151	Unk	A075-02M	TCLP Pb	ID8A020155			1	☐		Continue
156	152	Unk	A075-02S	TCLP Pb	ID8A020156			1	☐		Continue
157	153	Unk	A075-02A	TCLP Pb	ID8A020157			1	☐		Continue
158	154	Unk	A075-02	TCLP Pb	ID8A020158			1	☐		Continue
159	155	Unk	A075-02J	TCLP Pb	ID8A020159			1	☐		Continue
160	156	Unk	A075-01	TCLP Pb	ID8A020160			1	☐		Continue
161	157	QC	CCV15		ID8A020161			1	☒	CCV	Continue
162	158	QC	CCB15		ID8A020162			1	☒	CCB1	Continue

56:01

T0038

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/24/08 14:56

End Date: 1/25/08 04:31

Comments:

A073-075 DISS Ag ↓

CCV 12 Mn 0.4

CCV 13 Cu 0.5

CCV 14 Cu 0.5, Mn 0.4

Book #: AD8-004

Instrument No.: D8

Analytical Batch: 1D8A021

Analytical Sequence: S_6010BA08(V36)

Method File: 6010BA08(V36)
6010BA08(V37)

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	SM1B11.08.03
S1	NA
S2	SM1B11.01.03
S3	NA
S4	NA
S5	SM1B11.01.06
S6	NA
S7	NA
S8	SM1B11.02.03
S9	NA
ICV	SM1B11.03.01
CCV	.02.06
ICSA	.08.02
ICSAB	.04.01
CRI/MRL CAM	SM1B11.08.06
BGMP	SM1B10.96.01

Analyzed By: JL / CAM

Date: 1/25/08

SEQUENCE FILE : ID8A021

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A021001	Blank	14:56	01/24/08	1.000
ID8A021002	S2	15:01	01/24/08	1.000
ID8A021003	S5	15:07	01/24/08	1.000
ID8A021004	S8	15:12	01/24/08	1.000
ID8A021005	ICV	15:18	01/24/08	1.000
ID8A021006	ICB	15:23	01/24/08	1.000
ID8A021007	MRL	15:28	01/24/08	1.000
ID8A021008	MRL2	15:38	01/24/08	1.000
ID8A021009	ICSA1	15:43	01/24/08	1.000
ID8A021010	ICSAB1	15:49	01/24/08	1.000
ID8A021011	CCV1	15:55	01/24/08	1.000
ID8A021012	CCB1	16:00	01/24/08	1.000
ID8A021013	IPA018SC	16:05	01/24/08	1.000
ID8A021014	A092-01	16:11	01/24/08	50.000
ID8A021015	A092-08	16:16	01/24/08	50.000
ID8A021016	A088-16	16:22	01/24/08	50.000
ID8A021017	A088-17	16:27	01/24/08	50.000
ID8A021018	A122-09	16:33	01/24/08	50.000
ID8A021019	A122-03	16:38	01/24/08	50.000
ID8A021020	A122-08	16:44	01/24/08	50.000
ID8A021021	BLANK	16:50	01/24/08	1.000
ID8A021022	CCV2	16:55	01/24/08	1.000
ID8A021023	CCB2	17:00	01/24/08	1.000
ID8A021024	A068-01M	17:06	01/24/08	10.000
ID8A021025	A068-01S	17:14	01/24/08	10.000
ID8A021026	A068-01A	17:19	01/24/08	10.000
ID8A021027	A068-01	17:25	01/24/08	10.000
ID8A021028	A068-01J	17:30	01/24/08	50.000
ID8A021029	A068-04	17:36	01/24/08	10.000
ID8A021030	BLANK	17:41	01/24/08	1.000
ID8A021031	CCV3	17:47	01/24/08	1.000
ID8A021032	CCB3	17:52	01/24/08	1.000
ID8A021033	A073-07M TOT Ag	17:57 all	01/24/08	1.000
ID8A021034	A073-07S TOT Ag	18:03	01/24/08	1.000
ID8A021035	A073-07M DISS	18:08	01/24/08	1.000
ID8A021036	ZZZZZZZZ	18:14	01/24/08	1.000
ID8A021037	BLANK	18:19	01/24/08	1.000
ID8A021038	CCV4	18:25	01/24/08	1.000
ID8A021039	CCB4	18:30	01/24/08	1.000
ID8A021040	IPA030SB	18:36	01/24/08	1.000
ID8A021041	IPA030SL	18:41	01/24/08	1.000
ID8A021042	IPA030SC	18:47	01/24/08	1.000
ID8A021043	A158-10M	18:52	01/24/08	1.000
ID8A021044	A158-10S	18:57	01/24/08	1.000
ID8A021045	A158-10A	19:02	01/24/08	1.000
ID8A021046	A158-10	19:08	01/24/08	1.000
ID8A021047	A158-10J	19:13	01/24/08	5.000
ID8A021048	A158-01	19:18	01/24/08	1.000
ID8A021049	BLANK	19:24	01/24/08	1.000
ID8A021050	CCV5	19:29	01/24/08	1.000
ID8A021051	CCB5	19:35	01/24/08	1.000
ID8A021052	A158-04	19:40	01/24/08	1.000
ID8A021053	A158-07	19:46	01/24/08	1.000

pm 1/30/08

ORIGINAL

ID8A021054	A158-13	19:51	01/24/08	1.000
ID8A021055	A158-13M	19:56	01/24/08	1.000
ID8A021056	A158-13S	20:02	01/24/08	1.000
ID8A021057	A158-16	20:07	01/24/08	1.000
ID8A021058	A158-19	20:12	01/24/08	1.000
ID8A021059	BLANK	20:18	01/24/08	1.000
ID8A021060	CCV6	20:23	01/24/08	1.000
ID8A021061	CCB6	20:29	01/24/08	1.000
ID8A021062	A200-01	20:34	01/24/08	1.000
ID8A021063	A200-02	20:40	01/24/08	1.000
ID8A021064	A192-01	20:45	01/24/08	1.000
ID8A021065	A192-02	20:50	01/24/08	1.000
ID8A021066	A192-03	20:56	01/24/08	1.000
ID8A021067	BLANK	21:01	01/24/08	1.000
ID8A021068	CCV7	21:07	01/24/08	1.000
ID8A021069	CCB7	21:12	01/24/08	1.000
ID8A021070	IPA028SB	21:18	01/24/08	1.000
ID8A021071	IPA028SL	21:23	01/24/08	1.000
ID8A021072	IPA028SC	21:28	01/24/08	1.000
ID8A021073	A135-01M	21:34	01/24/08	1.000
ID8A021074	A135-01S	21:39	01/24/08	1.000
ID8A021075	A135-01A	21:44	01/24/08	1.000
ID8A021076	A135-01	21:50	01/24/08	1.000
ID8A021077	A135-01J	21:55	01/24/08	5.000
ID8A021078	A135-02	22:00	01/24/08	1.000
ID8A021079	BLANK	22:06	01/24/08	1.000
ID8A021080	CCV8	22:11	01/24/08	1.000
ID8A021081	CCB8	22:17	01/24/08	1.000
ID8A021082	A135-03	22:22	01/24/08	1.000
ID8A021083	A135-04	22:28	01/24/08	1.000
ID8A021084	A135-05	22:33	01/24/08	1.000
ID8A021085	A135-06	22:38	01/24/08	1.000
ID8A021086	A135-07	22:44	01/24/08	1.000
ID8A021087	A135-08	22:49	01/24/08	1.000
ID8A021088	A135-11	22:55	01/24/08	1.000
ID8A021089	A135-12	23:00	01/24/08	1.000
ID8A021090	A135-13	23:06	01/24/08	1.000
ID8A021091	BLANK	23:11	01/24/08	1.000
ID8A021092	CCV9	23:17	01/24/08	1.000
ID8A021093	CCB9	23:22	01/24/08	1.000
ID8A021094	A135-14	23:27	01/24/08	1.000
ID8A021095	A135-15	23:33	01/24/08	1.000
ID8A021096	A135-16	23:38	01/24/08	1.000
ID8A021097	A114-01	23:44	01/24/08	1.000
ID8A021098	A490-01	23:49	01/24/08	1.000
ID8A021099	A483-01	23:55	01/24/08	1.000
ID8A021100	A482-01	00:00	01/25/08	1.000
ID8A021101	BLANK	00:06	01/25/08	1.000
ID8A021102	CCV10	00:11	01/25/08	1.000
ID8A021103	CCB10	00:17	01/25/08	1.000
ID8A021104	IPA029WB	00:22	01/25/08	1.000
ID8A021105	IPA029WL	00:28	01/25/08	1.000
ID8A021106	IPA029WC	00:33	01/25/08	1.000
ID8A021107	A491-01A	00:39	01/25/08	1.000
ID8A021108	A491-01	00:44	01/25/08	1.000
ID8A021109	A491-01J	00:50	01/25/08	5.000

ID8A021110	A135-18	00:55	01/25/08	1.000
ID8A021111	A135-21	01:01	01/25/08	1.000
ID8A021112	A135-23	01:06	01/25/08	1.000
ID8A021113	BLANK	01:12	01/25/08	1.000
ID8A021114	CCV11	01:18	01/25/08	1.000
ID8A021115	CCB11	01:23	01/25/08	1.000
ID8A021116	A135-10	01:28	01/25/08	1.000
ID8A021117	A135-17	01:34	01/25/08	1.000
ID8A021118	A135-20	01:40	01/25/08	1.000
ID8A021119	A135-22	01:45	01/25/08	1.000
ID8A021120	A137-01	01:51	01/25/08	1.000
ID8A021121	A137-02	01:56	01/25/08	1.000
ID8A021122	A476-01	02:02	01/25/08	1.000
ID8A021123	A476-02	02:07	01/25/08	1.000
ID8A021124	A476-03	02:13	01/25/08	1.000
ID8A021125	BLANK	02:18	01/25/08	1.000
ID8A021126	CCV12	02:24	01/25/08	1.000
ID8A021127	CCB12	02:29	01/25/08	1.000
ID8A021128	IPA031WB	02:35	01/25/08	1.000
ID8A021129	IPA031WL	02:40	01/25/08	1.000
ID8A021130	IPA031WC	02:45	01/25/08	1.000
ID8A021131	A475-01A	02:51	01/25/08	1.000
ID8A021132	A475-01	02:56	01/25/08	1.000
ID8A021133	A475-01J	03:02	01/25/08	5.000
ID8A021134	A146-01	03:07	01/25/08	1.000
ID8A021135	BLANK	03:13	01/25/08	1.000
ID8A021136	CCV13	03:18	01/25/08	1.000
ID8A021137	CCB13	03:24	01/25/08	1.000
ID8A021138	WTA006SB	03:29	01/25/08	1.000
ID8A021139	A102-01M	03:35	01/25/08	1.000
ID8A021140	A102-01S	03:40	01/25/08	1.000
ID8A021141	A102-01A	03:46	01/25/08	1.000
ID8A021142	A102-01	03:52	01/25/08	1.000
ID8A021143	A102-01J	03:57	01/25/08	5.000
ID8A021144	A101-01	04:03	01/25/08	1.000
ID8A021145	BLANK	04:09	01/25/08	1.000
ID8A021146	BLANK	04:14	01/25/08	1.000
ID8A021147	A173-07SDISS	04:20	01/25/08	1.000
ID8A021148	CCV14	04:25	01/25/08	1.000
ID8A021149	CCB14	04:31	01/25/08	1.000

7012

SDG : 08A073 UNIT : %

SUMMARY of ICV and CCV : ID8A021

DATE : 01/24/08

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	91	95	95	96	100	100	96	99	96	96	99	98	94	97	95	98	95	97	96	97	98	96	99	94
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	94	----	----	----	----	----	----	95	----	----	----	94	----	99	----	----	----	----	----	----	----	----	----	----
ICSAB1	95	97	97	106	101	105	98	95	94	98	106	93	96	98	94	104	96	109	96	106	107	99	99	95
CCV1	95	97	96	98	101	100	97	100	96	98	101	100	96	100	96	101	95	98	97	98	99	98	100	96
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	94	97	97	99	101	100	97	100	97	98	102	100	97	99	96	102	95	99	97	98	100	99	100	97
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	94	97	96	98	101	100	96	99	96	98	103	99	98	98	95	102	94	98	96	98	100	99	100	97
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	93	97	96	99	101	100	96	98	96	98	103	100	97	98	94	102	93	99	96	98	100	99	99	96
CCB4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	93	97	95	99	100	99	95	98	95	98	103	100	97	98	95	102	93	98	96	97	99	99	98	96
CCB5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A158-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-13M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-13S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	94	97	96	99	100	99	96	98	96	98	103	100	97	98	94	102	93	99	97	97	99	99	99	97
CCB6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A192-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A192-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A192-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	95	97	96	100	100	99	96	99	97	98	104	101	97	97	94	102	94	99	97	98	100	99	100	97
CCB7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	94	97	95	100	99	99	96	98	96	98	104	100	97	97	93	102	93	99	96	97	100	99	99	96
CCB8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	94	97	96	100	99	98	96	97	96	98	105	101	98	97	93	103	93	99	96	97	100	99	99	97
CCB9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A114-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A490-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A483-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A482-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	94	97	96	101	99	99	97	98	97	98	106	101	98	97	93	102	94	102	96	98	102	99	100	97
CCB10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A135-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	94	98	97	102	97	100	96	98	97	98	110	101	97	95	91	102	93	105	97	98	105	99	100	97
CCB11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A476-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A476-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A476-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	93	96	95	101	95	98	95	96	95	97	109	100	96	94	90	101	91	104	96	96	104	97	99	95
CCB12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A475-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A475-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A475-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	93	97	96	102	96	99	95	97	96	98	110	100	97	94	90	102	92	106	96	97	105	98	99	96
CCB13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTA006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A101-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A173-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	93	96	95	101	94	97	94	95	94	97	112*	100	96	93	89*	101	91	105	96	95	105	98	98	95
CCB14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

SDG : 08A073 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A021 (WATER) DATE : 01/24/08 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	1.80	-.860	-.630	-.420	-.020	-.250	.060	-17.1	.150	.180	-.020	-3.81	-.550	-35.4	-1.83	.480	.330	-32.8	-1.08	-.040	-1.52	.930	.090	-1.33
MRL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
MRL2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	----	.270	1.93	-.370	-.180	-8.76	-.020	----	.040	.330	3.54	----	.010	----	-.700	-1.90	-.500	-24.4	-.020	-.100	57.8	4.10	-.100	.230
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	9.61	-.250	-.630	-.210	.080	-.850	.070	-16.4	.080	.180	-.020	.060	-.820	-9.02	-.970	.540	-.600	-10.8	-2.34	-.080	-12.6	.500	-.010	-1.59
IPA018SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A092-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A088-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A122-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-1.53	-1.71	-.400	-.290	-.190	-.900	.080	-8.58	-.050	.200	.130	-6.19	-1.08	15.3	-1.35	.460	.010	-3.27	-2.57	-.250	46.1	.900	.160	.540
A068-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A068-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-3.75	-1.57	-1.69	-.310	-.040	-1.08	.160	-13.6	.050	.150	.050	-4.01	1.67	-13.1	-1.96	.450	-.680	-10.9	-.930	-.300	33.9	.830	.120	1.43
A073-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB4	-2.72	-.280	-.720	-.350	-.110	.770	.180	-12.3	.290	.060	.430	-5.21	-.240	-36.2	-3.07	.630	-.670	46.4	-.680	4.68	62.6	.680	.040	.390
IPA030SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA030SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-10J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB5	-8.65	-.890	-.160	-.330	-.170	-.920	.150	-7.80	.120	.190	.350	.880	-.760	-35.8	-.320	.440	-.490	32.0	-1.83	-.160	-24.6	1.25	.160	.290
A158-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A158-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-13M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-13S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A158-19	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB6	-4.69	-1.11	-.710	.030	-.030	-.800	.000	-12.6	-.080	.160	-.040	-4.91	-.540	-45.9	-1.01	.330	-.450	29.6	-.550	-.100	-40.5	-.010	.020	.460
A200-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A200-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A192-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A192-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A192-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB7	-4.31	-1.00	-.640	-.010	.070	-1.66	.210	-21.3	.050	.270	.130	1.13	-.460	-33.0	-.010	.300	.170	11.6	-.450	-.340	-33.8	.750	.040	.330
IPA028SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA028SL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA028SC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB8	-7.62	-.560	-.320	-.250	-.150	-1.29	.070	-12.3	.100	.230	.120	-4.62	.030	-51.6	-2.06	.360	-.080	32.4	-.930	.080	-25.8	.000	.120	.350
A135-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB9	-8.64	-1.41	-2.10	-.010	-.140	-1.66	-.090	-17.9	.010	.240	-.060	.210	.290	1.16	-1.68	.290	.370	29.1	-2.85	-.050	-40.2	.640	-.100	.450
A135-14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-16	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A114-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A490-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A483-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A482-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB10	-8.34	-.230	-1.95	-.780	-.120	.260	-.030	-14.9	.020	.240	1.70	.620	.340	31.6	-.050	.260	.310	41.2	-2.37	-.110	-33.5	.020	.230	1.19
IPA029WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA029WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A491-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

A135-18	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-21	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-23	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV11	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB11	-8.51	-.260	-.910	-.120	.040	2.17	-.070	-4.47	.210	.130	-.010	-2.14	-.840	-14.4	-.730	.340	-.450	143	-1.32	-.180	430	1.04	-.040	.430
A135-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-17	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-20	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A135-22	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A137-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A476-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A476-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A476-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB12	-8.52	-2.10	.720	.090	-.100	-.070	.110	-13.7	.070	.200	.350	-6.11	-1.19	1.84	-1.40	.200	-.780	173	-2.00	.200	386	1.54	.380	-.630
IPA031WB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031WL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
IPA031WC	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A475-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A475-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A475-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A146-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB13	-13.1	-2.49	-.300	.120	-.040	-.310	-.020	-12.6	.150	.380	.010	-5.60	-.870	-15.2	.600	.280	-.200	207	-2.93	.210	316	1.66	.060	-1.48
WTA006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A101-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A173-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV14	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB14	-11.1	-.170	-.210	-.160	.040	-.870	-.030	-2.01	.100	.190	.420	-.810	-.220	-17.5	-.590	.600	.280	114	-1.77	.110	515	.410	.040	-.900

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8A021001			1	☐		Continue
2	0	Unk	S2		ID8A021002			1	☐		Continue
3	0	Unk	S5		ID8A021003			1	☐		Continue
4	0	Unk	S8		ID8A021004			1	☐		Continue
5	1	QC	ICV		ID8A021005			1	☒	ICV	Continue
6	2	QC	ICB		ID8A021006			1	☒	CCB1	Continue
7	3	Unk	MRL	BGMP	ID8A021007			1	☐		Continue
8	4	Unk	MRL2	CAM3	ID8A021008			1	☐		Continue
9	5	QC	ICSA1		ID8A021009			1	☒	ICSA	Continue
10	6	QC	ICSAB1		ID8A021010			1	☒	ICSAB	Continue
11	7	QC	CCV1		ID8A021011			1	☒	CCV	Continue
12	8	QC	CCB1		ID8A021012			1	☒	CCB1	Continue
13	9	QC	IPA018SC	Zn	ID8A021013			1	☒	LCS	Continue
14	10	Unk	A092-01	50X Na, Mg	ID8A021014			1	☐		Continue
15	11	Unk	A092-08	50X Na, Mg	ID8A021015			1	☐		Continue
16	12	Unk	A088-16	TOT 50X Na	ID8A021016			1	☐		Continue
17	13	Unk	A088-17	DISS 50X Na	ID8A021017			1	☐		Continue
18	14	Unk	A122-09	DISS 50X Na	ID8A021018			1	☐		Continue
19	15	Unk	A122-03	TOT 50X Na	ID8A021019			1	☐		Continue
20	16	Unk	A122-08	TOT 50X Na	ID8A021020			1	☐		Continue
21	17	Unk	BLANK		ID8A021021			1	☐		Continue
22	18	QC	CCV2		ID8A021022			1	☒	CCV	Continue
23	19	QC	CCB2		ID8A021023			1	☒	CCB1	Continue
24	20	Unk	A068-01M	10X Pb	ID8A021024			1	☐		Continue
25	21	Unk	A068-01S	10X Pb	ID8A021025			1	☐		Continue
26	22	Unk	A068-01A	10X Pb	ID8A021026			1	☐		Continue
27	23	Unk	A068-01	10X Pb	ID8A021027			1	☐		Continue
28	24	Unk	A068-01J	50X Pb	ID8A021028			1	☐		Continue
29	25	Unk	A068-04	10X Pb	ID8A021029			1	☐		Continue
30	26	Unk	BLANK		ID8A021030			1	☐		Continue
31	27	QC	~~CCV2~~ CCV3		ID8A021031			1	☒	CCV	Continue
32	28	QC	~~CCB2~~ CCV3		ID8A021032			1	☒	CCB1	Continue
33	29	Unk	A073-07M	TOT Ag	ID8A021033			1	☐		Continue
34	30	Unk	A073-07S	TOT Ag	ID8A021034			1	☐		Continue
35	31	Unk	A073-07M	DISS Ag	ID8A021035			1	☐		Continue
36	32	Unk	A073-07S	DISS Ag	ID8A021036			1	☐		Continue
37	33	Unk	BLANK		ID8A021037			1	☐		Continue
38	34	QC	~~CCV2~~ CCV4		ID8A021038			1	☒	CCV	Continue
39	35	QC	~~CCB2~~ CCV4		ID8A021039			1	☒	CCB1	Continue
40	36	QC	IPA030SB	Ni, Pb, Ti	ID8A021040			1	☒	CCB1	Continue
41	37	QC	IPA030SL		ID8A021041			1	☒	LCS	Continue
42	38	QC	IPA030SC		ID8A021042			1	☒	LCS	Continue
43	39	Unk	A158-10M		ID8A021043			1	☐		Continue
44	40	Unk	A158-10S		ID8A021044			1	☐		Continue
45	41	Unk	A158-10A		ID8A021045			1	☐		Continue
46	42	Unk	A158-10		ID8A021046			1	☐		Continue

20:08

7019

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
47	43	Unk	A158-10J		ID8A021047			1	☐		Continue
48	44	Unk	A158-01		ID8A021048			1	☐		Continue
49	45	Unk	BLANK		ID8A021049			1	☐		Continue
50	46	QC	~~CSV3~~ CCV5		ID8A021050			1	☒	CCV	Continue
51	47	QC	~~CSB3~~ CCB5		ID8A021051			1	☒	CCB1	Continue
52	48	Unk	A058-04		ID8A021052			1	☐		Continue
53	49	Unk	A058-07		ID8A021053			1	☐		Continue
54	50	Unk	A058-13		ID8A021054			1	☐		Continue
55	51	Unk	A058-13M		ID8A021055			1	☐		Continue
56	52	Unk	A058-13S		ID8A021056			1	☐		Continue
57	53	Unk	A058-16		ID8A021057			1	☐		Continue
58	54	Unk	A058-19		ID8A021058			1	☐		Continue
59	55	Unk	BLANK		ID8A021059			1	☐		Continue
60	56	QC	~~CSV4~~ CCV6		ID8A021060			1	☒	CCV	Continue
61	57	QC	~~CSB4~~ CCB6		ID8A021061			1	☒	CCB1	Continue
62	58	Unk	A200-01		ID8A021062			1	☐		Continue
63	59	Unk	A200-02		ID8A021063			1	☐		Continue
64	60	Unk	A192-01	Cr	ID8A021064			1	☐		Continue
65	61	Unk	A192-02	Cr	ID8A021065			1	☐		Continue
66	62	Unk	A192-03	Cr	ID8A021066			1	☐		Continue
67	63	Unk	BLANK		ID8A021067			1	☐		Continue
68	64	QC	~~CSV5~~ CCV7		ID8A021068			1	☒	CCV	Continue
69	65	QC	~~CCB5~~ CCB7		ID8A021069			1	☒	CCB1	Continue
70	66	QC	IPA028SB		ID8A021070			1	☒	CCB1	Continue
71	67	QC	IPA028SL		ID8A021071			1	☒	LCS	Continue
72	68	QC	IPA028SC		ID8A021072			1	☒	LCS	Continue
73	69	Unk	A135-01M		ID8A021073			1	☐		Continue
74	70	Unk	A135-01S		ID8A021074			1	☐		Continue
75	71	Unk	A135-01A		ID8A021075			1	☐		Continue
76	72	Unk	A135-01		ID8A021076			1	☐		Continue
77	73	Unk	A135-01J		ID8A021077			1	☐		Continue
78	74	Unk	A135-02		ID8A021078			1	☐		Continue
79	75	Unk	BLANK		ID8A021079			1	☐		Continue
80	76	QC	~~CSV6~~ CCV8		ID8A021080			1	☒	CCV	Continue
81	77	QC	~~CCB6~~ CCB8		ID8A021081			1	☒	CCB1	Continue
82	78	Unk	A135-03		ID8A021082			1	☐		Continue
83	79	Unk	A135-04		ID8A021083			1	☐		Continue
84	80	Unk	A135-05		ID8A021084			1	☐		Continue
85	81	Unk	A135-06		ID8A021085			1	☐		Continue
86	82	Unk	A135-07		ID8A021086			1	☐		Continue
87	83	Unk	A135-08		ID8A021087			1	☐		Continue
88	84	Unk	A135-11		ID8A021088			1	☐		Continue
89	85	Unk	A135-12		ID8A021089			1	☐		Continue
90	86	Unk	A135-13		ID8A021090			1	☐		Continue
91	87	Unk	BLANK		ID8A021091			1	☐		Continue
92	88	QC	~~CSV7~~ CCV9		ID8A021092			1	☒	CCV	Continue

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7050

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
93	89	QC	~~CSB7~~ CCB9		ID8A021093			1	☒	CCB1	Continue
94	90	Unk	A135-14		ID8A021094			1	☐		Continue
95	91	Unk	A135-15		ID8A021095			1	☐		Continue
96	92	Unk	A135-16		ID8A021096			1	☐		Continue
97	93	Unk	A114-01		ID8A021097			1	☐		Continue
98	94	Unk	A490-01	Zn Tl 10x	ID8A021098			1	☐		Continue
99	95	Unk	A483-01	Pb high	ID8A021099			1	☐		Continue
100	96	Unk	A482-01	Pb high	ID8A021100			1	☐		Continue
101	97	Unk	BLANK		ID8A021101			1	☐		Continue
102	98	QC	~~CSV8~~ CCV10		ID8A021102			1	☒	CCV	Continue
103	99	QC	~~CCB8~~ CCB10		ID8A021103			1	☒	CCB1	Continue
104	100	QC	IPA029WB		ID8A021104			1	☒	CCB1	Continue
105	101	QC	IPA029WL		ID8A021105			1	☒	LCS	Continue
106	102	QC	IPA029WC		ID8A021106			1	☒	LCS	Continue
107	103	Unk	A491-01A		ID8A021107			1	☐		Continue
108	104	Unk	A491-01		ID8A021108			1	☐		Continue
109	105	Unk	A491-01J		ID8A021109			1	☐		Continue
110	106	Unk	A135-18	DISS Na ~~10x~~ 10x	ID8A021110			1	☐		Continue
111	107	Unk	A135-21	DISS Na 50x	ID8A021111			1	☐		Continue
112	108	Unk	A135-23	DISS Na 10x	ID8A021112			1	☐		Continue
113	109	Unk	BLANK		ID8A021113			1	☐		Continue
114	110	QC	~~CSV9~~ CCV11		ID8A021114			1	☒	CCV	Continue
115	111	QC	~~CCB9~~ CCB11	K 0.4, Na 0.4	ID8A021115			1	☒	CCB1	Continue
116	112	Unk	A135-10	TOT	ID8A021116			1	☐		Continue
117	113	Unk	A135-17	TOT Na 10x	ID8A021117			1	☐		Continue
118	114	Unk	A135-20	TOT Na 50x	ID8A021118			1	☐		Continue
119	115	Unk	A135-22	TOT Na 10x	ID8A021119			1	☐		Continue
120	116	Unk	A137-01		ID8A021120			1	☐		Continue
121	117	Unk	A137-02		ID8A021121			1	☐		Continue
122	118	Unk	A476-01		ID8A021122			1	☐		Continue
123	119	Unk	A476-02		ID8A021123			1	☐		Continue
124	120	Unk	A476-03		ID8A021124			1	☐		Continue
125	121	Unk	BLANK		ID8A021125			1	☐		Continue
126	122	QC	~~CSV10~~ CCV12	Hg 0.4	ID8A021126			1	☒	CCV	Continue
127	123	QC	~~CCB10~~ CCB12	K 0.1, Na 0.3	ID8A021127			1	☒	CCB1	Continue
128	124	QC	IPA031WB	Na 0.3	ID8A021128			1	☒	CCB1	Continue
129	125	QC	IPA031WL		ID8A021129			1	☒	LCS	Continue
130	126	QC	IPA031WC		ID8A021130			1	☒	LCS	Continue
131	127	Unk	A475-01A		ID8A021131			1	☐		Continue
132	128	Unk	A475-01		ID8A021132			1	☐		Continue
133	129	Unk	A475-01J		ID8A021133			1	☐		Continue
134	130	Unk	A146-01		ID8A021134			1	☐		Continue
135	131	Unk	BLANK		ID8A021135			1	☐		Continue
136	132	QC	~~CSV11~~ CCV13	Cu 0.5	ID8A021136			1	☒	CCV	Continue
137	133	QC	~~CSB11~~ CCB13	K 0.2; Na 0.3	ID8A021137			1	☒	CCB1	Continue
138	134	QC	WTA006SB	STLC	ID8A021138			1	☒	CCB1	Continue

JC 1/25/08

7051

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
139	135	Unk	A102-01M	STLC	ID8A021139			1	☐		Continue
140	136	Unk	A102-01S	STLC	ID8A021140			1	☐		Continue
141	137	Unk	A102-01A	STLC	ID8A021141			1	☐		Continue
142	138	Unk	A102-01	STLC	ID8A021142			1	☐		Continue
143	139	Unk	A102-01J	STLC	ID8A021143			1	☐		Continue
144	140	Unk	A101-01	STLC	ID8A021144			1	☐		Continue
145	141	Unk	BLANK		ID8A021145			1	☐		Continue
146	142	Unk	BLANK		ID8A021146			1	☐		Continue
147	143	Unk	A173-07S	DISS Ag	ID8A021147			1	☐		Continue
148	144	QC	~~CCV12~~ CCV14	Cu 0.56 . Mn 0.44	ID8A021148			1	☒	CCV	Continue
149	145	QC	~~CCB12~~ CCB14	K 0.1 ; Na 0.5	ID8A021149			1	☒	CCB1	Continue

JC 1/25/08

20:08

7052

ANALYSIS RUN LOG
for
ICP

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/29/08 11:43

End Date: 1/29/08 14:23

Comments:

Book #: AD8-004

Instrument No.: D8

Analytical Batch: 1D8A024

Analytical Sequence: S_6010BA08(V41)

Method File: 6010BA08(V41)

SOP #	Rev. #
☑ EMAX-6010	5
☐ EMAX-200.7	0
☐ EMAX-	

STANDARDS ID	
S0	Sm1B11.08.03
S1	NA
S2	Sm1B11.01.03
S3	NA
S4	NA
S5	Sm1B11.01.06
S6	NA
S7	NA
S8	Sm1B11.02.03
S9	NA
ICV	Sm1B11.03.01
CCV	.02.06
ICSA	.08.02
ICSAB	.04.01
CRI/MRL	

Analyzed By: JC / CPC

Date: 1/29/08

SEQUENCE FILE : ID8A024

4-18	19-33	34-43	44-53	54-63
LFID	LSID	TIME	DATE	DF
ID8A024001	Blank	11:43	01/29/08	1.000
ID8A024002	S2	11:49	01/29/08	1.000
ID8A024003	S5	11:54	01/29/08	1.000
ID8A024004	S8	12:00	01/29/08	1.000
ID8A024005	ICV	12:05	01/29/08	1.000
ID8A024006	ICB	12:11	01/29/08	1.000
ID8A024007	ICSA1	12:16	01/29/08	1.000
ID8A024008	ICSAB1	12:22	01/29/08	1.000
ID8A024009	CCV1	12:27	01/29/08	1.000
ID8A024010	CCB1	12:33	01/29/08	1.000
ID8A024011	A073-07S	12:38	01/29/08	1.000
ID8A024012	WTA006SB	12:44	01/29/08	1.000
ID8A024013	A102-01M	12:49	01/29/08	5.000
ID8A024014	A102-01S	12:55	01/29/08	5.000
ID8A024015	BLANK	13:00	01/29/08	1.000
ID8A024016	BLANK	13:06	01/29/08	1.000
ID8A024017	BLANK	13:11	01/29/08	1.000
ID8A024018	BLANK	13:17	01/29/08	1.000
ID8A024019	CCV2	13:22	01/29/08	1.000
ID8A024020	CCB2	13:27	01/29/08	1.000
ID8A024021	A102-01A	13:33	01/29/08	5.000
ID8A024022	A102-01	13:38	01/29/08	5.000
ID8A024023	A102-01J	13:44	01/29/08	25.000
ID8A024024	A101-01	13:49	01/29/08	5.000
ID8A024025	BLANK	13:55	01/29/08	1.000
ID8A024026	BLANK	14:01	01/29/08	1.000
ID8A024027	BLANK	14:06	01/29/08	1.000
ID8A024028	BLANK	14:12	01/29/08	1.000
ID8A024029	CCV3	14:17	01/29/08	1.000
ID8A024030	CCB3	14:23	01/29/08	1.000

Disc Ag all pc 1/30/08

7054

SDG : 08A073 UNIT : % SUMMARY of ICV and CCV : ID8A024 DATE : 01/29/08 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	93	98	98	98	101	102	96	100	97	98	101	100	97	99	97	102	93	98	98	98	98	98	99	98
ICB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICSA1	94	----	----	----	----	----	----	93	----	----	----	93	----	98	----	----	----	----	----	----	----	----	----	----
ICSAB1	94	98	97	104	101	116	97	94	93	98	104	93	97	98	94	105	92	107	97	105	105	98	97	97
CCV1	94	97	96	96	101	101	95	98	95	98	100	99	96	99	96	101	92	97	97	97	97	97	99	97
CCB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTA006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
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CCV2	93	99	98	97	104	103	96	100	97	98	102	100	97	100	98	102	93	98	99	98	98	98	99	98
CCB2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A101-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
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BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	90	96	95	93	101	100	92	97	94	95	100	97	95	98	95	99	89*	95	96	95	96	96	96	96
CCB3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

7055

SDG : 08A073 UNIT : UG/L SUMMARY of CALIBRATION BLANKS : ID8A024 (WATER) DATE : 01/29/08 I

ANALYTE	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	Na	Tl	V	Zn
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
S8	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICV	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ICB	-4.90	-.430	-.760	-.350	-.020	.250	.090	-50.1	.100	.150	.060	-3.61	-1.32	47.7	-.660	.440	-.560	10.7	.960	-.280	-343	1.03	.000	-2.91
ICSA1	----	.310	2.45	.260	.150	44.3	5.40	----	.280	.070	2.56	----	6.20	----	.940	-1.52	5.52	91.1	1.75	-.110	-31.9	-.040	-.280	-1.65
ICSAB1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB1	22.4	.290	-.310	-.190	.080	.030	.390	-39.4	.450	.040	.040	10.6	-.840	34.5	.650	.510	-.300	-1.32	-.450	-.350	-397	-.070	.040	-3.13
A073-07S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WTA006SB	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01M	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01S	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
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BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB2	-9.12	-.450	-.810	-.450	.050	-.160	.110	-53.2	.160	.090	.110	-3.13	-.900	42.8	-.390	.280	.370	2.87	.350	-.200	-392	.420	-.160	-3.18
A102-01A	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A102-01J	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
A101-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
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BLANK	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCV3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CCB3	-10.4	-.890	-.770	-.290	.130	-.350	.140	-49.5	.220	.170	-.110	-1.22	-1.47	10.2	.320	.350	.350	-32.8	-.140	-.230	-454	.250	-.190	-3.16

QC limit of each parameter are listed in a table attached next to all the ICP check forms
* : Out of QC Limit

7059

15:13

	Pos ID	Type	Samplename	Comment	Data File	Type*	Diln Factor	CorrFact	Check	Check Table	Fail Action
1	0	Unk	S0		ID8A024001			1	☐		Continue
2	0	Unk	S2		ID8A024002			1	☐		Continue
3	0	Unk	S5		ID8A024003			1	☐		Continue
4	0	Unk	S8		ID8A024004			1	☐		Continue
5	1	QC	ICV		ID8A024005			1	☒	CCV	Continue
6	2	QC	ICB		ID8A024006			1	☒	CCB1	Continue
7	3	QC	ICSA1		ID8A024007			1	☒	ICSA	Continue
8	4	QC	ICSAB1		ID8A024008			1	☒	ICSAB	Continue
9	5	QC	CCV1		ID8A024009			1	☒	CCV	Continue
10	6	QC	CCB1		ID8A024010			1	☒	CCB1	Continue
11	7	Unk	A073-07M S		ID8A024011			1	☐		Continue
12	8	Unk	~~WTA031WB~~ WTA006 SB		ID8A024012			1	☐		Continue
13	9	Unk	A102-01M	5X	ID8A024013			1	☐		Continue
14	10	Unk	A102-01S	5X	ID8A024014			1	☐		Continue
15	11	Unk	BLANK		ID8A024015			1	☐		Continue
16	12	Unk	BLANK		ID8A024016			1	☐		Continue
17	13	Unk	BLANK		ID8A024017			1	☐		Continue
18	14	Unk	BLANK		ID8A024018			1	☐		Continue
19	15	QC	CCV2		ID8A024019			1	☒	CCV	Continue
20	16	QC	CCB2		ID8A024020			1	☒	CCB1	Continue
21	17	Unk	A102-01A	5X	ID8A024021			1	☐		Continue
22	18	Unk	A102-01	5X	ID8A024022			1	☐		Continue
23	19	Unk	A102-01J	25X	ID8A024023			1	☐		Continue
24	20	Unk	A101-01	5X	ID8A024024			1	☐		Continue
25	21	Unk	BLANK		ID8A024025			1	☐		Continue
26	22	Unk	BLANK		ID8A024026			1	☐		Continue
27	23	Unk	BLANK		ID8A024027			1	☐		Continue
28	24	Unk	BLANK		ID8A024028			1	☐		Continue
29	25	QC	CCV3		ID8A024029			1	☒	CCV	Continue
30	26	QC	CCB3		ID8A024030			1	☒	CCB1	Continue

7057

DIGESTION LOG FOR ICP METALS

SOP ☐ EMAX-3005 Rev. No.4 ☑ EMAX-3010 Rev. No. 3 ☐ EMAX-3050 Rev. No. 3 ☐ EMAX-CLP-TAL ☐

Book # EIP-065

Matrix: WATER Start Date: 1-15-08 Time: 12:00 Temp: 90 °C Ending Date: 1-15-08 Time: 16:00 Temp.: 96 °C

BATCH: IPA019-W

Sample Prep ID	Lab Sample ID	Matrix Description: Color	Matrix Description: Texture / Clarity	Matrix Description: Artifacts	Turbidity <1 NTU	Sample Amount (g | ml)	pH	Extract Volume (ml)	Digestate Description: Color	Digestate Description: Clarity
01	IPA019-WB					50	–	50		
02	-WL					50	–	50		
03	-WC					50	–	50		
04	A073-02 TOTAL					50	<2	50		
05	-03					50		50		
06	-04					50		50		
07	-05					50		50		
08	-06					50		50		
09	-07					50		50		
10	-07M					50		50		
11	-07S					50		50		
12	A073-02 DISS					50		50		
13	03					50		50		
14	-04					50		50		
15	-05					50		50		
16	-06					50		50		
17	-07					50		50		
18	-07M					50		50		
19	-07S					50		50		
20	A098-01					50		50		
21	-02					50		50		
22	A092-01 TOTAL					50		50		
23	-08 DISS					50		50		
24	A088-07 TOTAL					50		50		
25	-16					50		50		
26	-17 DISS					50	✓1	50		
27										

1-15-08 LMC

Standards	ID	Amount Added (ml)
LCS -1	SMIA-10-99	0.5
LCS -2	SMIA-10-98	0.5
LCS -3	SMIA-10-97	0.5
MS		

Reagent	Lot# / ID	Amount Added (ml)
HNO_3	SWIA-03-670	1.5+1.5
HCl	SWIA-03-671	2.5
H_2O_2	N/A	
HNO3 (1:1)	N/A	

Digestate Location	ICP
Extract Location	

Legend:

Texture	Cs = Coarse	Md = Medium	Fn = Fine
Clarity	Cr = Clear	Cy = Cloudy	Td = Turbid
Artifacts	Rk = rocks	Sl = Shale	Vg=Vegetation
Color	Bu = blue	Bk = Black	Bn = Brown
	Gn = Green	Og = Orange	Rd = Red
	Yw = Yellow	Cl = Colorless	

Comments: Samples for Methods 200.7 or 200.8 Analyses

If turbidity ≤ 1 NTU no digestion is required unless otherwise required by the project

Prepared By: LMC Standard Added By: LMC

Witnessed By: TH Extracts Rcvd. By: TH 1/15/08

Checked By: TH

Date Disposed: Disposed by:

7058

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **08A073**

METHOD 7470A
TOTAL AND DISSOLVED MERCURY BY COLD VAPOR

Six (6) water for samples for Total and six (6) water samples for Dissolved Mercury were received on 01/10/08 for Mercury analysis by Method 7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution/Post-Analytical Spike

Sample A073-07 (Total) was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

Samples A073-07 (Total and Dissolved) were spiked. All recoveries were within QC limit.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 08A073
Instrument ID : TI047

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGA020WB	1	NA	01/16/0815:39	01/15/0815:00	M47A012027	M47A012020	HGA020W	Method Blank
LCS1W	HGA020WL	1	NA	01/16/0815:41	01/15/0815:00	M47A012028	M47A012020	HGA020W	Lab Control Sample (LCS)
LCD1W	HGA020WC	1	NA	01/16/0815:43	01/15/0815:00	M47A012029	M47A012020	HGA020W	LCS Duplicate
TT-MW2-24AS	A073-07A	1	NA	01/16/0815:45	01/15/0815:00	M47A012030	M47A012020	HGA020W	Analytical Spike Sample
TT-MW2-24	A073-07	1	NA	01/16/0815:47	01/15/0815:00	M47A012031	M47A012020	HGA020W	Field Sample
TT-MW2-24DL	A073-07J	5	NA	01/16/0815:53	01/15/0815:00	M47A012034	M47A012032	HGA020W	Diluted Sample
TT-MW2--24MS	A073-07M	1	NA	01/16/0815:55	01/15/0815:00	M47A012035	M47A012032	HGA020W	Matrix Spike Sample (MS)
TT-MW2--24MSD	A073-07S	1	NA	01/16/0815:57	01/15/0815:00	M47A012036	M47A012032	HGA020W	MS Duplicate (MSD)
TT-MW2-7D	A073-02	1	NA	01/16/0815:59	01/15/0815:00	M47A012037	M47A012032	HGA020W	Field Sample
TT-MW2-23	A073-03	1	NA	01/16/0816:01	01/15/0815:00	M47A012038	M47A012032	HGA020W	Field Sample
TT-MW2-21	A073-04	1	NA	01/16/0816:03	01/15/0815:00	M47A012039	M47A012032	HGA020W	Field Sample
TT-MW2-22	A073-05	1	NA	01/16/0816:05	01/15/0815:00	M47A012040	M47A012032	HGA020W	Field Sample
DUP-010908	A073-06	1	NA	01/16/0816:07	01/15/0815:00	M47A012041	M47A012032	HGA020W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 08A073

Matrix : WATER
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGA020WB	ND	1	NA	0.500	0.100	01/16/0815:39	01/15/0815:00	M47A012027	M47A012020	HGA020W	NA	01/15/08
LCS1W	HGA020WL	4.67	1	NA	0.500	0.100	01/16/0815:41	01/15/0815:00	M47A012028	M47A012020	HGA020W	NA	01/15/08
LCD1W	HGA020WC	4.79	1	NA	0.500	0.100	01/16/0815:43	01/15/0815:00	M47A012029	M47A012020	HGA020W	NA	01/15/08
TT-MW2-24AS	A073-07A	2.01	1	NA	0.500	0.100	01/16/0815:45	01/15/0815:00	M47A012030	M47A012020	HGA020W	01/09/08	01/10/08
TT-MW2-24	A073-07	ND	1	NA	0.500	0.100	01/16/0815:47	01/15/0815:00	M47A012031	M47A012020	HGA020W	01/09/08	01/10/08
TT-MW2-24DL	A073-07J	ND	5	NA	2.50	0.500	01/16/0815:53	01/15/0815:00	M47A012034	M47A012032	HGA020W	01/09/08	01/10/08
TT-MW2--24MS	A073-07M	4.81	1	NA	0.500	0.100	01/16/0815:55	01/15/0815:00	M47A012035	M47A012032	HGA020W	01/09/08	01/10/08
TT-MW2--24MSD	A073-07S	4.74	1	NA	0.500	0.100	01/16/0815:57	01/15/0815:00	M47A012036	M47A012032	HGA020W	01/09/08	01/10/08
TT-MW2-7D	A073-02	ND	1	NA	0.500	0.100	01/16/0815:59	01/15/0815:00	M47A012037	M47A012032	HGA020W	01/09/08	01/10/08
TT-MW2-23	A073-03	ND	1	NA	0.500	0.100	01/16/0816:01	01/15/0815:00	M47A012038	M47A012032	HGA020W	01/09/08	01/10/08
TT-MW2-21	A073-04	ND	1	NA	0.500	0.100	01/16/0816:03	01/15/0815:00	M47A012039	M47A012032	HGA020W	01/09/08	01/10/08
TT-MW2-22	A073-05	0.103J	1	NA	0.500	0.100	01/16/0816:05	01/15/0815:00	M47A012040	M47A012032	HGA020W	01/09/08	01/10/08
DUP-010908	A073-06	0.120J	1	NA	0.500	0.100	01/16/0816:07	01/15/0815:00	M47A012041	M47A012032	HGA020W	01/09/08	01/10/08

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGA020WB	HGA020WL	HGA020WC		
LAB FILE ID:	M47A012027	M47A012028	M47A012029		
DATIME EXTRCTD:	01/15/0815:00	01/15/0815:00	01/15/0815:00	DATE COLLECTED:	NA
DATIME ANALYZD:	01/16/0815:39	01/16/0815:41	01/16/0815:43	DATE RECEIVED:	01/15/08
PREP. BATCH:	HGA020W	HGA020W	HGA020W		
CALIB. REF:	M47A012020	M47A012020	M47A012020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	4.67	93	5.00	4.79	96	3	80-120	20

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	TT-MW2-24				
CONTROL NO.:	A073-07	A073-07M	A073-07S		
LAB FILE ID:	M47A012031	M47A012035	M47A012036		
DATIME EXTRCTD:	01/15/0815:00	01/15/0815:00	01/15/0815:00	DATE COLLECTED:	01/09/08
DATIME ANALYZD:	01/16/0815:47	01/16/0815:55	01/16/0815:57	DATE RECEIVED:	01/10/08
PREP. BATCH:	HGA020W	HGA020W	HGA020W		
CALIB. REF:	M47A012020	M47A012032	M47A012032		

ACCESSION:

PARAMETER	SMPL RSLT ug/L	SPIKE AMT ug/L	MS RSLT ug/L	MS % REC	SPIKE AMT ug/L	MSD RSLT ug/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	4.81	96	5.00	4.74	95	1	75-125	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	TT-MW2-24	TT-MW2-24DL		
EMAX SAMP ID:	A073-07	A073-07J		
LAB FILE ID:	M47A012031	M47A012034		
DATE EXTRACTED:	01/15/0815:00	01/15/0815:00	DATE COLLECTED:	01/09/08
DATE ANALYZED:	01/16/0815:47	01/16/0815:53	DATE RECEIVED:	01/10/08
PREP. BATCH:	HGA020W	HGA020W		
CALIB. REF:	M47A012020	M47A012032		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SERIAL DIL RSLT (ug/L)	DIF RSLT %	QC LIMIT (%)
Mercury	ND	ND	0	10

7061

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	TT-MW2-24			
CONTROL NO.:	A073-07	A073-07A		
LAB FILE ID:	M47A012031	M47A012030		
DATIME EXTRCTD:	01/15/0815:00	01/15/0815:00	DATE COLLECTED:	01/09/08
DATIME ANALYZD:	01/16/0815:47	01/16/0815:45	DATE RECEIVED:	01/10/08
PREP. BATCH:	HGA020W	HGA020W		
CALIB. REF:	M47A012020	M47A012020		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	AS RSLT (ug/L)	AS % REC	QC LIMIT (%)
Mercury	ND	2.00	2.01	101	85-115

LAB CHRONICLE
DISSOLVED MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2

SDG NO. : 08A073
Instrument ID : TI047

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGA020WB	1	NA	01/16/0815:39	01/15/0815:00	M47A012027	M47A012020	HGA020W	Method Blank
LCS1W	HGA020WL	1	NA	01/16/0815:41	01/15/0815:00	M47A012028	M47A012020	HGA020W	Lab Control Sample (LCS)
LCD1W	HGA020WC	1	NA	01/16/0815:43	01/15/0815:00	M47A012029	M47A012020	HGA020W	LCS Duplicate
TT-MW2-7D	A073-02	1	NA	01/16/0816:09	01/15/0815:00	M47A012042	M47A012032	HGA020W	Field Sample
TT-MW2-23	A073-03	1	NA	01/16/0816:11	01/15/0815:00	M47A012043	M47A012032	HGA020W	Field Sample
TT-MW2-21	A073-04	1	NA	01/16/0816:17	01/15/0815:00	M47A012046	M47A012044	HGA020W	Field Sample
TT-MW2-22	A073-05	1	NA	01/16/0816:19	01/15/0815:00	M47A012047	M47A012044	HGA020W	Field Sample
DUP-010908	A073-06	1	NA	01/16/0816:21	01/15/0815:00	M47A012048	M47A012044	HGA020W	Field Sample
TT-MW2-24	A073-07	1	NA	01/16/0816:23	01/15/0815:00	M47A012049	M47A012044	HGA020W	Field Sample
TT-MW2--24MS	A073-07M	1	NA	01/16/0816:25	01/15/0815:00	M47A012050	M47A012044	HGA020W	Matrix Spike Sample (MS)
TT-MW2--24MSD	A073-07S	1	NA	01/16/0816:27	01/15/0815:00	M47A012051	M47A012044	HGA020W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
DISSOLVED MERCURY BY COLD VAPOR

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 08A073

Matrix : WATER
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGA020WB	ND	1	NA	0.500	0.100	01/16/0815:39	01/15/0815:00	M47A012027	M47A012020	HGA020W	NA	01/15/08
LCS1W	HGA020WL	4.67	1	NA	0.500	0.100	01/16/0815:41	01/15/0815:00	M47A012028	M47A012020	HGA020W	NA	01/15/08
LCD1W	HGA020WC	4.79	1	NA	0.500	0.100	01/16/0815:43	01/15/0815:00	M47A012029	M47A012020	HGA020W	NA	01/15/08
TT-MW2-7D	A073-02	ND	1	NA	0.500	0.100	01/16/0816:09	01/15/0815:00	M47A012042	M47A012032	HGA020W	01/09/08	01/10/08
TT-MW2-23	A073-03	ND	1	NA	0.500	0.100	01/16/0816:11	01/15/0815:00	M47A012043	M47A012032	HGA020W	01/09/08	01/10/08
TT-MW2-21	A073-04	ND	1	NA	0.500	0.100	01/16/0816:17	01/15/0815:00	M47A012046	M47A012044	HGA020W	01/09/08	01/10/08
TT-MW2-22	A073-05	ND	1	NA	0.500	0.100	01/16/0816:19	01/15/0815:00	M47A012047	M47A012044	HGA020W	01/09/08	01/10/08
DUP-010908	A073-06	ND	1	NA	0.500	0.100	01/16/0816:21	01/15/0815:00	M47A012048	M47A012044	HGA020W	01/09/08	01/10/08
TT-MW2-24	A073-07	ND	1	NA	0.500	0.100	01/16/0816:23	01/15/0815:00	M47A012049	M47A012044	HGA020W	01/09/08	01/10/08
TT-MW2--24MS	A073-07M	4.79	1	NA	0.500	0.100	01/16/0816:25	01/15/0815:00	M47A012050	M47A012044	HGA020W	01/09/08	01/10/08
TT-MW2--24MSD	A073-07S	4.67	1	NA	0.500	0.100	01/16/0816:27	01/15/0815:00	M47A012051	M47A012044	HGA020W	01/09/08	01/10/08

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGA020WB	HGA020WL	HGA020WC		
LAB FILE ID:	M47A012027	M47A012028	M47A012029		
DATIME EXTRCTD:	01/15/0815:00	01/15/0815:00	01/15/0815:00	DATE COLLECTED:	NA
DATIME ANALYZD:	01/16/0815:39	01/16/0815:41	01/16/0815:43	DATE RECEIVED:	01/15/08
PREP. BATCH:	HGA020W	HGA020W	HGA020W		
CALIB. REF:	M47A012020	M47A012020	M47A012020		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	4.67	93	5.00	4.79	96	3	80-120	20

7098

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
SDG NO.: 08A073
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	TT-MW2-24				
CONTROL NO.:	A073-07	A073-07M	A073-07S		
LAB FILE ID:	M47A012049	M47A012050	M47A012051		
DATIME EXTRCTD:	01/15/0815:00	01/15/0815:00	01/15/0815:00	DATE COLLECTED:	01/09/08
DATIME ANALYZD:	01/16/0816:23	01/16/0816:25	01/16/0816:27	DATE RECEIVED:	01/10/08
PREP. BATCH:	HGA020W	HGA020W	HGA020W		
CALIB. REF:	M47A012044	M47A012044	M47A012044		

ACCESSION:

PARAMETER	SMPL RSLT ug/L	SPIKE AMT ug/L	MS RSLT ug/L	MS % REC	SPIKE AMT ug/L	MSD RSLT ug/L	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	5.00	4.79	96	5.00	4.67	93	3	75-125	20

7069

ANALYSIS RUN LOG
for
MERCURY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Start Date: 1/16/08 **Start Time:** 14:43

End Date: 1/16/08 **End Time:** 16:32

Comments:

QC OK

Book #: A47-56

Instrument No.: 47

Analytical Sequence/Batch: M47A012

Method File: Hg

SOP #	Rev. #
☑ EMAX-7470	3
☐ EMAX-7471	3
☐ EMAX-CLP-245.5	
☐ EMAX-CLP-245.1	
☐ EMAX-	

STANDARDS ID	
S1	BLANK
S2	SM3B-07-813
S3	↓
S4	↓
S5	↓
S6	↓
ICV	SM3B-07-814
CCV	↓
LCS	↓
Analytical Spike	
	SM3B-07-790

Analyzed By: NT

Date: 1/16/08

7070

"M47A012"

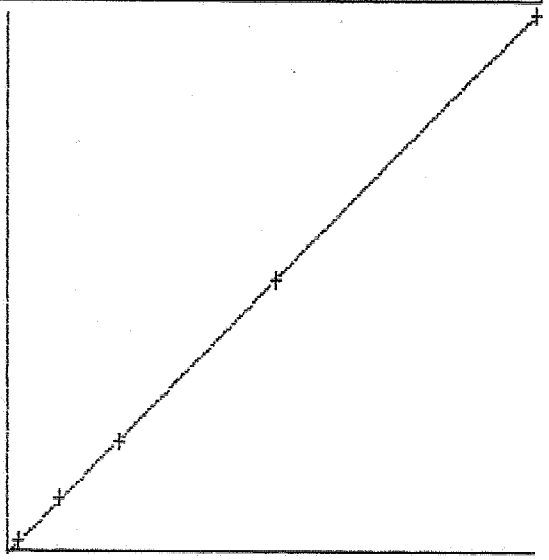
EMAXlfid	EMAXlsid	conc	Raw_resp	rsd/rf	adatetime	DF
M47A012000	STD1REP1	0	-322		01/16/0814:43	1
M47A012001	STD2REP1	.2	18673		01/16/0814:45	1
M47A012002	STD3REP1	1	80923		01/16/0814:47	1
M47A012003	STD4REP1	2	170078		01/16/0814:49	1
M47A012004	STD5REP1	5	410327		01/16/0814:51	1
M47A012005	STD6REP1	10	805762		01/16/0814:53	1
M47A012006	ICV	2.16	177441	0	01/16/0814:56	1
M47A012007	ICB	.135	14041	0	01/16/0814:58	1
M47A012008	CCV1	4.52	367398	0	01/16/0815:00	1
M47A012009	CCB1	-.114	-5966	0	01/16/0815:02	1
M47A012010	HGA021WB	-.041	-88	0	01/16/0815:04	1
M47A012011	HGA021WL	4.78	387961	0	01/16/0815:06	1
M47A012012	HGA021WC	4.88	396080	0	01/16/0815:08	1
M47A012013	A097-01A	1.98	162924	0	01/16/0815:10	1
M47A012014	A097-01	.016	4495	0	01/16/0815:12	1
M47A012015	A097-01J	.048	7087	0	01/16/0815:14	5
M47A012016	A051-03	-.048	-676	0	01/16/0815:16	1
M47A012017	A088-07	.002	3371	0	01/16/0815:19	1
M47A012018	A088-16	-.04	-33	0	01/16/0815:21	1
M47A012019	A088-17	-.013	2117	0	01/16/0815:22	1
M47A012020	CCV2	4.78	388453	0	01/16/0815:25	1
M47A012021	CCB2	-.039	8	0	01/16/0815:27	1
M47A012022	A092-01	-.037	240	0	01/16/0815:29	1
M47A012023	A092-08	.171	16996	0	01/16/0815:31	1
M47A012024	A098-01	.135	14027	0	01/16/0815:33	1
M47A012025	A098-02	.106	11756	0	01/16/0815:35	1
M47A012026	A076-07	-.002	3007	0	01/16/0815:37	1
M47A012027	HGA020WB	-.078	-3074	0	01/16/0815:39	1
M47A012028	HGA020WL	4.67	379708	0	01/16/0815:41	1
M47A012029	HGA020WC	4.79	388984	0	01/16/0815:43	1
M47A012030	A073-07A	2.01	165477	0	01/16/0815:45	1
M47A012031	A073-07	-.024	1282	0	01/16/0815:47	1
M47A012032	CCV3	4.8	389903	0	01/16/0815:49	1
M47A012033	CCB3	-.037	217	0	01/16/0815:51	1
M47A012034	A073-07J	-.043	-266	0	01/16/0815:53	5
M47A012035	A073-07M	4.81	390465	0	01/16/0815:55	1
M47A012036	A073-07S	4.74	385136	0	01/16/0815:57	1
M47A012037	A073-02	-.05	-861	0	01/16/0815:59	1
M47A012038	A073-03	.044	6761	0	01/16/0816:01	1
M47A012039	A073-04	.087	10185	0	01/16/0816:03	1
M47A012040	A073-05	.103	11480	0	01/16/0816:05	1
M47A012041	A073-06	.12	12827	0	01/16/0816:07	1
M47A012042	A073-02	.062	8178	0	01/16/0816:09	1
M47A012043	A073-03	-.152	-9074	0	01/16/0816:11	1
M47A012044	CCV4	4.72	383566	0	01/16/0816:13	1
M47A012045	CCB4	-.063	-1860	0	01/16/0816:15	1
M47A012046	A073-04	-.073	-2731	0	01/16/0816:17	1
M47A012047	A073-05	-.045	-464	0	01/16/0816:19	1
M47A012048	A073-06	-.037	183	0	01/16/0816:21	1
M47A012049	A073-07	-.009	2475	0	01/16/0816:23	1
M47A012050	A073-07M	4.79	389183	0	01/16/0816:25	1
M47A012051	A073-07S	4.67	379442	0	01/16/0816:27	1
M47A012052	CCV5	4.84	392889	0	01/16/0816:29	1
M47A012053	CCB5	.021	4912	0	01/16/0816:32	1
**********	**********	**********	**********	**********	**********	***
EMAXlfid	EMAXlsid	Xint	Yint	rrf	adatetime	DF
M47A012000	BLANK	-4.625984E-02	3718.904	.9999202	01/16/0816:32	1

RunProt: HGCOM
RunFold: M47A012 Seq: 6 Batch:
Prnt: R/T On Pump: On
Rev: 4.2 14:54:46 16 Jan 2006 Xmit: Off Gas: 0.35 LPM
State: Idle User: NT\TH A/S: On

CALIBRATION: Line proto: HGCOM

	Hg Conc.	Calc.	Dev.	Accepted ->linear	
S1	.000	-.043	-.043	Quadratic	
S2	.200	.192	-.008	Wtdlinear	
S3	1.00	.965	-.035		C
S4	2.00	2.07	.071	Accept	o
S5	5.00	5.05	.053		n
S6	10.0	9.96	-.039		c

A .0000000 r .999916
B 1.24117e-5 C -3.94793e-2



Relative Absorbance

	Mean			
S1	-322	0	SD	-322
S2	18673	0	%RSD	18673
S3	80923	0	%RSD	80923
S4	170078	0	%RSD	170078
S5	410327	0	%RSD	410327
S6	805762	0	%RSD	805762

New cal coefficients stored

```
RunProt: HGCOM
RunFold: M47A012  Seq: 0    Batch:
                  Prnt: R/T On                          Pump: On
                  Rev: 4.2    14:35:44 16 Jan 2008 Xmit: Off Gas:     0.35 LPM
State: Idle                                            User: NT\TH     A/S: On
```

```
 AUTOSAMPLER:  Rack Edit    rack: RACK1    Range  1-44 Clear seQ Undo eXit
cup ID        Extended id          Weight Volume Macro      checK macros
 1 ICV                             1.0000 1.0000
 2 ICB                             1.0000 1.0000
 3 CCV1                            1.0000 1.0000
 4 CCB1                            1.0000 1.0000
 5 HGA021WB                        1.0000 1.0000
 6 HGA021WL                        1.0000 1.0000
 7 HGA021WC                        1.0000 1.0000
 8 A097-01A                        1.0000 1.0000
 9 A097-01                         1.0000 1.0000
10 A097-01J                        1.0000 1.0000
11 A051-03                         1.0000 1.0000
12 A088-07                         1.0000 1.0000
13 A088-16                         1.0000 1.0000
14 A088-17                         1.0000 1.0000
15 CCV2                            1.0000 1.0000
                                                                    PgDn
                                                Full column mode Ins to switch
For help on <hotkey> press Shift <hotkey>
```

NT 1/16/08

```
RunProt: HGCOM
RunFold: M47A012  Seq: 0    Batch:
                  Prnt: R/T On                        Pump: On
                  Rev: 4.2    14:35:44 16 Jan 2008 Xmit: Off Gas:     0.35 LPM
State: Idle                                           User: NT\TH       A/S: On
```

```
 AUTOSAMPLER:  Rack Edit    rack: RACK1    Range  1-44 Clear seQ Undo eXit   PgUp
cup ID        Extended id          Weight Volume Macro      checK macros
16 CCB2                            1.0000 1.0000
17 A092-01                         1.0000 1.0000
18 A092-08                         1.0000 1.0000
19 A098-01                         1.0000 1.0000
20 A098-02                         1.0000 1.0000
21 A076-07                         1.0000 1.0000
22 HGA020WB                        1.0000 1.0000
23 HGA020WL                        1.0000 1.0000
24 HGA020WC                        1.0000 1.0000
25 A073-07A   TOT                  1.0000 1.0000
26 A073-07    TOT                  1.0000 1.0000
27 CCV3                            1.0000 1.0000
28 CCB3                            1.0000 1.0000
29 A073-07J   TOT                  1.0000 1.0000
30 A073-07M   TOT                  1.0000 1.0000
                                                                          PgDn
```

```
                                        Full column mode Ins to switch
```

NT 1/16/08

```
RunProt: HGCOM
RunFold: M47A012  Seq: 0    Batch:
                  Prnt: R/T On                          Pump: On
                  Rev: 4.2    14:35:45 16 Jan 2008 Xmit: Off Gas:     0.35 LPM
State: Idle                                            User: NT\TH       A/S: On
```

```
 AUTOSAMPLER:  Rack Edit   rack: RACK1    Range  1-44 Clear seQ Undo eXit   PgUp
cup ID         Extended id          Weight Volume Macro      checK macros
31 A073-07S    TOT                  1.0000 1.0000
32 A073-02     TOT                  1.0000 1.0000
33 A073-03     TOT                  1.0000 1.0000
34 A073-04     TOT                  1.0000 1.0000
35 A073-05     TOT                  1.0000 1.0000
36 A073-06     TOT                  1.0000 1.0000
37 A073-02     DISS                 1.0000 1.0000
38 A073-03     DISS                 1.0000 1.0000
39 CCV4                             1.0000 1.0000
40 CCB4                             1.0000 1.0000
41 A073-04     DISS                 1.0000 1.0000
42 A073-05     DISS                 1.0000 1.0000
43 A073-06     DISS                 1.0000 1.0000
44 A073-07     DISS                 1.0000 1.0000

                                                                        PgDn
```

```
                                        Full column mode Ins to switch
```

NT 1/16/08

```
RunProt: HGCOM
RunFold: M47A012  Seq: 0     Batch:
                  Prnt: R/T On                          Pump: On
                  Rev: 4.2     14:35:51 16 Jan 2008 Xmit: Off Gas:      0.35 LPM
State: Idle                                            User: NT\TH        A/S: On
```

```
 AUTOSAMPLER:  Rack Edit    rack: RACK2    Range  1-44 Clear seQ Undo eXit
cup ID         Extended id          Weight Volume Macro       checK macros
 1 A073-07M    DISS                 1.0000 1.0000
 2 A073-07S    DISS                 1.0000 1.0000
 3 CCV5                             1.0000 1.0000
 4 CCB5                             1.0000 1.0000
 5                                  1.0000 1.0000
 6                                  1.0000 1.0000
 7                                  1.0000 1.0000
 8                                  1.0000 1.0000
 9                                  1.0000 1.0000
10                                  1.0000 1.0000
11                                  1.0000 1.0000
12                                  1.0000 1.0000
13                                  1.0000 1.0000
14                                  1.0000 1.0000
15                                  1.0000 1.0000
                                                                          PgDn
```

```
                                                Full column mode Ins to switch
For help on (hotkey) press Shift (hotkey)
```

NT 1/16/08

DIGESTION LOG FOR MERCURY

SOP ☑ EMAX-7470 Rev. No.3 ☐ EMAX-7471 Rev. No.3 ☐ EMAX-CLP-245.5 ☐ EMAX-CLP-245.1 ☐ EMAX EPA 245.2 ☐

Matrix: Water Start Date: 1/15/08 Time: 15:00 Ending Date: 1/15/08 Time: 17:30 Book # E47-060

BATCH: HGA020W

Sample Prep ID	Lab Sample ID	Matrix Description Color	Matrix Description Texture / Clarity	Matrix Description Artifacts	Sample Amount (✓ ml)	Dry Weight	pH	Extract Volume (ml)	Matrix Description Color	Matrix Description Clarity
01	S-0	Cr	Cr	N/A	0	N/A	N/A	75	Cr	Cr
02	0.2				0.2					
03	1				1					
04	2				2					
05	5				5					
06	10				10					
07	ICV				2					
08	ICB				0					
09	CCV				5					
10	CCB				0					
11	HGA020WB				50					
12	WL									
13	WC									
14	A073-02			TOT			<2			
15	03						<2			
16	04						<2			
17	05						<2			
18	06						<2			
19	07						<2			
20	07M						<2			
21	07S						<2			
22	A073-02			DISS			<2			
23	03						<2			
24	04						<2			
25	05						<2			
26	06						<2			
27	07						<2			
28	07M						<2			
29	07S						<2			

NT 1/15/08

Standards	ID	Conc. (µg/L)	Amount Added (ml)
ICAL	SM3B-07-813	50	0.2,1,2,5,10
ICV	SM3B-07-814		2
CCV/MS			5
LCS			5
Reagent	Lot# / ID		
HNO_3	SW1A-03-670		
HCl	N/A		
H_2SO_4	SW1A-03-650		
$KMnO_4$	SM5B-02-74		
$K_2S_2O_8$		76	
$NH_2OH.HCl$		75	
$SnCl_2$		78	
Temp of Digestion Bath:	95 °C		

Legend

Color			
Bu = blue	Cs = Coarse	Cr = Clear	Rk = rocks
Bk = black	Md = Medium	Cy = Cloudy	Sl = Shale
Bn = Brown	Fn = Fine	Td = Turbid	Vg=Vegetation
Gn = Green			
Og = Orange			
Rd = Red			
Yw = Yellow			

Comments:

Prepared By: NT

Standard Added By: NT Witnessed By: MC

Checked By:

Disposed By: Date Disposed:

7077

LABORATORY REPORT FOR

TETRA TECH, INC.

LMC BEAUMONT SITE 2

METHOD 314.0
PERCHLORATE

SDG#: 08A073

CASE NARRATIVE

CLIENT: **TETRA TECH, INC.**

PROJECT: **LMC BEAUMONT SITE 2**

SDG: **08A073**

METHOD 314.0
PERCHLORATE

Six (6) water samples were received on 01/10/08 for Perchlorate analysis by Method 314.0 in accordance with "Method for Determination of Perchlorate by Ion Chromatography", EPA 600/98-118.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blanks were free of contamination at half of reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control sample results were within QC limits.

4. **Duplicate**

   Sample A073-07 was analyzed for duplicate. %RPD was within QC limit.

5. **Matrix Spike**

   Sample A073-07 was spiked. Recovery was within QC limit.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE

METHOD 314.0
PERCHLORATE

Client : TETRA TECH, INC.
Project : LMC BEAUMONT SITE 2
Batch No. : 08A073

Matrix : WATER
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCA007WB	ND	1	NA	2.00	0.500	01/15/0813:52	NA	JA15002	JA15001	PCA007W	NA	NA
LCS1W	PCA007WL	26.8	1	NA	2.00	0.500	01/15/0814:34	NA	JA15004	JA15001	PCA007W	NA	NA
LCD1W	PCA007WC	26.8	1	NA	2.00	0.500	01/15/0814:55	NA	JA15005	JA15001	PCA007W	NA	NA
TT-MW2-7D	A073-02	ND	1	NA	2.00	0.500	01/15/0815:19	NA	JA15006	JA15001	PCA007W	01/09/0809:48	01/10/08
TT-MW2-21	A073-04	ND	1	NA	2.00	0.500	01/15/0815:40	NA	JA15007	JA15001	PCA007W	01/09/0812:00	01/10/08
TT-MW2-22	A073-05	ND	1	NA	2.00	0.500	01/15/0816:01	NA	JA15008	JA15001	PCA007W	01/09/0812:55	01/10/08
DUP-010908	A073-06	ND	1	NA	2.00	0.500	01/15/0816:22	NA	JA15009	JA15001	PCA007W	01/09/0813:00	01/10/08
TT-MW2-23	A073-03	ND	1	NA	2.00	0.500	01/15/0816:43	NA	JA15010	JA15001	PCA007W	01/09/0811:00	01/10/08
MBLK2W	PCA011WB	ND	1	NA	2.00	0.500	01/23/0817:58	NA	JA23002	JA23001	PCA011W	NA	NA
LCS2W	PCA011WL	27.0	1	NA	2.00	0.500	01/23/0818:40	NA	JA23004	JA23001	PCA011W	NA	NA
LCD2W	PCA011WC	26.6	1	NA	2.00	0.500	01/23/0819:01	NA	JA23005	JA23001	PCA011W	NA	NA
TT-MW2-24	A073-07	109000	5000	NA	10000	2500	01/23/0819:22	NA	JA23006	JA23001	PCA011W	01/09/0813:55	01/10/08
TT-MW2-24DUP	A073-07D	109000	5000	NA	10000	2500	01/23/0819:43	NA	JA23007	JA23001	PCA011W	01/09/0813:55	01/10/08
TT-MW2--24MS	A073-07M	158000	5000	NA	10000	2500	01/23/0820:04	NA	JA23008	JA23001	PCA011W	01/09/0813:55	01/10/08

QC SUMMARY

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	PCA007WB	PCA007WL	PCA007WC		
LAB FILE ID:	JA15002	JA15004	JA15005		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	01/15/0813:52	01/15/0814:34	01/15/0814:55	DATE RECEIVED:	NA
PREP. BATCH:	PCA007W	PCA007W	PCA007W		
CALIB. REF:	JA15001	JA15001	JA15001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	26.8	107	25.0	26.8	107	0	85-115	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	PCA011WB	PCA011WL	PCA011WC		
LAB FILE ID:	JA23002	JA23004	JA23005		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	01/23/0817:58	01/23/0818:40	01/23/0819:01	DATE RECEIVED:	NA
PREP. BATCH:	PCA011W	PCA011W	PCA011W		
CALIB. REF:	JA23001	JA23001	JA23001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	25.0	27.0	108	25.0	26.6	106	1	85-115	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: METHOD 314.0

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	5000	5000		
SAMPLE ID:	TT-MW2-24			
LAB SAMP ID:	A073-07	A073-07M		
LAB FILE ID:	JA23006	JA23008		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	01/09/08 13:55
DATE ANALYZED:	01/23/0819:22	01/23/0820:04	DATE RECEIVED:	01/10/08
PREP. BATCH:	PCA011W	PCA011W		
CALIB. REF:	JA23001	JA23001		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	QC LIMIT (%)
Perchlorate	109000	50000	158000	98	80-120

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: TETRA TECH, INC.
PROJECT: LMC BEAUMONT SITE 2
BATCH NO.: 08A073
METHOD: METHOD 314.0

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	5000	5000		
SAMPLE ID:	TT-MW2-24			
EMAX SAMP ID:	A073-07	A073-07D		
LAB FILE ID:	JA23006	JA23007		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	01/09/08 13:55
DATE ANALYZED:	01/23/0819:22	01/23/0819:43	DATE RECEIVED:	01/10/08
PREP. BATCH:	PCA011W	PCA011W		
CALIB. REF:	JA23001	JA23001		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	DUPL RSLT (ug/L)	RPD RSLT %	QC LIMIT (%)
Perchlorate	109000	109000	0	20

INITIAL CALIBRATION

IC SEQ FORM (ESD)

LFID	LSID	SELCOMP	METHOD	DateTime	DF
JK30001	IB	P	IC57K30	11/30/0718:34	1
JK30002	S-0.0	P	IC57K30	11/30/0718:55	1
JK30003	S-2.0	P	IC57K30	11/30/0719:17	1
JK30004	S-4.0	P	IC57K30	11/30/0719:38	1
JK30005	S-10.0	P	IC57K30	11/30/0719:59	1
JK30006	S-25.0	P	IC57K30	11/30/0720:20	1
JK30007	S-30.0	P	IC57K30	11/30/0720:41	1
JK30008	ICV	P	IC57K30	11/30/0721:02	1
JK30009	ICB	P	IC57K30	11/30/0721:23	1
JK30010	TEST	P	IC57K30	11/30/0721:44	1
JK30011	PCK016WB	P	IC57K30	11/30/0722:05	1
JK30012	MRL	P	IC57K30	11/30/0722:26	1
JK30013	PCK016WL	P	IC57K30	11/30/0722:47	1
JK30014	PCK016WC	P	IC57K30	11/30/0723:08	1
JK30015	K249-02	P	IC57K30	11/30/0723:29	200
JK30016	K249-02D	P	IC57K30	11/30/0723:50	200
JK30017	K249-02M	P	IC57K30	12/01/0700:11	200
JK30018	K249-03	P	IC57K30	12/01/0700:32	200
JK30019	K249-04	*	IC57K30	12/01/0700:53	500
JK30020	RINSE	P	IC57K30	12/01/0701:14	1
JK30021	CCV1-30	P	IC57K30	12/01/0701:35	1
JK30022	K249-05	P	IC57K30	12/01/0701:56	500
JK30023	K249-06	P	IC57K30	12/01/0702:17	50
JK30024	K247-02	P	IC57K30	12/01/0702:38	1
JK30025	K247-03	P	IC57K30	12/01/0702:59	1
JK30026	K247-03D	P	IC57K30	12/01/0703:20	1
JK30027	K247-03M	P	IC57K30	12/01/0703:41	1
JK30028	K247-04	P	IC57K30	12/01/0704:02	1
JK30029	K247-05	P	IC57K30	12/01/0704:23	1
JK30030	K247-07	*	IC57K30	12/01/0704:44	200
JK30031	RINSE	P	IC57K30	12/01/0705:05	1
JK30032	CCV2-15	P	IC57K30	12/01/0705:26	1
JK30033	K247-08	P	IC57K30	12/01/0705:47	100
JK30034	K247-09	P	IC57K30	12/01/0706:08	100
JK30035	K247-10	P	IC57K30	12/01/0706:30	50
JK30036	K247-11	P	IC57K30	12/01/0706:51	50
JK30037	K285-01	P	IC57K30	12/01/0707:12	5
JK30038	K285-01D	P	IC57K30	12/01/0707:33	5
JK30039	K285-01M	P	IC57K30	12/01/0707:54	5
JK30040	K285-02	P	IC57K30	12/01/0708:15	1
JK30041	RINSE	P	IC57K30	12/01/0708:36	1
JK30042	CCV3-30	P	IC57K30	12/01/0708:57	1
JK30043	K285-02R	P	IC57K30	12/01/0709:18	1
JK30044	RINSE	P	IC57K30	12/01/0709:39	1
JK30045	K285-03	P	IC57K30	12/01/0710:00	1
JK30046	RINSE	P	IC57K30	12/01/0710:21	1
JK30047	K285-03R	P	IC57K30	12/01/0710:42	1
JK30048	RINSE	P	IC57K30	12/01/0711:03	1
JK30049	CCV4-15	P	IC57K30	12/01/0711:24	1
JK30050	IPCS	P	IC57K30	12/01/0711:45	1
JK30051	PCK017SB	P	IC57K30	12/01/0712:06	1
JK30052	MRL	P	IC57K30	12/01/0712:27	1
JK30053	PCK017SL	P	IC57K30	12/01/0712:48	1
JK30054	PCK017SC	P	IC57K30	12/01/0713:09	1
JK30055	K248-02	P	IC57K30	12/01/0713:30	1
JK30056	K248-03	P	IC57K30	12/01/0713:51	1
JK30057	K248-04	P	IC57K30	12/01/0714:12	1
JK30058	RINSE	P	IC57K30	12/01/0714:33	1
JK30059	CCV5-30	P	IC57K30	12/01/0714:54	1

Method : c:\ezchrom\methods\ic57k30.met
Printed : Dec 05, 2007 18:51:54
Channel : A
Peak : PERCHLORATE

* - Replicate Not Used

Level	Height	Amount	RF	Rep Hgt 1	Rep Hgt 2	Rep Hgt 3	Rep Hgt 4	Rep Hgt 5	Replic STD	Replic %RSD	Old Height
2	27078	2	13539.00	27078							0
3	52445	4	13111.25	52445							0
4	127380	10	12738.00	127380							0
5	324160	25	12966.40	324160							0
6	389054	30	12968.47	389054							0

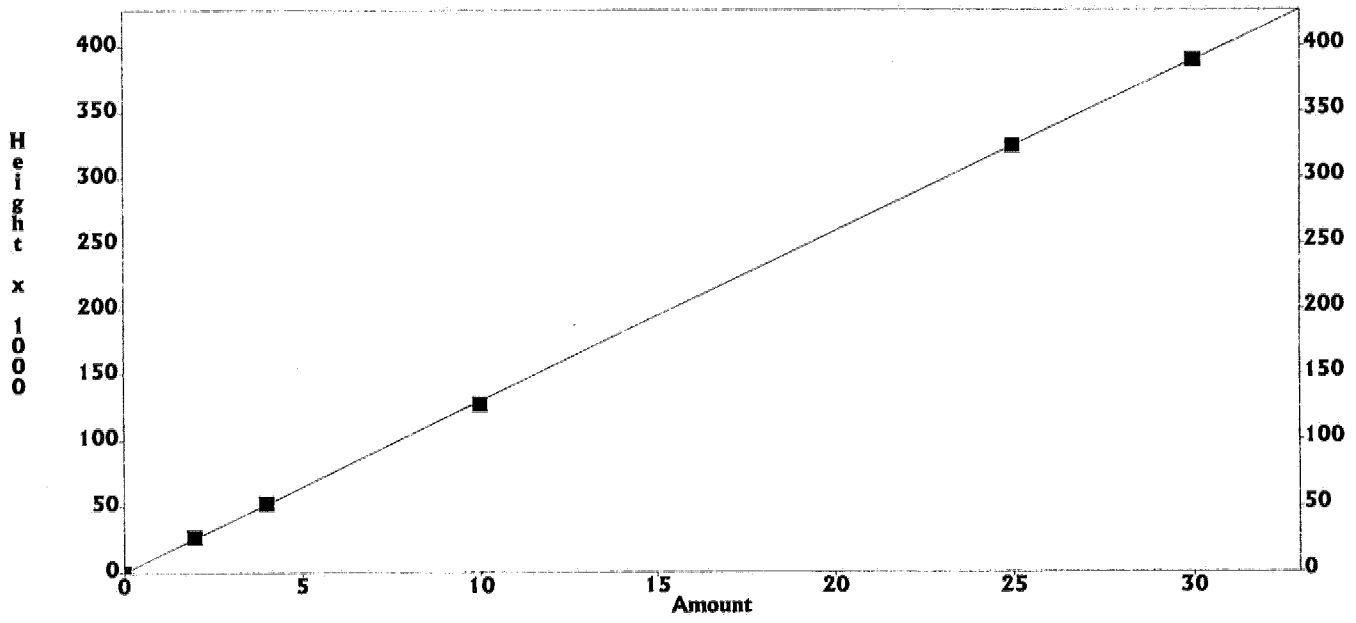
Calib Flag: Replace

Average RF: 13064.6
RF StdDev: 296.978
RF %RSD: 2.273

RF Definition: Height / Amount
Weighting Method: None
Fit Through Zero: No

Linear Fit: Amount = 7.72046e-005 x Height - 0.00745758
R^2 = 0.999937

External Standard Curve - Scaling: None



RW 12-6-07

8011

SECOND SOURCE

IC RESULT FORM CalVersion: PCHLO314.K30

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JK30001	IB	P	.000	11/30/0718:34	1
JK30002	S-0.0	P	.0000	11/30/0718:55	1
JK30003	S-2.0	P	2	11/30/0719:17	1
JK30004	S-4.0	P	4	11/30/0719:38	1
JK30005	S-10.0	P	10	11/30/0719:59	1
JK30006	S-25.0	P	25	11/30/0720:20	1
JK30007	S-30.0	P	30	11/30/0720:41	1
JK30008	ICV	P	104%	11/30/0721:02	1
JK30009	ICB	P	.000	11/30/0721:23	1
JK30010	TEST	P	19.8	11/30/0721:44	1
JK30011	PCK016WB	P	.000	11/30/0722:05	1
JK30012	MRL	P	118%	11/30/0722:26	1
JK30013	PCK016WL	P	26.7	11/30/0722:47	1
JK30014	PCK016WC	P	26.3	11/30/0723:08	1
JK30015	K249-02	P	3090	11/30/0723:29	200
JK30016	K249-02D	P	3060	11/30/0723:50	200
JK30017	K249-02M	P	5110	12/01/0700:11	200
JK30018	K249-03	P	3020	12/01/0700:32	200
JK30019	K249-04	*	15700E	12/01/0700:53	500
JK30020	RINSE	P	.000	12/01/0701:14	1
JK30021	CCV1-30	P	102%	12/01/0701:35	1
JK30022	K249-05	P	8950	12/01/0701:56	500
JK30023	K249-06	P	469	12/01/0702:17	50
JK30024	K247-02	P	.000	12/01/0702:38	1
JK30025	K247-03	P	2.52	12/01/0702:59	1
JK30026	K247-03D	P	2.21	12/01/0703:20	1
JK30027	K247-03M	P	12.8	12/01/0703:41	1
JK30028	K247-04	P	.000	12/01/0704:02	1
JK30029	K247-05	P	.000	12/01/0704:23	1
JK30030	K247-07	*	6920E	12/01/0704:44	200
JK30031	RINSE	P	.000	12/01/0705:05	1
JK30032	CCV2-15	P	101%	12/01/0705:26	1
JK30033	K247-08	P	1310	12/01/0705:47	100
JK30034	K247-09	P	1330	12/01/0706:08	100
JK30035	K247-10	P	242	12/01/0706:30	50
JK30036	K247-11	P	.000	12/01/0706:51	50
JK30037	K285-01	P	64.4	12/01/0707:12	5
JK30038	K285-01D	P	62.8	12/01/0707:33	5
JK30039	K285-01M	P	116	12/01/0707:54	5
JK30040	K285-02	P	2.67	12/01/0708:15	1
JK30041	RINSE	P	.000	12/01/0708:36	1
JK30042	CCV3-30	P	105%	12/01/0708:57	1
JK30043	K285-02R	P	2.69	12/01/0709:18	1
JK30044	RINSE	P	.000	12/01/0709:39	1
JK30045	K285-03	P	3.2	12/01/0710:00	1
JK30046	RINSE	P	.000	12/01/0710:21	1
JK30047	K285-03R	P	2.88	12/01/0710:42	1
JK30048	RINSE	P	.000	12/01/0711:03	1
JK30049	CCV4-15	P	106%	12/01/0711:24	1
JK30050	IPCS	P	80.6%	12/01/0711:45	1
JK30051	PCK017SB	P	.000	12/01/0712:06	1
JK30052	MRL	P	126%*	12/01/0712:27	1
JK30053	PCK017SL	P	28	12/01/0712:48	1
JK30054	PCK017SC	P	27.4	12/01/0713:09	1
JK30055	K248-02	P	19.1	12/01/0713:30	1
JK30056	K248-03	P	2.46	12/01/0713:51	1
JK30057	K248-04	P	24	12/01/0714:12	1
JK30058	RINSE	P	.000	12/01/0714:33	1
JK30059	CCV5-30	P	105%	12/01/0714:54	1

12-6-07

DAILY CALIBRATION

IC RESULT FORM CalVersion: PCHLO314.K30

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JA15001	IPCS	P	89.8%	01/15/0813:31	1
JA15002	PCA007WB	P	.000	01/15/0813:52	1
JA15003	MRL	P	109%	01/15/0814:13	1
JA15004	PCA007WL	P	26.8	01/15/0814:34	1
JA15005	PCA007WC	P	26.8	01/15/0814:55	1
JA15006	A073-02	P	.000	01/15/0815:19	1
JA15007	A073-04	P	.000	01/15/0815:40	1
JA15008	A073-05	P	.000	01/15/0816:01	1
JA15009	A073-06	P	.000	01/15/0816:22	1
JA15010	A073-03	P	.000	01/15/0816:43	1
JA15011	RINSE	P	.000	01/15/0817:12	1
JA15012	CCV62-15	P	98.7%	01/15/0820:30	1
JA15013	A073-07	*	.000	01/15/0820:51	1
JA15014	A073-07D	*	.000	01/15/0821:12	1
JA15015	A073-07M	*	.000	01/15/0821:33	1
JA15016	RINSE	P	.000	01/15/0821:54	1
JA15017	A041-05	P	.000	01/15/0822:15	2
JA15018	A041-05D	P	.000	01/15/0822:36	2
JA15019	A041-05M	P	19	01/15/0822:57	2
JA15020	A060-01	*	1400E	01/15/0823:18	40
JA15021	A060-02	*	39.6	01/15/0823:39	2
JA15022	RINSE	P	.000	01/16/0800:00	1
JA15023	CCV63-30	P	99.7%	01/16/0800:21	1
JA15024	A060-02T	*	19.6	01/16/0800:42	2
JA15025	RINSE	P	.000	01/16/0801:03	1
JA15026	A060-03	P	15.7	01/16/0801:24	2
JA15027	RINSE	P	.000	01/16/0801:45	1
JA15028	A060-03T	P	15.8	01/16/0802:06	2
JA15029	RINSE	P	.000	01/16/0802:27	1
JA15030	A078-01	P	1090	01/16/0802:48	40
JA15031	A078-02	P	22.1	01/16/0803:09	2
JA15032	RINSE	P	.000	01/16/0803:30	1
JA15033	CCV64-15	P	100%	01/16/0803:51	1
JA15034	A078-02T	P	22.6	01/16/0804:12	2
JA15035	RINSE	P	.000	01/16/0804:33	1
JA15036	CCV65-30	P	99.3%	01/16/0804:54	1

IC RESULT FORM CalVersion: PCHLO314.K30

LFID	LSID	SELCOMP	PERCHLORATE	DateTime	Df
JA23001	IPCS	P	93%	01/23/0817:37	1
JA23002	PCA011WB	P	.000	01/23/0817:58	1
JA23003	MRL	P	105%	01/23/0818:19	1
JA23004	PCA011WL	P	27	01/23/0818:40	1
JA23005	PCA011WC	P	26.6	01/23/0819:01	1
JA23006	A073-07	P	109000	01/23/0819:22	5000
JA23007	A073-07D	P	109000	01/23/0819:43	5000
JA23008	A073-07M	P	158000E	01/23/0820:04	5000
JA23009	A144-02	P	.000	01/23/0820:25	1
JA23010	RINSE	P	.000	01/23/0820:46	1
JA23011	CCV71-30	P	103%	01/23/0821:07	1
JA23012	A144-02R	P	.000	01/23/0821:28	1
JA23013	RINSE	P	.000	01/23/0821:49	1
JA23014	A144-03	P	.000	01/23/0822:10	1
JA23015	RINSE	P	.000	01/23/0822:31	1
JA23016	A144-03R	P	.000	01/23/0822:52	1
JA23017	RINSE	P	.000	01/23/0823:13	1
JA23018	CCV72-15	P	102%	01/23/0823:34	1

ANALYTICAL LOG

ANALYSIS RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW9A-03-013

JA15.021 & JA15.024: Bad injection; not used. Re-run samples.

Book #:	**A57-016**
Instrument No.:	**57**
Analytical Sequence:	JA15
Method File:	IC57K30
Analytical Batch:	PCA 007W

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0M	0
☑ EMAX-314.0	1
☐ EMAX-9056	2
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-1024
ICV	1025
CCV-15	1057
CCV-30	1061
LCS	1056
MS	999
IPC	1054
CMC	SW21-01-127
MRL	SW8B-02-1055

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
146.2	(±) 30	26°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: al

Date: 01/15/08

Method: Ic57k30.met Batch: Ja15.seq Data: Ja15.001 - [Batch: ja15.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | STOP | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 8240 µS/cm	ic57k30.met	JA15.001	1	
2	PCA007WB	*BATH ic57k30.met	JA15.002	1	
3	MRL	ic57k30.met	JA15.003	1	
4	PCA007WL	ic57k30.met	JA15.004	1	
5	PCA007WC	ic57k30.met	JA15.005	1	
6	A073-02 294 µS/cm	ic57k30.met	JA15.006	1	
7	A073-04 610	ic57k30.met	JA15.007	1	
8	A073-05 943	ic57k30.met	JA15.008	1	
9	A073-06 945	ic57k30.met	JA15.009	1	
10	A073-03 455	ic57k30.met	JA15.010	1	
11	RINSE	ic57k30.met	JA15.011	1	
12	CCV62-15	ic57k30.met	JA15.012	1	
13	A073-07 1598 µS/cm	*BATH ic57k30.met	JA15.013	1	
14	A073-07D	ic57k30.met	JA15.014	1	
15	A073-07M	ic57k30.met	JA15.015	1	
16	RINSE	ic57k30.met	JA15.016	1	
17	A041-05 DF=2	*BATH ic57k30.met	JA15.017	2	
18	A041-05D DF=2	ic57k30.met	JA15.018	2	
19	A041-05M DF=2	ic57k30.met	JA15.019	2	
20	A060-01 DF=40 369 µS/cm	*BATH ic57k30.met	JA15.020	40	
21	A060-02 DF=2 ☒ 296	ic57k30.met	JA15.021	2	
22	RINSE	ic57k30.met	JA15.022	1	
23	CCV63-30	ic57k30.met	JA15.023	1	
24	A060-02T DF=2 ☒	*BATH ic57k30.met	JA15.024	2	RE-ANALYSIS (FOR CONFIRMATION)
25	RINSE	ic57k30.met	JA15.025	1	

Instrument 1 [T057] – Running IPCS [Run 1]...

Tuesday, January 15, 2008

Start | EZChrom Chromatography ... | Method: Ic57k30.met... | Method: Ic57k30.met Ba... | untitled - Paint | 1:32 PM

NOTE: ☒: Bad Injection; not used.

8019

Method: Ic57k30.met Batch: Ja15.seq Data: Ja15.001 - [Batch: ja15.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Run	Sample ID	Method	Filename	Mult.	Description
25	RINSE	ic57k30.met	JA15.025	1	
26	A060-03 DF=2 29µ/5ml *BAH DF!	ic57k30.met	JA15.026	2	
27	RINSE	ic57k30.met	JA15.027	1	
28	A060-03T DF=2 *BAH	ic57k30.met	JA15.028	2	RE-ANALYSIS (FOR CONFIRMATION)
29	RINSE	ic57k30.met	JA15.029	1	
30	A078-01 DF=40 320µ/5ml *BAH DF!	ic57k30.met	JA15.030	40	
31	A078-02 DF=2 3N	ic57k30.met	JA15.031	2	
32	RINSE	ic57k30.met	JA15.032	1	
33	CCV64-15	ic57k30.met	JA15.033	1	
34	A078-02T DF=2 *BAH	ic57k30.met	JA15.034	2	RE-ANALYSIS (FOR CONFIRMATION)
35	RINSE	ic57k30.met	JA15.035	1	
36	CCV65-30	ic57k30.met	JA15.036	1	
37	B	ic57k30.met	JA15.037	1	
38	B	ic57k30.met	JA15.038	1	
39	B	ic57k30.met	JA15.039	1	
40	B	ic57k30.met	JA15.040	1	
41	B	ic57k30.met	JA15.041	1	
42	B	ic57k30.met	JA15.042	1	
43	B	ic57k30.met	JA15.043	1	
44	B	ic57k30.met	JA15.044	1	
45	B	ic57k30.met	JA15.045	1	
46	B	ic57k30.met	JA15.046	1	
47	B	ic57k30.met	JA15.047	1	
48	B	ic57k30.met	JA15.048	1	

Instrument 1 [T057] – Running IPCS [Run 1]...

Tuesday, January 15, 2008

Start | EZChrom Chromatography ... | Method: Ic57k30.met | Method: Ic57k30.met Ba... | untitled - Paint | 1:33 PM

ANALYSIS RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW4A - 03-013

Ja23.009, 012, 014 & 016: For confirmation only; not used.

Book #:	**A57-016**
Instrument No.:	**57**
Analytical Sequence:	Ja23
Method File:	IC57K30
Analytical Batch:	ICA0811W 01/23/08

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0M	0
☑ EMAX-314.0	1
☐ EMAX-9056	2
☐ EMAX-	

STANDARDS ID		
ICAL	SW8B - 02 - 1024	
ICV		1025
CCV-15		1057
CCV-30		1061
LCS		1056
MS		999
IPC		1054
CMC	SWP1 - 01 - 127	
MRL	SW8B - 02 - 1055	

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
145.9	(±) 30	20°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: al

Date: 01/23/08

Method: Ic57k30.met Batch: Ja23.seq Data: Ja22.003 - [Batch: ja23.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IPCS 8240 Custom	ic57k30.met	JA23.001	1	
2	PCA011WB	*BAH ic57k30.met	JA23.002	1	
3	MRL	ic57k30.met	JA23.003	1	
4	PCA011WL	ic57k30.met	JA23.004	1	
5	PCA011WC	ic57k30.met	JA23.005	1	
6	A073-07 DF=5000	ic57k30.met	JA23.006	5000	
7	A073-07D DF=5000	ic57k30.met	JA23.007	5000	
8	A073-07M DF=5000	ic57k30.met	JA23.008	5000	
9	A144-02 *	ic57k30.met	JA23.009	1	
10	RINSE	ic57k30.met	JA23.010	1	
11	CCV71-30	ic57k30.met	JA23.011	1	
12	A144-02R *	*BAH ic57k30.met	JA23.012	1	RE-ANALYSIS (FOR CONFIRMATION)
13	RINSE	ic57k30.met	JA23.013	1	
14	A144-03 *	*BAH ic57k30.met	JA23.014	1	
15	RINSE	ic57k30.met	JA23.015	1	
16	A144-03R *	*BAH ic57k30.met	JA23.016	1	RE-ANALYSIS (FOR CONFIRMATION)
17	RINSE	ic57k30.met	JA23.017	1	
18	CCV72-15	ic57k30.met	JA23.018	1	
19	B	ic57k30.met	JA23.019	1	
20	B	ic57k30.met	JA23.020	1	
21	B	ic57k30.met	JA23.021	1	
22	B	ic57k30.met	JA23.022	1	
23	B	ic57k30.met	JA23.023	1	
24	B	ic57k30.met	JA23.024	1	
25	B	ic57k30.met	JA23.025	1	

Instrument 1: T057

Wednesday, January 23, 2008

Start | EZChrom Chromatography ... | Method: Ic57k30.met | Method: Ic57k30.met Ba... | untitled - Paint | 10:47 AM

NOTES: * : For confirmation only; not used

80022

EMAX LABORATORIES, INC.

ANALYTICAL RUN LOG
for
ION CHROMATOGRAPHY

Note: For samples, relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

NaOH: SW8A-02-16

-JK30.036: Bad injection. Re-run sample.

Book #: A57-015

Instrument No.: 57

Analytical Sequence: JK30

Method File: IC57K30

Analytical Batch: PCK016W & PCK017S

SOP #	Rev. #
☐ EMAX-300.0	3
☐ EMAX-300.0(M)	0
☑ EMAX-314.0	1
☐ EMAX-9056	3
☐ EMAX-	

STANDARDS ID	
ICAL	SW8B-02-1024
ICV	↓ 1025
CCV	N/A
CCV-15	SW8B-02-1028
CCV-30	↓ 1029
LCS	1025
MS	999
IPC	↓ 1026
CMC	SWPI-01-127
MRL	SW8B-02-1027

CMC Reading (µS/cm)	QC Criteria (µS/cm)	Temp. (°C)
146.5	(±) 30	21°C

ELECTRONIC DATA ARCHIVAL	
Location	Date
☑ EZ-CHROM	
☐	

Analyzed By: al

Date: 11/30/07

Method: Ic57k30.met Batch: Jk30.seq Data: Jk29.046 - [Batch: jk30.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
1	IB	ic57k30.met	JK30.001	1	
2	S-0.0	ic57k30.met	JK30.002	1	
3	S-2.0	ic57k30.met	JK30.003	1	
4	S-4.0	ic57k30.met	JK30.004	1	
5	S-10.0	ic57k30.met	JK30.005	1	
6	S-25.0	ic57k30.met	JK30.006	1	
7	S-30.0	ic57k30.met	JK30.007	1	
8	ICV	ic57k30.met	JK30.008	1	
9	ICB	ic57k30.met	JK30.009	1	
10	~~IPCS~~ TEST al 11/30/07	ic57k30.met	JK30.010	1	
11	PCK016WB	ic57k30.met	JK30.011	1	
12	MRL	ic57k30.met	JK30.012	1	
13	PCK016WL	ic57k30.met	JK30.013	1	
14	PCK016WC	ic57k30.met	JK30.014	1	
15	K249-02 DF=200 1072 µS/cm at DF1	ic57k30.met	JK30.015	200 1	al 11/30/07
16	K249-02D DF=200	ic57k30.met	JK30.016	1	
17	K249-02M DF=200	ic57k30.met	JK30.017	1	
18	K249-03 DF=200 1078 µS/cm at DF1	ic57k30.met	JK30.018	1	
19	K249-04 DF=500 708 ↓	ic57k30.met	JK30.019	500 1	
20	RINSE	ic57k30.met	JK30.020	1	
21	CCV1-30	ic57k30.met	JK30.021	1	
22	K249-05 DF=500 865 µS/cm at DF1	ic57k30.met	JK30.022	500 1	al 11/30/07
23	K249-06 DF=50 1132 ↓	ic57k30.met	JK30.023	50 1	
24	K247-02 284 µS/cm	ic57k30.met	JK30.024	1	
25	K247-03	ic57k30.met	JK30.025	1	

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57k30.met | Method: Ic57i07.met - Bat...

Friday, November 30, 2007 4:33 PM

Method: Ic57k30.met Batch: Jk30.seq Data: Jk29.046 - [Batch: jk30.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
25	K247-03 196 µS/cm	ic57k30.met	JK30.025	1	
26	K247-03D	ic57k30.met	JK30.026	1	
27	K247-03M	ic57k30.met	JK30.027	1	
28	K247-04 211 µS/cm	ic57k30.met	JK30.028	1	
29	K247-05 176 ↓	ic57k30.met	JK30.029	1	
30	K247-07 DF=200 244 µS/cm at DF1	ic57k30.met	JK30.030	1	
31	RINSE	ic57k30.met	JK30.031	1	
32	CCV2-15	ic57k30.met	JK30.032	1	
33	K247-08 DF=100 307 µS/cm at DF1	ic57k30.met	JK30.033	100 1	
34	K247-09 DF=100 305	ic57k30.met	JK30.034	↓ 1	
35	K247-10 DF=50 441 ↓	ic57k30.met	JK30.035	50 1	
36	K247-11 DF=50 Bad inj. Re-run at DF1	ic57k30.met	JK30.036	↓ 1	
37	K285-01 DF=5 308 µS/cm	ic57k30.met	JK30.037	5 1	
38	K285-01D DF=5	ic57k30.met	JK30.038	1	
39	K285-01M DF=5	ic57k30.met	JK30.039	↓ 1	
40	K285-02 372 µS/cm	ic57k30.met	JK30.040	1	
41	RINSE	ic57k30.met	JK30.041	1	
42	CCV3-30	ic57k30.met	JK30.042	1	
43	K285-02R	ic57k30.met	JK30.043	1	Re-analysis (For confirmation)
44	RINSE	ic57k30.met	JK30.044	1	
45	K285-03 380 µS/cm	ic57k30.met	JK30.045	1	
46	RINSE	ic57k30.met	JK30.046	1	
47	K285-03R	ic57k30.met	JK30.047	1	Re-analysis (for confirmation)
48	RINSE	ic57k30.met	JK30.048	1	
49	CCV4-15	ic57k30.met	JK30.049	1	

Instrument 1: T057

Start | EZChrom Chromatography ... | Method: Ic57k30.met... | Method: Ic57i07.met Bat... | untitled - Paint | Friday, November 30, 2007 4:33 PM

8025

Method: Ic57k30.met Batch: Jk30.seq Data: Jk29.046 - [Batch: jk30.SEQ]

File Edit Method Batch Options Analysis Control Window Help

Method | Data | Batch | Setup | Batch | Preview | Single | Batch | Recalib | Analyze | Reports

Run	Sample ID	Method	Filename	Mult.	Description
49	CCV4-15	ic57k30.met	JK30.049	1	
50	IPCS 4910 µS/cm	ic57k30.met	JK30.050	1	
51	PCK017SB	ic57k30.met	JK30.051	1	
52	MRL	ic57k30.met	JK30.052	1	
53	PCK017SL	ic57k30.met	JK30.053	1	
54	PCK017SC	ic57k30.met	JK30.054	1	
55	K285-02	ic57k30.met	JK30.055	1	
56	K285-03	ic57k30.met	JK30.056	1	
57	K285-04	ic57k30.met	JK30.057	1	
58	RINSE	ic57k30.met	JK30.058	1	
59	CCV5-30	ic57k30.met	JK30.059	1	
60	B	ic57k30.met	JK30.060	1	
61	B	ic57k30.met	JK30.061	1	
62	B	ic57k30.met	JK30.062	1	
63	B	ic57k30.met	JK30.063	1	
64	B	ic57k30.met	JK30.064	1	
65	B	ic57k30.met	JK30.065	1	
66	B	ic57k30.met	JK30.066	1	
67	B	ic57k30.met	JK30.067	1	
68	B	ic57k30.met	JK30.068	1	
69	B	ic57k30.met	JK30.069	1	
70	B	ic57k30.met	JK30.070	1	
71	B	ic57k30.met	JK30.071	1	
72	B	ic57k30.met	JK30.072	1	

Instrument 1: T057

Friday, November 30, 2007

Start | EZChrom Chromatography ... | Method: Ic57k30.met | Method: Ic57l07.met Bat... | untitled - Paint | 4:34 PM

8026

Centrum Analytical Laboratories, Inc.
Certified Hazardous Waste Testing Mobile & In House Laboratories

Client:	Tetra Tech, Inc. 348 W. Hospitality Lane, Ste. 100 San Bernardino, CA 92408-3216	Date Sampled: Date Received: Job Number:	11/06/07 11/06/07 30418

Project: LMC Beaumont Site 2

CASE NARRATIVE

The following information applies to samples which were received on 11/06/07:

The samples were received at the laboratory chilled and sample containers were intact.

The Perchlorate analysis was subcontracted to ELAP Lab #1230. The original report is attached to, but is not part of, this report.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested. The date of issue for this report is 11/12/07.

Report approved by:

Robert R. Clark, PhD
President

ELAP Lab# 2419, 2479, 2527, 2373, 2562

RL: Reporting Limit -- The lowest level at which the compound can be reliably detected under normal laboratory conditions.
ND: Not Detected -- The compound was analyzed for, but was not found to be present at or above the Reporting Limit.
NA: Not Analyzed -- This compound was not on the list of compounds requested for analysis.

951•779•0310 or 800•798•9336 fax 951•779•0344
www.centrum-labs.com 1401 Research Park Drive, Suite 100, Riverside, CA 92507

Centrum Analytical Laboratories, Inc.

Metals by EPA 6010B and EPA 7471A

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No:	30418	Date Digested:	11/08/07
Matrix:	Soil	Date Analyzed:	11/08/07
Analyst:	TLB	Batch Number:	6010S4122
			7471S1657

		Sample ID:	Blank	IDW1-Soil	IDW2-Soil	IDW4-Soil
Metals	**Method**	**RL**	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Antimony	6010B	5.0	ND	ND	ND	ND
Arsenic	6010B	1.0	ND	**1.73**	**4.21**	**1.44**
Barium	6010B	0.50	ND	**92.3**	**117**	**86.0**
Beryllium	6010B	0.50	ND	**0.56**	**0.64**	ND
Cadmium	6010B	0.50	ND	ND	ND	ND
Chromium	6010B	0.50	ND	**27.5**	**28.6**	**19.2**
Cobalt	6010B	0.50	ND	**7.99**	**9.48**	**8.72**
Copper	6010B	1.0	ND	**20.0**	**21.0**	**17.9**
Lead	6010B	1.0	ND	**7.03**	**5.30**	**10.8**
Molybdenum	6010B	5.0	ND	ND	ND	ND
Nickel	6010B	1.0	ND	**13.1**	**15.3**	**14.3**
Selenium	6010B	5.0	ND	ND	ND	ND
Silver	6010B	2.0	ND	ND	ND	ND
Thallium	6010B	10	ND	ND	ND	ND
Vanadium	6010B	5.0	ND	**36.9**	**51.0**	**33.1**
Zinc	6010B	10	ND	**61.6**	**51.0**	**72.0**
Mercury	7471A	0.02	ND	ND	**0.03**	ND

Centrum Analytical Laboratories, Inc.

QC Sample Report - Metals by EPA 6010B and EPA 7471A

Sample Matrix: Soil

Metals by EPA 6010B

Analytical Batch #: 6010S4122

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: IDW2-Soil

Analytical Notes:

	Batch Accuracy Results:				Batch Precision Results:				
Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limits	Pass/Fail
Antimony	50.0	**104**	75 - 125	**Pass**	42.92	46.78	**9%**	20%	**Pass**
Arsenic	50.0	**90**	75 - 125	**Pass**	46.87	48.29	**3%**	20%	**Pass**
Barium	50.0	**90**	75 - 125	**Pass**	160.39	169.86	**6%**	20%	**Pass**
Beryllium	50.0	**97**	75 - 125	**Pass**	43.82	45.62	**4%**	20%	**Pass**
Cadmium	50.0	**99**	75 - 125	**Pass**	38.91	40.94	**5%**	20%	**Pass**
Chromium	50.0	**99**	75 - 125	**Pass**	70.71	74.49	**5%**	20%	**Pass**
Cobalt	50.0	**96**	75 - 125	**Pass**	45.02	48.72	**8%**	20%	**Pass**
Copper	50.0	**105**	75 - 125	**Pass**	63.29	66.80	**5%**	20%	**Pass**
Lead	50.0	**98**	75 - 125	**Pass**	40.70	44.38	**9%**	20%	**Pass**
Molybdenum	50.0	**99**	75 - 125	**Pass**	39.58	42.69	**8%**	20%	**Pass**
Nickel	50.0	**101**	75 - 125	**Pass**	52.77	57.06	**8%**	20%	**Pass**
Selenium	50.0	**98**	75 - 125	**Pass**	40.91	42.00	**3%**	20%	**Pass**
Silver	50.0	**108**	75 - 125	**Pass**	43.83	46.11	**5%**	20%	**Pass**
Thallium	50.0	**104**	75 - 125	**Pass**	42.22	44.98	**6%**	20%	**Pass**
Vanadium	50.0	**98**	75 - 125	**Pass**	93.15	98.26	**5%**	20%	**Pass**
Zinc	50.0	**112**	75 - 125	**Pass**	90.56	95.39	**5%**	20%	**Pass**

Mercury by EPA 7471A

Batch Number: 7471S1657

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: IDW2-Soil

Analytical Notes:

	Batch Accuracy Results				Batch Precision Results				
Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limit	Pass/Fail	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Mercury	0.42	**91**	75 - 125	**Pass**	0.389	0.379	**3%**	20%	**Pass**

MS: Matrix Spike LCS: Laboratory Control Sample

MSD: Matrix Spike Duplicate LCSD: Laboratory Control Sample Duplicate

Centrum Analytical Laboratories, Inc.

Metals by EPA 6010B and EPA 7470A

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No:	30418	Date Digested:	11/07/07
Matrix:	Water	Date Analyzed:	11/07-08/07
Analyst:	TLB	Batch Number:	6010W4120
			7470W1656

		Sample ID:	Blank	IDW3-Water
Metals	**Method #**	**RL**	mg/L	mg/L
Antimony	6010B	0.10	ND	ND
Arsenic	6010B	0.020	ND	ND
Barium	6010B	0.010	ND	**0.127**
Beryllium	6010B	0.010	ND	ND
Cadmium	6010B	0.010	ND	ND
Chromium	6010B	0.010	ND	**0.086**
Cobalt	6010B	0.010	ND	ND
Copper	6010B	0.020	ND	**0.038**
Lead	6010B	0.020	ND	ND
Molybdenum	6010B	0.10	ND	ND
Nickel	6010B	0.020	ND	**0.076**
Selenium	6010B	0.10	ND	ND
Silver	6010B	0.040	ND	ND
Thallium	6010B	0.20	ND	ND
Vanadium	6010B	0.10	ND	ND
Zinc	6010B	0.20	ND	**0.624**
Mercury	7470A	0.0004	ND	ND

Centrum Analytical Laboratories, Inc.

QC Sample Report - Metals by EPA 6010B and EPA 7470A

Sample Matrix: Water

Metals by EPA 6010B

Analytical Batch #: 6010W4120

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: IDW3-Water

Analytical Notes:

	Batch Accuracy Results:				Batch Precision Results:				
Compound	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limits	Pass/Fail
Antimony	1.0	**97**	75 - 125	**Pass**	1.059	1.036	**2%**	20%	**Pass**
Arsenic	1.0	**89**	75 - 125	**Pass**	1.041	1.024	**2%**	20%	**Pass**
Barium	1.0	**91**	75 - 125	**Pass**	1.058	1.043	**1%**	20%	**Pass**
Beryllium	1.0	**93**	75 - 125	**Pass**	1.050	1.019	**3%**	20%	**Pass**
Cadmium	1.0	**92**	75 - 125	**Pass**	0.971	0.949	**2%**	20%	**Pass**
Chromium	1.0	**94**	75 - 125	**Pass**	1.086	1.065	**2%**	20%	**Pass**
Cobalt	1.0	**90**	75 - 125	**Pass**	0.910	0.892	**2%**	20%	**Pass**
Copper	1.0	**95**	75 - 125	**Pass**	0.997	0.990	**1%**	20%	**Pass**
Lead	1.0	**90**	75 - 125	**Pass**	0.916	0.895	**2%**	20%	**Pass**
Molybdenum	1.0	**91**	75 - 125	**Pass**	1.019	0.999	**2%**	20%	**Pass**
Nickel	1.0	**94**	75 - 125	**Pass**	0.996	0.969	**3%**	20%	**Pass**
Selenium	1.0	**88**	75 - 125	**Pass**	0.991	0.964	**3%**	20%	**Pass**
Silver	1.0	**99**	75 - 125	**Pass**	1.016	1.017	**0%**	20%	**Pass**
Thallium	1.0	**89**	75 - 125	**Pass**	0.876	0.864	**1%**	20%	**Pass**
Vanadium	1.0	**92**	75 - 125	**Pass**	1.074	1.055	**2%**	20%	**Pass**
Zinc	1.0	**102**	75 - 125	**Pass**	1.318	1.308	**1%**	20%	**Pass**

Mercury by EPA 7470A

Batch Number: 7471S1656

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: IDW3-Water

Analytical Notes:

	Batch Accuracy Results				Batch Precision Results				
Compound	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limit	Pass/Fail	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Mercury	5.00	**91**	75 - 125	**Pass**	0.009	0.009	**1%**	20%	**Pass**

MS: Matrix Spike LCS: Laboratory Control Sample

MSD: Matrix Spike Duplicate LCSD: Laboratory Control Sample Duplicate

Centrum Analytical Laboratories, Inc.

C6 to C40 Hydrocarbons by GCMS and GC/FID

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No.:	30418	Batch Number:	M5TPHGS760
Matrix:	Soil		8015DS4210
Analyst:	RL / AW		

Carbon Chain Length:	**C6-C12**	**C12-C22**	**C22-C40**
Reporting Limits:	0.50	10	20
Units:	mg/Kg	mg/Kg	mg/Kg
Method Blank	ND	ND	ND
IDW1-Soil	ND	**12**	ND
IDW2-Soil	ND	ND	ND
IDW4-Soil	**15**	**5,600**	**2,700**
Method:	GCMS	GC/FID	GC/FID
Date Extracted:	N/A	11/07/07	11/07/07
Date Analyzed:	11/07/07	11/07-08/07	11/07-08/07

Centrum Analytical Laboratories, Inc.

QC Sample Report - Volatile Hydrocarbons as Gasoline by GCMS

Matrix: Soil
Batch Number: M5TPHGS760

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
Gasoline	2.0	**104**	70 - 130	**Pass**

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Gasoline	2.14	2.39	**11%**	25%	**Pass**

Analytical Notes:

MS: Matrix Spike
MSD: Matrix Spike Duplicate
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Centrum Analytical Laboratories, Inc.

QC Sample Report - Extractable Hydrocarbons as Diesel by GC/FID

Matrix: Soil
Batch Number: 8015DS4210

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
Diesel	100	**91**	70 - 130	**Pass**

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: 30410-1

Compound	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Diesel	94.5	94.4	**0%**	25%	**Pass**

Analytical Notes:

MS: Matrix Spike
MSD: Matrix Spike Duplicate
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Centrum Analytical Laboratories, Inc.

C6 to C40 Hydrocarbons by GCMS and GC/FID

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No.:	30418	Batch Number:	MS4TPHGW3836
Matrix:	Water		8015DW4211
Analyst:	TU / AW		

Carbon Chain Length:	**C6-C12**	**C12-C22**	**C22-C40**
Reporting Limits:	0.50	0.40	0.40
Units:	mg/L	mg/L	mg/L
Method Blank	ND	ND	ND
IDW3-Water	ND	ND	ND
Method:	GCMS	GC/FID	GC/FID
Date Extracted:	N/A	11/07/07	11/07/07
Date Analyzed:	11/08/07	11/07/07	11/07/07

Centrum Analytical Laboratories, Inc.

QC Sample Report - Volatile Hydrocarbons as Gasoline by GCMS

Matrix: Water
Batch Number: MS5TPHGW3836

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
Gasoline	2.0	**94**	70 - 130	**Pass**

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Gasoline	1.89	1.76	**7%**	25%	**Pass**

Analytical Notes:

MS: Matrix Spike
MSD: Matrix Spike Duplicate
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Centrum Analytical Laboratories, Inc.

QC Sample Report - Extractable Hydrocarbons as Diesel by GC/FID

Matrix: Water
Batch number: 8015DW4211

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
Diesel	3.2	**98**	70 - 130	**Pass**

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Diesel	3.13	3.25	**4%**	25%	**Pass**

Analytical Notes:

MS: Matrix Spike
MSD: Matrix Spike Duplicate
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Centrum Analytical Laboratories, Inc.

Volatile Organic Compounds by EPA 8260B

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No.:	30418	Date Analyzed:	11/07/07
Matrix:	Soil	Batch Number:	M58260S760
Analyst:	RL		

	Sample ID:	Blank	IDW1-Soil	IDW2-Soil
Compounds	**RL**	mg/Kg	mg/Kg	mg/Kg
Acetone	0.050	ND	ND	ND
tert-Amyl Methyl Ether (TAME)	0.002	ND	ND	ND
Benzene	0.001	ND	ND	ND
Bromobenzene	0.005	ND	ND	ND
Bromochloromethane	0.005	ND	ND	ND
Bromodichloromethane	0.001	ND	ND	ND
Bromoform	0.005	ND	ND	ND
Bromomethane	0.005	ND	ND	ND
tert-Butanol (TBA)	0.020	ND	ND	ND
2-Butanone (MEK)	0.010	ND	ND	ND
n-Butylbenzene	0.002	ND	ND	ND
sec-Butylbenzene	0.002	ND	ND	ND
tert-Butylbenzene	0.002	ND	ND	ND
Carbon disulfide	0.010	ND	ND	ND
Carbon tetrachloride	0.001	ND	ND	ND
Chlorobenzene	0.001	ND	ND	ND
Chloroethane	0.005	ND	ND	ND
Chloroform	0.002	ND	ND	ND
Chloromethane	0.001	ND	ND	ND
2-Chlorotoluene	0.002	ND	ND	ND
4-Chlorotoluene	0.002	ND	ND	ND
Dibromochloromethane	0.002	ND	ND	ND
1,2-Dibromoethane	0.002	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.010	ND	ND	ND
Dibromomethane	0.001	ND	ND	ND
1,2-Dichlorobenzene	0.001	ND	ND	ND
1,3-Dichlorobenzene	0.002	ND	ND	ND
1,4-Dichlorobenzene	0.002	ND	ND	ND
Dichlorodifluoromethane	0.005	ND	ND	ND
1,1-Dichloroethane	0.001	ND	ND	ND
1,2-Dichloroethane	0.001	ND	ND	ND
1,1-Dichloroethene	0.005	ND	ND	ND
cis-1,2-Dichloroethene	0.002	ND	ND	ND
trans-1,2-Dichloroethene	0.002	ND	ND	ND
1,2-Dichloropropane	0.001	ND	ND	ND
1,3-Dichloropropane	0.001	ND	ND	ND
2,2-Dichloropropane	0.001	ND	ND	ND
1,1-Dichloropropene	0.001	ND	ND	ND

Centrum Analytical Laboratories, Inc.

Volatile Organic Compounds by EPA 8260B

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No.:	30418	Date Analyzed:	11/07/07
Matrix:	Soil	Batch Number:	M58260S760
Analyst:	RL		

	Sample ID:	Blank	IDW1-Soil	IDW2-Soil
Compounds	**RL**	mg/Kg	mg/Kg	mg/Kg
cis-1,3-Dichloropropene	0.001	ND	ND	ND
trans-1,3-Dichloropropene	0.001	ND	ND	ND
Diisopropyl Ether (DIPE)	0.002	ND	ND	ND
Ethylbenzene	0.001	ND	ND	ND
Ethyl tert-Butyl Ether (EtBE)	0.002	ND	ND	ND
Hexachlorobutadiene	0.001	ND	ND	ND
2-Hexanone	0.010	ND	ND	ND
Isopropylbenzene	0.001	ND	ND	ND
p-Isopropyltoluene	0.002	ND	ND	ND
Methylene chloride	0.050	ND	ND	ND
4-Methyl-2-pentanone	0.010	ND	ND	ND
Methyl tert-Butyl Ether (MtBE)	0.002	ND	ND	ND
Naphthalene	0.002	ND	ND	ND
n-Propylbenzene	0.001	ND	ND	ND
Styrene	0.001	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.001	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.002	ND	ND	ND
Tetrachloroethene	0.001	ND	ND	ND
Toluene	0.001	ND	ND	ND
1,2,3-Trichlorobenzene	0.002	ND	ND	ND
1,2,4-Trichlorobenzene	0.002	ND	ND	ND
1,1,1-Trichloroethane	0.001	ND	ND	ND
1,1,2-Trichloroethane	0.003	ND	ND	ND
Trichloroethene	0.001	ND	ND	ND
1,2,3-Trichloropropane	0.003	ND	ND	ND
Trichlorofluoromethane	0.001	ND	ND	ND
Trichlorotrifluoroethane	0.005	ND	ND	ND
1,2,4-Trimethylbenzene	0.001	ND	ND	ND
1,3,5-Trimethylbenzene	0.001	ND	ND	ND
Vinyl chloride	0.002	ND	ND	ND
Xylenes, m-,p-	0.002	ND	ND	ND
Xylene, o-	0.001	ND	ND	ND

Surrogates in % Recovery (Acceptance Limits: 70 - 130%)

Sample ID:	Blank	IDW1-Soil	IDW2-Soil
Dibromofluoromethane	109	109	107
Toluene-d8	94	94	94
Bromofluorobenzene	103	100	102

Centrum Analytical Laboratories, Inc.

Volatile Organic Compounds by EPA 8260B

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No.:	30418	Date Analyzed:	11/07/07
Matrix:	Soil	Batch Number:	M58260S760
Analyst:	RL		

Sample ID:		IDW4-Soil
Compounds	**RL**	mg/Kg
Acetone	2.5	ND
tert-Amyl Methyl Ether (TAME)	0.10	ND
Benzene	0.050	ND
Bromobenzene	0.25	ND
Bromochloromethane	0.25	ND
Bromodichloromethane	0.050	ND
Bromoform	0.25	ND
Bromomethane	0.25	ND
tert-Butanol (TBA)	1.0	ND
2-Butanone (MEK)	0.50	ND
n-Butylbenzene	0.10	ND
sec-Butylbenzene	0.10	ND
tert-Butylbenzene	0.10	ND
Carbon disulfide	0.50	ND
Carbon tetrachloride	0.050	ND
Chlorobenzene	0.050	ND
Chloroethane	0.25	ND
Chloroform	0.10	ND
Chloromethane	0.050	ND
2-Chlorotoluene	0.10	ND
4-Chlorotoluene	0.10	ND
Dibromochloromethane	0.10	ND
1,2-Dibromoethane	0.10	ND
1,2-Dibromo-3-chloropropane	0.50	ND
Dibromomethane	0.050	ND
1,2-Dichlorobenzene	0.050	ND
1,3-Dichlorobenzene	0.10	ND
1,4-Dichlorobenzene	0.10	ND
Dichlorodifluoromethane	0.25	ND
1,1-Dichloroethane	0.050	ND
1,2-Dichloroethane	0.050	ND
1,1-Dichloroethene	0.25	ND
cis-1,2-Dichloroethene	0.10	ND
trans-1,2-Dichloroethene	0.10	ND
1,2-Dichloropropane	0.050	ND
1,3-Dichloropropane	0.050	ND
2,2-Dichloropropane	0.050	ND
1,1-Dichloropropene	0.050	ND

Centrum Analytical Laboratories, Inc.

Volatile Organic Compounds by EPA 8260B

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No.:	30418	Date Analyzed:	11/07/07
Matrix:	Soil	Batch Number:	M58260S760
Analyst:	RL		

Sample ID:		IDW4-Soil
Compounds	**RL**	mg/Kg
cis-1,3-Dichloropropene	0.050	ND
trans-1,3-Dichloropropene	0.050	ND
Diisopropyl Ether (DIPE)	0.10	ND
Ethylbenzene	0.050	**0.12**
Ethyl tert-Butyl Ether (EtBE)	0.10	ND
Hexachlorobutadiene	0.050	ND
2-Hexanone	0.50	ND
Isopropylbenzene	0.050	ND
p-Isopropyltoluene	0.10	ND
Methylene chloride	2.5	ND
4-Methyl-2-pentanone	0.50	ND
Methyl tert-Butyl Ether (MtBE)	0.10	ND
Naphthalene	0.10	**0.10**
n-Propylbenzene	0.050	**0.076**
Styrene	0.050	ND
1,1,1,2-Tetrachloroethane	0.050	ND
1,1,2,2-Tetrachloroethane	0.10	ND
Tetrachloroethene	0.050	ND
Toluene	0.050	**1.2**
1,2,3-Trichlorobenzene	0.10	ND
1,2,4-Trichlorobenzene	0.10	ND
1,1,1-Trichloroethane	0.050	ND
1,1,2-Trichloroethane	0.15	ND
Trichloroethene	0.050	ND
1,2,3-Trichloropropane	0.15	ND
Trichlorofluoromethane	0.050	ND
Trichlorotrifluoroethane	0.25	ND
1,2,4-Trimethylbenzene	0.050	**0.67**
1,3,5-Trimethylbenzene	0.050	**0.18**
Vinyl chloride	0.10	ND
Xylenes, m-,p-	0.10	**0.49**
Xylene, o-	0.050	**0.24**

Surrogates in % Recovery (Acceptance Limits: 70 - 130%)

Sample ID:	IDW4-Soil
Dibromofluoromethane	107
Toluene-d8	94
Bromofluorobenzene	102

Centrum Analytical Laboratories, Inc.

QC Sample Report - Volatile Organic Compounds by EPA 8260B

Matrix: Soil
Batch Number: M58260S760

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
1,1-Dichloroethene	0.050	**90**	70 - 130	**Pass**
Benzene	0.050	**91**	70 - 130	**Pass**
Trichloroethene	0.050	**98**	70 - 130	**Pass**
Toluene	0.050	**86**	70 - 130	**Pass**
Chlorobenzene	0.050	**89**	70 - 130	**Pass**

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: 30397-1

Compound	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
1,1-Dichloroethene	0.0452	0.0455	**1%**	25%	**Pass**
Benzene	0.0457	0.0468	**2%**	25%	**Pass**
Trichloroethene	0.0502	0.0500	**0%**	25%	**Pass**
Toluene	0.0436	0.0445	**2%**	25%	**Pass**
Chlorobenzene	0.0462	0.0462	**0%**	25%	**Pass**

Analytical Notes:

MS: Matrix Spike
MSD: Matrix Spike Duplicate
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Centrum Analytical Laboratories, Inc.

Volatile Organic Compounds by EPA 8260B

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No.:	30418	Date Analyzed:	11/08/07
Matrix:	Water	Batch Number:	MS48260W3836
Analyst:	TU		

	Sample ID:	Blank	LTB2-110607	IDW3-WATER
Compounds	**RL**	µg/L	µg/L	µg/L
Acetone	50	ND	ND	ND
tert-Amyl Methyl Ether (TAME)	1.0	ND	ND	ND
Benzene	0.5	ND	ND	ND
Bromobenzene	1.0	ND	ND	ND
Bromochloromethane	1.0	ND	ND	ND
Bromodichloromethane	0.5	ND	ND	ND
Bromoform	0.5	ND	ND	ND
Bromomethane	2.0	ND	ND	ND
tert-Butanol (TBA)	10	ND	ND	ND
2-Butanone (MEK)	10	ND	ND	ND
n-Butylbenzene	1.0	ND	ND	ND
sec-Butylbenzene	0.5	ND	ND	ND
tert-Butylbenzene	0.5	ND	ND	ND
Carbon disulfide	10	ND	ND	ND
Carbon tetrachloride	0.5	ND	ND	ND
Chlorobenzene	0.5	ND	ND	ND
Chloroethane	0.5	ND	ND	ND
Chloroform	0.5	ND	ND	ND
Chloromethane	2.0	ND	ND	ND
2-Chlorotoluene	0.5	ND	ND	ND
4-Chlorotoluene	0.5	ND	ND	ND
Dibromochloromethane	0.5	ND	ND	ND
1,2-Dibromoethane	0.5	ND	ND	ND
1,2-Dibromo-3-chloropropane	10	ND	ND	ND
Dibromomethane	0.5	ND	ND	ND
1,2-Dichlorobenzene	0.5	ND	ND	ND
1,3-Dichlorobenzene	0.5	ND	ND	ND
1,4-Dichlorobenzene	0.5	ND	ND	ND
Dichlorodifluoromethane	0.5	ND	ND	ND
1,1-Dichloroethane	0.5	ND	ND	ND
1,2-Dichloroethane	0.5	ND	ND	ND
1,1-Dichloroethene	0.5	ND	ND	ND
cis-1,2-Dichloroethene	0.5	ND	ND	ND
trans-1,2-Dichloroethene	0.5	ND	ND	ND
1,2-Dichloropropane	0.5	ND	ND	ND
1,3-Dichloropropane	0.5	ND	ND	ND
2,2-Dichloropropane	0.5	ND	ND	ND
1,1-Dichloropropene	0.5	ND	ND	ND

Centrum Analytical Laboratories, Inc.

Volatile Organic Compounds by EPA 8260B

Client:	Tetra Tech, Inc.	Date Sampled:	11/06/07
Project:	LMC Beaumont Site 2	Date Received:	11/06/07
Job No.:	30418	Date Analyzed:	11/08/07
Matrix:	Water	Batch Number:	MS48260W3836
Analyst:	TU		

	Sample ID:	Blank	LTB2-110607	IDW3-WATER
Compounds	**RL**	µg/L	µg/L	µg/L
cis-1,3-Dichloropropene	0.5	ND	ND	ND
trans-1,3-Dichloropropene	0.5	ND	ND	ND
Diisopropyl Ether (DIPE)	1.0	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Ethyl tert-Butyl Ether (EtBE)	1.0	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND
2-Hexanone	10	ND	ND	ND
Isopropylbenzene	0.5	ND	ND	ND
p-Isopropyltoluene	0.5	ND	ND	ND
Methylene chloride	50	ND	ND	ND
4-Methyl-2-pentanone	5.0	ND	ND	ND
Methyl-tert-butyl ether (MtBE)	1.0	ND	ND	ND
Naphthalene	0.5	ND	ND	ND
n-Propylbenzene	0.5	ND	ND	ND
Styrene	0.5	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.5	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND
Tetrachloroethene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
1,2,3-Trichlorobenzene	0.5	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	ND	ND	ND
1,1,1-Trichloroethane	0.5	ND	ND	ND
1,1,2-Trichloroethane	0.5	ND	ND	ND
Trichloroethene	0.5	ND	ND	ND
1,2,3-Trichloropropane	0.5	ND	ND	ND
Trichlorofluoromethane	0.5	ND	ND	ND
Trichlorotrifluoroethane	5.0	ND	ND	ND
1,2,4-Trimethylbenzene	0.5	ND	ND	ND
1,3,5-Trimethylbenzene	0.5	ND	ND	ND
Vinyl chloride	0.5	ND	ND	ND
Xylenes, m-,p-	1.0	ND	ND	ND
Xylene, o-	0.5	ND	ND	ND

Surrogates in % Recovery (Acceptance Limits: 70 - 130%)

Sample ID:	Blank	LTB2-110607	IDW3-WATER
Dibromofluoromethane	107	108	109
Toluene-d8	103	106	104
Bromofluorobenzene	98	97	98

Centrum Analytical Laboratories, Inc.

QC Sample Report - Volatile Organic Compounds by EPA 8260B

Matrix: Water
Batch Number: MS48260W3836

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (µg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
1,1-Dichloroethene	50	**83**	70 - 130	**Pass**
Benzene	50	**110**	70 - 130	**Pass**
Trichloroethene	50	**100**	70 - 130	**Pass**
Toluene	50	**108**	70 - 130	**Pass**
Chlorobenzene	50	**91**	70 - 130	**Pass**

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: 30426-11

Compound	MS Sample Result (µg/L)	MSD Sample Result (µg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
1,1-Dichloroethene	54.85	56.33	**3%**	25%	**Pass**
Benzene	54.47	55.03	**1%**	25%	**Pass**
Trichloroethene	50.28	50.17	**0%**	25%	**Pass**
Toluene	52.66	52.67	**0%**	25%	**Pass**
Chlorobenzene	46.17	46.03	**0%**	25%	**Pass**

Analytical Notes:

MS: Matrix Spike
MSD: Matrix Spike Duplicate
LCS: Laboratory Control Sample
LCSD: Laboratory Control Sample Duplicate

Calscience Environmental Laboratories, Inc.

November 09, 2007

Marilu Escher
Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Subject: **Calscience Work Order No.: 07-11-0472**
Client Reference: LMC Beaumont Site 2 / 30418

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/7/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 11/07/07
Work Order No: 07-11-0472

Project: LMC Beaumont Site 2 / 30418

Client Sample Number	Lab Sample Number	Date Collected	Matrix
IDW1-Soil	**07-11-0472-1**	**11/06/07**	**Solid**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	5960	200	10		ug/kg	11/08/07	11/08/07	EPA 314.0M

IDW2-Soil	**07-11-0472-2**	**11/06/07**	**Solid**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	28.3	20.0	1		ug/kg	11/08/07	11/08/07	EPA 314.0M

IDW3-Water	**07-11-0472-3**	**11/06/07**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	330	10	5		ug/L	N/A	11/07/07	EPA 314.0

IDW4-Soil	**07-11-0472-4**	**11/06/07**	**Solid**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	20.0	1		ug/kg	11/08/07	11/08/07	EPA 314.0M

Method Blank		**N/A**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	11/07/07	EPA 314.0
Perchlorate	ND	20.0	1		ug/kg	11/08/07	11/08/07	EPA 314.0M

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: N/A
Work Order No: 07-11-0472

Project: LMC Beaumont Site 2 / 30418

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	EPA 314.0	07-11-0471-2	11/07/07	N/A	109	108	80-120	1	0-15	
Perchlorate	EPA 314.0M	07-11-0470-1	11/08/07	11/8/07	117	115	80-120	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: N/A
Work Order No: 07-11-0472

Project: LMC Beaumont Site 2 / 30418

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Perchlorate	EPA 314.0	099-05-203-697	N/A	11/07/07	100	99	85-115	1	0-15	
Perchlorate	EPA 314.0M	099-05-205-304	11/08/07	11/08/07	100	102	85-115	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-11-0472

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Centrum Analytical Laboratories, Inc.
1401 Research Park Drive, Suite 100
Riverside, CA 92507
Voice: 951.779.0310 ● 800.798.9336
Fax: 951.779.0344

3299 Hill Street, Suite
Signal Hill, CA 90755
Voice: 562.498.7005
Fax: 562.498.8617

www.centrum-labs.com
lab@centrum-labs.com

Chain of Custody Record

Centrum Job # 0472

RUSH

Project No: 30418

Project Name: LMC BEAUMONT SITE 2

Project Manager: MARILU ESCHER

Phone: Fax:

email:

Client Name: (Report and Billing) CENTRUM

Address: (Report and Billing) Note: Reports and Invoice will be sent here

Please Circle Analyses Requested

Centrum ID (Lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type	LUFT Diesel, or EPA 8015B DRO	LUFT Gas, or EPA 8015B GRO	Fuel ID (TVH, TEH), Carbon Chain (specify ranges)	8021B: BTEX/MtBE Only	PERCHLORATE (314.0 mod.)	VOCs: 8260B, or 624	VOCs: BTEX/Oxygenates Only	SVOCs: 8270C, or 625	8081A/8082: Pesticides, or PCBs, or Pest/PCB		Metals: Title 22 (CAM), or RCRA, or PP	Metals: TCLP, STLC	pH, TDS, TSS	418.1 (TRPH), or 413.2, or 1664		Remarks/Special Instructions
1	IDW1-Soil	11/6/07	800	Soil	30418-2	1-4oz JAR					X											
2	IDW2-Soil		900		-3						X											
3	IDW3-Water		1030	Water	-4	Poly					X											
4	IDW4-Soil		1330	Soil	-5	1-4oz JAR					X											

Turn-Around Time (see note *)
- ☐ 24 Hr. RUSH *
- ☒ 48 Hr. RUSH *
- ☐ Normal TAT
- ☐ Other _____

* Requires PRIOR approval, additional charges apply

Requested due date: 11/9/07 7PM

	Date:	Time:		Date:	Time:
1) Relinquished by: (Sampler's Signature)	11/6/07	1310	3) Relinquished by:		
2) Received by:	11/07/07	1310	4) Received by:		
			5) Relinquished by:		
			6) Received for Laboratory by:		

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

Laboratory Notes:

To be completed by Laboratory personnel:
Chilled? ☐ Yes Temp ____C ☐ From Field
Custody seals? ☐ Yes ☐ No
All sample containers intact? ☐ Yes ☐ No
☐ Courier ☐ UPS/Fed Ex ☐ Hand carried

Sample Disposal
- ☐ Client will pick up
- ☐ Return to client
- ☐ Lab disposal

Sample Locator Number: _____

Report Formats: Check all applicable
☐ Paper report ☐ PDF report (Include email address)
☐ LARWQCB ☐ EDF (Include global ID) ☐ EDD (GISKEY) ☐ EDD (Other) *
* with prior approval only

v7.2 9/05 coc-0905.xls

White Copy - Original (Accompanies Samples) Yellow Copy - Centrum Files Pink Copy - Client Copy

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 07 - 1 1 - 0 4 7 2

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Centum DATE: 11.02.07

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
4.3 °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: [illegible]

COMMENTS:

TETRA TECH, INC.
348 W. Hospitality Lane, Suite 100
San Bernardino, California 92408
Telephone: (909) 381-1674
FAX: (909) 889-1391

SHIP TO: Centrum Labs
1401 Research Park Dr
Riverside, CA 92507
951-779-0310

RUSH

CHAIN OF CUSTODY RECORD

CENTRUM: 30418

DATE 11/06/2007 PAGE 1 OF 1

CLIENT: Tetra Tech
PROJECT NAME: LMC Beaumont Site 2
PROJECT MANAGER: David Bertolacci
TC #: 19892-03
SAMPLERS (Signatures)

TURN-AROUND TIME: 2-3 Day Rush

OBSERVATIONS/COMMENTS: please email results to david.bertolacci@tetratech.com

PARAMETERS

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs + oxygenates (SW 8260B)	TPH C6-C40 (8015M)	CAM17 metals (6010B/7471A)	Perchlorate (314.0 mod)	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	LTB2-110607	11/06/2007	0700	X				Un	W	G	2	HCl	
2.	IDW1-Soil	↓	0800	X	X	X	X	N/A	S	G	5	see bottle	1st bin (full)
3.	IDW2-Soil	↓	0900	X	X	X	X	↓	↓	↓	↓	↓	2nd bin (~1/3 full)
4.	IDW3-Water	↓	1030	X	X	X	X	Un	W	G/P	~~6~~ 9	↓	5 water drums
5.	IDW4-Soil	↓	1330	X	X	X	X	N/A	S	G	5	↓	Drum by Unknown #1
6.													
7.													
8.													
9.													
10.													

FILTERING:
☐ FILTERED ☑ UNFILTERED

MATRIX TYPE:
S - Soil
M - Sediment
W - Water

CONTAINER TYPE:
G - Glass Bottle/Jar
SS - Stainless Steel Sleeve
SB - Brass Sleeve
P - Plastic Bottle/Jar

PRESERVATIVES: (Water Only)
HCL
NR (None required)
NaOH
H_2SO_4

RELINQUISHED BY	SIGNATURE		DATE	TIME	
David Bertolacci		TETRA TECH, INC.	11/06/2007	1430	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 26
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	METHOD OF SHIPMENT/SHIPMENT NO.
JEN INIGUEZ	Jen Iniguez	Centrum Labs	11.6.2007	1430	drop-off
RELINQUISHED BY	SIGNATURE	COMPANY	DATE	TIME	Special Shipping/Handling/Storage Requirements:
RECEIVED BY	SIGNATURE	COMPANY	DATE	TIME	HAND DELIVERED

DISTRIBUTION: White and Pink = Tetra Tech, Inc. Canary = Laboratory

X:\GIS\ATT-MISC\COCR.CDR

Environmental Geotechnology Laboratory, Inc.

RECEIVED
NOV 26 2007
TETRA TECH, INC. SBD

November 20, 2007

Tetra Tech, Inc
348 W. Hospitality Ln. #100
San Bernardino, CA 92408

Attn: Mr. David Bertalacci

RE: LABORATORY TEST RESULTS/REPORT
Project Name: LMC Beaumont Site 2
Project No.: N/A
EGL Job No.: 07-004-001

Dear Mr. Bertalacci:

We have completed the testing program conducted on samples from the above project. The tests were performed in accordance with testing procedures as follows:

TEST	METHOD
Grain Size Analysis	ASTM D422
Total Porosity	
Hydraulic Permeability	ASTM D5084

Enclosed are Summaries of Laboratory Test Results.

We appreciate the opportunity to provide testing services to Tetra Tech, Inc. Should you have any questions, please call the undersigned.

Sincerely yours,
Environmental Geotechnology Laboratory, Inc.

Hank Jong, PE, GE
Manager

Enclosure

11819 Goldring Road, Suite A, Arcadia, CA 91006 • Tel.: (626) 263-3588, Fax: (626) 263-3599
E-MAIL: MAIL@EGLAB.COM

SUMMARY OF LABORATORY TEST RESULTS

PROJECT NAME: LMC Beaumont Site 2

EGL JOB NO.: 07-004-001

PROJECT NO.: 19892-03

CLIENT: Tetra Tech, Inc.

DATE: 11-15-07

SUMMARIZED BY: VW

Boring No	SAMPLE NO	DEPTH (ft)	MOISTURE CONTENT ASTM D2216 (%)	DRY DENSITY ASTM D2937 (pcf)	SPECIFIC GRAVITY ASTM D 854	TOTAL POROSITY (%)
N/A	SB1-10-10.5	10-10.5	11.1	108.5	2.720	36.07
N/A	SB1-30-30.5	30-30.5	6.9	101.1	2.719	40.41
N/A	SB3-5-5.5	5-5.5	5.5	108.6	2.710	35.78
N/A	SB3-5.5-6.0	5.5-6.0	5.7	105.8	2.700	37.20
N/A	SB3-19-19.5	19-19.5	10.4	124.4	2.758	27.72
N/A	SB4-5-5.5	5-5.5	7.2	99.3	2.704	41.15
N/A	SB4-15.5-16	15.5-16.0	8.7	125.0	2.726	26.51

SUMMARY OF PERMEABILITY TEST RESULTS

PROJECT NAME: LMC Beaumont Site 2

EGL JOB NO.: 07-004-001

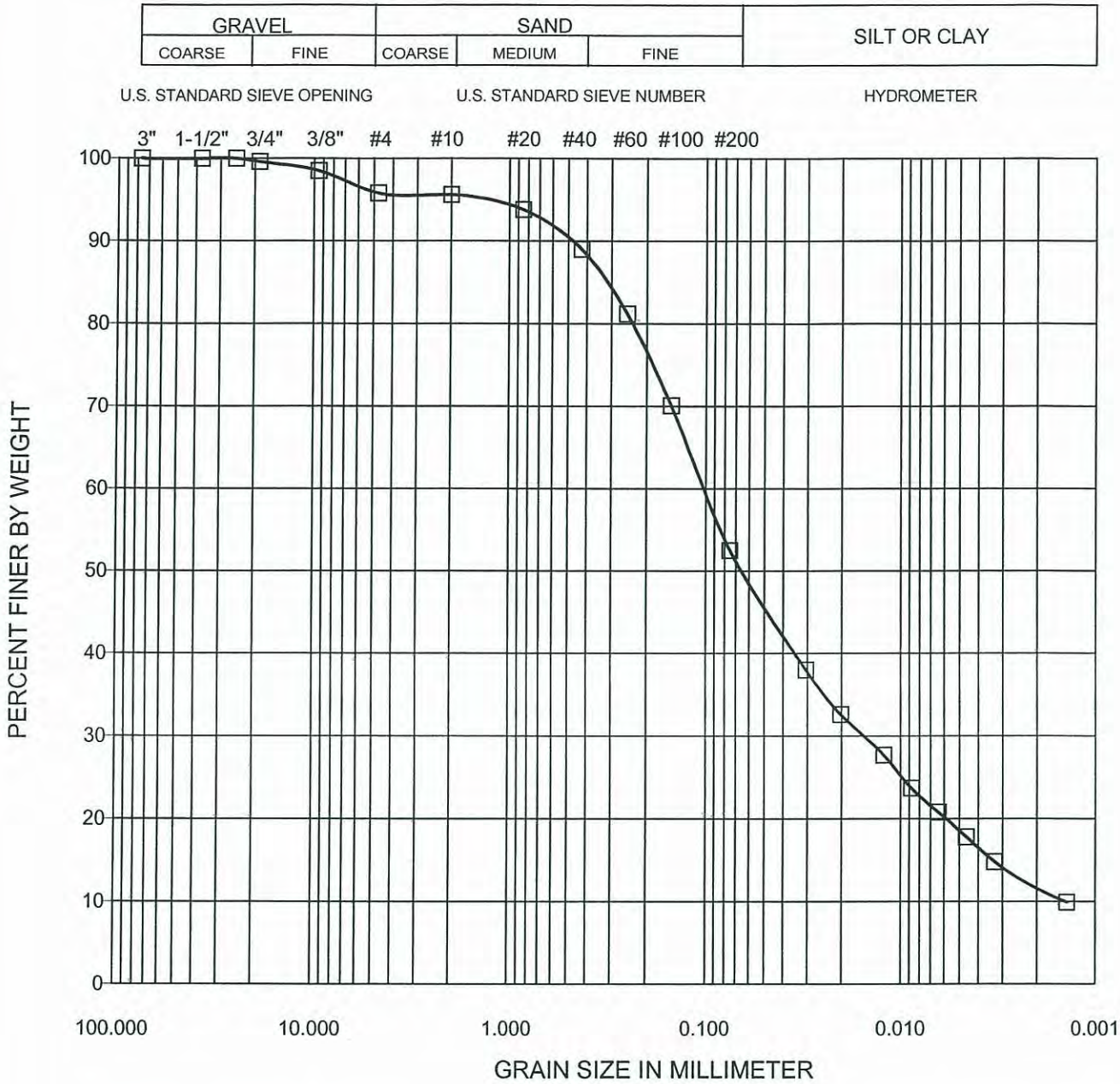
PROJECT NO.: 19892-03

CLIENT: Tetra Tech, Inc.

DATE: 11-15-07

SUMMARIZED BY: VW

Boring No	SAMPLE NO	DEPTH (ft)	MOISTURE CONTENT ASTM D2216 (%)	DRY DENSITY ASTM D2937 (pcf)	EFFECTIVE CONFINED PRESSURE (psi)	SATURATED HYDRAULIC CONDUCTIVITY ASTM D5084 (cm/sec)
N/A	SB1-10-10.5	10-10.5	11.1	108.5	5.7	1.3E-005
N/A	SB1-30-30.5	30-30.5	6.9	101.1	15.1	2.3E-007
N/A	SB3-5-5.5	5-5.5	5.5	108.6	3.0	1.0E-005
N/A	SB3-5.5-6.0	5.5-6.0	5.7	105.8	3.0	1.1E-005
N/A	SB3-19-19.5	19-19.5	10.4	124.4	12.2	1.8E-006
N/A	SB4-5-5.5	5-5.5	7.2	99.3	3.0	4.0E-005
N/A	SB4-15.5-16	15.5-16.0	8.7	125.0	9.9	2.9E-006



SYMBOL	BORING NO	SAMPLE ID	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	SB1-10-10.5	10-10.5	TUBE	CL	N/A	N/A

ENVIRONMENTAL GEOTECHNOLOGY LABORATORY

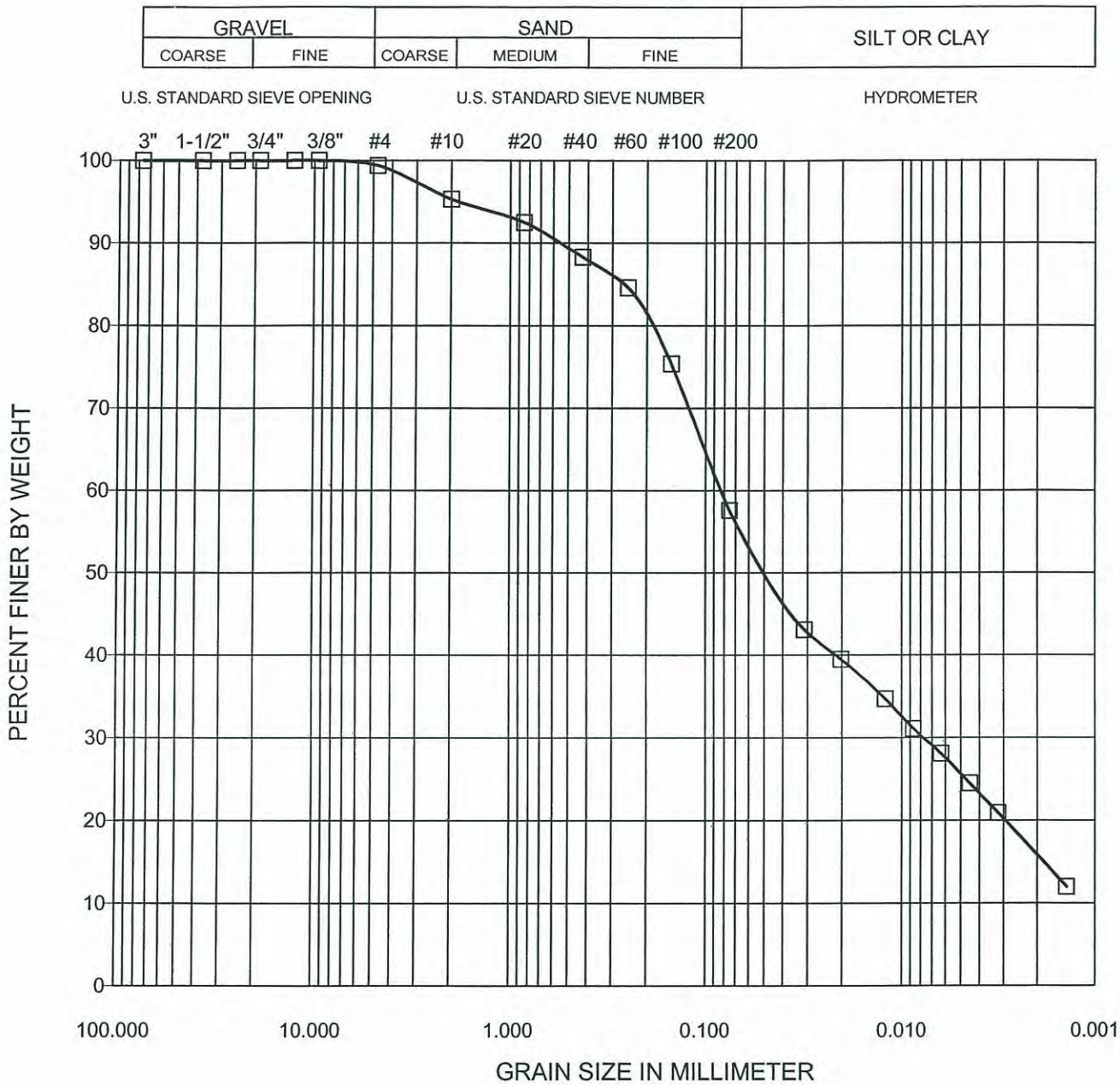
Project Name:
LMC Beaumont Site 2
Client: Tetra Tech, Inc
Job No. 19892-03
EGL Project No.: 07-004-001

GRAIN SIZE DISTRIBUTION CURVE

(ASTM D422)

11/07

FIGURE



SYMBOL	BORING NO	SAMPLE ID	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	SB1-30-30.5	30-30.5	TUBE	CL	N/A	N/A

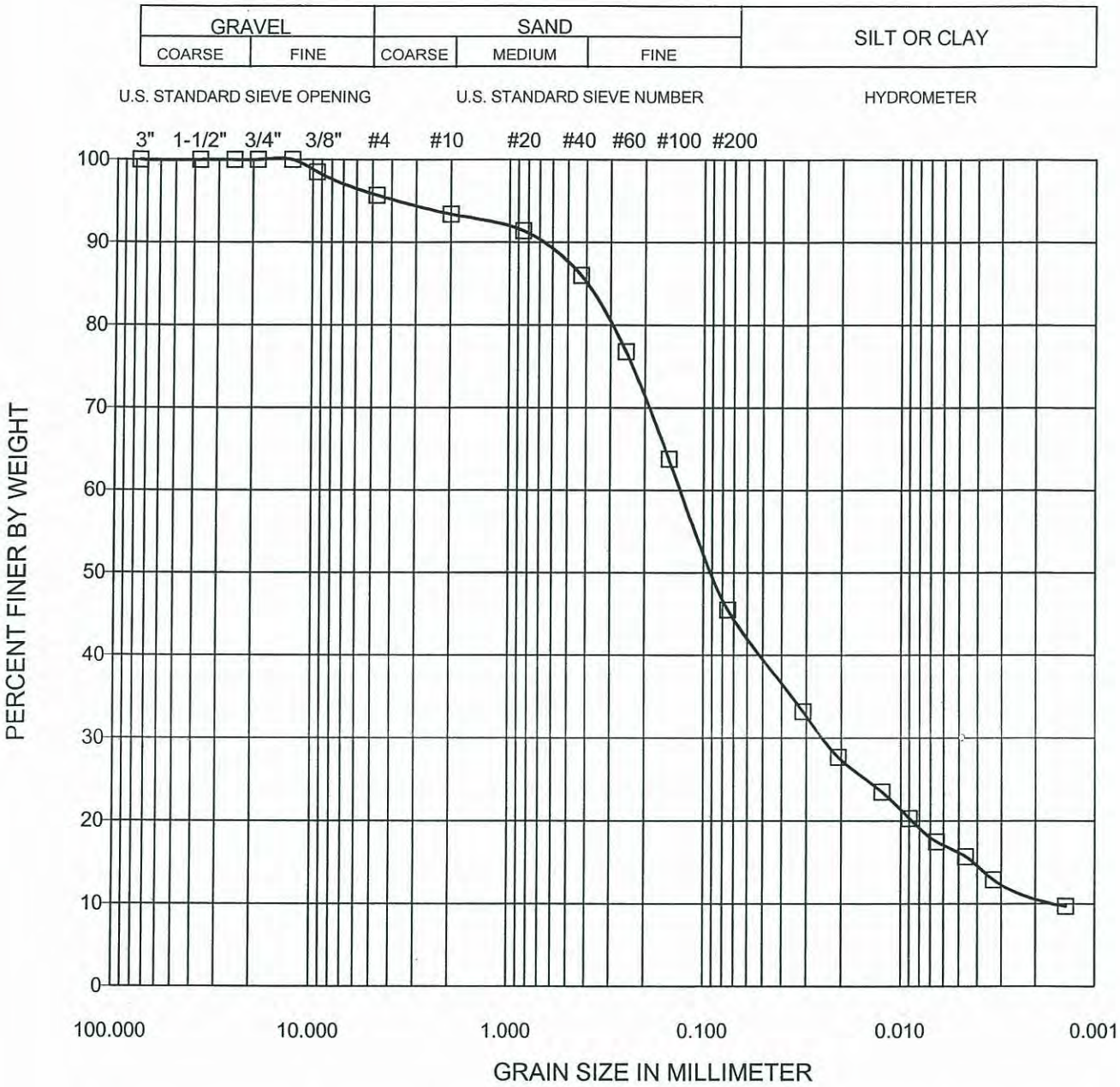
ENVIRONMENTAL GEOTECHNOLOGY LABORATORY

Project Name:
LMC Beaumont Site 2
Client: Tetra Tech, Inc
Job No. 19892-03
EGL Project No.: 07-004-001

GRAIN SIZE DISTRIBUTION CURVE

(ASTM D422)

FIGURE



SYMBOL	BORING NO	SAMPLE ID	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	SB3-5-5.5	5-5.5	TUBE	SC	N/A	N/A

ENVIRONMENTAL GEOTECHNOLOGY LABORATORY

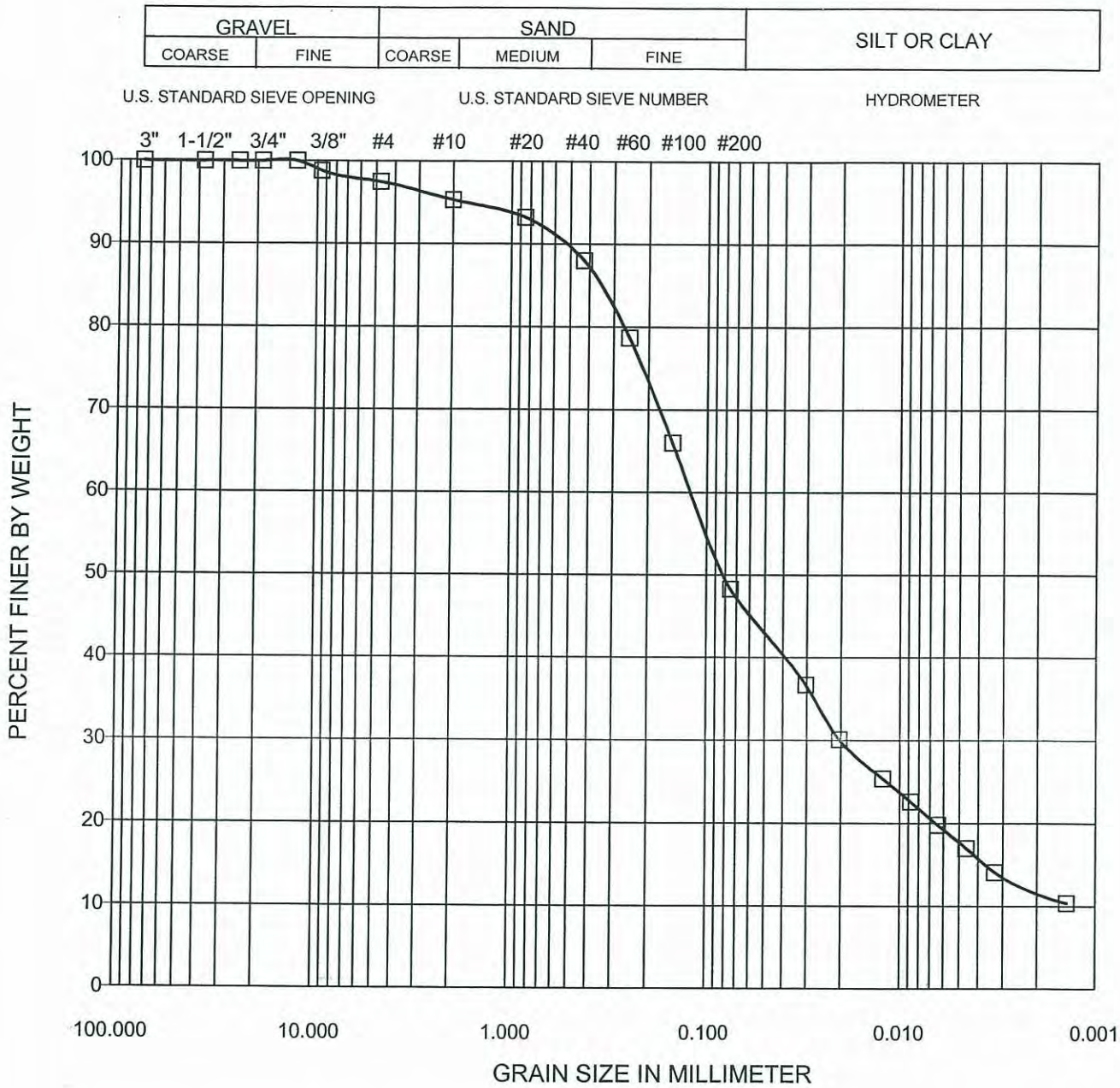
Project Name:
LMC Beaumont Site 2
Client: Tetra Tech, Inc
Job No. 19892-03
EGL Project No.: 07-004-001

GRAIN SIZE DISTRIBUTION CURVE

(ASTM D422)

11/07

FIGURE



SYMBOL	BORING NO	SAMPLE ID	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	SB3-5.5-6.0	5.5-6.0	TUBE	SC	N/A	N/A

ENVIRONMENTAL GEOTECHNOLOGY LABORATORY

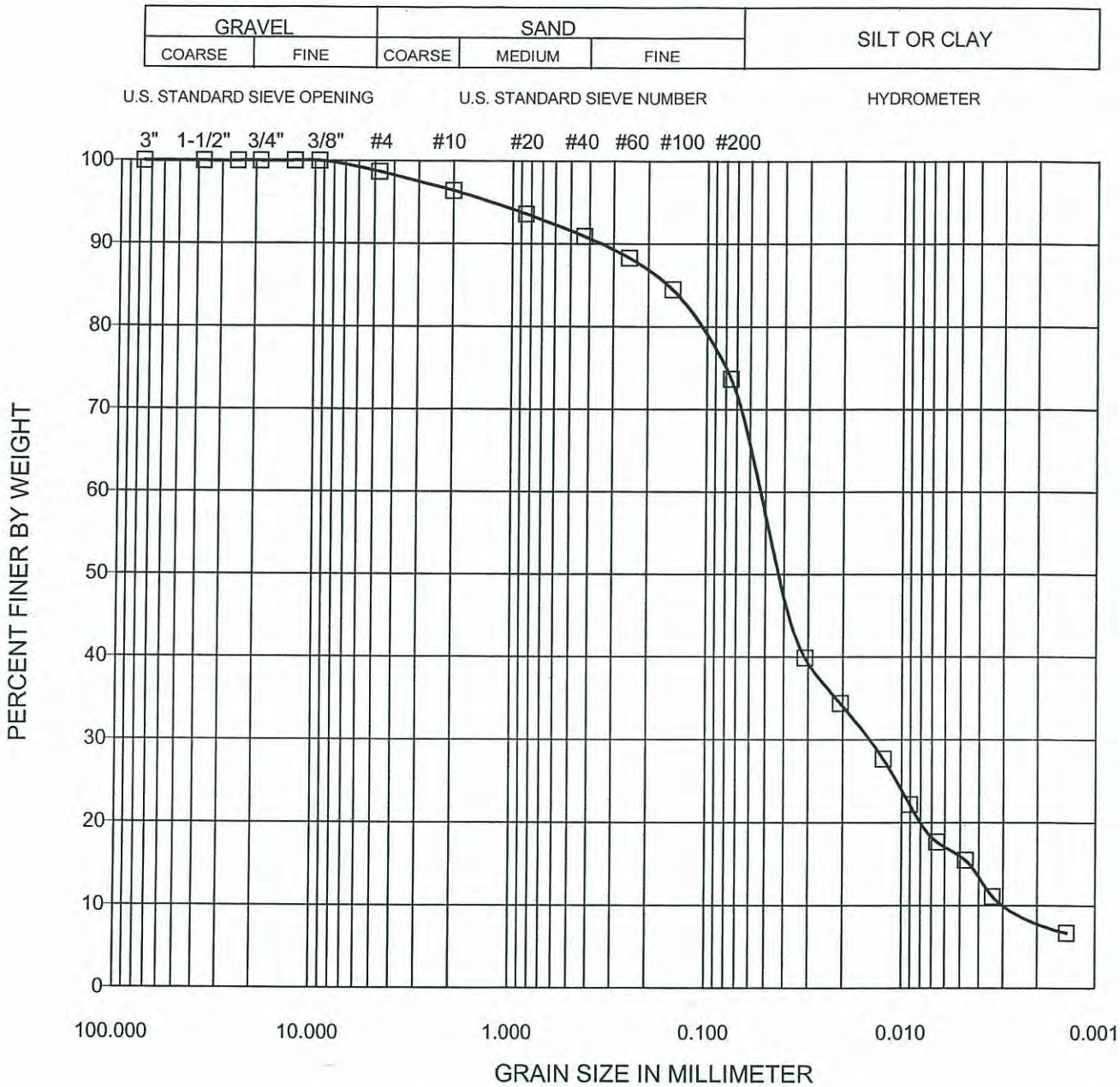
Project Name:
LMC Beaumont Site 2
Client: Tetra Tech, Inc
Job No. 19892-03
EGL Project No.: 07-004-001

GRAIN SIZE DISTRIBUTION CURVE

(ASTM D422)

11/07

FIGURE



SYMBOL	BORING NO	SAMPLE ID	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	SB3-19-19.5	19-19.5	TUBE	CL	N/A	N/A

ENVIRONMENTAL GEOTECHNOLOGY LABORATORY

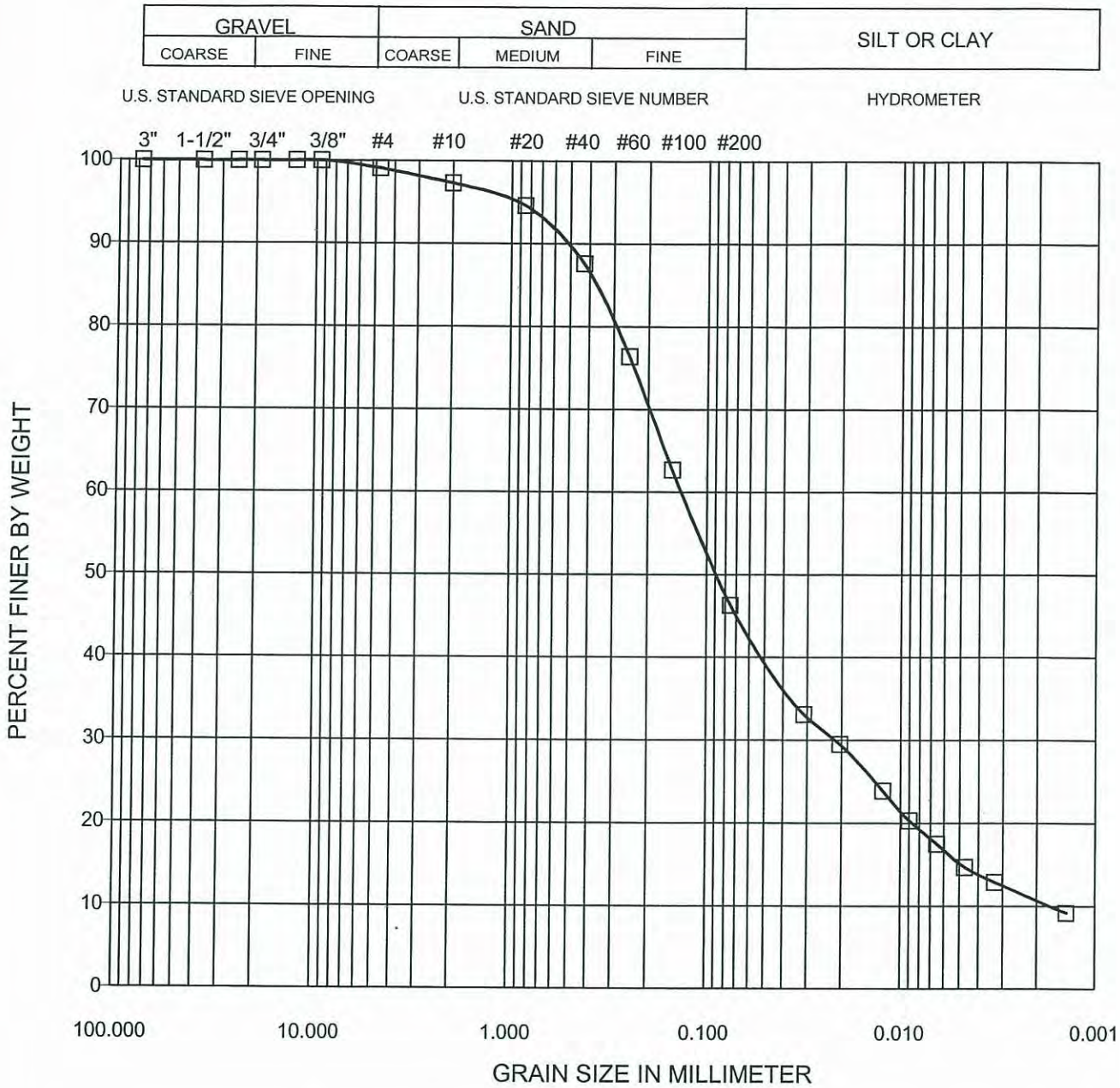
Project Name:
LMC Beaumont Site 2
Client: Tetra Tech, Inc
Job No. 19892-03
EGL Project No.: 07-004-001

GRAIN SIZE DISTRIBUTION CURVE

(ASTM D422)

11/07

FIGURE



SYMBOL	BORING NO	SAMPLE ID	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	SB4-5-5.5	5-5.5	TUBE	SC	N/A	N/A

ENVIRONMENTAL GEOTECHNOLOGY LABORATORY

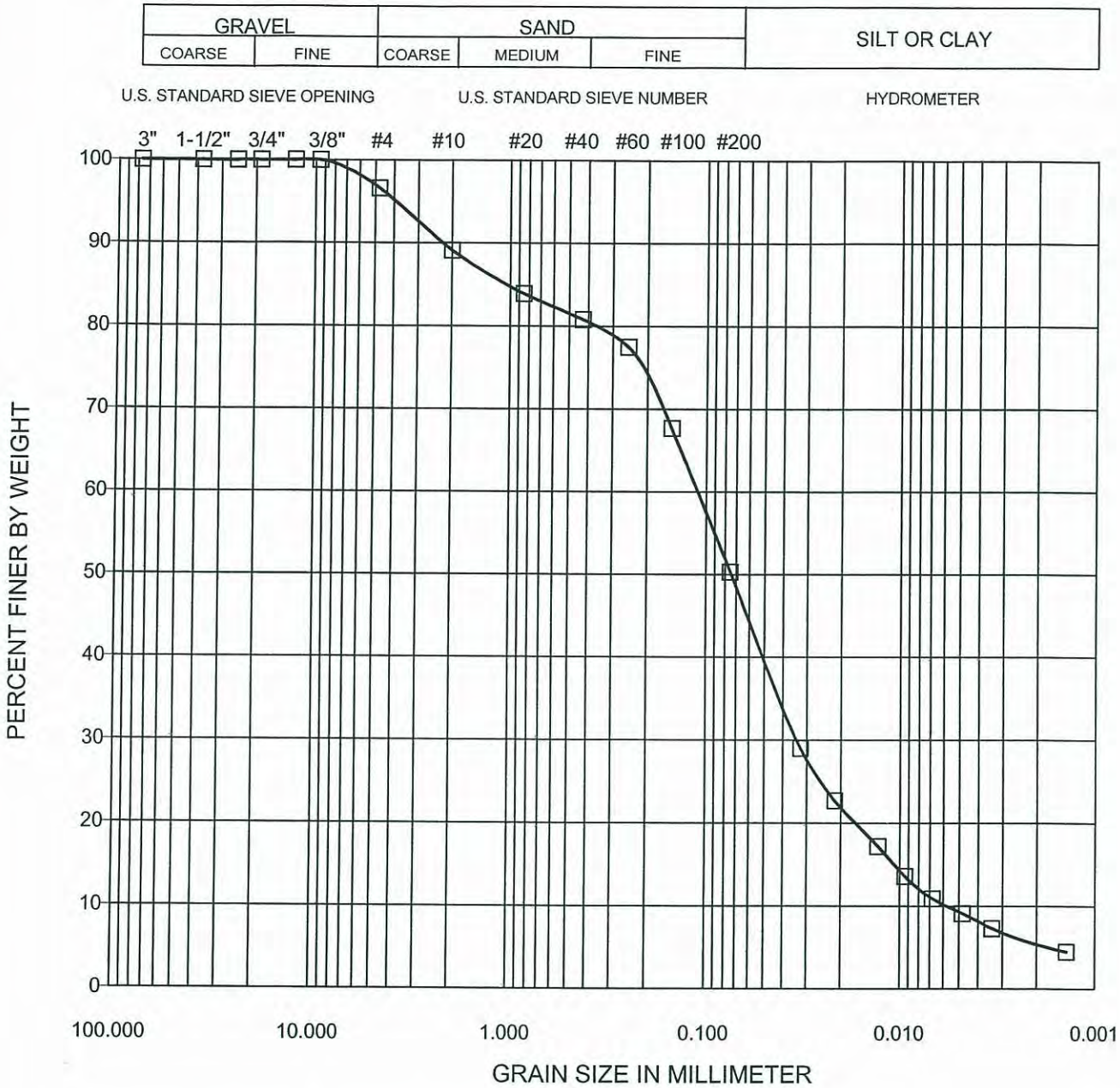
Project Name:
LMC Beaumont Site 2
Client: Tetra Tech, Inc
Job No. 19892-03
EGL Project No.: 07-004-001

GRAIN SIZE DISTRIBUTION CURVE

(ASTM D422)

11/07

FIGURE



SYMBOL	BORING NO	SAMPLE ID	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
□	N/A	SB4-15.5-16	15.5-16	TUBE	ML	N/A	N/A

ENVIRONMENTAL GEOTECHNOLOGY LABORATORY

Project Name:
LMC Beaumont Site 2
Client: Tetra Tech, Inc
Job No. 19892-03
EGL Project No.: 07-004-001

GRAIN SIZE DISTRIBUTION CURVE

(ASTM D422)

11/07

FIGURE