APPENDIX E

SURFACE WATER AND SEDIMENT SAMPLE LABORATORY ANALYTICAL REPORTS

SEVERN TRENT STL

ANALYTICAL REPORT

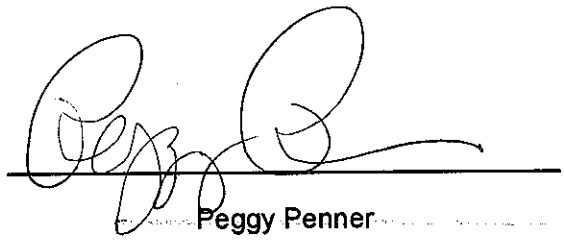
Job Number: 660-2069.1

Job Description: Former American Berylliium

For:

Tetra Tech NUS Inc
5421 Beaumont Center Blvd
Suite 660
Tampa, FL 33634

Attention: Mr. Paul Calligan



Peggy Penner
Project Manager II
ppenner@stl-inc.com
05/25/2005

DOH Certification #: E84282
These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request.

SEVERN TRENT STL

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

SEVERN TRENT STL

METHOD SUMMARY

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Description	Method	Preparation Method
Matrix: Water		
Volatile Organic Compounds by GC/MS	SW846 8260B	
Purge-and-Trap		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846 8270C	
Continuous Liquid-Liquid Extraction		SW846 3520C

REFERENCES

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SEVERN TRENT STL

METHOD / ANALYST SUMMARY

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Method	Analyst	Analyst ID
SW846 8260B	Tafuni, Natalie	NT
SW846 8270C	Pennypacker, Robyn	RP

SEVERN TRENT STL

SAMPLE SUMMARY

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-2069-1	TT-SW-POND-1	Water	05/20/2005 1430	05/21/2005 1020

SAMPLE RESULTS

SEVERN TRENT STL

Analytical Data

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Client Sample ID: **TT-SW-POND-1**

Lab Sample ID: 660-2069-1
Client Matrix: Water

Date Sampled: 05/20/2005 1430
Date Received: 05/21/2005 1020

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation:
Dilution: 1.0
Date Analyzed: 05/24/2005 0316
Date Prepared: 05/24/2005 0316

Analysis Batch: 660-7437

Instrument ID: BVMH GC/MS
Lab File ID: 1HE2358.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.27	U	0.27	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	0.66	U	0.66	1.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	0.80	U	0.80	1.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	0.64	U	0.64	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	0.74	U	0.74	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	0.40	U	0.40	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.46	U	0.46	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	0.48	U	0.48	1.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	1.0

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Client Sample ID: **TT-SW-POND-1**

Lab Sample ID: 660-2069-1
Client Matrix: Water

Date Sampled: 05/20/2005 1430
Date Received: 05/21/2005 1020

8260B Volatile Organic Compounds by GC/MS (Continued)

Method: 8260B
Preparation:
Dilution: 1.0
Date Analyzed: 05/24/2005 0316
Date Prepared: 05/24/2005 0316

Analysis Batch: 660-7437

Instrument ID: BVMH GC/MS
Lab File ID: 1HE2358.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.14	U	0.14	1.0
Tetrachloroethene	0.34	U	0.34	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.28	U	0.28	1.0
Trichlorofluoromethane	0.98	U	0.98	1.0
1,2,3-Trichloropropane	0.15	U	0.15	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.30	U	0.30	1.0
Acetone	9.9	U	9.9	20
Methyl Ethyl Ketone	8.4	U	8.4	10
methyl isobutyl ketone	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	1.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8	113	77 - 122
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	97	70 - 130

SEVERN TRENT STL

Analytical Data

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Client Sample ID: **TT-SW-POND-1**

Lab Sample ID: 660-2069-1
Client Matrix: Water

Date Sampled: 05/20/2005 1430
Date Received: 05/21/2005 1020

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 05/24/2005 1302
Date Prepared: 05/23/2005 1148

Analysis Batch: 660-7415
Prep Batch: 660-7341

Instrument ID: HP 6890/5973
Lab File ID: 1CE24009.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	10

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	36	36 - 124
Nitrobenzene-d5	38	34 - 130
Terphenyl-d14	16	14 - 148

SEVERN TRENT STL

DATA REPORTING QUALIFIERS

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:660-7437				
1968-G-1 MSD	Matrix Spike Duplicate	Water	8260B	
1968-H-1 MS	Matrix Spike	Water	8260B	
LCS 660-7437/1	Lab Control Spike	Water	8260B	
LCSD 660-7437/17	Lab Control Spike Duplicate	Water	8260B	
MB 660-7437/2	Method Blank	Water	8260B	
660-2069-C-1	TT-SW-POND-1	Water	8260B	
GC/MS Semi VOA				
Prep Batch: 660-7341				
LCS 660-7341/2-A	Lab Control Spike	Water	3520C	
LCSD 660-7341/3-A	Lab Control Spike Duplicate	Water	3520C	
MB 660-7341/1-A	Method Blank	Water	3520C	
660-2069-B-1-A	TT-SW-POND-1	Water	3520C	
Analysis Batch:660-7415				
LCS 660-7341/2-A	Lab Control Spike	Water	8270C	660-7341
LCSD 660-7341/3-A	Lab Control Spike Duplicate	Water	8270C	660-7341
MB 660-7341/1-A	Method Blank	Water	8270C	660-7341
660-2069-B-1-A	TT-SW-POND-1	Water	8270C	660-7341

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

8260B Volatile Organic Compounds by GC/MS

Method Blank - Batch: 660-7437

Lab ID: MB 660-7437/2
Matrix: Water

Date Analyzed: 05/23/2005 1815
Units: ug/L

Dilution: 1.0

Analyte	Result	Qualifier	MDL	PQL
Benzene	0.27	U	0.27	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	0.66	U	0.66	1.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	0.80	U	0.80	1.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	0.64	U	0.64	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	0.74	U	0.74	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	0.40	U	0.40	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.46	U	0.46	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	0.48	U	0.48	1.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.14	U	0.14	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

8260B Volatile Organic Compounds by GC/MS

Method Blank - Batch: 660-7437

Lab ID: MB 660-7437/2
Matrix: Water

Date Analyzed: 05/23/2005 1815
Units: ug/L

Dilution: 1.0

Analyte	Result	Qualifier	MDL	PQL
Tetrachloroethene	0.34	U	0.34	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.28	U	0.28	1.0
Trichlorofluoromethane	0.98	U	0.98	1.0
1,2,3-Trichloropropane	0.15	U	0.15	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.30	U	0.30	1.0
Acetone	9.9	U	9.9	20
Methyl Ethyl Ketone	8.4	U	8.4	10
methyl isobutyl ketone	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	1.0

Laboratory Control Sample/ Control Duplicate - Batch: 660-7437

LCS Lab ID: LCS 660-7437/1
LCSD Lab ID: LCSD 660-7437/17
Matrix: Water

Date Analyzed: 05/23/2005 1736
Date Analyzed: 05/24/2005 0101

Dilution: 1.0
Dilution: 1.0

Analyte	% Recovery LCS	% Recovery LCSD	Recovery Limits	RPD	RPD Limit	Qualifier
Benzene	112	102	62 - 135	9	37	
Chlorobenzene	119	108	72 - 127	10	22	
1,1-Dichloroethene	124	114	46 - 147	9	30	
Toluene	108	101	68 - 131	6	33	
Trichloroethene	116	103	56 - 143	13	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

8260B Volatile Organic Compounds by GC/MS

Matrix Spike/Spike Duplicate - Batch: 660-7437

MS Lab ID: 1968-H-1 MS
MSD Lab ID: 1968-G-1 MSD
Matrix: Water

Date Analyzed: 05/24/2005 1450
Date Analyzed: 05/24/2005 1509

Dilution: 1.0
Dilution: 1.0

Analyte	% Recovery MS	% Recovery MSD	Recovery Limits	RPD	RPD Limit	Qualifier
Benzene	115	112	62 - 135	2	37	
Chlorobenzene	108	110	72 - 127	2	22	
1,1-Dichloroethene	131	126	46 - 147	3	30	
Toluene	102	100	68 - 131	2	33	
Trichloroethene	112	112	56 - 143	1	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

Quality Control Results

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method Blank - Batch: 660-7341

Lab ID: MB 660-7341/1-A
Matrix: Water

Date Analyzed: 05/24/2005 1203
Units: ug/L

Dilution: 1.0

Analyte	Result	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	10

Laboratory Control Sample/ Control Duplicate - Batch: 660-7341

LCS Lab ID: LCS 660-7341/2-A
LCSD Lab ID: LCSD 660-7341/3-A
Matrix: Water

Date Analyzed: 05/24/2005 1222
Date Analyzed: 05/24/2005 1242

Dilution: 1.0
Dilution: 1.0

Analyte	% Recovery LCS	% Recovery LCSD	Recovery Limits	RPD	RPD Limit	Qualifier
1,4-Dioxane	31	29	10 - 150	7	50	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Laboratory Chronicle

Client Samples:

Lab ID: 2069-1 **Client ID:** TT-SW-POND-1

Sample Date/Time: 05/20/2005 1430 Received Date/Time: 05/21/2005 1020

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Analyzed	Dilution	Lab	Analyst
P-3520C	660-2069-B-1	1	660-7341		05/23/2005 1148	1.00	TPA	BW
A-8270C	660-2069-B-1-A	1	660-7415	660-7341	05/24/2005 1302	1.00	TPA	RAM
A-8260B	660-2069-C-1	1	660-7437		05/24/2005 0316	1.00	TPA	RAM

Lab ID: 1868-1 **Client ID:** TT-SW-POND-1

Sample Date/Time: 05/20/2005 1430 Received Date/Time: 05/21/2005 1020

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Analyzed	Dilution	Lab	Analyst
A-8260B	660-1868-F-1	1	660-7437		05/23/2005 2110	1.00	TPA	RAM

Lab ID: MB **Client ID:** MB

Sample Date/Time: NA Received Date/Time: NA

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Analyzed	Dilution	Lab	Analyst
P-3520C		1	660-7341		05/23/2005 1148	1.00	TPA	BW
A-8270C		1	660-7415	660-7341	05/24/2005 1203	1.00	TPA	RAM
A-8260B		1	660-7437		05/23/2005 1815	1.00	TPA	RAM

Lab ID: MS **Client ID:** MS

Sample Date/Time: NA Received Date/Time: NA

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Analyzed	Dilution	Lab	Analyst
A-8260B		1	660-7437		05/24/2005 1450	1.00	TPA	RAM

Lab ID: MSD **Client ID:** MSD

Sample Date/Time: NA Received Date/Time: NA

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Analyzed	Dilution	Lab	Analyst
A-8260B		1	660-7437		05/24/2005 1509	1.00	TPA	RAM

Client: Tetra Tech NUS Inc

Job Number: 660-2069.1

Laboratory Chronicle

Client Samples:

Lab ID: LCS **Client ID:** LCS

Sample Date/Time: NA Received Date/Time: NA

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Analyzed	Dilution	Lab	Analyst
P-3520C		1	660-7341		05/23/2005 1148	1.00	TPA	BW
A-8270C		1	660-7415	660-7341	05/24/2005 1222	1.00	TPA	RAM
A-8260B		1	660-7437		05/23/2005 1736	1.00	TPA	RAM

Lab ID: LCSD **Client ID:** LCSD

Sample Date/Time: NA Received Date/Time: NA

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Analyzed	Dilution	Lab	Analyst
P-3520C		1	660-7341		05/23/2005 1148	1.00	TPA	BW
A-8270C		1	660-7415	660-7341	05/24/2005 1242	1.00	TPA	RAM
A-8260B		1	660-7437		05/24/2005 0101	1.00	TPA	RAM

Serial Number 20242

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

☑ STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.stl-inc.com
Phone: (813) 885-7427 660-2069
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: former American Beryllium	PROJECT NO.: N1075	PROJECT LOCATION (STATE): FL	PAGE 1 OF 1
SAMPLER'S SIGNATURE: Scott R McGuire	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM: Paul Calligan	CLIENT PHONE: 813-806-0202	CLIENT FAX: 813-806-0405	DATE DUE:
CLIENT NAME: Tetra Tech, Inc.	CLIENT E-MAIL: calliganp@ttnus.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ☑
CLIENT ADDRESS: 5421 Beaumont Center Blvd #660 Tampa, FL 33634			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260	REQUIRED ANALYSIS: 8270 1-4 DIOXANE ONLY	REMARKS
								HCl	N/A	
								40ml	liter	NUMBER OF CONTAINERS SUBMITTED
5/20/05	1430	TT-SW-[illegible]0-1	G	X				3	2	3 day TAT or Sooner
										Level 4 Deliverables

SLM

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
S. McG	5/20/05	1500						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
FED Ex	5/20/05		Charles Libby	5-21-05	1020			

LABORATORY USE ONLY 4

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	STL TAMPA LOG NO.	LABORATORY REMARKS
Charles Libby	5-21-05	1020	YES X NO	N/S	660-2069	

STL8240-660 (12/02)

USBIOSYSTEMS

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Page: Page 1 of 4
Date: 06/18/2004
Log #: L93207-1

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-1
Date Sampled: 06/11/2004
Time Sampled: 14:45
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Percent Solids							
Percent Solid	7.3	%	SM2540B	0.10	06/12	06/12	KB
Metals							
Aluminum	6100	mg/kg (dw)	3050/6010	68	06/16	06/17	WM
Antimony	BDL	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Arsenic	BDL	mg/kg (dw)	3050/6010	6.8	06/16	06/17	LL
Barium	20	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Beryllium	38	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Cadmium	BDL	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Calcium	53000	mg/kg (dw)	3050/6010	68	06/16	06/17	LL
Chromium	30	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Cobalt	BDL	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Copper	5500	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Iron	270	mg/kg (dw)	3050/6010	68	06/16	06/17	LL
Lead	57	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Magnesium	2300	mg/kg (dw)	3050/6010	68	06/16	06/17	WM
Manganese	29	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Nickel	BDL	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Potassium	BDL	mg/kg (dw)	3050/6010	680	06/16	06/17	WM
Selenium	BDL	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Silver	BDL	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Sodium	BDL	mg/kg (dw)	3050/6010	680	06/16	06/17	WM
Thallium	BDL	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Vanadium	BDL	mg/kg (dw)	3050/6010	14	06/16	06/17	LL
Zinc	930	mg/kg (dw)	3050/6010	27	06/16	06/17	LL
Mercury	0.29 I	mg/kg (dw)	7471	0.019	06/17	06/17	EB
Volatile Organic Compounds							
Acetone	2.2	mg/kg (dw)	5030/8260	0.68	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-1

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-1
Date Sampled: 06/11/2004
Time Sampled: 14:45
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds	(continued)						
Acrolein	BDL	mg/kg (dw)	5030/8260	0.34	06/17	06/17	SV
Acrylonitrile	BDL	mg/kg (dw)	5030/8260	0.34	06/17	06/17	SV
Benzene	BDL	mg/kg (dw)	5030/8260	0.027	06/17	06/17	SV
Bromobenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Bromochloromethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Bromodichloromethane	BDL	mg/kg (dw)	5030/8260	0.027	06/17	06/17	SV
Bromoform	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Bromomethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
n-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
sec-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
tert-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Carbon Disulfide	BDL	mg/kg (dw)	5030/8260	0.68	06/17	06/17	SV
Carbon Tetrachloride	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Chlorobenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Chloroethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
2-Chloroethylvinyl Ether	BDL	mg/kg (dw)	5030/8260	0.68	06/17	06/17	SV
Chloroform	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Chloromethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
2-Chlorotoluene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
4-Chlorotoluene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Dibromochloromethane	BDL	mg/kg (dw)	5030/8260	0.027	06/17	06/17	SV
1,2-Dibromo-3-Chloropropane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,2-Dibromoethane	BDL	mg/kg (dw)	5030/8260	0.027	06/17	06/17	SV
Dibromomethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,2-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,3-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,4-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Dichlorodifluoromethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,1-Dichloroethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,2-Dichloroethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,1-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
cis-1,2-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
trans-1,2-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,2-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.027	06/17	06/17	SV
1,3-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
2,2-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,1-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
cis-1,3-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.027	06/17	06/17	SV
trans-1,3-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.027	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-1

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-1
Date Sampled: 06/11/2004
Time Sampled: 14:45
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds	**(continued)**						
Ethylbenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Hexachlorobutadiene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
2-Hexanone	BDL	mg/kg (dw)	5030/8260	0.68	06/17	06/17	SV
Isopropyl Benzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
4-Isopropyl Toluene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
MEK(2-Butanone)	BDL	mg/kg (dw)	5030/8260	0.68	06/17	06/17	SV
Methylene Chloride	BDL	mg/kg (dw)	5030/8260	0.14	06/17	06/17	SV
MIBK(4-Methyl-2-Pentanone)	BDL	mg/kg (dw)	5030/8260	0.68	06/17	06/17	SV
MTBE	BDL	mg/kg (dw)	5030/8260	0.68	06/17	06/17	SV
Naphthalene	BDL	mg/kg (dw)	5030/8260	0.055	06/17	06/17	SV
n-Propylbenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Styrene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,1,1,2-Tetrachloroethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,1,2,2-Tetrachloroethane	BDL	mg/kg (dw)	5030/8260	0.014	06/17	06/17	SV
Tetrachloroethene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Toluene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Total Xylenes	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,2,3-Trichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,2,4-Trichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,1,1-Trichloroethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,1,2-Trichloroethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Trichloroethene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Trichlorofluoromethane	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,2,3-Trichloropropane	BDL	mg/kg (dw)	5030/8260	0.027	06/17	06/17	SV
1,2,4-Trimethylbenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
1,3,5-Trimethylbenzene	BDL	mg/kg (dw)	5030/8260	0.068	06/17	06/17	SV
Vinyl Acetate	BDL	mg/kg (dw)	5030/8260	0.14	06/17	06/17	SV
Vinyl Chloride	BDL	mg/kg (dw)	5030/8260	0.055	06/17	06/17	SV
Dilution Factor	1.0		5030/8260		06/17	06/17	SV
Surrogate Recoveries:							
Dibromofluoromethane	68	%	5030/8260	52-155	06/17	06/17	SV
Toluene-D8	55	%	5030/8260	46-154	06/17	06/17	SV
4-Bromofluorobenzene	40	%	5030/8260	36-138	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-1

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-1
Date Sampled: 06/11/2004
Time Sampled: 14:45
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst

Volatile Organic Compounds (continued)

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.
Flags: CFR-Pb/Cu rule; ND-non detect(RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126 DOH# E86240 NC CERT# 444
SUB DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020
SC CERT# 96031001 TN CERT# 02985
USACE GA CERT# 917
VA CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,

Steve Walton
Client Technical Svcs. Manager

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-2

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-2
Date Sampled: 06/11/2004
Time Sampled: 15:15
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Percent Solids							
Percent Solid	72	%	SM2540B	0.10	06/12	06/12	KB
Metals							
Aluminum	460	mg/kg (dw)	3050/6010	6.9	06/16	06/17	WM
Antimony	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Arsenic	BDL	mg/kg (dw)	3050/6010	0.69	06/16	06/17	WM
Barium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Beryllium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Cadmium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Calcium	530	mg/kg (dw)	3050/6010	14	06/16	06/17	WM
Chromium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Cobalt	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Copper	68	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Iron	75	mg/kg (dw)	3050/6010	6.9	06/16	06/17	WM
Lead	2.4	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Magnesium	72	mg/kg (dw)	3050/6010	6.9	06/16	06/17	WM
Magnesium	100	mg/kg (dw)	3050/6010	6.9	06/16	06/17	WM
Manganese	1.4	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Nickel	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Potassium	BDL	mg/kg (dw)	3050/6010	69	06/16	06/17	WM
Selenium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Sodium	BDL	mg/kg (dw)	3050/6010	69	06/16	06/17	WM
Thallium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Vanadium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	WM
Zinc	18	mg/kg (dw)	3050/6010	2.8	06/16	06/17	WM
Mercury	0.0035 I	mg/kg (dw)	7471	0.0019	06/17	06/17	EB
Volatile Organic Compounds							
Acetone	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-2

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-2
Date Sampled: 06/11/2004
Time Sampled: 15:15
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds	(continued)						
Acrolein	BDL	mg/kg (dw)	5030/8260	0.035	06/17	06/17	SV
Acrylonitrile	BDL	mg/kg (dw)	5030/8260	0.035	06/17	06/17	SV
Benzene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Bromobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Bromochloromethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Bromodichloromethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Bromoform	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Bromomethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
n-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
sec-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
tert-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Carbon Disulfide	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Carbon Tetrachloride	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Chlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Chloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
2-Chloroethylvinyl Ether	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Chloroform	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Chloromethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
2-Chlorotoluene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
4-Chlorotoluene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Dibromochloromethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,2-Dibromo-3-Chloropropane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2-Dibromoethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Dibromomethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,3-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,4-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Dichlorodifluoromethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1-Dichloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2-Dichloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
cis-1,2-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
trans-1,2-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,3-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
2,2-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
cis-1,3-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
trans-1,3-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-2

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-2
Date Sampled: 06/11/2004
Time Sampled: 15:15
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds (continued)							
Ethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Hexachlorobutadiene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
2-Hexanone	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Isopropyl Benzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
4-Isopropyl Toluene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
MEK(2-Butanone)	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Methylene Chloride	BDL	mg/kg (dw)	5030/8260	0.014	06/17	06/17	SV
MIBK(4-Methyl-2-Pentanone)	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
MTBE	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Naphthalene	BDL	mg/kg (dw)	5030/8260	0.0056	06/17	06/17	SV
n-Propylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Styrene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1,1,2-Tetrachloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1,2,2-Tetrachloroethane	BDL	mg/kg (dw)	5030/8260	0.0014	06/17	06/17	SV
Tetrachloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Toluene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Total Xylenes	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2,3-Trichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2,4-Trichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1,1-Trichloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1,2-Trichloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Trichloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Trichlorofluoromethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2,3-Trichloropropane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,2,4-Trimethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,3,5-Trimethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Vinyl Acetate	BDL	mg/kg (dw)	5030/8260	0.014	06/17	06/17	SV
Vinyl Chloride	BDL	mg/kg (dw)	5030/8260	0.0056	06/17	06/17	SV
Dilution Factor	1.0		5030/8260		06/17	06/17	SV
Surrogate Recoveries:							
Dibromofluoromethane	76	%	5030/8260	52-155	06/17	06/17	SV
Toluene-D8	76	%	5030/8260	46-154	06/17	06/17	SV
4-Bromofluorobenzene	79	%	5030/8260	36-138	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-2

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-2
Date Sampled: 06/11/2004
Time Sampled: 15:15
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds	**(continued)**						

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.
Flags: CFR-Pb/Cu rule; ND-non detect(RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126
SUB DOH# 86122,86109,E86048
SC CERT# 96031001
USACE
VA CERT# 00395
DOH# E86240
ADEM ID# 40850
TN CERT# 02985
GA CERT# 917
USDA Soil Permit# S-35240
NC CERT# 444
IL CERT# 200020

Respectfully submitted,

Steve Walton
Client Technical Svcs. Manager

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-3

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-3
Date Sampled: 06/11/2004
Time Sampled: 15:35
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Percent Solids							
Percent Solid	71	%	SM2540B	0.10	06/12	06/12	KB
Metals							
Aluminum	450	mg/kg (dw)	3050/6010	7.0	06/16	06/17	WM
Antimony	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Arsenic	BDL	mg/kg (dw)	3050/6010	0.70	06/16	06/17	LL
Barium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Beryllium	20	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Cadmium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Calcium	770	mg/kg (dw)	3050/6010	7.0	06/16	06/17	LL
Chromium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Cobalt	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Copper	70	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Iron	83	mg/kg (dw)	3050/6010	7.0	06/16	06/17	LL
Lead	2.1	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Magnesium	70	mg/kg (dw)	3050/6010	7.0	06/16	06/17	WM
Manganese	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Nickel	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Potassium	BDL	mg/kg (dw)	3050/6010	70	06/16	06/17	WM
Selenium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Silver	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Sodium	BDL	mg/kg (dw)	3050/6010	70	06/16	06/17	WM
Thallium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Vanadium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Zinc	18	mg/kg (dw)	3050/6010	2.8	06/16	06/17	LL
Mercury	0.0045 I	mg/kg (dw)	7471	0.0020	06/17	06/17	EB
Volatile Organic Compounds							
Acetone	BDL	mg/kg (dw)	5030/8260	0.070	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-3

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-3
Date Sampled: 06/11/2004
Time Sampled: 15:35
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds	**(continued)**						
Acrolein	BDL	mg/kg (dw)	5030/8260	0.035	06/17	06/17	SV
Acrylonitrile	BDL	mg/kg (dw)	5030/8260	0.035	06/17	06/17	SV
Benzene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Bromobenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Bromochloromethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Bromodichloromethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Bromoform	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Bromomethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
n-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
sec-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
tert-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Carbon Disulfide	BDL	mg/kg (dw)	5030/8260	0.070	06/17	06/17	SV
Carbon Tetrachloride	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Chlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Chloroethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
2-Chloroethylvinyl Ether	BDL	mg/kg (dw)	5030/8260	0.070	06/17	06/17	SV
Chloroform	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Chloromethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
2-Chlorotoluene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
4-Chlorotoluene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Dibromochloromethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,2-Dibromo-3-Chloropropane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,2-Dibromoethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Dibromomethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,2-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,3-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,4-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Dichlorodifluoromethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,1-Dichloroethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,2-Dichloroethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,1-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
cis-1,2-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
trans-1,2-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,2-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,3-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
2,2-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,1-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
cis-1,3-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
trans-1,3-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-3

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-3
Date Sampled: 06/11/2004
Time Sampled: 15:35
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds	**(continued)**						
Ethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Hexachlorobutadiene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
2-Hexanone	BDL	mg/kg (dw)	5030/8260	0.070	06/17	06/17	SV
Isopropyl Benzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
4-Isopropyl Toluene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
MEK(2-Butanone)	BDL	mg/kg (dw)	5030/8260	0.070	06/17	06/17	SV
Methylene Chloride	BDL	mg/kg (dw)	5030/8260	0.014	06/17	06/17	SV
MIBK(4-Methyl-2-Pentanone)	BDL	mg/kg (dw)	5030/8260	0.070	06/17	06/17	SV
MTBE	BDL	mg/kg (dw)	5030/8260	0.070	06/17	06/17	SV
Naphthalene	BDL	mg/kg (dw)	5030/8260	0.0056	06/17	06/17	SV
n-Propylbenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Styrene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,1,1,2-Tetrachloroethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,1,2,2-Tetrachloroethane	BDL	mg/kg (dw)	5030/8260	0.0014	06/17	06/17	SV
Tetrachloroethene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Toluene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Total Xylenes	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,2,3-Trichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,2,4-Trichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,1,1-Trichloroethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,1,2-Trichloroethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Trichloroethene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Trichlorofluoromethane	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,2,3-Trichloropropane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,2,4-Trimethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
1,3,5-Trimethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0070	06/17	06/17	SV
Vinyl Acetate	BDL	mg/kg (dw)	5030/8260	0.014	06/17	06/17	SV
Vinyl Chloride	BDL	mg/kg (dw)	5030/8260	0.0056	06/17	06/17	SV
Dilution Factor	1.0		5030/8260		06/17	06/17	SV
Surrogate Recoveries:							
Dibromofluoromethane	96	%	5030/8260	52-155	06/17	06/17	SV
Toluene-D8	87	%	5030/8260	46-154	06/17	06/17	SV
4-Bromofluorobenzene	84	%	5030/8260	36-138	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-3

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-3
Date Sampled: 06/11/2004
Time Sampled: 15:35
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst

Volatile Organic Compounds (continued)

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.
Flags: CFR-Pb/Cu rule; ND-non detect(RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126 DOH# E86240 NC CERT# 444
SUB DOH# 86122,86109,E86048 ADEM ID# 40850 IL CERT# 200020
SC CERT# 96031001 TN CERT# 02985
USACE GA CERT# 917
VA CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,

Steve Walton
Client Technical Svcs. Manager

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Page: Page 1 of 4
Date: 06/18/2004
Log #: L93207-4

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-4
Date Sampled: 06/11/2004
Time Sampled: 15:55
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Percent Solids							
Percent Solid	72	%	SM2540B	0.10	06/12	06/12	KB
Metals							
Aluminum	360	mg/kg (dw)	3050/6010	6.9	06/16	06/17	WM
Antimony	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Arsenic	BDL	mg/kg (dw)	3050/6010	0.69	06/16	06/17	LL
Barium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Beryllium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Cadmium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Calcium	400	mg/kg (dw)	3050/6010	6.9	06/16	06/17	LL
Chromium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Cobalt	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Copper	58	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Iron	54	mg/kg (dw)	3050/6010	6.9	06/16	06/17	LL
Lead	1.5	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Magnesium	72	mg/kg (dw)	3050/6010	6.9	06/16	06/17	WM
Manganese	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Nickel	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Potassium	BDL	mg/kg (dw)	3050/6010	69	06/16	06/17	WM
Selenium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Silver	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Sodium	BDL	mg/kg (dw)	3050/6010	69	06/16	06/17	WM
Thallium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Vanadium	BDL	mg/kg (dw)	3050/6010	1.4	06/16	06/17	LL
Zinc	14	mg/kg (dw)	3050/6010	2.8	06/16	06/17	LL
Mercury	0.014 I	mg/kg (dw)	7471	0.0019	06/17	06/17	EB
Volatile Organic Compounds							
Acetone	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-4
Date Sampled: 06/11/2004
Time Sampled: 15:55
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds (continued)							
Acrolein	BDL	mg/kg (dw)	5030/8260	0.035	06/17	06/17	SV
Acrylonitrile	BDL	mg/kg (dw)	5030/8260	0.035	06/17	06/17	SV
Benzene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Bromobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Bromochloromethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Bromodichloromethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Bromoform	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Bromomethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
n-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
sec-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
tert-Butylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Carbon Disulfide	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Carbon Tetrachloride	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Chlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Chloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
2-Chloroethylvinyl Ether	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Chloroform	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Chloromethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
2-Chlorotoluene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
4-Chlorotoluene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Dibromochloromethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,2-Dibromo-3-Chloropropane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2-Dibromoethane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
Dibromomethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,3-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,4-Dichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Dichlorodifluoromethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1-Dichloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2-Dichloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
cis-1,2-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
trans-1,2-Dichloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,3-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
2,2-Dichloropropane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
cis-1,3-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
trans-1,3-Dichloropropene	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-4

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-4
Date Sampled: 06/11/2004
Time Sampled: 15:55
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst
Volatile Organic Compounds (continued)							
Ethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Hexachlorobutadiene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
2-Hexanone	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Isopropyl Benzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
4-Isopropyl Toluene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
MEK(2-Butanone)	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Methylene Chloride	BDL	mg/kg (dw)	5030/8260	0.014	06/17	06/17	SV
MIBK(4-Methyl-2-Pentanone)	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
MTBE	BDL	mg/kg (dw)	5030/8260	0.069	06/17	06/17	SV
Naphthalene	BDL	mg/kg (dw)	5030/8260	0.0056	06/17	06/17	SV
n-Propylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Styrene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1,1,2-Tetrachloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1,2,2-Tetrachloroethane	BDL	mg/kg (dw)	5030/8260	0.0014	06/17	06/17	SV
Tetrachloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Toluene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Total Xylenes	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2,3-Trichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2,4-Trichlorobenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1,1-Trichloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,1,2-Trichloroethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Trichloroethene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Trichlorofluoromethane	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,2,3-Trichloropropane	BDL	mg/kg (dw)	5030/8260	0.0028	06/17	06/17	SV
1,2,4-Trimethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
1,3,5-Trimethylbenzene	BDL	mg/kg (dw)	5030/8260	0.0069	06/17	06/17	SV
Vinyl Acetate	BDL	mg/kg (dw)	5030/8260	0.014	06/17	06/17	SV
Vinyl Chloride	BDL	mg/kg (dw)	5030/8260	0.0056	06/17	06/17	SV
Dilution Factor	1.0		5030/8260		06/17	06/17	SV
Surrogate Recoveries:							
Dibromofluoromethane	93	%	5030/8260	52-155	06/17	06/17	SV
Toluene-D8	84	%	5030/8260	46-154	06/17	06/17	SV
4-Bromofluorobenzene	79	%	5030/8260	36-138	06/17	06/17	SV

Client #: OLI-97-061613
Address: Tetra Tech, Inc.
401 E. Ocean Blvd.
Suite #810
Long Beach, CA 90802
Attn: Phil Skorge

Date: 06/18/2004
Log #: L93207-4

Sample Description:

Former American Beryllium Sarasota

Analytical Report: TT-SS-Pond-4
Date Sampled: 06/11/2004
Time Sampled: 15:55
Date Received: 06/12/2004
Collected By: Client

Parameter	Results	Units	Method	Reportable Limit	Extr. Date	Anly. Date	Analyst

Volatile Organic Compounds (continued)

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.
Flags: CFR-Pb/Cu rule; ND-non detect(RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

QAP# 980126
SUB DOH# 86122,86109,E86048
SC CERT# 96031001
USACE
VA CERT# 00395
DOH# E86240
ADEM ID# 40850
TN CERT# 02985
GA CERT# 917
USDA Soil Permit# S-35240
NC CERT# 444
IL CERT# 200020

Respectfully submitted,

Steve Walton
Client Technical Svcs. Manager

USBIOSYSTEMS

CHAIN OF CUSTODY RECORD

Log # 93207 T#S 01 Quote: ______ Page 1 of 1

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 2.0	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIME?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

Company Name: Tetra Tech, Inc. PO#:
Address: 401 E. Ocean Blvd, Ste. 810
City: Long Beach State: Ca Zip: 90802
Attn: Phil Skorage Fax#: 562-495-5029
Project Name: Former Amer. Beryllium Proj#: Sarasota
Sampler Name/Signature: Paul Calligan / Paul E. Calligan Phone#: 562-495-0495

LAB ANALYSIS — **RUSH**

Parameters: 8260 (Soil, AE); TAL Metals (~~RCRA 8~~) (AE)

#	Sample ID	Date	Time	Matrix Code*	#	Size	8260	TAL Metals				
1	TT-SS-Pond-1	6.12.04	1445	Sediment	1 1	8oz 4oz	X	X		①85J	①45J	
2	TT-SS-Pond-2	6.12.04	1515	"	1 1	8oz 4oz	X	X				
3	TT-SS-Pond-3	6.12.04	1535	"	1 1	8oz 4oz	X	X				
4	TT-SS-Pond-4	6.12.04	1555	"	1 1	8oz 4oz	X	X				
5												
6												
7												
8												
9												
0												

Field Filtered (Y/N)
Integrity OK (Y/N)

Matrix Codes*

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H_2O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SU	Surface Water	O	Other ______ (Please Specify)
ML	Misc. Liquid		

Pres/Codes

A. None	G. $Na_2S_2O_3$
B. HNO_3	H. $NaHSO_4$
C. H_2SO_4	I. Ice
D. NaOH	J. MCAA
E. HCL	K. Zn Acetate
F. MeOH	O. Other

REMARKS

E-Mail Results to Steve Brashero at BrasherS@ttnus.com

Note: samples were to fluid to use syringe & 40 ml vials. Used 4oz jar.

*

Y/N	Date required	Short Hold	QA/QC Report Level	COC OK	Initials
No	3-Day	Y ___ N X	None ___ 1 ___ 2 ___ 3 ___ Other ___	(Y) N	[signature]

Specific State Certification Required:

Coolers	Item	Relinquished by	Date	Time	Received by	Date	Time
	Kit	M. Madonna	6/9/04	1500	Paul E. Calligan	6/10/04	1230
		Paul E. Calligan Fed Ex # 844854229372	6/11/04	1800	[signature]	6/12/04	16:26

Bottles #

3231 N.W. 7th Avenue
Boca Raton, FL 33431
888-862-LABS
561-447-7373
888-456-4846 Fax
561-447-6136 Fax

C.O.C. # 83756

ORIGINAL

APPENDIX F

SLUG TEST CALCULATIONS

Slug Test Result Summary

Well Name	MW-74	MW-28	MW-63	MW-82	MW-92	MW-68	MW-56	MW-53	MW-59	MW-19	MW-46	MW-31
Date of Test	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/19/2005	1/20/2005	1/20/2005
Aquifer Zone	SAS	SAS	SAS	LSAS	LSAS	LSAS	IAS	IAS	IAS	IAS	IAS	IAS
Aquifer Thickness	28.29	27.77	27.87	5	5	5	30	30	30	30	30	30
Hydraulic Conductivity Slug In (ft/d)	1.27E+01	3.39E+01	8.21E+01	6.65E-01	1.54E+00	6.70E+00	2.38E-01	2.36E-01	1.64E-02	5.39E-03	1.00E-01	4.96E-04
Hydraulic Conductivity Slug Out (ft/d)	2.21E+01	4.47E+01	1.28E+02	1.16E+01	1.56E+00	1.33E+01	5.55E-01	1.26E-02	2.89E-01	2.38E-01	6.41E-03	3.30E-02
Average Hydraulic Conductivity (ft/d)	1.74E+01	3.93E+01	1.05E+02	6.11E+00	1.55E+00	1.00E+01	3.96E-01	1.24E-01	1.53E-01	1.22E-01	5.32E-02	1.67E-02
Transmissivity Slug In (ft2/d)	3.59E+02	9.41E+02	2.29E+03	3.33E+00	7.68E+00	3.35E+01	7.14E+00	7.08E+00	4.91E-01	1.62E-01	3.00E+00	1.49E-02
Transmissivity Slug Out (ft2/d)	6.26E+02	1.24E+03	3.56E+03	5.78E+01	7.80E+00	6.65E+01	1.66E+01	3.79E-01	8.67E+00	7.14E+00	1.92E-01	9.90E-01
Average Transmissivity (ft2/d)	4.93E+02	1.09E+03	2.92E+03	3.06E+01	7.74E+00	5.00E+01	1.19E+01	3.73E+00	4.58E+00	3.65E+00	1.60E+00	5.02E-01
Storativity - Slug In				9.57E-02	1.00E-01	1.00E-02	5.09E-02	1.00E-05	1.00E-01	1.00E-01	1.93E-04	2.20E-02
Storativity - Slug Out				1.00E-04	7.08E-02	1.00E-02	7.24E-03	4.00E-02	3.03E-03	4.11E-05	1.00E-01	9.43E-04

	SAS	LSAS	IAS	Deep IAS
Geometric Mean Hydraulic Conductivity (ft/d)	4.16E+01	4.56E+00	1.96E-01	4.77E-02
Geometric Mean - Transmissivity (ft^2/d)	1.18E+03	2.28E+01	5.88E+00	1.43E+00

Note: For SAS tests, transmissivity values are calculated based on conductivity and thickness values. For other tests, hydraulic conductivity values are calculated based on transmissivity and thickness values. Storativity values shown are those used in curve-matching procedure to derive transmissivity estimates and not considered precise.

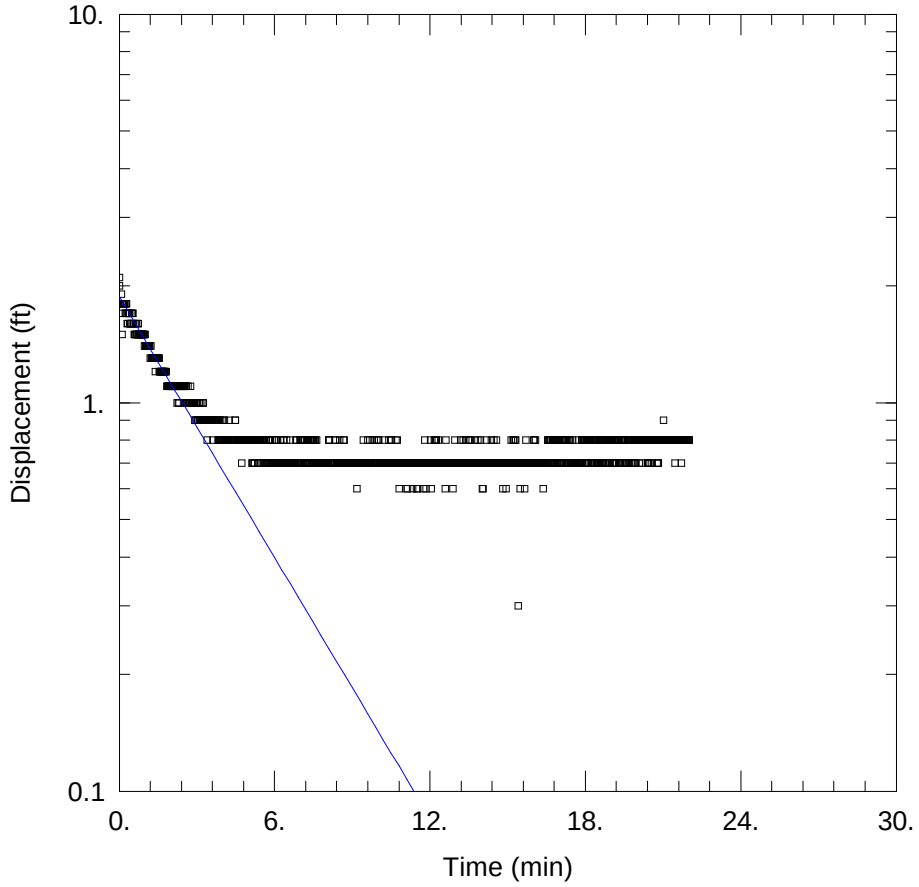
Slug Test Input Data Summary

Well Name	MW-74	MW-28	MW-63	MW-82	MW-92	MW-68	MW-56	MW-53	MW-59	MW-19	MW-46	MW-31
Aquifer Zone	SAS	SAS	SAS	LSAS	LSAS	LSAS	IAS	IAS	IAS	IAS	IAS	IAS
Top of Aquifer - ft	5	5	5	35	35	35	135	135	135	270	270	270
Bottom of Aquifer - ft	30	30	30	40	40	40	165	165	165	300	300	300
Thickness of Aquifer - ft (1)	28.29	27.77	27.87	5	5	5	30	30	30	30	30	30
Vertical/Horizontal Conductivity Ratio	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Boring Depth - ft	33	29.62	30	46	38	41	156	166	150	298	300	335
Static Water Level - ft	1.71	2.23	2.13	3.97	11.05	10.89	13.02	12.90	12.58	15.69	11.35	14.85
Screen Interval - ft	27.5/32.5	25/30	25/30	36.5/41.5	32.5/37.5	35.5/40.5	145/155	141/151	140/150	277.5/297.5	280/300	275/295
Well Screen Length -ft	5	5	5	5	5	5	10	10	10	20	20	20
Well Penetration - ft (2)	28.29	27.77	27.87	5	5	5	20	26	15	27.5	30	25
Casing Radius - ft	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
Borehole Radius - ft	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Effective Porosity - percent	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Initial Displacement Slug In - ft	2.1	2.4	2.1	2.9	2.4	3.4	3.0	3.4	2.9	2.4	2.7	2.5
Initial Displacement Slug Out - ft	2.3	2.0	1.6	2.6	1.8	2.7	3.2	2.7	2.8	2.0	2.1	2.2

(1) Based on SWL and depth to lower confining unit in SAS wells or depths of upper and lower confining units in other wells

(2) Based on SWL and bottom of well screen in SAS wells or the depth of upper confining unit and bottom of well screen in other wells

All tests were conducted on 1/20/2005.



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW74IN.AQT
Date: 07/15/05 Time: 11:40:09

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-74 SAS
Test Date: 1/20/2005

AQUIFER DATA

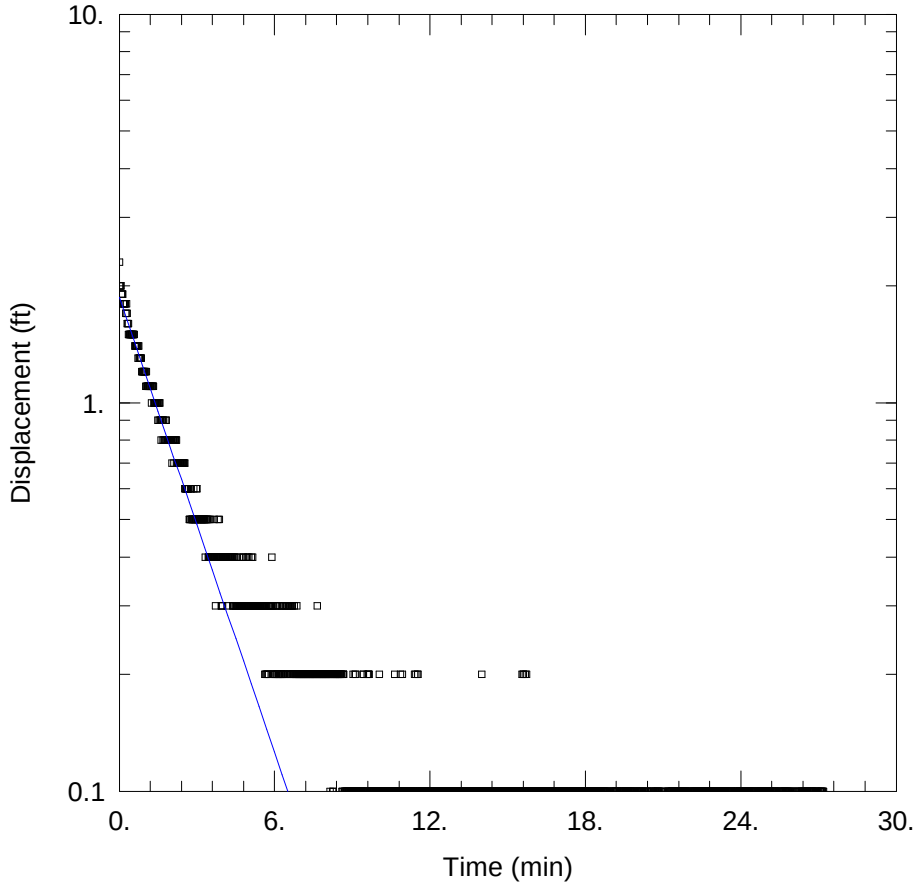
Saturated Thickness: 28.29 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-74 SAS)

Initial Displacement: 2.1 ft
Total Well Penetration Depth: 28.29 ft
Casing Radius: 0.167 ft
Static Water Column Height: 28.29 ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.008821 ft/min
y0 = 1.873 ft



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW74OU.AQT
Date: 07/15/05 Time: 11:40:33

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-74 SAS
Test Date: 1/20/05

AQUIFER DATA

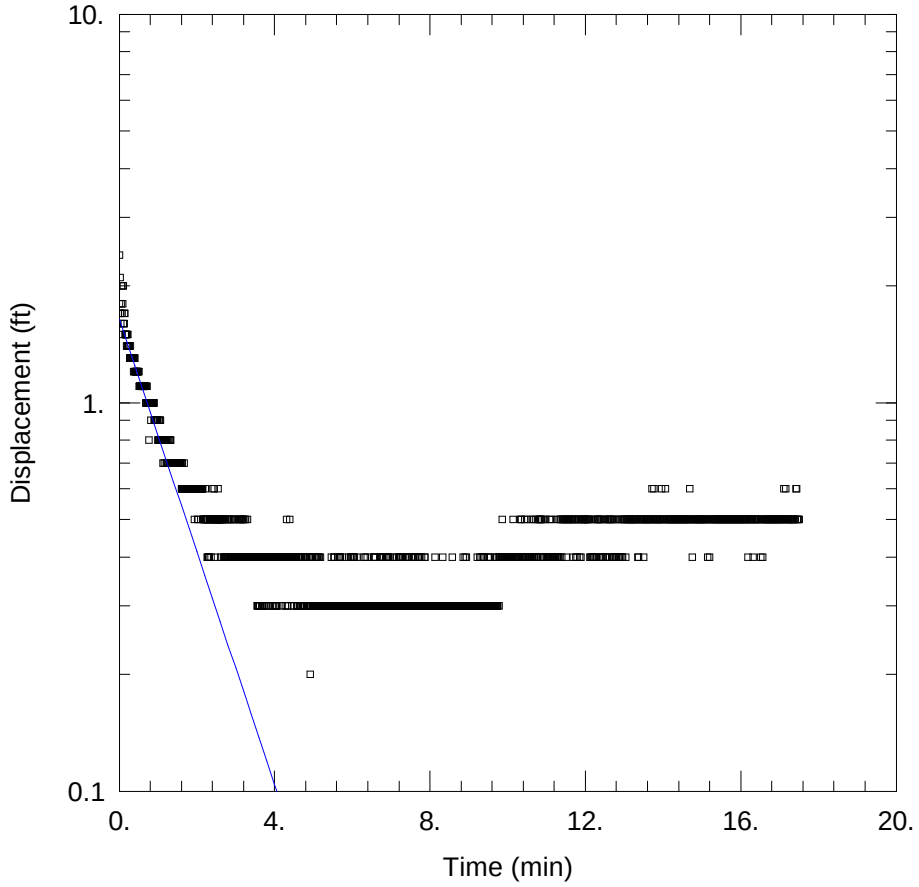
Saturated Thickness: 28.29 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-74 SAS)

Initial Displacement: 2.3 ft
Total Well Penetration Depth: 28.29 ft
Casing Radius: 0.167 ft
Static Water Column Height: 28.29 ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01537 ft/min
y0 = 1.864 ft



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW28IN.AQT
Date: 07/15/05 Time: 11:41:17

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-28 SAS
Test Date: 1/20/05

AQUIFER DATA

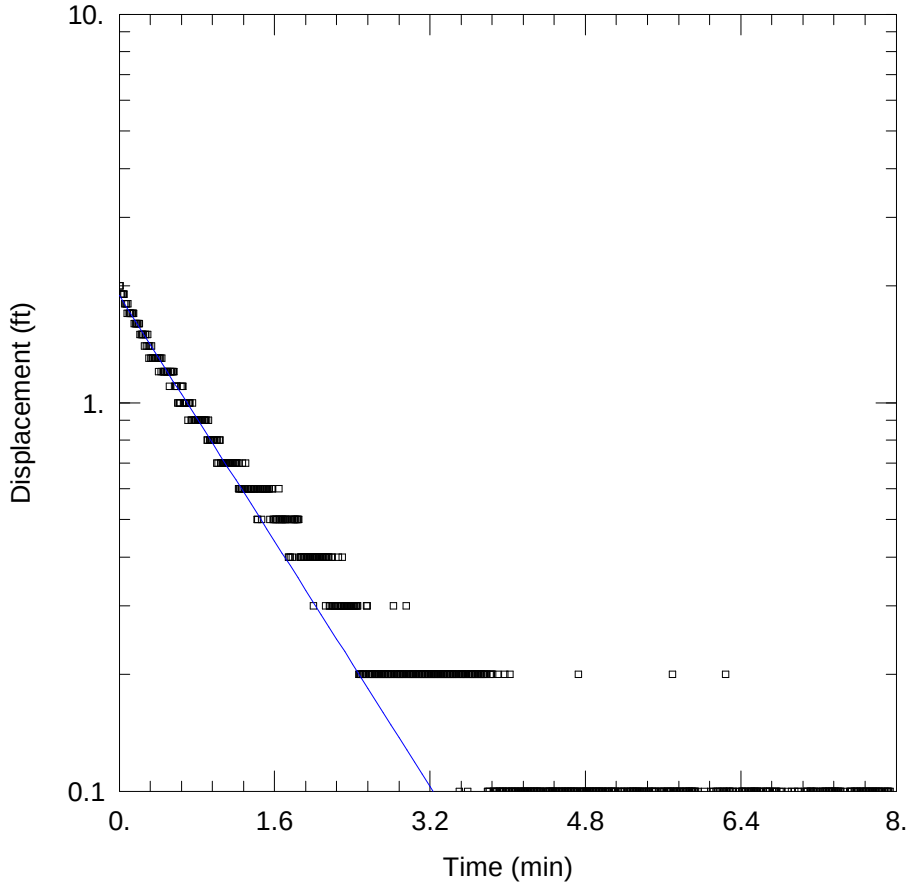
Saturated Thickness: 27.77 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-28 SAS)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 27.77 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.77 ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.02353 ft/min
y0 = 1.639 ft



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW28OU.AQT
Date: 07/15/05 Time: 11:42:08

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-28 SAS
Test Date: 1/20/05

AQUIFER DATA

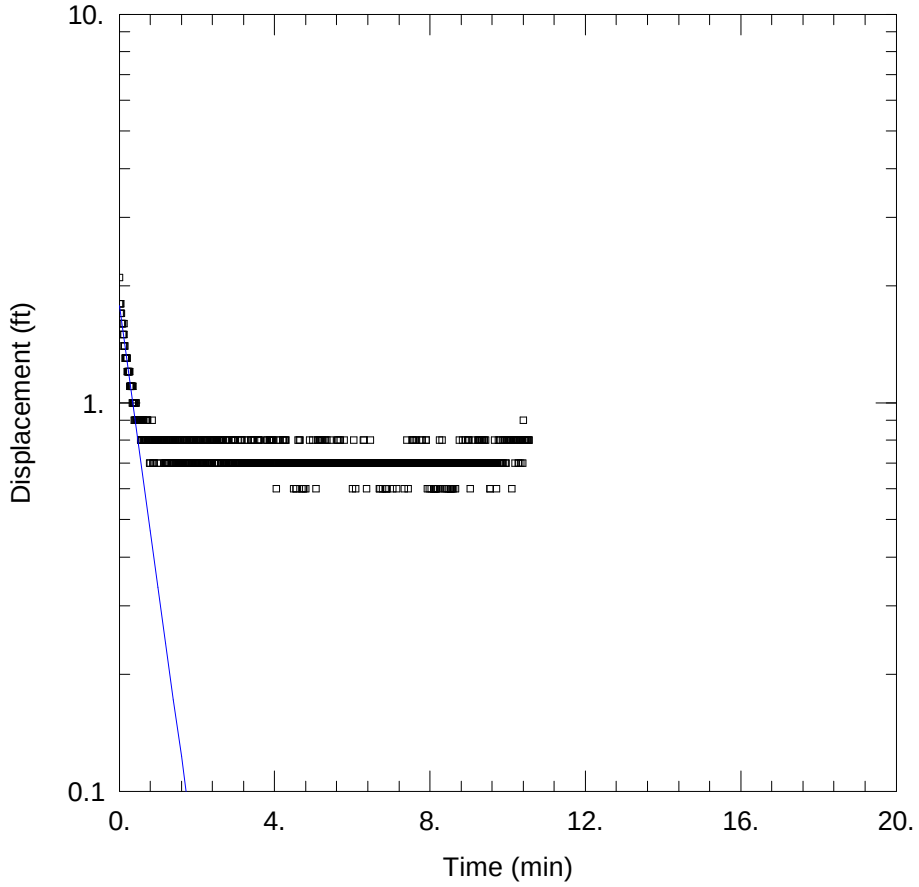
Saturated Thickness: 27.77 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-28 SAS)

Initial Displacement: 2. ft
Total Well Penetration Depth: 27.77 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.77 ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.03105 ft/min
y0 = 1.885 ft



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW63IN.AQT
Date: 07/15/05 Time: 11:43:07

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-63 SAS
Test Date: 1/20/05

AQUIFER DATA

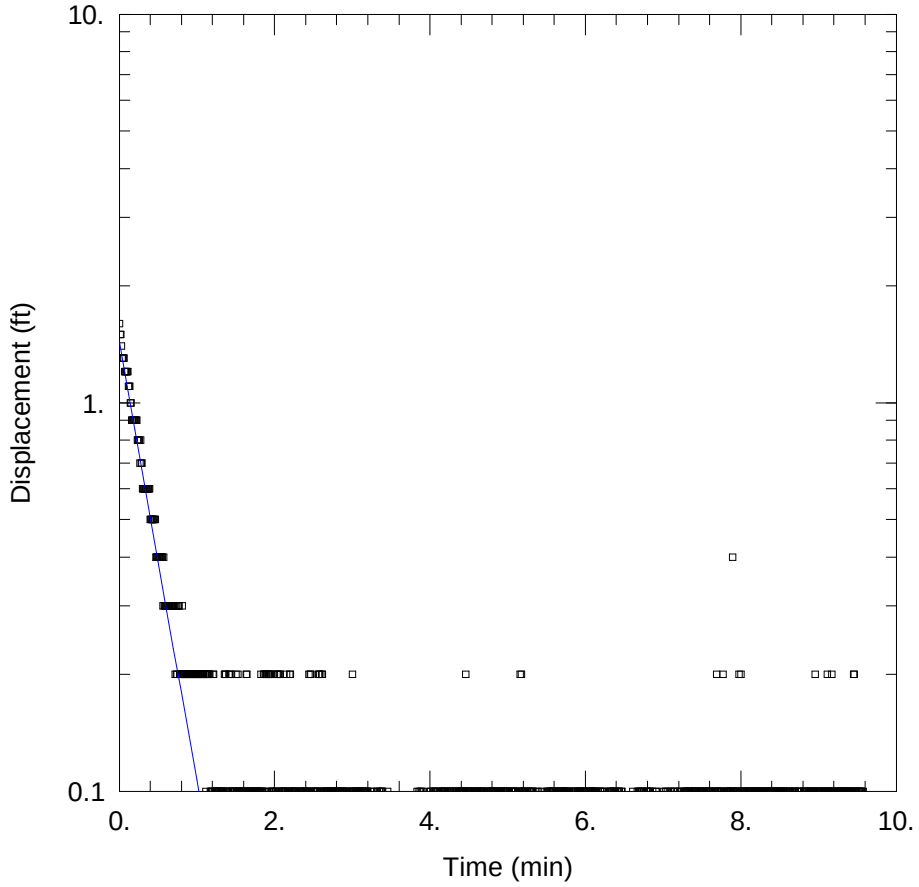
Saturated Thickness: 27.87 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-63 SAS)

Initial Displacement: 2.1 ft
Total Well Penetration Depth: 27.87 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.87 ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.05699 ft/min
y0 = 1.776 ft



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW63OU.AQT
Date: 07/15/05 Time: 11:42:40

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-63 SAS
Test Date: 1/20/05

AQUIFER DATA

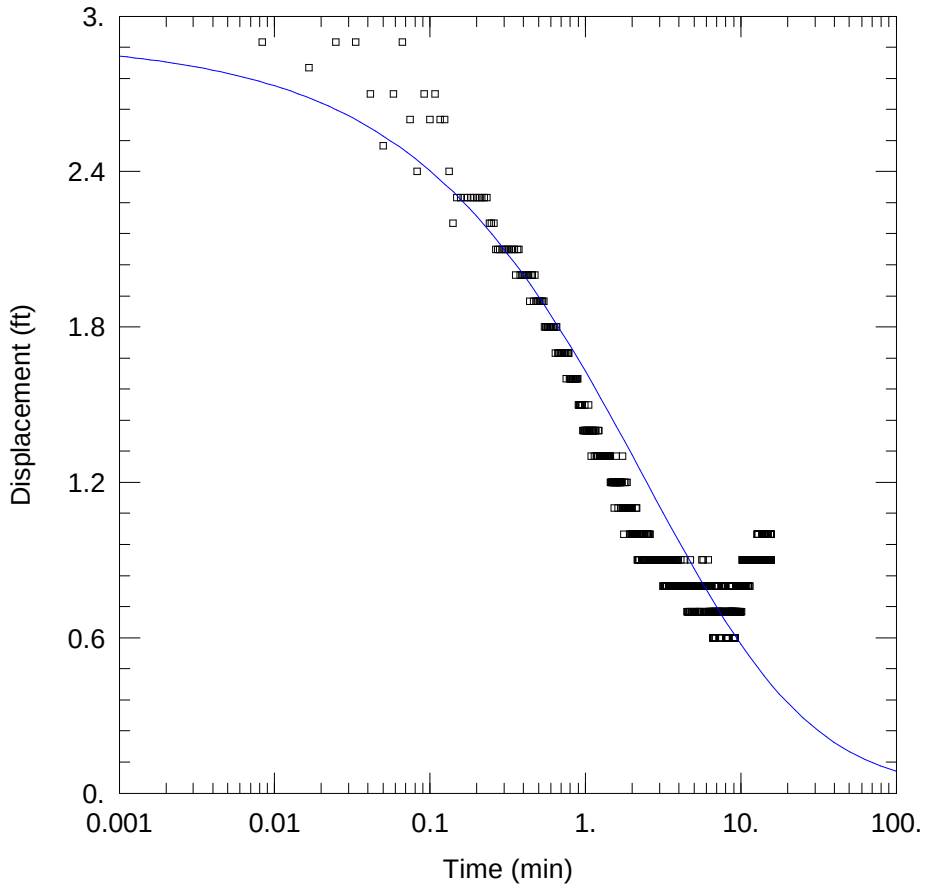
Saturated Thickness: 27.87 ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-63 SAS)

Initial Displacement: 1.6 ft
Total Well Penetration Depth: 27.87 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.87 ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.08872 ft/min
y0 = 1.431 ft



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW82INCB.AQT
Date: 07/15/05 Time: 11:49:06

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-82 LSAS
Test Date: 1/20/05

AQUIFER DATA

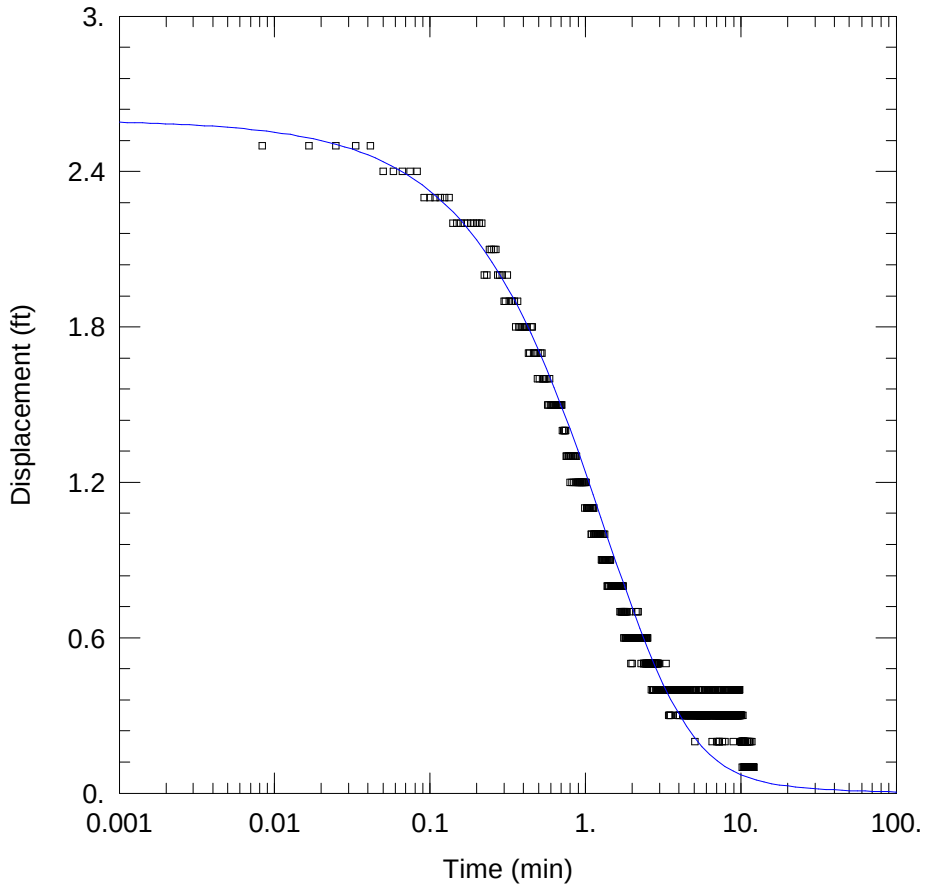
Saturated Thickness: 5. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-82 LSAS)

Initial Displacement: 2.9 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.167 ft
Static Water Column Height: 5. ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
$T = 0.00231$ ft^2/min
$S = 0.09571$



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW82OU-alt.AQT
Date: 07/15/05 Time: 11:51:51

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-82 LSAS
Test Date: 1/20/05

AQUIFER DATA

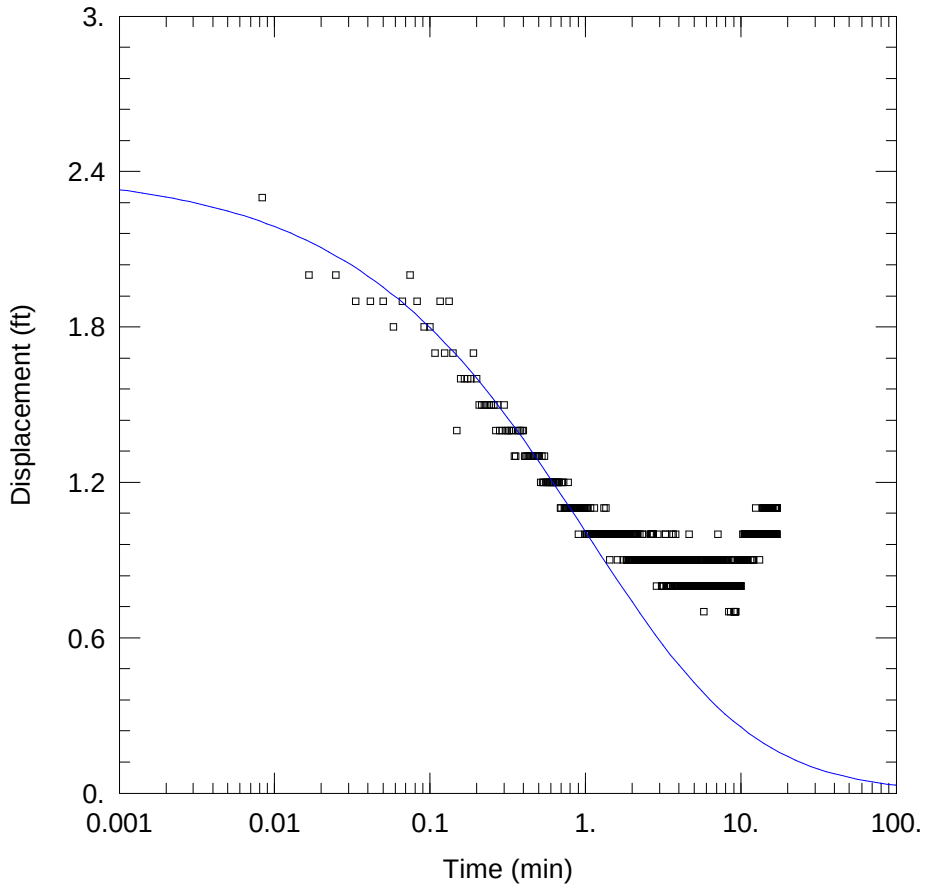
Saturated Thickness: 5. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-82 LSAS)

Initial Displacement: 2.6 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.167 ft
Static Water Column Height: 5. ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.04014 ft^2/min
S = 0.0001



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW92IN-alt.aqt
Date: 07/15/05 Time: 12:30:24

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-92 LSAS
Test Date: 1/20/05

AQUIFER DATA

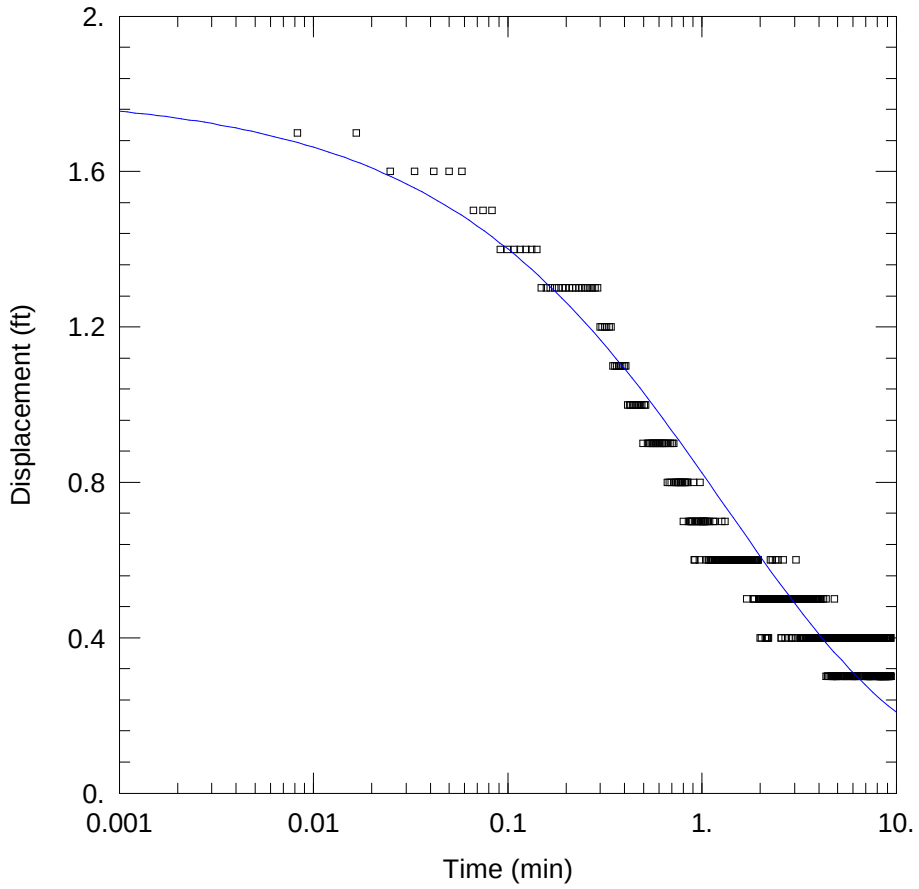
Saturated Thickness: 5. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-92 LSAS)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.167 ft
Static Water Column Height: 5. ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.005332 ft^2/min
S = 0.1



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW92OU.AQT
Date: 07/15/05 Time: 11:54:26

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-92 LSAS
Test Date: 1/20/05

AQUIFER DATA

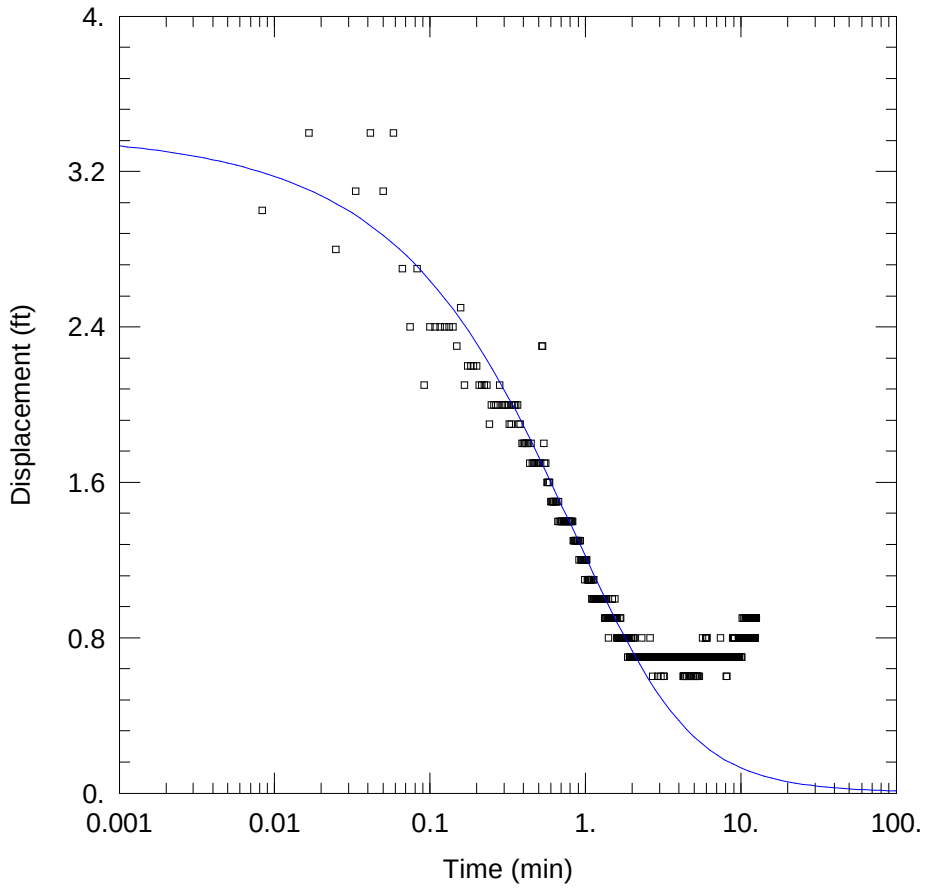
Saturated Thickness: 5. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-92 LSAS)

Initial Displacement: 1.8 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.167 ft
Static Water Column Height: 5. ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.005416 ft^2/min
S = 0.07075



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW68IN-alt.aqt
Date: 07/15/05 Time: 12:32:27

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-68 LSAS
Test Date: 1/20/05

AQUIFER DATA

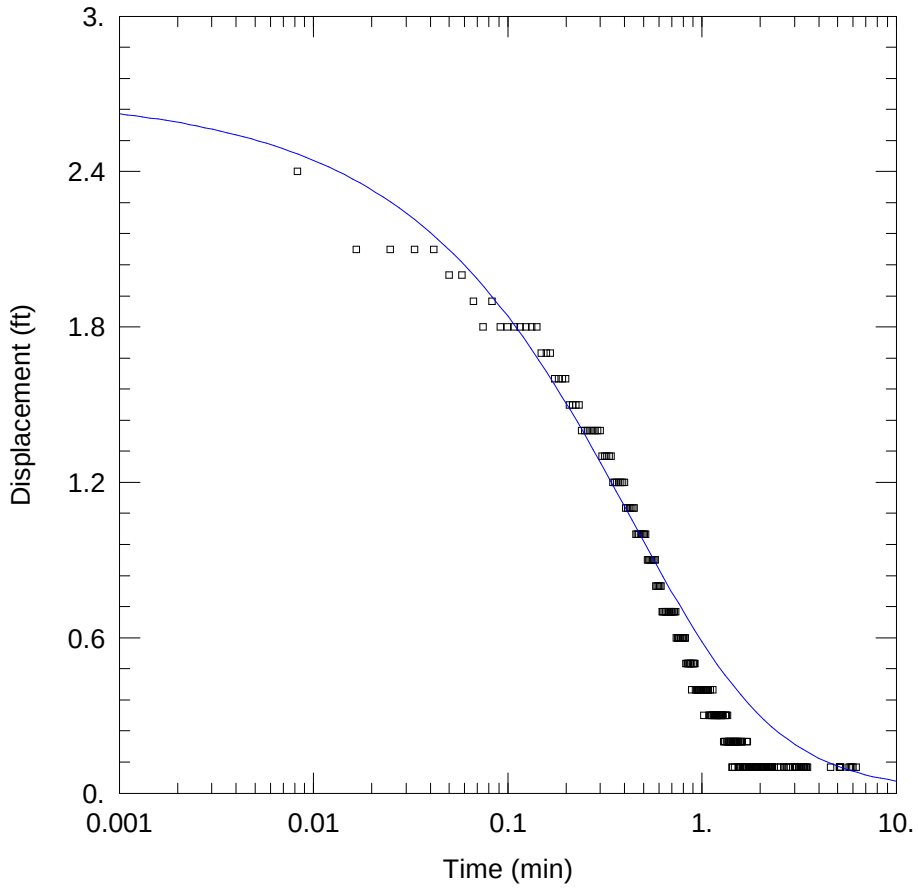
Saturated Thickness: 5. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-68 LSAS)

Initial Displacement: 3.4 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.167 ft
Static Water Column Height: 5. ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.02328 ft^2/min
S = 0.01



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW68OU-alt.aqt
Date: 07/15/05 Time: 12:36:59

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: TtNUS
Test Well: MW-68 LSAS
Test Date: 1/20/05

AQUIFER DATA

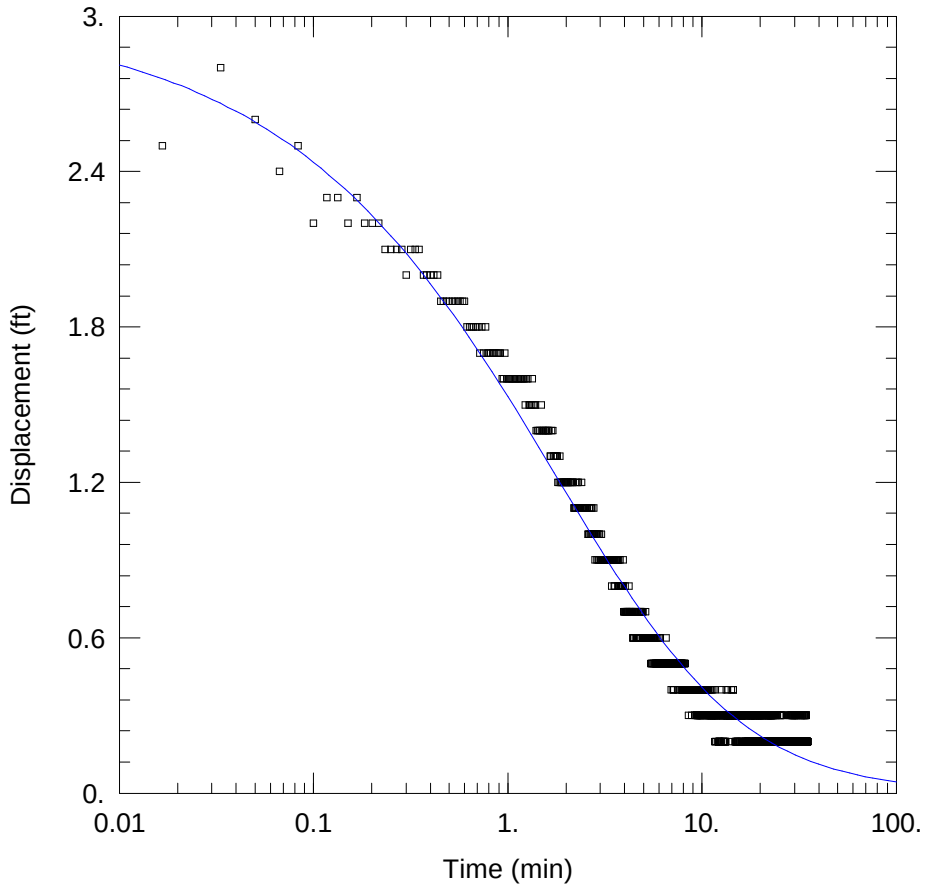
Saturated Thickness: 5. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-68 LSAS)

Initial Displacement: 2.7 ft
Total Well Penetration Depth: 5. ft
Casing Radius: 0.167 ft
Static Water Column Height: 5. ft
Screen Length: 5. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.04619 ft^2/min
S = 0.01



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW56IN.AQT
Date: 07/15/05 Time: 13:05:38

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-56 IAS
Test Date: 1/20/05

AQUIFER DATA

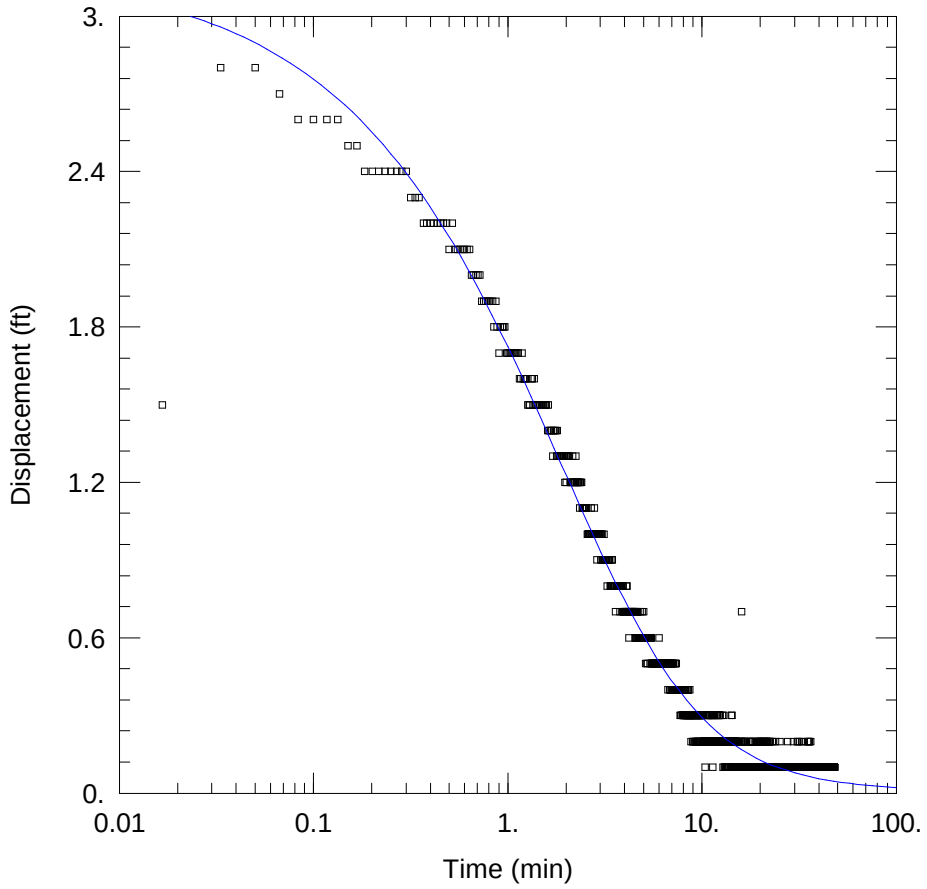
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-56 IAS)

Initial Displacement: 3. ft
Total Well Penetration Depth: 20. ft
Casing Radius: 0.167 ft
Static Water Column Height: 20. ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.004957 ft^2/min
S = 0.05094



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW56OU.AQT
Date: 07/15/05 Time: 13:21:40

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-56 IAS
Test Date: 1/20/05

AQUIFER DATA

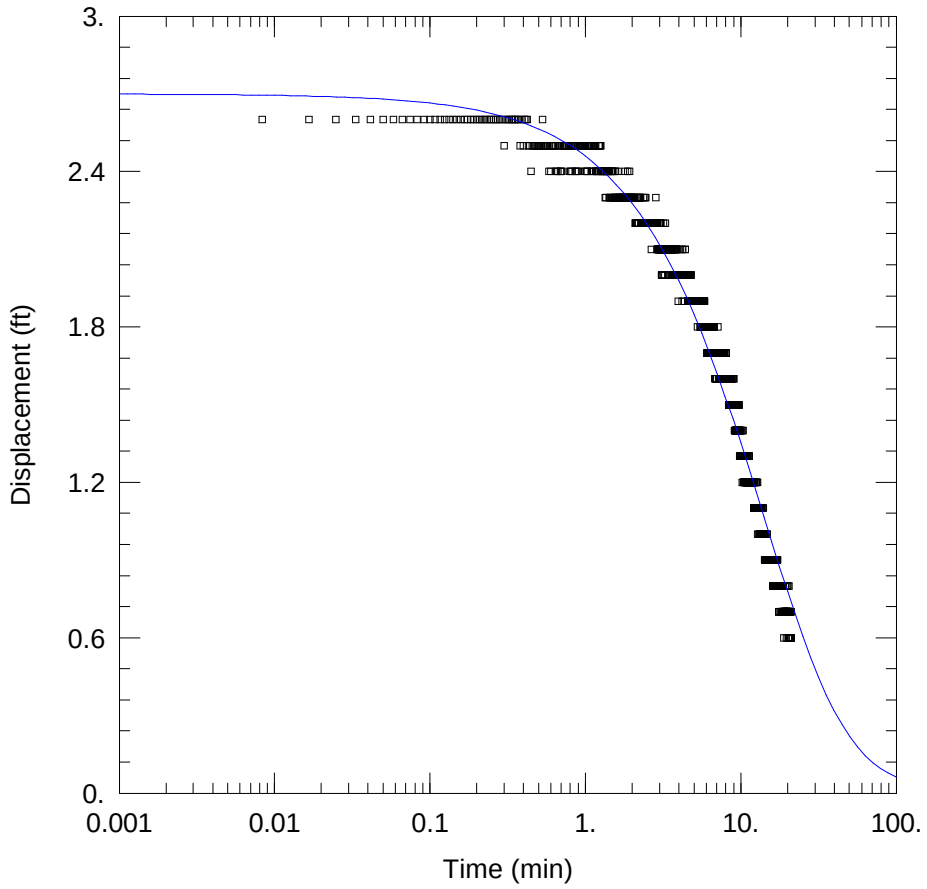
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-56 IAS)

Initial Displacement: 3.2 ft
Total Well Penetration Depth: 20. ft
Casing Radius: 0.167 ft
Static Water Column Height: 20. ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.01156 ft^2/min
S = 0.007241



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW53IN-alt.aqt
Date: 07/15/05 Time: 13:24:28

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-53 IAS
Test Date: 1/20/05

AQUIFER DATA

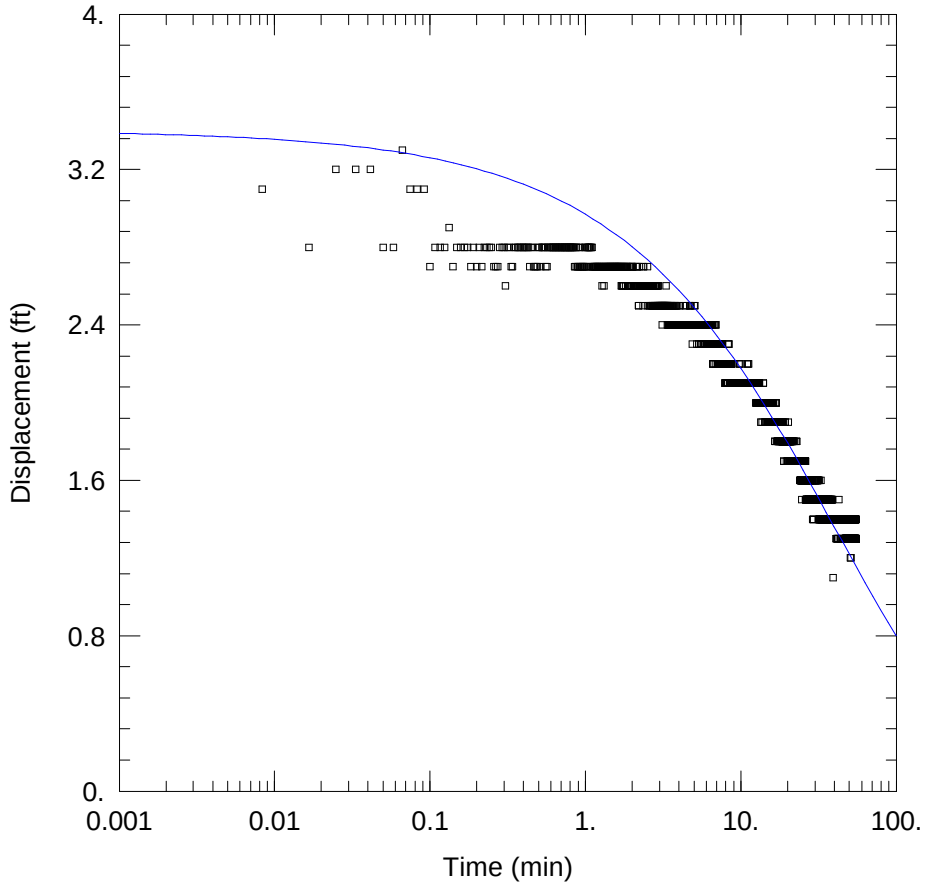
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-53 IAS)

Initial Displacement: 2.7 ft
Total Well Penetration Depth: 26. ft
Casing Radius: 0.167 ft
Static Water Column Height: 26. ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.004915 ft^2/min
S = 1.E-05



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW53OU.AQT
Date: 07/15/05 Time: 13:26:24

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-53 IAS
Test Date: 1/20/05

AQUIFER DATA

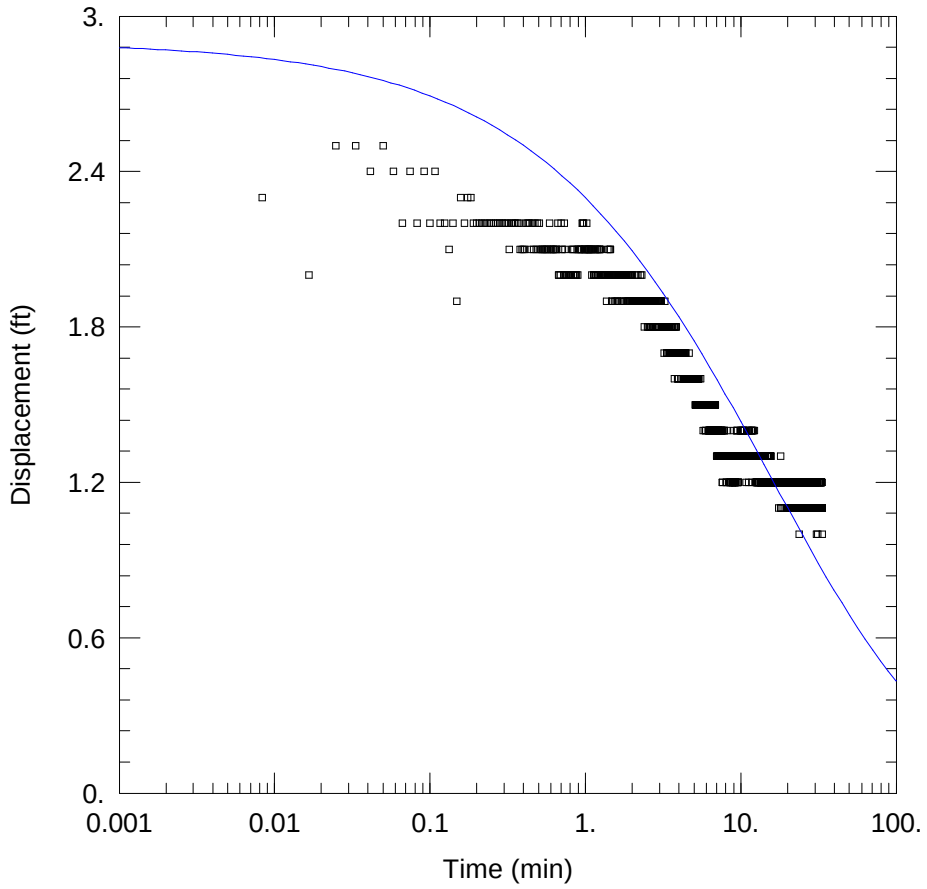
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-53 IAS)

Initial Displacement: 3.4 ft
Total Well Penetration Depth: 26. ft
Casing Radius: 0.167 ft
Static Water Column Height: 26. ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.0002632 ft^2/min
S = 0.03997



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW59IN.AQT
Date: 07/15/05 Time: 13:28:01

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-59 IAS
Test Date: 1/20/05

AQUIFER DATA

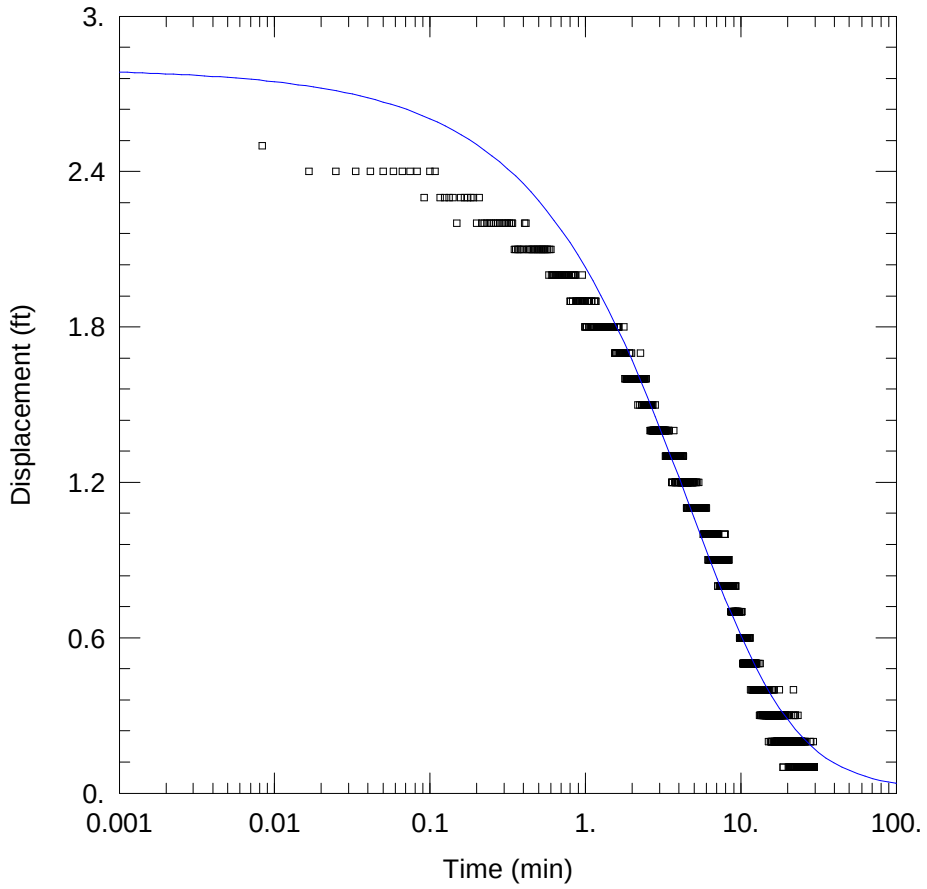
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-59 IAS)

Initial Displacement: 2.9 ft
Total Well Penetration Depth: 15. ft
Casing Radius: 0.167 ft
Static Water Column Height: 15. ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.000341 ft^2/min
S = 0.1



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW59OU.AQT
Date: 07/15/05 Time: 13:28:26

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-59 IAS
Test Date: 1/20/05

AQUIFER DATA

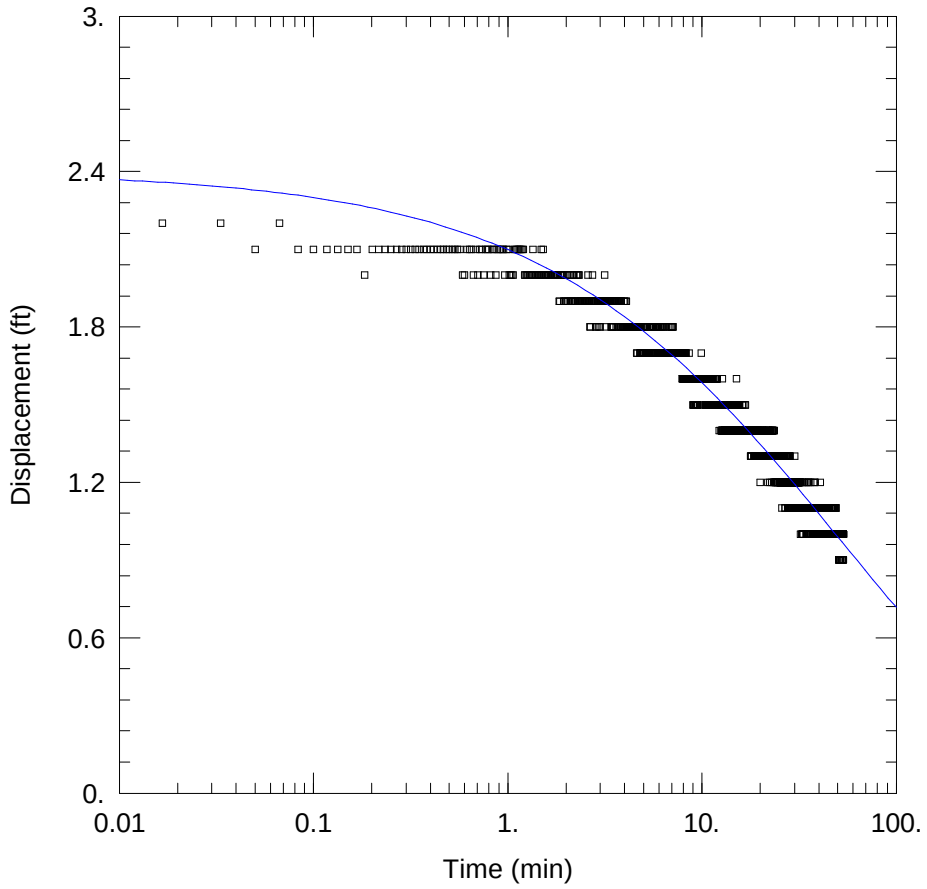
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-59 IAS)

Initial Displacement: 2.8 ft
Total Well Penetration Depth: 15. ft
Casing Radius: 0.167 ft
Static Water Column Height: 15. ft
Screen Length: 10. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.006023 ft^2/min
S = 0.003025



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW19IN-alt.aqt
Date: 07/15/05 Time: 13:30:52

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-19 IAS
Test Date: 1/19/05

AQUIFER DATA

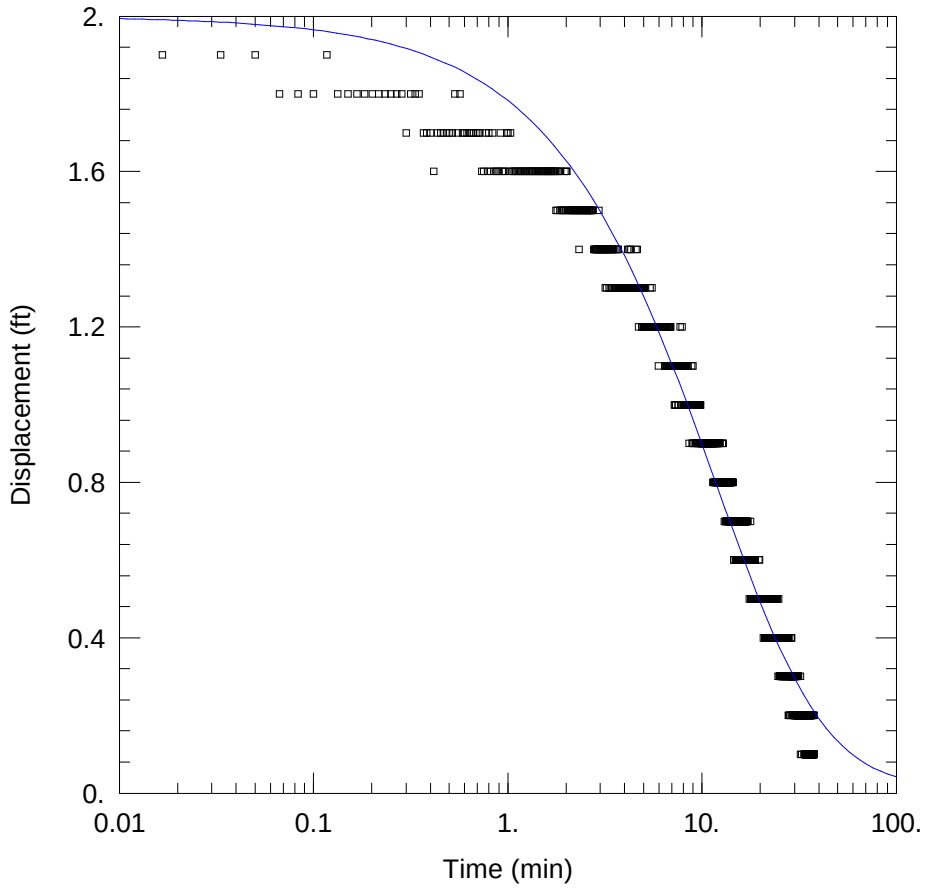
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-19 IAS)

Initial Displacement: 2.4 ft
Total Well Penetration Depth: 27.5 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.5 ft
Screen Length: 20. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.0001123 ft^2/min
S = 0.1



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW19OU-alt.aqt
Date: 07/15/05 Time: 13:31:50

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-19 IAS
Test Date: 1/19/05

AQUIFER DATA

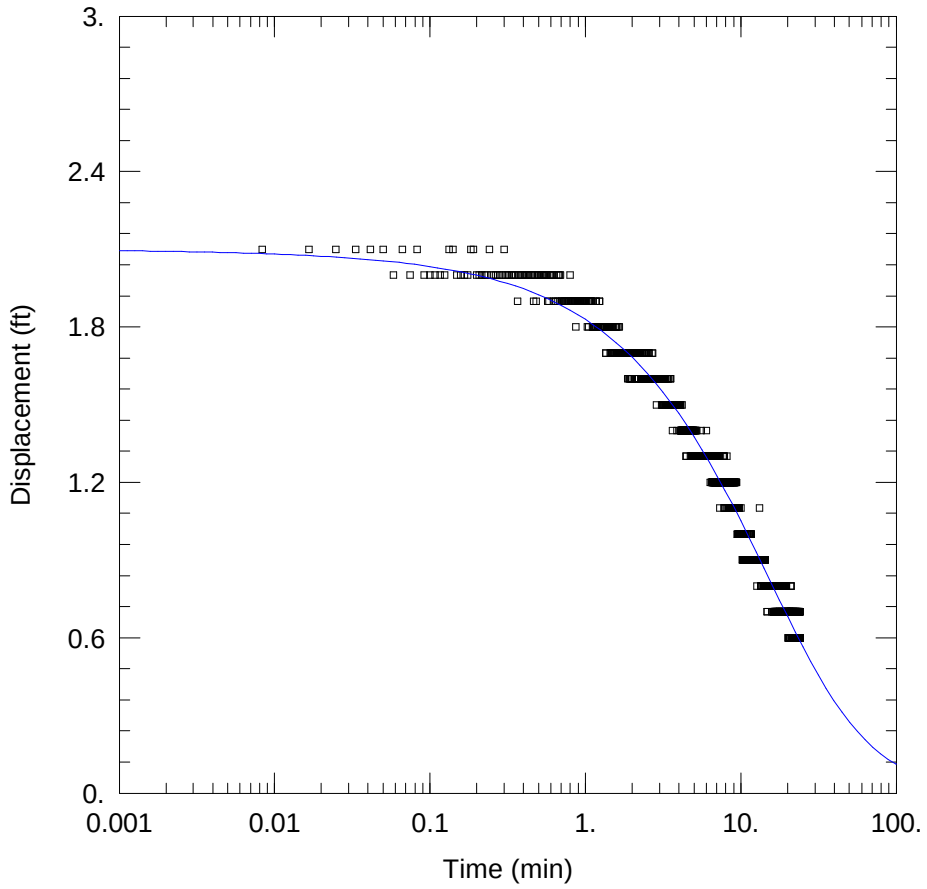
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-19 IAS)

Initial Displacement: 2. ft
Total Well Penetration Depth: 27.5 ft
Casing Radius: 0.167 ft
Static Water Column Height: 27.5 ft
Screen Length: 20. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.00496 ft^2/min
S = 4.106E-05



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW46IN.AQT
Date: 07/15/05 Time: 13:32:13

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-46 IAS
Test Date: 1/20/05

AQUIFER DATA

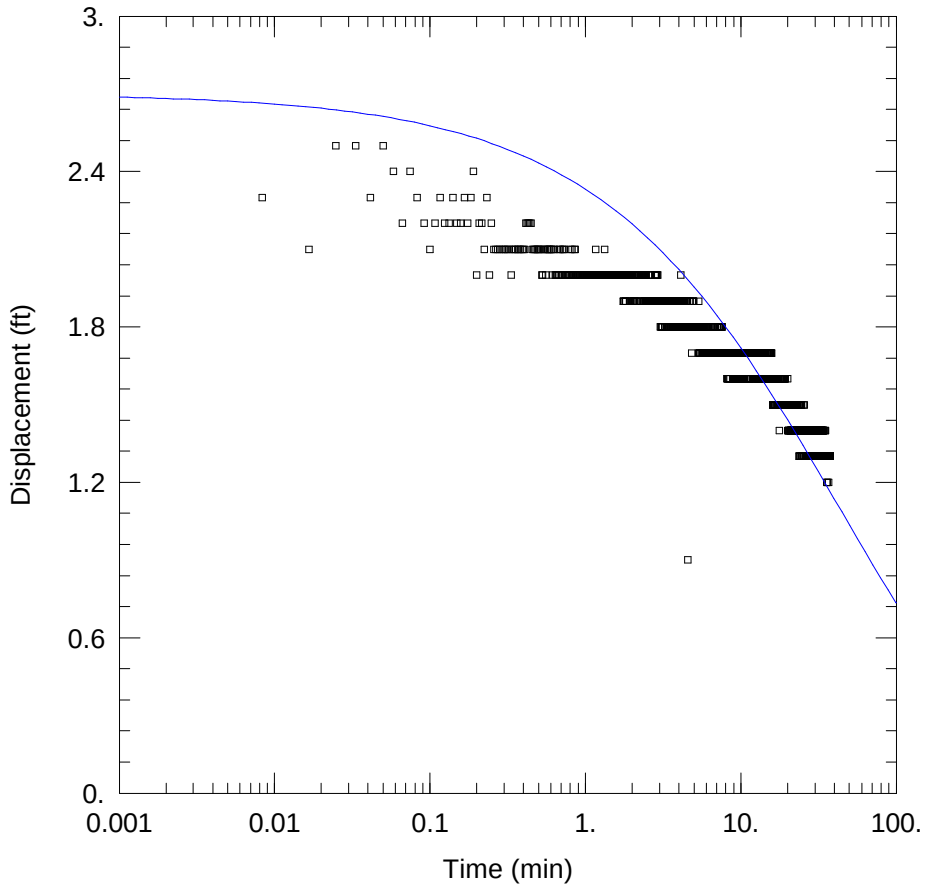
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-46 IAS)

Initial Displacement: 2.1 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.167 ft
Static Water Column Height: 30. ft
Screen Length: 20. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.002083 ft^2/min
S = 0.001929



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW46OU.AQT
Date: 07/15/05 Time: 13:32:54

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-46 IAS
Test Date: 1/20/05

AQUIFER DATA

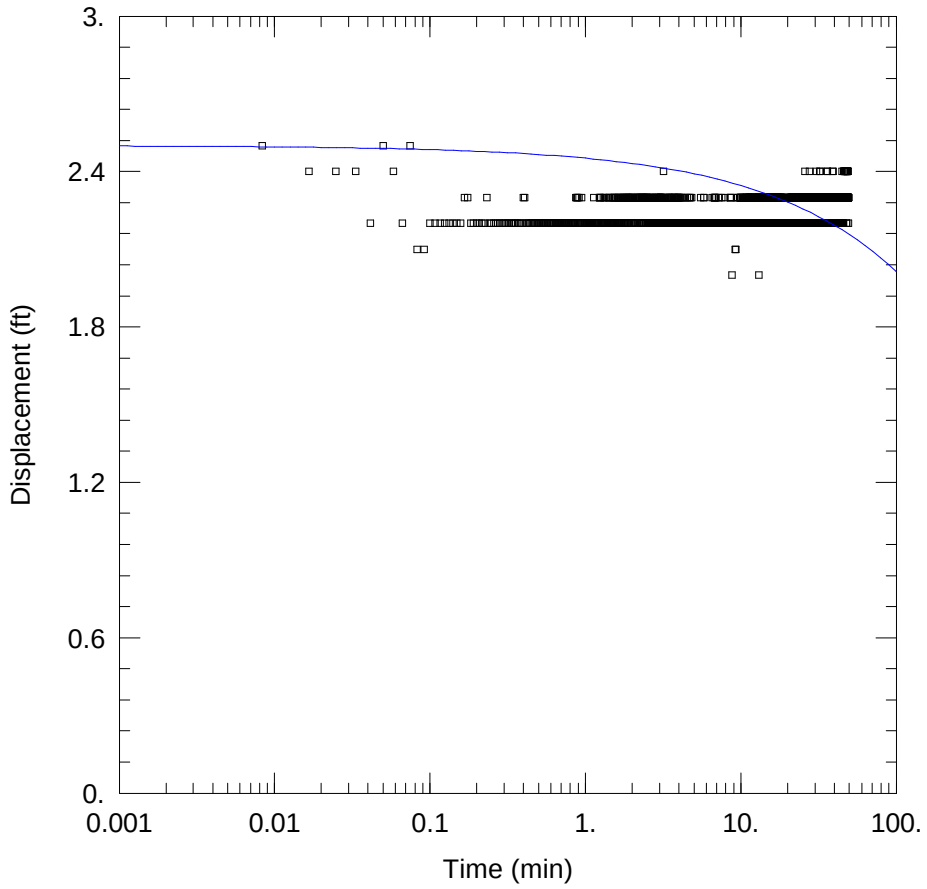
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-46 IAS)

Initial Displacement: 2.7 ft
Total Well Penetration Depth: 30. ft
Casing Radius: 0.167 ft
Static Water Column Height: 30. ft
Screen Length: 20. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.0001336 ft^2/min
S = 0.1



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW31IN.AQT
Date: 07/15/05 Time: 13:33:35

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: ABC
Test Well: MW-31 IAS
Test Date: 1/20/05

AQUIFER DATA

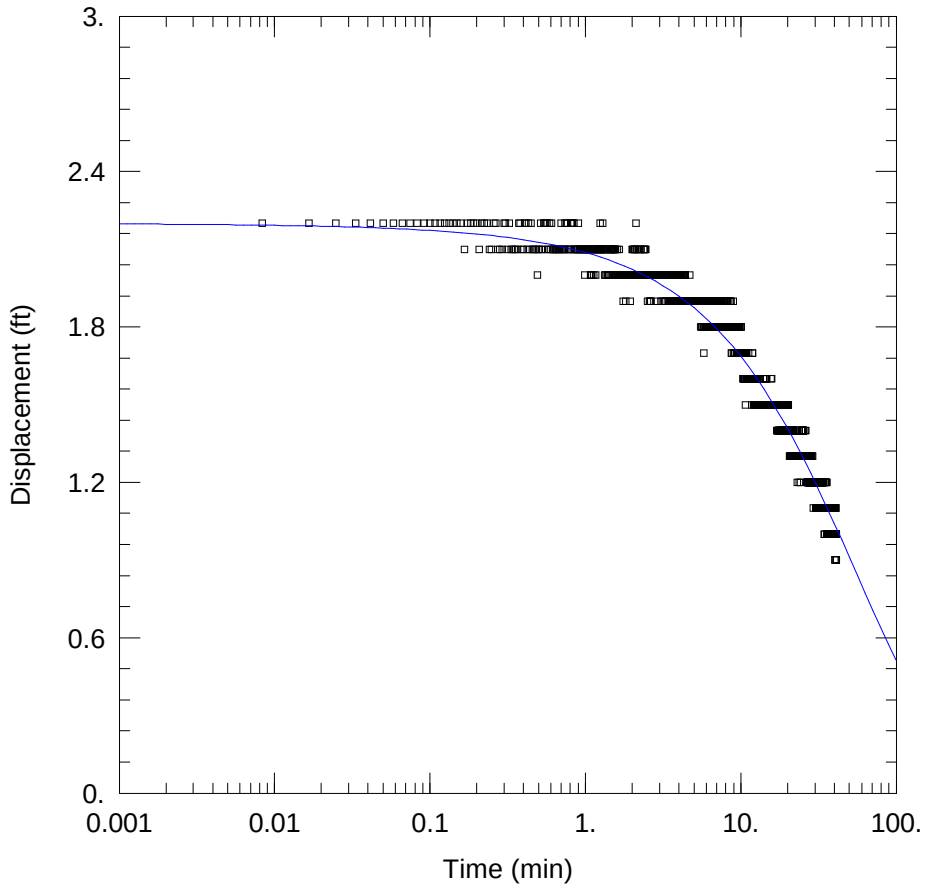
Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-31 IAS)

Initial Displacement: 2.5 ft
Total Well Penetration Depth: 25. ft
Casing Radius: 0.167 ft
Static Water Column Height: 25. ft
Screen Length: 20. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 1.033E-05 ft^2/min
S = 0.02199



WELL TEST ANALYSIS

Data Set: P:\Tallevast\Slug Tests - rmc use\MW31OU.AQT
Date: 07/15/05 Time: 13:33:52

PROJECT INFORMATION

Company: TtNUS
Client: ABC
Project: N1075
Location: TtNUS
Test Well: MW-31 IAS
Test Date: 1/20/05

AQUIFER DATA

Saturated Thickness: 30. ft
Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (MW-31 IAS)

Initial Displacement: 2.2 ft
Total Well Penetration Depth: 25. ft
Casing Radius: 0.167 ft
Static Water Column Height: 25. ft
Screen Length: 20. ft
Wellbore Radius: 0.5 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Cooper et al.
T = 0.0006873 ft^2/min
S = 0.0009429

APPENDIX G

CONTAMINANT MIGRATION CALCULATIONS

CLIENT		JOB NUMBER
Lockheed Martin, Former ABC, Sarasota, FL		TC16129
SUBJECT		
Groundwater and Contaminant Velocity Calculations		
BASED ON		DRAWING NUMBER
See Below		
BY	CHECKED BY	DATE
Gary J. Davis	P. Calligan	7-14-05

Problem: Determine the groundwater seepage velocity and contaminant velocity for the USAS, LSAS, and IAS zones at the Former ABC site.

Solution: The following formulas may be used to calculate the desired velocities.

GW Seepage Velocity, Vs = Ki/Ne

Where K = hydraulic conductivity
i = hydraulic gradient
Ne = aquifer effective porosity

Contaminant Velocity, Vc = Vs/R

Where R, coefficient of retardation = 1 + (Db)(Kd)/N

Where Db = aquifer dry bulk density
Kd = partition coefficient
N = aquifer total porosity

The above formulas are based on advection and adsorption/desorption of contaminants, but ignore the potential effects of dispersion and biodegradation.

Given: Water level measurements were used to map the potentiometric surfaces for the USAS, LSAS, and IAS zones at the Former ABC site. (see SARA Table 3-5). Based on these contour maps, the following average horizontal hydraulic gradients were determined:

Aquifer Zone	Typical Gradient
USAS	0.004
LSAS	0.006
IAS	0.00231

Packer pump tests were conducted at the site by TtNUS as part of the SAPA and site investigation activities (See SARA Table 3-4). The following hydraulic conductivity values, based on the geometric mean of the tests conducted in each aquifer depth interval, were derived from the packer pump test analyses:

Aquifer Zone	K (ft/day)
USAS	20
LSAS	0.966
IAS	0.185136

(The USAS value was from previous step-drawdown tests performed to a depth of approximately 20 feet bls. The LSAS value came from SARA Table 3-4. The IAS conductivity was calculated from the geometric mean of the geometric means for the lower 9 intervals from the SARA Table 3-4. That is from Venice Clay and Lower PRF Gravels on down.)

CLIENT		JOB NUMBER
Lockheed Martin, Former ABC, Sarasota, FL		TC16129
SUBJECT		
Groundwater and Contaminant Velocity Calculations		
BASED ON		DRAWING NUMBER
See Below		
BY	CHECKED BY	DATE
Gary J. Davis	P. Calligan	7-14-05

The total porosity and effective porosity, and the dry bulk density of the aquifer formation at the Former ABC site have not been determined by site specific testing or analyses of samples. Therefore, the following literature values for fine and medium sand (Wiedemeier, et al, 1996), which are the predominant aquifer materials for the USAS at the Former ABC site, were used for the velocity calculations:

Parameter (USAS)	Range	Value Used
Total Porosity	0.26 – 0.53	0.30
Effective Porosity	0.1 – 0.3	0.25
Dry Bulk Density	1.37 – 1.81 g/cc	1.7 g/cc

The following literature values for limestone and dolomtite (Porosity-McWorter and Sunada, 1977; Density-Domenico and Schwartz, 1990*)* , which are the dominant aquifer materials for the LSAS and the IAS at the Former ABC site, were used for the velocity calculations:

Parameter (LSAS & IAS)	Range	Value Used
Total Porosity	0.05-0.50	0.20
Effective Porosity	0.1 – 0.36	0.14
Dry Bulk Density	1.74 – 2.79 g/cc	2.265 g/cc

The primary contaminants of concern (COCs) for transport through the aquifer at the Former ABC site are 1-4 Dioxane, 1-1 Dichloroethane, 1-1 Dichloroethene, cis-1-2 Dichloroethene, Tetrachloroethene (PCE), and Trichloroehtene (TCE). To calculate the velocity of these constituents it is necessary to determine the partition coefficient, Kd, for each. The Kd can be estimated as the octanol-water partitioning coefficient, Koc, for each constituent multiplied by the fraction of organic carbon, foc, in the aquifer. Published values (FDEP 2005) of Koc for the above constituents are as follows:

Constituent	Koc (L/kg)
1-4 Dioxane	4.15E-01
1-1 Dichloroethane	3.16E+01
1-1 Dichloroethene	5.90E+01
cis-1-2 Dichloroethene	3.55E+01
PCE	1.55E+02
TCE	1.66E+02

A site-specific concentration for foc in the aquifer at the Former ABC site has not been determined. According to the Technical Report (Development of Cleanup Target Levels (CTLs) For Chapter 62-777, F.A.C., February, 2005) prepared for the Division of Waste Management, Florida Department of Environmental Protection by the Center for Environmental & Human Toxicology, University of Florida, Gainesville, Florida a default value for foc in the aquifer of 0.006 (0.6%) may be used. It is noted that site specific values may be substituted upon approval from FDEP.

CLIENT		JOB NUMBER
Lockheed Martin, Former ABC, Sarasota, FL		TC16129
SUBJECT		
Groundwater and Contaminant Velocity Calculations		
BASED ON		DRAWING NUMBER
See Below		
BY	CHECKED BY	DATE
Gary J. Davis	P. Calligan	7-14-05

Calculations:

Groundwater Seepage Velocity, Vs:

Aquifer Zone	K (ft/day)	Gradient	Ne	Vs (ft/day)	Vs (ft/year)
USAS	20	0.004	0.25	0.32	116.8
LSAS	0.966	0.006	0.14	0.0414	15.11
IAS	0.185136	0.00231	0.14	0.0031	1.13

Contaminant Seepage Velocity, Vc:

USAS	Vs, (ft/day)	Db (g/cc)	Kd (L/kg)*	N	R	Vc (ft/day)	Vc (ft/year)
1-4 Dioxane	0.32	1.7	0.00249	0.30	1.014	0.32	116.8
1-1 Dichloroethane	0.32	1.7	0.1896	0.30	2.074	0.15	54.75
1-1 Dichloroethene	0.32	1.7	0.354	0.30	3.006	0.106	38.69
cis-1-2 Dichloroethene	0.32	1.7	0.213	0.30	2.207	0.145	52.93
PCE	0.32	1.7	0.93	0.30	6.270	0.051	18.62
TCE	0.32	1.7	0.996	0.30	6.644	0.048	17.52

* Kd = Koc X foc

LSAS	Vs, (ft/day)	Db (g/cc)	Kd (L/kg)*	N	R	Vc (ft/day)	Vc (ft/year)
1-4 Dioxane	0.0414	2.265	0.00249	0.20	1.03	0.04	14.6
1-1 Dichloroethane	0.0414	2.265	0.1896	0.20	3.15	0.01	3.65
1-1 Dichloroethene	0.0414	2.265	0.354	0.20	5.01	0.008	2.92
cis-1-2 Dichloroethene	0.0414	2.265	0.213	0.20	3.41	0.01	3.65
PCE	0.0414	2.265	0.93	0.20	11.53	0.004	1.46
TCE	0.0414	2.265	0.996	0.20	12.28	0.003	1.10

* Kd = Koc X foc

CLIENT		JOB NUMBER
Lockheed Martin, Former ABC, Sarasota, FL		TC16129
SUBJECT		
Groundwater and Contaminant Velocity Calculations		
BASED ON		DRAWING NUMBER
See Below		
BY	CHECKED BY	DATE
Gary J. Davis	P. Calligan	7-14-05

IAS	Vs, (ft/day)	Db (g/cc)	Kd (L/kg)*	N	R	Vc (ft/day)	Vc (ft/year)
1-4 Dioxane	0.0031	2.265	0.00249	0.20	1.03	0.003	1.095
1-1 Dichloroethane	0.0031	2.265	0.1896	0.20	3.15	0.001	0.365
1-1 Dichloroethene	0.0031	2.265	0.354	0.20	5.01	0.0006	0.22
cis-1-2 Dichloroethene	0.0031	2.265	0.213	0.20	3.41	0.0009	0.3285
PCE	0.0031	2.265	0.93	0.20	11.53	0.0003	0.1095
TCE	0.0031	2.265	0.996	0.20	12.28	0.0003	0.1095

* Kd = Koc X foc

APPENDIX H

GROUNDWATER SAMPLE LOGS

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-02	SAMPLE ID: TT-MW-2	DATE: 6/22/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.44	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: (only fill out if applicable) **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

= 0 gallons + (5.30 gallons/foot X feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 12:10	PURGING ENDED AT: 12:45	TOTAL VOLUME PURGED (gallons): 3.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:20	1000	1000	100	2.48	6.64	30.76	0.957	0.46	1.8	clear	none
12:25	500	1500	100	2.48	6.61	31.00	0.946	0.40	5.0	clear	none
12:30	500	2000	100	2.48	6.59	31.09	0.937	0.38	15.0	clear	none
12:35	500	2500	100	2.48	6.54	31.23	0.910	0.38	15.1	clear	none
12:40	500	3000	100	2.48	6.53	31.21	0.908	0.38	5.6	clear	none
12:45	500	3500	100	2.48	6.52	31.20	0.910	0.36	11.2	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA/TTNUS	SAMPLER(S) SIGNATURES: Gary Braganza	SAMPLING INITIATED AT: 12:50	SAMPLING ENDED AT: 13:30
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T + S.	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.52	8260	SM
	2	AG	1 liter	None	2 liters	6.52	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 3	SAMPLE ID: TT-MW- 3	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 0.95	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 25 - 132.5 feet) + 375 gallons = 507.5 ml ~~132.5 gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 0740	PURGING ENDED AT: 0805	TOTAL VOLUME PURGED (~~gallons~~ ml): 2500

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (gallons)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
0740				0.95							-
0750	1000	1000	100	1.01	6.10	27.15	0.318	1.66	0.80	clear	-95
0755	500	1500	100	1.02	6.55	27.30	0.313	1.49	0.66	clear	-102
0800	500	2000	100	1.02	6.55	27.66	0.309	1.21	0.20	clear	-109
0805	500	2500	100	1.02	6.54	27.70	0.311	0.96	0.30	clear	-106

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R McGuire	SAMPLING INITIATED AT: 0810	SAMPLING ENDED AT: 0820
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.54	8260	SM
	2	AG	1 liter	None	2 liters	6.54	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 4	SAMPLE ID: TT-MW- 4	DATE: 6/22/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 2.90	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 5.30 gallons + (25 = gallons/foot X 25 feet) + 375 gallons = 507.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1035	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml/(~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1015			100	2.90						clear	
1020	500	500	100	2.93	6.46	27.63	0.318	2.25	12.0	clear	67
1025	500	1000	100	2.93	6.45	27.60	0.316	1.65	9.01	clear	71
1030	500	1500	100	2.93	6.45	27.61	0.315	1.39	6.62	clear	73
1035	500	2000	100	2.93	6.44	27.68	0.309	1.03	5.22	clear	77

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1035	SAMPLING ENDED AT: 1045
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.44	8260	SM
	2	AG	1 liter	None	2 liters	6.44	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 4	SAMPLE ID: TT-MW- 4	DATE: 7/15/05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 1.66	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (20 feet – 1.66 = 18.34 feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 ~~gallons~~ ml/foot X 20 = 106 feet) + 375 = 481 ml ~~gallons~~ = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1035	PURGING ENDED AT: 1055	TOTAL VOLUME PURGED ~~(gallons)~~: 2000 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1035				1.66							
1040	500	500	100	1.72	6.50	29.69	0.289	1.52	1.02	clear	102
1045	500	1000	100	1.72	6.47	29.40	0.277	0.38	0.81	clear	91
1050	500	1500	100	1.72	6.46	29.35	0.271	0.12	0.45	clear	74
1055	500	2000	100	1.72	6.45	29.33	0.266	0.07	0.31	clear	39

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1110
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	Hcl	120 ml	6.45	8260	SM
	2	AG	1 Liter	None	1000 ml	6.45	8270 1-4 Dioxane	VT

REMARKS: Only 8270 Collected

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 5	SAMPLE ID: TT-MW- 5	DATE: 6 23 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 3.79	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (10.0 feet – 3.79 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 12 feet) + 3.75 gallons = 4.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0640	PURGING ENDED AT: 0710	TOTAL VOLUME PURGED (gallons): 3.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0650	1.0L	1.0L	100/min	3.82	6.56	25.26	.38	.53	11	clear	none
0655	.5	1.5L	"	3.82	6.75	25.24	.39	.78	6.8	"	"
0700	.5	2.0L	"	3.82	6.78	25.24	.39	.74	6.4	"	"
0705	.5	3.0L	"	3.82	6.77	25.24	.39	.73	6.2	"	"
0710	.5	3.5L	"	3.82	6.77	25.24	.39	.72	6.1	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SS HMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0717	SAMPLING ENDED AT: 0730
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.71	8260	SM
VT	2	AG	1 liter	None	2 liters	6.77	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 6	SAMPLE ID: TT-MW- 6	DATE: 6 23 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 3.64	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (10.0 feet – 3.64 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (530 gallons/foot X 12 feet) + 375 gallons = 440 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0735	PURGING ENDED AT: 0805	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0745	1.0L	1.0L	1qt/min	3.64	6.74	24.97	.45	.65	8.7	Clear	none
0750	.5L	1.5L	"	3.64	6.77	24.98	.45	.58	8.8	"	"
0755	.5L	2.0L	"	3.64	6.78	25.00	.45	.54	6.6	"	"
0800	.5L	2.5L	"	3.64	6.75	25.01	.45	.54	6.4	"	"
0805	.5	3.0L	"	3.64	6.78	25.00	.45	.55	6.3	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTHWS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0810	SAMPLING ENDED AT: 0837
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.78	8260	SM
VT	2	AG	1 liter	None	2 liters	6.76	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 7S	SAMPLE ID: TT-MW- 7S	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 2.5	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~5.30~~ gallons + (5.30 gallons/foot X 10 feet) + ~~375~~ gallons = 390.3 ~~gallons~~ ml

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0730	PURGING ENDED AT: 0750	TOTAL VOLUME PURGED (gallons): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0730			100	2.50							
0735	500	500	100	2.52	5.45	25.73	1.50	0.53	40	clear	-2
0740	500	1000	100	2.52	5.47	25.75	1.51	0.34	21.2	clear	-10
0745	500	1500	100	2.52	5.49	25.75	1.50	0.19	16.6	clear	-16
0750	500	2000	100	2.52	5.49	25.80	1.50	0.12	8.66	clear	-19

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 0755	SAMPLING ENDED AT: 0810
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.49	8260	SM
	2	AG	1 liter	None	2 liters	5.49	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-7D	SAMPLE ID: TT-MW- 7D	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 2.23	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 25 feet) + 375 gallons = 507.5 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.5	PURGING INITIATED AT: 0655	PURGING ENDED AT: 0715	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml/(~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0655			100	2.23							
0700	500	500	100	2.36	5.04	24.78	1.47	3.24	3.30	clear	166
0705	500	1000	100	2.36	4.96	24.69	1.46	2.52	2.96	clear	145
0710	500	1500	100	2.36	4.91	24.62	1.46	2.16	1.47	clear	95
0715	500	2000	100	2.36	4.90	24.60	1.45	1.99	0.71	clear	86

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 0710	SAMPLING ENDED AT: 0720
PUMP OR TUBING DEPTH IN WELL (feet): 15.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	4.90	8260	SM
	2	AG	1 liter	None	2 liters	4.90	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 85	SAMPLE ID: TT-MW- 85	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 1.30	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 10 feet) + 375 gallons = 390.5 ~~gallons~~ ml

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0835	PURGING ENDED AT: 0855	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0835				1.30							
0840	500	500	100	1.35	6.20	25.28	1.41	1.45	0.30	clear	-48
0845	~~1000~~500	1000	100	1.35	6.16	25.22	1.42	1.26	0.16	clear	-50
0850	500	1500	100	1.35	6.15	25.25	1.43	1.06	0.19	clear	-52
0855	500	2000	100	1.35	6.12	25.21	1.51	0.87	0.02	clear	-58

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 0900	SAMPLING ENDED AT: 0915
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.12	8260	SM
	2	AG	1 liter	None	2 liters	6.12	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 8D	SAMPLE ID: TT-MW- 8D	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 1.31	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 25 feet) + 375 gallons = 507.5 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 0930	PURGING ENDED AT: 0950	TOTAL VOLUME PURGED (~~gallons~~ ml): 2000

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0930			100			~~24.88~~					~~339~~
0935	500	500	100	1.31	4.71	24.88	1.51	0.00	2.30	clear	139
0940	500	1000	100	1.31	4.73	24.69	1.51	0.55	1.62	clear	164
0945	500	1500	100	1.31	4.73	24.53	1.52	0.49	1.11	clear	167
0950	500	2000	100	1.31	4.71	24.56	1.51	0.43	0.89	clear	164

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: S Cott R. McGuire	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	4.71	8260	SM
	2	AG	1 liter	None	2 liters	4.71	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 95	SAMPLE ID: TT-MW- 95	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 1.29	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 10 feet) + 375 gallons = 390.3 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0950	PURGING ENDED AT: 1010	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0950			100	1.29							
0955	500	500	100	1.31	6.23	28.51	0.205	2.62	7.80	clear	-70
1000	500	1000	100	1.31	6.43	28.53	.0206	0.49	5.42	clear	-101
1005	500	1500	100	1.31	6.45	28.54	0.210	0.37	3.21	clear	-106
1010	500	2000	100	1.31	6.46	28.56	0.213	0.32	2.99	clear	-111

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1025
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.46	8260	SM
	2	AG	1 liter	None	2 liters	6.46	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 9D	SAMPLE ID: TT-MW- 9D	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 1.28	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 507.5 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 25 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 0905	PURGING ENDED AT: 0925	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0905			100	1.28							
0910	500	500	100	1.40	4.46	27.28	0.576	1.45	11.2	clear	135
0915	500	1000	100	1.40	4.46	27.39	0.642	0.27	8.1	clear	112
0920	500	1500	100	1.40	4.46	27.37	0.646	0.29	4.91	clear	108
0925	500	2000	100	1.40	4.40	27.41	0.645	0.21	2.10	clear	102

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: ~~0905~~ 0930	SAMPLING ENDED AT: 0940
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	4.40	8260	SM
	2	AG	1 liter	None	2 liters	4.40	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 10	SAMPLE ID: TT-MW- 10	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 2.09	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = 507.5 ml ~~gallons~~

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 25 feet) + 375 gallons = 507.5 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1545	PURGING ENDED AT: 1605	TOTAL VOLUME PURGED (~~gallons~~ ml): 2000

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1545			100	2.09							
1550	500	500	100	2.21	6.44	29.31	0.241	0.81	2.0	clear	-9
1555	500	1000	100	2.21	6.47	29.25	0.241	0.79	1.82	clear	-12
1600	500	1500	100	2.21	6.53	29.24	0.240	0.70	0.96	clear	-25
1605	500	2000	100	2.21	6.59	29.42	0.240	0.64	0.02	clear	-31

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1610	SAMPLING ENDED AT: 1625
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.59	8260	SM
	2	AG	1 liter	None	2 liters	6.59	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 11	SAMPLE ID: TT-MW- 11	DATE: 6/22/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 3.15	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: (only fill out if applicable) **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

= gallons + (0.30 gallons/foot X 25 feet) + 357 gallons = 507.5 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 0910	PURGING ENDED AT: 0935	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0910			100	3.15							
0915	500	500	100	3.20	5.62	27.33	1.35	2.53	11.2	clear	-147
0920	500	1000	100	3.20	5.33	27.24	1.34	1.85	6.80	clear	-129
0925	500	1500	100	3.20	5.28	27.21	1.34	1.44	4.21	clear	-116
0930	500	2000	100	3.20	5.12	27.19	1.33	1.26	0.96	clear	-102

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT: 1000
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.12	8260	SM
	2	AG	1 liter	None	2 liters	5.12	8270 1-4 Dioxane	PP

REMARKS: Duplicate collected TT-Dup-10

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-11	SAMPLE ID: TT-MW-11	DATE: 7/15/05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 2.18	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (feet – 5.30 feet) X 25 gallons/foot = 375 ~~gallons~~ 5075 ml

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1140	PURGING ENDED AT: 1200	TOTAL VOLUME PURGED (~~gallons~~): 2000ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1140			100	2.18							
1145	500	500	100	2.27	4.71	29.10	0.755	0.60	1.60	clear	-58
1150	500	1000	100	2.27	4.70	28.86	0.743	0.16	1.09	clear	-64
1155	500	1500	100	2.27	4.70	28.79	0.741	0.02	0.61	clear	-67
1200	500	2000	100	2.27	4.70	28.76	0.746	0.00	0.22	clear	-69

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: L. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: L. McGuire	SAMPLING INITIATED AT: 1200	SAMPLING ENDED AT: 1210
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	Hcl	120 ml	4.70	8260	SM
	2	AG	1 Liter	None	1000 ml	4.70	8270 1-4 Dioxane	VT

REMARKS: Only 8270 collected

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 12	SAMPLE ID: TT-MW- 12	DATE: 6/22/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 2.54	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.30 ml/foot X 25 feet) + 375 ml gallons = ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 9:40	PURGING ENDED AT: 10:20	TOTAL VOLUME PURGED (gallons): ~~ml~~ 4.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:55	1500	1500	100	2.59	5.23	30.40	0.90	0.92	11.4	clear	none
10:00	500	2000	100	2.59	5.16	30.26	0.90	0.50	12.2	clear	none
10:05	500	2500	100	2.62	5.14	30.40	0.90	0.43	8.0	clear	none
10:10	500	3000	100	2.62	5.15	30.25	0.90	0.37	15.6	clear	none
10:15	500	3500	100	2.62	5.15	30.24	0.90	0.36	15.0	clear	none
10:20	500	4000	100	2.62	5.14	30.23	0.90	0.35	17.8	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA / TTNUS	SAMPLER(S) SIGNATURES: Gary Braganza	SAMPLING INITIATED AT: 10:25	SAMPLING ENDED AT: 11:10
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T + S.	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.14	8260	SM
	2	AG	1 liter	None	2 liters	5.14	8270 1-4 Dioxane	PP

REMARKS: TT-~~DUP~~ DUP 08 - Duplicate sample.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 13.5	SAMPLE ID: TT-MW- 135	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 1.33	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (10 feet – 1.33 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.530 gallons/foot X 12.5 feet) + .375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0755	PURGING ENDED AT: 0820	TOTAL VOLUME PURGED (gallons): 3L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0800	1L	1L	100/min	1.48	6.90	28.21	.56	.84	.8	Clear	none
0805	.5L	1.5L	"	1.50	6.89	28.10	.56	.63	.6	"	"
0810	.5L	2.0L	"	"	6.88	28.11	.56	.52	.6	"	"
0815	.5L	2.5L	"	"	6.88	28.10	.56	.49	.6	"	"
0820	.5L	3.0L	"	"	6.88	28.11	.56	.49	.65	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HMUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0825	SAMPLING ENDED AT: 0840
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.88	8260	SM
VT	2	AG	1 liter	None	2 liters	6.88	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 13D	SAMPLE ID: TT-MW- 13D	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 1.50	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (20. feet – 1.50 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 225 feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 0846	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 32L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0857	1.2L	1.2L	10-/min	1.91	6.13	27.18	.14	.44	5.2	Clear	none
0902	.5L	1.7L	"	"	6.13	27.21	.14	.43	4.0	"	"
0907	.5L	2.2L	"	"	6.14	27.24	.15	.42	3.3	"	"
0912	.5L	2.7L	"	"	6.13	27.24	.14	.42	3.1	"	"
0917	.5L	3.2L	"	"	6.13	27.24	.14	.41	3.0	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HNU	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0933
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.13	8260	SM
VT	2	AG	1 liter	None	2 liters	6.13	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- ~~40~~ 145	SAMPLE ID: TT-MW- ~~40~~ 145	DATE: 6 2005

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 1.89	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (10.0 feet – 1.89 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.3 gallons/foot X 12 feet) + 375 gallons = 440 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0530	PURGING ENDED AT: 0550	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0540	1L	1L	1 l/min	1.9+	6.70	28.77	.43	.72	4.9	Grey	None
0545	.5L	1.5L	"	"	6.70	28.78	.43	.68	4.4	"	"
0550	.5L	2L	"	"	6.70	28.78	.43	.67	4.1	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HMW	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0555	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.70	8260	SM
VT	2	AG	1 liter	None	2 liters	6.70	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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375
5-25 ft ml

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 145	SAMPLE ID: TT-MW- 145D	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): .79	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (20.2 feet – .79 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~gallons~~ + (5.30 ~~gallons~~/foot X 22.5 feet) + 375 gallons = 30L gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 0640	PURGING ENDED AT: 0710	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0650	1L	1L	1L/min	.88	6.15	26.89	.25	.64	3.6	Clear	None
0655	.5L	1.5L	"	.89	6.16	26.75	.25	.57	2.6	"	"
0700	.5L	2L	"	.88	6.21	26.69	.26	.57	2.4	"	"
0705	.5L	2.5L	"	.88	6.21	26.68	~~.26~~ .26	.56	2.4	"	"
0710	.5L	3.0L	"	.88	6.22	26.64	.26	.56	2.3	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTHUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0715	SAMPLING ENDED AT: 0730
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
~~SM~~ SM	3	CG	40 ml	HCL	120 ml	6.22	8260	SM
VT	2	AG	1 liter	None	2 liters	6.22	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME:	Former ABC	SITE LOCATION:	Talavast
WELL NO:	Time 15S	SAMPLE ID:	Time 15S
DATE:	6 2005		

PURGING DATA

WELL DIAMETER (inches):	2.0	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	5 feet to 10 feet	STATIC DEPTH TO WATER (feet):	2.02	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (10 feet – 2.02 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 12 feet) + 375 gallons = 446 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	7.5	PURGING INITIATED AT:	1205	PURGING ENDED AT:	1230	TOTAL VOLUME PURGED (gallons):	2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1215	1.0L	1.0L	0.2 gpm	2.14	6.66	25.62	.30	.74	7.5	Clear	None
1220	.5L	1.5L	"	2.13	6.69	25.57	.35	.61	7.1	"	"
1225	.5L	2L	"	2.13	6.65	25.59	.38	.60	6.7	"	"
1230	.5L	2.5L	"	2.13	6.69	25.56	.38	.59	6.5	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	[illegible]	SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:	1235	SAMPLING ENDED AT:	1250
PUMP OR TUBING DEPTH IN WELL (feet):	2.5	SAMPLE PUMP FLOW RATE (mL per minute):	100	TUBING MATERIAL CODE:	PP		
FIELD DECONTAMINATION: Y (N)		FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: (Y) N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
SM	3	AG	40ml	HCL	120ml	6.69	8260	SM
VT	2	AG	1L	—	2L	6.69	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former ABC	SITE LOCATION:	Tallahassee
WELL NO:	TTMW 15D	SAMPLE ID:	TTMW 15D
DATE:	6 20 05		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.0	1/4	15 feet to 20 feet	2.60	PP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (20 feet – 2.60 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 23 feet) + 375 gallons = 500 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
17.5	17.5	1320	1325	2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1310	1.0L	1.0L	1 gal/min	2.77	6.10	24.3C	.15	.54	4.5	Brown	None
1315	.5	1.5L	"	2.76	6.17	24.3C	.16	.44	4.1	"	"
1320	.5	2.0L	"	2.77	6.17	24.2C	.15	.42	2.5	"	"
1325	.5	2.5L	"	2.77	6.17	24.3C	.15	.43	2.4	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
TTMW		1330	1345

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:
17.5	100	PP

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	G6	40ml	HCL	120ml	6.17	8260	SM
VT	2	A6	1L	—	2	6.17	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 16S	SAMPLE ID: TT-MW- 16S	DATE: 6 16 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 1.55	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (10. feet – 1.55 feet) X 16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.36 gallons/foot X 10 feet) + 3.75 gallons = 40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 0935	PURGING ENDED AT: 1000	TOTAL VOLUME PURGED (gallons): 2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0945	1L	1.0L	100/	1.61	6.45	25.52	.35	.60	11	Clear	None
0950	.5L	1.5L	100/	1.61	6.44	25.58	.35	.58	6.3	"	"
0955	.5L	2.0L	100/	1.61	6.49	25.57	.35	.58	5.9	"	"
1000	.5L	2.5L	100/	1.62	6.49	25.58	.35	.57	5.1	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMJ	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: BP	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.49	8260	SM
VT	2	AG	1 liter	None	2 liters	6.49	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 16D	SAMPLE ID: TT-MW- 16D	DATE: 6 16 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 13 feet to 18 feet	STATIC DEPTH TO WATER (feet): 1.75	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (18.5 feet – 1.75 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 18.5 feet) + 3.75 gallons = 4.70 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.5	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0915	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0900	1L	1L	100/min	1.94	6.57	23.96	.40	.73	17	Clear	None
0905	.5	1.5L	"	2.01	6.52	24.00	.40	.71	17	"	"
0910	.5	2.0L	"	"	6.51	24.00	.40	.70	17	"	"
0915	.5	2.5L	"	"	6.51	29.95	.40	.70	18	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TM/L	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0930
PUMP OR TUBING DEPTH IN WELL (feet): 15.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.51	8260	SM
VT	2	AG	1 liter	None	2 liters	6.51	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 175	SAMPLE ID: TT-MW- 175	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 1.31	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 390.3 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 10 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1205	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1145			100	1.31							
1150	500	500	100	1.35	6.24	26.99	0.319	1.69	19.0	clear	-97
1155	500	1000	100	1.37	6.26	26.98	0.316	0.99	14.2	clear	-107
1200	500	1500	100	1.37	6.28	26.93	0.316	0.89	11.96	clear	-120
1205	500	2000	100	1.37	6.29	26.88	0.317	0.81	5.12	clear	-126

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1210	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.29	8260	SM
	2	AG	1 liter	None	2 liters	6.29	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 17D	SAMPLE ID: TT-MW- 17D	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 1.44	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 507.5 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 25 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1105	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1040			100	1.44							
1045	500	500	100	1.60	4.87	26.22	0.134	4.08	5.20	clear	17
1055	500	1000	100	1.60	4.84	26.08	0.129	2.41	5.01	clear	12
1100	500	1500	100	1.60	4.81	26.00	0.123	2.04	3.16	clear	4
1105	500	2000	100	1.60	4.80	26.12	0.118	1.84	2.02	clear	2

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1120
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	4.80	8260	SM
	2	AG	1 liter	None	2 liters	4.80	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 18S	SAMPLE ID: TT-MW- 18S	DATE: 6/17/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 5 feet to 10 feet	STATIC DEPTH TO WATER (feet): 1.73	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 10 feet) + 357 gallons = 390 3 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 1035	PURGING ENDED AT: 1055	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1035			100	1.73							
1040	500	500	100	1.76	5.30	26.06	0.165	1.20	2.00	clear	-60
1045	500	1000	100	1.76	5.29	26.19	0.143	0.37	1.01	clear	-67
1050	500	1500	100	1.76	5.28	26.22	0.141	0.23	0.26	clear	-71
1055	500	2000	100	1.76	5.27	26.27	0.136	0.17	0.11	clear	-77

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1115
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.27	8260	SM
	2	AG	1 liter	None	2 liters	5.27	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 18D	SAMPLE ID: TT-MW- 18D	DATE: 6/17/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 1.75	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: only fill out if applicable — **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) — **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= gallons + (5.30 gallons/foot X 25 feet) + 375 gallons = 507.5 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 0955	PURGING ENDED AT: 1015	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0955			100	1.75							
1000	500	500	100	1.95	5.00	25.40	0.237	2.59	2.70	clear	-6
1005	500	1000	100	1.95	4.99	25.38	0.238	2.22	2.16	clear	-20
1010	500	1500	100	1.95	4.98	25.35	0.242	1.91	1.82	clear	-26
1015	500	2000	100	1.95	4.97	25.45	0.245	1.77	1.02	clear	-24

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	4.97	8260	SM
	2	AG	1 liter	None	2 liters	4.97	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-~~MW~~ DW-1	SAMPLE ID: TT-~~MW~~ DW-1	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 82 feet to 92 feet	STATIC DEPTH TO WATER (feet): 12.85	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 905 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 100 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 87.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 87.0	PURGING INITIATED AT: 1025	PURGING ENDED AT: 1045	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1025			100	12.85							
1030	500	500	100	15.5	8.65	32.23	0.484	4.01	20.0	clear	-42
1035	500	1000	100	15.5	8.64	32.90	0.485	3.84	13.0	clear	-26
1040	500	1500	100	15.5	8.65	32.56	0.485	3.65	9.12	clear	-15
1045	500	2000	100	15.5	8.64	33.01	0.489	3.41	8.11	clear	-2

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1050	SAMPLING ENDED AT: 1115
PUMP OR TUBING DEPTH IN WELL (feet): 87.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	8.64	8260	SM
	2	AG	1 liter	None	2 liters	8.64	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 19	SAMPLE ID: TT-MW- 19	DATE: 6/24/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 337 feet to 352 feet	STATIC DEPTH TO WATER (feet): 16.50	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.30 gallons/foot X 305 feet) + 375 ml gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 287.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 287.5	PURGING INITIATED AT: 8:40	PURGING ENDED AT: 9:25	TOTAL VOLUME PURGED (~~gallons~~): 4500 ml

TIME	VOLUME PURGED (~~gallons~~) ml	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:00	2000	2000	100	19.12	8.55	24.03	0.90	0.46	112	cloudy	-239
9:05	500	2500	100	19.40	8.57	24.11	0.90	0.38	80.1	cloudy	-249
9:10	500	3000	100	19.53	8.56	24.15	0.90	0.34	62.8	cloudy	-257
9:15	500	3500	100	19.70	8.55	24.21	0.90	0.32	50.3	cloudy	-263
9:20	500	4000	100	19.85	8.53	24.23	0.90	0.29	44.1	slt cloudy	-270
9:25	500	4500	100	19.97	8.53	24.20	0.90	0.28	39.3	slightly cldy	-276

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA / TTNUS	SAMPLER(S) SIGNATURES: Gary Braganza	SAMPLING INITIATED AT: 9:30	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 287.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: T, S.	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml		8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Frank ABC	SITE LOCATION:	Tallahassee
WELL NO:	TTMW 20	SAMPLE ID:	TTMW 20
DATE:	6 20 06		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2-0	1/4	35 feet to 40 feet	3.77	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (40 feet – 3.77 feet) X .16 gallons/foot = 5.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 40.0 feet) + 3.75 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
37.5	37.50	1500	1525	2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1510	1.0L	1.0L	100 ml/min	4.21	6.36	25.98	.36	.60	6.7	Brown	none
1515	.5L	2.0L	"	4.17	6.37	25.5	.36	.59	6.4	"	"
1520	.5L	2.5L	"	4.14	6.36	25.4	.36	.58	6.3	"	"
1525	.5L	2.5L	"	4.17	6.36	25.5	.36	.57	6.2	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
TMS		1530	1545

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:
37.5	100	PP

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	AG	40ml	HCL	120ml	6.36	8260	SM
PP	2	AG	1L	—	2L	6.36	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 21	SAMPLE ID: TT-MW- 21	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 135 feet to 145 feet	STATIC DEPTH TO WATER (feet): 14.24	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: only fill out if applicable) **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (145.0 feet – 14.24 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

= gallons + (5.30 gallons/foot X 148 feet) + 3.75 gallons = 11.55 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 140	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 140	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1400	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
~~1345~~ 1405	1.5L	1.5	100/min	1805	7.23	25.67	.69	.57	14.0	Clear	None
1350	.5L	2.0L	"	16.40	7.25	25.62	.69	.57	10	"	"
1355	.5L	2.5L	"	16.41	7.25	25.59	.69	.58	6.6	"	"
1400	"	"	"	16.41	7.25	25.55	.66	.59	6.5	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT: 1415
PUMP OR TUBING DEPTH IN WELL (feet): 140	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
~~TTMW~~ 21	3	CG	40 ml	HCL	120 ml	7.25	8260	SM
VT	2	AG	1 liter	None	2 liters	7.25	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

PG 1

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 22	SAMPLE ID: TT-MW- 22	DATE: 6 24 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 277 feet to 297 feet	STATIC DEPTH TO WATER (feet): 15.81	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (297.0 feet – 15.81 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 300 feet) + 378 gallons = 1965 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 287.	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 287.0	PURGING INITIATED AT: 0610	PURGING ENDED AT: 0855	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0635	2.5L	2.5L	100/ac	18.85	7.76	24.70	1.11	.87	350	tu-brn	none
0640	.5L	3.0L	"	19.21	7.81	24.66	1.11	.75	450	"	"
0645	.5L	3.5L	"	19.30	7.82	24.59	1.11	.52	525	"	"
0655	1.0L	4.5L	"	19.66	7.84	24.57	1.02	.66	340	"	"
0705	1.0L	5.5L	"	20.15	7.90	24.45	.95	.59	250	"	"
0715	1.0L	6.5L	"	20.19	7.92	24.47	.96	.55	180	"	"
0725	1.0L	7.5L	"	20.21	8.01	24.48	.98	.57	120	"	"
0735	1.0L	8.5L	"	20.24	8.02	24.49	.97	.56	65	"	"
0745	1.0L	9.5L	"	20.63	8.07	24.51	.98	54	65	"	"
0755	1.0L	10.5L	"	21.01	8.10	24.56	.99	.55	65	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TNW	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0900	SAMPLING ENDED AT: 1026
PUMP OR TUBING DEPTH IN WELL (feet): 287.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	8.12	8260	SM
VT	2	AG	1 liter	None	2 liters	8.12	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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PAGE 2

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 22	SAMPLE ID: TT-MW- 22	DATE:

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0800	1.0L	11.5L	100/qt	21.93	8.11	24.57	.58	.54	65	tan-sl	none
0815	1.0L	12.5L	1.1	21.62	8.12	24.52	.59	.55	110	"	"
0825	1.0L	13.5L	1.1	12.63	8.12	24.54	.58	.55	210	"	"
0835	1.0L	14.5L	1.1	21.85	8.11	24.54	.59	.54	90	"	"
0845	1.0L	15.5L	1.1	21.84	8.12	24.57	.58	.53	45	"	"
0855	1.0L	16.5L	1.1	21.91	8.12	24.52	.56	.53	19	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml		8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 23	SAMPLE ID: TT-MW- 23	DATE: 62105

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 152 feet to 172 feet	STATIC DEPTH TO WATER (feet): 13.55	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (205 feet – 13.55 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 165 feet) + 375 gallons = 1760 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 162	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 162.	PURGING INITIATED AT: 0710	PURGING ENDED AT: 0746	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0725	1.5L	1.5L	100/min	14.38	7.39	25.04	.69	.94	15	Clear	none
0736	.5L	2.0L	"	14.41	7.46	25.01	.69	.66	10	"	"
0735	.5L	2.5L	"	14.44	7.38	25.09	.69	.59	6.6	"	"
0740	.5L	3.0L	"	14.45	7.39	25.04	.69	.54	5.9	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0745	SAMPLING ENDED AT: 0800
PUMP OR TUBING DEPTH IN WELL (feet): 162.0	SAMPLE PUMP FLOW RATE (mL per minute): 130	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	7.39	8260	SM
PP	2	AG	1 liter	None	2 liters	7.39	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-24	SAMPLE ID: TT-MW-24	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 30.5 feet to 35.5 feet	STATIC DEPTH TO WATER (feet): 3.35	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1400	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons) ml	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE ml (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1335	500	0.5	100	3.47	6.28	27.02	0.266	5.75	39	Clear	-101
1340	500	1.0	100	3.49	5.86	26.93	0.262	4.84	27	Clear	-90
1345	500	1.5	100	3.49	5.76	26.82	0.261	4.41	21	Clear	-87
1350	500	2.0	100	3.49	5.78	26.84	0.256	4.21	19	Clear	-90
1355	500	2.5	100	3.49	5.86	26.87	0.255	4.25	17	Clear	-96
1400	500	3.0	100	3.49	5.89	26.85	0.255	4.24	17	Clear	-104

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleason	SAMPLER(S) SIGNATURES: C Gleason	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT: 1420
PUMP OR TUBING DEPTH IN WELL (feet): 32	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.89	8260	SM
	2	AG	1 liter	None	2 liters	5.89	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 25	SAMPLE ID: TT-MW- 25	DATE: 6/21/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 36 feet to 43 feet	STATIC DEPTH TO WATER (feet): 2.66	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 43 feet) + 375 ml gallons = 602 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40	PURGING INITIATED AT: 0640	PURGING ENDED AT: 0710	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
0645	0.5	0.5	100	2.71	6.48	27.10	0.320	4.31	14	Clear	-78
0650	0.5	1.0	100	2.71	6.38	27.20	0.313	3.67	6.7	Clear	-79
0655	0.5	1.5	100	2.71	6.34	27.25	0.312	3.21	4.0	Clear	-71
0700	0.5	2.0	100	2.71	6.29	27.16	0.309	3.04	2.4	Clear	-70
0705	0.5	2.5	100	2.71	6.29	27.12	0.308	3.01	2.1	Clear	-70
0710	0.5	3.0	100	2.71	6.29	27.14	0.309	3.02	1.6	Clear	-73

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleeson	SAMPLER(S) SIGNATURES: C Gleeson	SAMPLING INITIATED AT: 0715	SAMPLING ENDED AT: 0735
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PE	

FIELD DECONTAMINATION: (Y) N
FIELD-FILTERED: Y (N) FILTER SIZE: _____ µm
Filtration Equipment Type: _____
DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.29	8260	SM
	2	AG	1 liter	None	2 liters	6.29	8270 1-4 Dioxane	PP

REMARKS: DUP 5

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 26	SAMPLE ID: TT-MW- 26	DATE: 6-17 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 21.5 feet to 26.5 feet	STATIC DEPTH TO WATER (feet): 22.4	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: only fill out if applicable — **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (26.5 feet – 22.5 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) — **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

= gallons + (5.30 gallons/foot X 28 feet) + 375 gallons = 535 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.0	PURGING INITIATED AT: 0930	PURGING ENDED AT: 0955	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0940	1.0L	1.0L	1 L/min	2.28	6.55	24.42	.57	.62	6.7	Clear	None
0948	.5	1.5L	"	2.29	6.54	24.40	.58	.60	6.3	"	"
0950	.5	2.0L	"	2.28	6.54	24.35	.58	.61	6.1	"	"
0955	.5	2.5L	"	2.27	6.54	24.40	.54	.62	6.1	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HDLS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet): 24.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PD	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.54	8260	SM
VT	2	AG	1 liter	None	2 liters	6.54	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 27	SAMPLE ID: TT-MW- 27	DATE: 6/17/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ~~1/4~~ 3/16	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 1.36	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 27 feet) + 375 ml ~~gallons~~ = 517 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32	PURGING INITIATED AT: 1315	PURGING ENDED AT: 1345	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1320	0.5	0.5	100	1.41	6.30	26.72	0.558	6.94	45	Clear	-52
1325	0.5	1.0	100	1.41	5.92	26.33	0.567	4.25	15	Clear	-43
1330	0.5	1.5	100	1.41	5.98	26.34	0.564	3.87	8.9	Clear	-48
1335	0.5	2.0	100	1.41	6.26	26.40	0.563	3.80	7.6	Clear	-55
1340	0.5	2.5	100	1.41	6.25	26.24	0.567	3.64	6.7	Clear	-68
1345	0.5	3.0	100	1.41	6.27	26.20	0.568	3.62	5.3	Clear	-71

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gloden	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 32	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.27	8260	SM
	2	AG	1 liter	None	2 liters	6.27	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-28	SAMPLE ID: TT-MW-28	DATE: 6/20/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ~~1/4~~ 3/16	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 2.03	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 30 feet) + 375 ml ~~gallons~~ = 533 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27	PURGING INITIATED AT: 1230	PURGING ENDED AT: 1300	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (~~gpm~~) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle ~~mg/L~~ or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ (describe)
1235	0.5	0.5	100	2.31	5.61	26.51	0.340	3.14	23	Clear	38
1240	0.5	1.0	100	2.33	5.57	26.77	0.341	2.96	19	Clear	36
1245	0.5	1.5	100	2.51	5.54	26.75	0.349	2.71	14	Clear	23
1250	0.5	2.0	100	2.51	5.57	26.58	0.349	2.53	11	Clear	20
1255	0.5	2.5	100	2.51	5.58	26.59	0.341	2.82	9.2	Clear	17
1300	0.5	3.0	100	2.51	5.60	26.60	0.343	2.67	8.7	Clear	14

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleaton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1305	SAMPLING ENDED AT: 1325
PUMP OR TUBING DEPTH IN WELL (feet): 27	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.60	8260	SM
	2	AG	1 liter	None	2 liters	5.60	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 29	SAMPLE ID: TT-MW- 29	DATE: 6/17/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 2.00	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 534 ml
(only if applicable)
= gallons + (5.30 gallons/foot X 30 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	PURGING INITIATED AT: 1215	PURGING ENDED AT: 1235	TOTAL VOLUME PURGED (gallons): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1215			100	2.00							
1220	500	500	100	2.65	6.11	25.32	0.537	1.24	8.12	clear	-64
1225	500	1000	100	2.65	6.10	25.42	0.528	0.45	4.40	clear	-77
1230	500	1500	100	2.65	6.11	25.50	0.524	0.36	2.19	clear	-80
1235	500	2000	100	2.65	6.10	25.55	0.527	0.30	1.87	clear	-83

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 27.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml		8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former ABC	SITE LOCATION:	Tallahassee
WELL NO:	TTMW 30	SAMPLE ID:	TTMW 30
DATE:	6/15/05		

PURGING DATA

WELL DIAMETER (inches):	2.0	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	23.5 feet to 28.5 feet	STATIC DEPTH TO WATER (feet):	1.34	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (28.8 feet – 1.34 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 28 feet) + 375 gallons = 525 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	25.5	PURGING INITIATED AT:	1355	PURGING ENDED AT:	1420	TOTAL VOLUME PURGED (gallons):	25L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1405	1L	1L	100/min	8.11	6.74	27.06	1.09	.61	7.3	Clear	None
1410	.5	1.5L	"	9.59	6.71	27.06	1.09	.48	6.4	"	"
1415	.5	2.0L	"	10.6L	6.71	27.06	1.09	.48	5.8	"	"
1420	.5	2.5L	"	10.13	6.71	27.05	1.09	.47	5.6	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	TTMW	SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:	1425	SAMPLING ENDED AT:	1440
PUMP OR TUBING DEPTH IN WELL (feet):	25.5	SAMPLE PUMP FLOW RATE (mL per minute):	100	TUBING MATERIAL CODE:	T		
FIELD DECONTAMINATION:	Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm		DUPLICATE: Y	(N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCL	120ml		8260	SM
VT	2	AG	1L	—	2L		8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABC	SITE LOCATION: Tt[illegible]
WELL NO: TTMW 31	SAMPLE ID: TTMW 31	DATE: 6 15 05

PURGING DATA

WELL DIAMETER (inches): 2 | TUBING DIAMETER (inches): 1/4 | WELL SCREEN INTERVAL DEPTH: 275 feet to 285 feet | STATIC DEPTH TO WATER (feet): 13.58 | PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – 335.0 feet) X 13.58 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 290 feet) + 325 gallons = 1538 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 285 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 285 | PURGING INITIATED AT: 0720 | PURGING ENDED AT: 0755 | TOTAL VOLUME PURGED (gallons): 3.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0740	2.0L	100/min	100/m	1885	7.31	24.77	.67	.46	34	Clear	None
0745	~~2.5L~~ .5	2.5L	"	1590	7.30	24.92	.66	.74	22	"	"
0750	.5	3.0L	"	1663	7.29	24.93	.66	.72	18	"	"
0755	.5	3.5L	"	1783	7.30	24.94	.66	.70	17	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTNUS | SAMPLER(S) SIGNATURES: [signature] | SAMPLING INITIATED AT: 0800 | SAMPLING ENDED AT: 0820

PUMP OR TUBING DEPTH IN WELL (feet): 285 | SAMPLE PUMP FLOW RATE (mL per minute): 100 | TUBING MATERIAL CODE: T

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm
Filtration Equipment Type: ____ | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
SM	3	CG	40ml	HCL	120ml	7.30	8260	SM
VT	2	AG	1L	—	2L	7.30	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 32	SAMPLE ID: TT-MW- 32	DATE: 6/27/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 2.91	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ~~gallons~~ ml/foot X 30 feet) + 375 ml ~~gallons~~ = 522 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27	PURGING INITIATED AT: 1395	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (~~gpm~~) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1350	0.5	0.5	100	2.93	6.14	30.12	0.676	4.86	16	Clear	-35
1355	0.5	1.0	100	2.93	5.88	30.59	0.692	3.92	14	Clear	-39
1400	0.5	1.5	100	2.93	5.85	30.62	0.699	3.33	11.4	Clear	-38
1405	0.5	2.0	100	2.93	5.80	30.83	0.705	3.11	7.5	Clear	-38
1410	0.5	2.5	100	2.93	5.86	30.80	0.710	3.10	6.0	Clear	-39
1415	0.5	3.0	100	2.93	5.80	30.83	0.711	3.11	5.1	Clear	-39

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Glaeber	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: 1530
PUMP OR TUBING DEPTH IN WELL (feet): 27	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: _____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.80	8260	SM
	2	AG	1 liter	None	2 liters	5.80	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 33	SAMPLE ID: TT-MW- 33	DATE: 6/22/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35 feet to 40 feet	STATIC DEPTH TO WATER (feet): 9.97	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 ml gallons = 613.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	PURGING INITIATED AT: 13:30	PURGING ENDED AT: 14:10	TOTAL VOLUME PURGED (gallons): 3500 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:45	1500	1500	100	10.01	6.97	28.29	1.03	0.39	1.0	clear	none
13:50	500	2000	100	10.01	6.98	28.26	1.04	0.37	1.0	clear	none
13:55	500	2500	100	10.01	6.98	28.24	1.04	0.35	1.0	clear	none
14:00	500	3000	100	10.01	6.98	28.23	1.03	0.33	1.5	clear	none
14:05	500	3500	100	10.01	6.98	28.23	1.03	0.32	3.2	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANDA / TTNUS	SAMPLER(S) SIGNATURES: Gary Braganda	SAMPLING INITIATED AT: 14:10	SAMPLING ENDED AT: 14:50
PUMP OR TUBING DEPTH IN WELL (feet): 37.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml		8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 34	SAMPLE ID: TT-MW- 34	DATE: 6 22 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 15.16	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (155.5 feet – 15.16 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.20 gallons/foot X 155 feet) + 375 gallons = 1200 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150.	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150.	PURGING INITIATED AT: 0740	PURGING ENDED AT: 0810	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0755	1.5L	1.5L	100/min	15.65	2.15	24.19	.74	.95	5.6	Clear	none
0800	.5L	2.0L	"	"	2.15	24.19	.76	.69	4.9	"	"
0805	.5L	2.5L	"	"	2.15	24.19	.74	.65	4.6	"	"
0810	.5L	3.0L	"	"	2.15	24.19	.74	.64	4.2		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0815	SAMPLING ENDED AT: 0830
PUMP OR TUBING DEPTH IN WELL (feet): 150.	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: _____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	2.15	8260	SM
VT	2	AG	1 liter	None	2 liters	2.15	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 35	SAMPLE ID: TT-MW- 35	DATE: 62205

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 1.67	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (30.5 feet – 1.67 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.36 gallons/foot X 31 feet) + 375 gallons = 540 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	PURGING INITIATED AT: 0835	PURGING ENDED AT: 0900	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0845	1.0L	1.0L	100/min	2.12	6.76	24.47	1.46	.64	17	clear	none
0850	.5L	1.5L	100/min	2.14	6.74	24.50	1.36	.51	15	"	"
0855	.5L	2.0L	100/min	2.15	6.72	24.50	1.38	.48	13	"	"
0900	.5L	2.5L	100/min	2.17	6.72	24.57	1.36	.47	13	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HHVS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0902	SAMPLING ENDED AT: 0912
PUMP OR TUBING DEPTH IN WELL (feet): 27.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.72	8260	SM
VT	2	AG	1 liter	None	2 liters	6.72	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 36	SAMPLE ID: TT-MW- 36	DATE: 6/23/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 3.20	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: only fill out if applicable) **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 ml gallons/foot X 33 feet) + 375 gallons = 549.9 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 9:05	PURGING ENDED AT: 9:45	TOTAL VOLUME PURGED (gallons): 4 L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:20	1500	1500	100	3.93	5.50	28.09	1.02	0.33	19.5	clear	none
9:25	500	2000	100	3.93	5.52	28.05	1.04	0.29	17.2	clear	none
9:30	500	2500	100	3.93	5.52	27.95	1.04	0.28	16.2	clear	none
9:35	500	3000	100	3.93	5.53	28.06	1.04	0.27	15.2	clear	none
9:40	500	3500	100	3.93	5.53	28.05	1.04	0.27	17.2	clear	none
9:45	500	4000	100	3.93	5.54	28.04	1.04	0.27	16.2	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA / TTNUS	SAMPLER(S) SIGNATURES: Gary Braganza	SAMPLING INITIATED AT: 9:50	SAMPLING ENDED AT: 10:10
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T/S.	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	3	CG	40 ml	HCL	120 ml	5.54	8260	SM
	2	AG	1 liter	None	2 liters	5.54	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 37	SAMPLE ID: TT-MW- 37	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 10.50	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = 613.5 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	PURGING INITIATED AT: 1500	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (gallons)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1500			100	10.50							
1505	500	500	100	10.72	6.78	28.70	1.42	5.67	1.6	clear	70
1510	500	1000	100	10.75	6.83	28.59	1.41	4.46	1.21	clear	97
1515	500	1500	100	10.75	6.84	28.57	1.39	4.22	0.91	clear	105
1520	500	2000	100	10.75	6.85	28.63	1.41	4.06	0.88	clear	113

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1525	SAMPLING ENDED AT: 1540
PUMP OR TUBING DEPTH IN WELL (feet): 38.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.85	8260	SM
	2	AG	1 liter	None	2 liters	6.85	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 38	SAMPLE ID: TT-MW- 38	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 1.72	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 30 feet) + 375 gallons = 534 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 1645	PURGING ENDED AT: 1705	TOTAL VOLUME PURGED (~~gallons~~): ml 2000

TIME	VOLUME PURGED ~~(gallons)~~ ml	CUMUL. VOLUME PURGED ~~(gallons)~~ ml	PURGE RATE ~~(gpm)~~ ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1645			100	1.72							
1650	500	500	100	2.05	5.30	30.77	0.765	1.81	13.0	clear	-12
1655	500	1000	100	2.03	5.29	31.10	0.762	1.63	9.0	clear	-16
1700	500	1500	100	2.03	5.27	31.07	0.766	1.29	8.42	clear	-21
1705	500	2000	100	2.03	5.23	30.99	0.769	0.99	2.19	clear	-26

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R McGuire	SAMPLING INITIATED AT: 1710	SAMPLING ENDED AT: 1725
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.23	8260	SM
	2	AG	1 liter	None	2 liters	5.23	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 39	SAMPLE ID: TT-MW- 39	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 7.22	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = 613.5 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	PURGING INITIATED AT: 1740	PURGING ENDED AT: 1800	TOTAL VOLUME PURGED (~~gallons~~) ml: 2000

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1740			100	7.22							
1745	500	500	100	8.46	11.21	30.07	1.52	0.58	111	clear	-338
1750	500	1000	100	9.98	11.16	30.05	1.57	0.36	96	clear/TSS	-342
1755	500	1500	100	9.98	11.12	30.02	1.60	0.24	22	clear/TSS	-354
1800	500	2000	100	9.98	9.58	30.00	1.27	0.00	17	clear/TSS	-321

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1805	SAMPLING ENDED AT: 1825
PUMP OR TUBING DEPTH IN WELL (feet): 38.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	9.58	8260	SM
	2	AG	1 liter	None	2 liters	9.58	8270 1-4 Dioxane	PP

REMARKS:
For turbidity. Let stand for TSS to settle to bottom then remeasured.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 40	SAMPLE ID: TT-MW- 40	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 1.85	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 30 feet) + 375 gallons = 534.0 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 1325	PURGING ENDED AT: 1345	TOTAL VOLUME PURGED (~~gallons~~) ml: 2000

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODER~~ (describe)
1325			100	2.10							
1330	500	500	100	2.16	5.45	31.68	0.479	2.91	4.10	clear	-1
1335	~~1000~~ 500	1000	100	2.16	5.41	31.56	0.483	2.01	3.26	clear	-2
1340	500	1500	100	2.16	5.39	31.46	0.494	1.86	2.12	clear	-7
1345	500	2000	100	2.16	5.34	31.38	0.499	1.42	1.62	clear	-9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: 1405
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.34	8260	SM
	2	AG	1 liter	None	2 liters	5.34	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-41	SAMPLE ID: TT-MW-41	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 10.18	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 613.5 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	PURGING INITIATED AT: 1020	PURGING ENDED AT: 1040	TOTAL VOLUME PURGED (~~gallons~~ ml): 2500

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1020			100								
1025	1000	1000	100	10.27	6.65	29.65	0.728	1.22	1.30	clear	-185
1030	500	1500	100	10.27	6.68	29.60	0.737	0.71	0.90	clear	-174
1035	500	2000	100	10.27	6.68	29.62	0.739	0.64	0.72	clear	-167
1040	500	2500	100	10.27	6.69	29.56	0.744	0.47	0.41	clear	-158

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 38.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.69	8260	SM
	2	AG	1 liter	None	2 liters	6.69	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 42	SAMPLE ID: TT-MW- 42	DATE: 6/23/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 3.10	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: only fill out if applicable — **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – 3.10 feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) — **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= gallons + (5.30 gallons/foot X 33 feet) + 375 ml gallons = 549.1 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26.5	PURGING INITIATED AT: 7:55	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons) ml	CUMUL. VOLUME PURGED (gallons) ml	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:05	1000	1000	100	3.99	5.67	29.14	1.15	0.34	21.2	clear	none
8:10	1500	1500	100	3.98	5.62	29.15	1.17	0.32	20.1	clear	none
8:15	500	2000	100	3.99	5.59	29.13	1.18	0.32	15.1	clear	none
8:20	500	2500	100	3.99	5.58	29.04	1.19	0.29	8.4	clear	none
8:25	500	3000	100	3.99	5.58	29.02	1.19	0.28	5.2	clear	none
8:30	500	3500	100	3.99	5.57	29.02	1.19	0.28	8.3	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA / TTNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 8:35	SAMPLING ENDED AT: 9:05
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T+S	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.57	8260	SM
	2	AG	1 liter	None	2 liters	5.57	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 43	SAMPLE ID: TT-MW- 43	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 10.46	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 613.5 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1230	PURGING ENDED AT: 1255	TOTAL VOLUME PURGED (~~gallons~~ ml): 2500

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1230			100	10.46							
1240	1000	1000	100	10.57	6.38	29.62	1.84	4.18	1.50	clear	-101
1245	500	1500	100	10.57	6.40	29.61	1.81	2.10	1.10	clear	-105
1250	500	2000	100	10.57	6.41	29.55	1.76	1.91	0.89	clear	-106
1255	500	2500	100	10.57	6.40	29.58	1.80	1.69	0.42	clear	-107

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1300	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 38	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.40	8260	SM
	2	AG	1 liter	None	2 liters	6.40	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-44	SAMPLE ID: TT-MW-44	DATE: 6/24/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8 1/4	WELL SCREEN INTERVAL DEPTH: 142 feet to 152 feet	STATIC DEPTH TO WATER (feet): 15.36	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 152 feet) + 375 ml gallons = 1179 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 147	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 147	PURGING INITIATED AT: 0650	PURGING ENDED AT: 0725	TOTAL VOLUME PURGED (gallons): 3.5L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm) L	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0700	1.0	1.0	100	15.83	9.09	24.46	0.416	4.79	66	Clear	-40
0705	0.5	1.5	100	15.91	8.32	24.47	0.456	4.03	40	Clear	-163
0710	0.5	2.0	100	15.91	8.03	24.50	0.456	3.80	31	Clear	-167
0715	0.5	2.5	100	15.91	7.91	24.52	0.471	3.68	22	Clear	-178
0720	0.5	3.0	100	15.91	7.92	24.51	0.473	3.60	19	Clear	-192
0725	0.5	3.5	100	15.91	7.94	24.56	0.473	3.61	19	Clear	-214

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleeson	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0700 0730	SAMPLING ENDED AT: 0740
PUMP OR TUBING DEPTH IN WELL (feet): 147	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml		8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP
	1	PE	1L	None	1L		See Ions	PP
	2	PE	500ml	HNO_3	1L		Metals	PP
	3	PE	250ml	$NaZnC$	750ml		Sulfides	PP
	2	CG	40ml	HCl	40ml		TOC	PP
	3	AG	40ml	HCl	120ml		MEE	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 45	SAMPLE ID: TT-MW- 45	DATE: 7/15/05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 150 feet to 160 feet	STATIC DEPTH TO WATER (feet): 14.60	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 165 feet) + 375 gallons = 1249.5 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 155	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 155	PURGING INITIATED AT: 1325	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (~~gallons~~): 3000 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1325			100	14.60							
1335	1000	1000	100	14.71	8.19		0.432	1.15	10.2	clear	-266
1340	500	1500	100	14.71	8.15	27.52	0.410	0.67	6.21	clear	-271
1345	500	2000	100	14.71	8.15	27.45	0.405	0.41	4.02	clear	-279
1350	500	2500	100	14.71	8.15	27.41	0.406	0.02	1.19	clear	-287
1355	500	3000	100	14.71	8.14	27.49	0.408	0.00	0.51	clear	-291

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1400	SAMPLING ENDED AT: 1415
PUMP OR TUBING DEPTH IN WELL (feet): 155	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	Hcl	120 ml	8.14	8260	SM
	2	AG	1 Liter	None	1000 ml	8.14	8270 1-4 Dioxane	VT

REMARKS: 8260 Include Freon, TICs / 8270 1-4 dioxane only.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former ABC	SITE LOCATION:	Falwast
WELL NO:	TTMW 46	SAMPLE ID:	TTMW 46
DATE:	6/6/05		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.0	1/4	280 feet to 300 feet	11.91	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (300 feet – 11.91 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 310 feet) + 375 gallons = 298 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
290	290	1300	1330	30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1315	1.5L	1.5L	100/q	13.77	7.59	27.84	.74	.80	11	Clear	none
1320	2.5	2.0L	"	14.03	7.57	27.81	.73	.57	13	"	"
1325	.5	2.5L	"	14.12	7.57	27.81	.73	.51	15	"	"
1330	.5	3.0L	"	14.20	7.58	27.81	.73	.50	16	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
TTMWS		1335	1355
PUMP OR TUBING DEPTH IN WELL (feet): 290	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	AG	40ml	HCl	120ml		8260	SM
VT	2	AG	1L	–	2L		8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 47	SAMPLE ID: TT-MW- 47	DATE: 6/7/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 22 feet to 27 feet	STATIC DEPTH TO WATER (feet): 3.11	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (35 feet – 3.11 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 38.0 feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	PURGING INITIATED AT: 1350	PURGING ENDED AT: 1415	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1400	1.0L	1.0L	1 L/min	3.90	6.90	26.6	.75	.56	6.2	Clear	None
1405	.5L	1.5L	"	3.93	6.90	27.0	.79	.58	5.9	"	"
1410	.5L	2.0L	"	3.98	6.90	27.0	.78	.57	3.8	"	"
1415	.5L	2.5L	"	4.01	6.90	27.0	.78	.57	2.9	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMW	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1417	SAMPLING ENDED AT: 1430
PUMP OR TUBING DEPTH IN WELL (feet): 24.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: TT	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.90	8260	SM
VT	2	AG	1 liter	None	2 liters	6.90	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 48	SAMPLE ID: TT-MW- 48	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 33.5 feet to 38.5 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (42.0 feet – 10.51 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 44 feet) + 375 gallons = 510 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36.0	PURGING INITIATED AT: 1500	PURGING ENDED AT: 1525	TOTAL VOLUME PURGED (gallons): 2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1500	1L	1L	1qpm	12.38	6.90	26.82	1.17	.82	1.8	CLEAR	none
1515	.5	1.5	"	12.40	6.91	26.8	.85	.83	1.7	"	"
1520	.5	2.0	"	"	6.90	26.86	.86	.84	1.6	"	"
1525	.5	2.5	"	"	6.90	26.83	.85	.83	1.7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1530	SAMPLING ENDED AT: 1545
PUMP OR TUBING DEPTH IN WELL (feet): 36.0	SAMPLE PUMP FLOW RATE (mL per minute): 120	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.90	8260	SM
VT	2	AG	1 liter	None	2 liters	6.90	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

112 1602F

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 49	SAMPLE ID: TT-MW- 49	DATE: 49

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 146 feet to 156 feet	STATIC DEPTH TO WATER (feet): 14.00	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (156 feet – 14.00 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 160 feet) + 375 gallons = 1225 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 141.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 141.0	PURGING INITIATED AT: 1150	PURGING ENDED AT: 1245	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1205	1.5L	1.5L	100/min	18.41	7.26	26.32	.66	.58	24	clear	none
1210	.5 L	2.0L	100/min	19.14	7.31	26.41	.66	.47	30	"	"
1215	.5L	2.5L	100/min	19.55	7.30	26.44	.66	.45	26	"	"
1220	.5L	3.0L	100/min	20.17	7.30	26.48	.67	.44	65	turbid	"
1225	.5L	3.5L	100/min	20.15	7.32	26.50	.66	.49	50	"	"
1230	.5L	4.0L	100/min	20.11	7.33	26.51	.67	.47	28	clear	"
1235	.5L	4.5L	100/min	20.01	7.34	26.52	.67	.46	14	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1236	SAMPLING ENDED AT: 1250
PUMP OR TUBING DEPTH IN WELL (feet): 141.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	7.34	8260	SM
VT	2	AG	1 liter	None	2 liters	7.34	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

PG 1

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 50	SAMPLE ID: TT-MW- 50	DATE: 6-17-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH 245 feet to 255 feet	STATIC DEPTH TO WATER (feet): 12.57	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (257.0 feet – 12.57 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 257 feet) + 375 gallons = 1740 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 250.	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 250.	PURGING INITIATED AT: 0600	PURGING ENDED AT: 0855	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0620	2.0L	2.5L	100/min	14.40	7.40	24.07	.75	.61	150	turbid	none
0625	.5L	2.5L	100/min	14.40	7.47	24.35	.76	.54	130	"	"
0630	.5L	3.0L	100/min	14.40	7.44	24.05	.75	.52	170	"	"
0635	.5L	3.5L	100/min	14.40	7.46	24.01	.75	.51	140	"	"
0640	.5L	4.0L	100/min	14.40	7.46	24.05	.76	.50	120	"	"
0645	.5L	4.5L	100/min	14.40	7.48	24.05	.76	.51	50	clear	"
0650	.5L	5.0L	100/min	14.41	7.48	24.04	.76	.50	50	"	"
0655	.5L	5.5L	100/min	14.40	7.47	24.05	.76	.51	48	"	"
0700	.5L	6.0L	100/min	14.40	7.47	24.05	.76	.51	400	turbid	"
0705	.5L	6.5L	100/min	14.40	7.44	24.08	.76	.50	999	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HHLS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0900	SAMPLING ENDED AT: 0915
PUMP OR TUBING DEPTH IN WELL (feet): 250.	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	7.43	8260	SM
VT	2	AG	1 liter	None	2 liters	7.43	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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TMW 50

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 50	SAMPLE ID: TT-MW-	DATE: 6-17-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0710	.5	7.0 L	100 ml/min	14.40	7.44	24.06	.76	.50	999	turbid	NONE
0715	.5	7.5 L	"	"	7.44	24.09	.76	.49	999	"	"
0720	.5	8.0 L	"	"	7.45	24.09	.76	.49	999	"	"
0725	.5	8.5 L	"	"	7.45	24.09	.76	.49	999	"	"
0730	.5	9.0 L	"	"	7.45	24.09	.76	.49	999	"	"
0735	.5	9.5 L	"	"	7.44	24.06	.76	.48	999	"	"
0740	.5	10.0 L	"	"	7.44	24.06	.76	.48	360	"	"
0745	.5	10.5 L	"	"	7.44	21.05	.75	.50	320	"	"
0750	.5	11.0 L	"	"	7.45	21.09	.76	.48	999	"	"
0755	.5	11.5 L	"	"	7.45	21.05	.76	.49	999	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml		8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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TTMW 50

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 50	SAMPLE ID: TT-MW-	DATE:

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0800	.5	12.0	100/min	14.41	7.44	21.04	.76	.50	999	turbid	none
0805	.5	12.5	"	"	7.44	21.05	.76	.49	955	"	"
0810	.5	13.0	"	"	7.44	21.04	.76	.49	810	"	"
0815	.5	13.5	"	"	7.45	21.05	.76	.50	450	"	"
0820	.5	14.0	"	"	7.44	21.06	.76	.49	120	"	"
0825	.5	14.5	"	"	7.45	21.03	.76	.50	70	"	"
0830	.5	15.0	"	"	7.44	21.05	.76	.47	650	"	"
0835	.5	15.5	"	"	7.41	21.06	.76	.47	650	"	"
0840	.5	16.0	"	"	7.42	21.06	.76	.47	270	"	"
0845	.5	16.5	"	"	7.42	21.04	.76	.49	120	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	3	CG	40 ml	HCL	120 ml		8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 51	SAMPLE ID: TT-MW- 51	DATE: 6-15-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 262 feet to 272 feet	STATIC DEPTH TO WATER (feet): 11.87	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (272 feet − 11.87 feet) X .1632 gallons/foot = 42.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 267	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 267	PURGING INITIATED AT: 1010	PURGING ENDED AT: 1515	TOTAL VOLUME PURGED (gallons): 15.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1015	.1	.1	~100	12.54	9.54	27.80	0.90	3.78	239	sl. cloudy	None	+215
1025	.9	1.0	360	13.38	8.55	28.32	0.90	0.52	990	cloudy		-242
Fast 1035	.5	1.5	200	13.52	8.63	29.08	0.90	0.36	999	cloudy		-264
slowed 1305	8.5	10.0	226	14.31	8.13	27.33	0.90	0.39	483	sl. cloudy		-250
1330	1.0	11.0	160	13.50	8.03	28.05	0.90	0.29	244	sl. cloudy		-291
1350	.5	11.5	100	13.43	8.32	28.33	0.90	0.28	63.2	clear		-309
1410	.5	12.0	100	13.44	8.26	26.64	0.90	0.29	43.4	clear		-308
1455	2.0	14.0	177	13.43	8.15	26.05	0.90	0.28	29.4	clear		-310
1515	1.0	15.0	Sampling									

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Gary J. Davis / TTNUS	SAMPLER(S) SIGNATURES: Gary J. Davis	SAMPLING INITIATED AT: 1515	SAMPLING ENDED AT: 1530
PUMP OR TUBING DEPTH IN WELL (feet): 267	SAMPLE PUMP FLOW RATE (mL per minute): ~100-150	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
TTMW51	3	CG	40 ml	HCL	120 ml	8.15	8260	SM
TTMW51	2	AG	1 liter	None	2 liters	8.15	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- S2	SAMPLE ID: TT-MW- S2	DATE: 6/20/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4 3/16	WELL SCREEN INTERVAL DEPTH: 147 feet to 157 feet	STATIC DEPTH TO WATER (feet): 14.13	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 gallons/foot X 157 feet) + 375 ml gallons = 1.2 L gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 152	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 152	PURGING INITIATED AT: 1506	PURGING ENDED AT: 1535	TOTAL VOLUME PURGED (gallons): 3.5L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1510	1.0	1.0	100	11.33	9.06	26.64	0.414	4.56	27	Clear	-19
1515	0.5	1.5	100	11.33	8.65	26.87	0.420	3.19	22	Clear	-107
1520	0.5	2.0	100	11.33	8.60	26.70	0.424	2.85	19	Clear	-129
1525	0.5	2.5	100	11.33	9.49	26.77	0.411	2.97	16	Clear	-185
1530	0.5	3.0	100	11.33	9.44	26.77	0.410	2.90	18	Clear	-191
1535	0.5	3.5	100	11.33	9.41	26.70	0.417	2.95	18	Clear	-194

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleaton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1540	SAMPLING ENDED AT: 1600
PUMP OR TUBING DEPTH IN WELL (feet): 152	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	9.41	8260	SM
	2	AG	1 liter	None	2 liters	9.41	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 53	SAMPLE ID: TT-MW- 53	DATE: 6/20/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ~~1/4~~ 3/16	WELL SCREEN INTERVAL DEPTH: 141 feet to 151 feet	STATIC DEPTH TO WATER (feet): 12.16	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) = (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = gallons + (5.29 ml/~~gallons~~/foot X 151 feet) + 375 ml ~~gallons~~ = 1.21 L ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 146	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 146	PURGING INITIATED AT: 1340	PURGING ENDED AT: 1415	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1350	1.0	1.0	100	12.71	7.30	25.02	0.456	3.62	70	Clear	-149
1355	0.5	1.5	100	12.76	7.34	25.27	0.465	3.15	34	Clear	-155
1400	0.5	2.0	100	12.76	7.43	25.50	0.465	2.92	19	Clear	-163
1405	0.5	2.5	100	12.76	7.67	25.51	0.465	2.71	15	Clear	-185
1410	0.5	3.0	100	12.76	7.76	25.50	0.466	2.72	18	Clear	-188
1415	0.5	3.5	100	12.76	7.76	25.57	0.467	2.74	18	Clear	-187

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gloston	SAMPLER(S) SIGNATURES: C Gloston	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: 1440
PUMP OR TUBING DEPTH IN WELL (feet): 146	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	3	CG	40 ml	HCL	120 ml	7.76	8260	SM
	2	AG	1 liter	None	2 liters	7.76	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 54	SAMPLE ID: TT-MW- 54	DATE: 6/20/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 11.62	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 gallons/foot X 155 feet) + 375 ~~gallons~~ mL = 1.2 L ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 1045	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED (gallons): 3.5 L

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1055	1.0	1.0	100	11.71	7.63	26.42	0.519	6.21	27.6	Clear	-149
1100	0.5	1.5	100	11.74	7.60	25.61	0.521	4.46	21.2	Clear	-151
1105	0.5	2.0	100	11.75	7.60	25.57	0.520	3.37	19.1	Clear	-155
1110	0.5	2.5	100	11.75	7.59	25.54	0.518	3.35	18.6	Clear	-164
1115	0.5	3.0	100	11.75	7.60	25.52	0.525	3.19	13.1	Clear	-171
1120	0.5	3.5	100	11.75	7.60	25.51	0.528	3.17	11.9	Clear	-156

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleeson	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1125	SAMPLING ENDED AT: 1145
PUMP OR TUBING DEPTH IN WELL (feet): 150	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.60	8260	SM
	2	AG	1 liter	None	2 liters	7.60	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 55	SAMPLE ID: TT-MW- 55	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16 1/4	WELL SCREEN INTERVAL DEPTH: 127 feet to 137 feet	STATIC DEPTH TO WATER (feet): 13.30	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 137 feet) + 375 ml gallons = 1.1 L gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 132	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 132	PURGING INITIATED AT: 0830	PURGING ENDED AT: 0930	TOTAL VOLUME PURGED (gallons): 8.0 L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0830	2.0	2.0	100	14.31	10.70	25.94	0.551	5.55	70	Clear	-98
0900	1.0	3.0	100	14.57	9.01	25.69	0.404	3.59	110	Clear	-201
0910	3.0	6.0	300	14.61	8.54	26.15	0.427	3.39	65	Clear	-210
0915	0.5	6.5	100	14.55	8.21	26.27	0.431	3.18	35.1	Clear	-213
0920	0.5	7.0	100	14.55	8.17	26.29	0.437	3.17	29.8	Clear	-217
0925	0.5	7.5	100	14.55	8.11	26.25	0.441	3.06	21.6	Clear	-222
0930	0.5	8.0	100	14.55	8.09	26.28	0.442	3.08	15.1	Clear	-225

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleaton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT: 0955
PUMP OR TUBING DEPTH IN WELL (feet): 132	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	8.09	8260	SM
	2	AG	1 liter	None	2 liters	8.09	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 56	SAMPLE ID: TT-MW- 56	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 13.38	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (155 feet – 13.38 feet) X 0.16 gallons/foot = 22.6 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.30 ml gallons/foot X 160 feet) + 375 ml gallons = 1223 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 10:20	PURGING ENDED AT: 11:00	TOTAL VOLUME PURGED (gallons): 4 L

TIME	VOLUME PURGED (gallons) ml	CUMUL. VOLUME PURGED (gallons) ml	PURGE RATE (gpm) ml/m	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:35	1500	1500	100	14.30	7.93	24.92	0.978	0.35	100.7	cloudy	none
10:40	500	2000	100	14.40	7.76	25.25	0986	0.30	76.1	"	
10:45	500	2500	100	14.40	7.76	25.19	0.991	0.29	57.1	"	
10:50	500	3000	100	14.40	7.76	25.02	0.988	0.29	43.1	"	
10:55	500	3500	100	14.40	7.77	25.03	0.989	0.27	24.1	clear	"
11:00	500	4000	100	14.40	7.77	25.03	0.989	0.27	19.3	clear	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA / TTNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 11:05	SAMPLING ENDED AT: 11:29
PUMP OR TUBING DEPTH IN WELL (feet): 150	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T, S	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
RFPP	3	CG	40 ml	HCL	120 ml	7.77	8260	SM
VT	2	AG	1 liter	None	2 liters	7.77	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 57	SAMPLE ID: TT-MW- 57	DATE: 6/27/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16 1/4	WELL SCREEN INTERVAL DEPTH: 136 feet to 146 feet	STATIC DEPTH TO WATER (feet): 14.76	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ~~gallons~~/foot X 146 feet) + 325 ~~gallons~~ = 1147 ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 140	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 146	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1225	TOTAL VOLUME PURGED (gallons): 4000 ml

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE ~~(gpm)~~ ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1155	1.0	1.0	100	14.83	7.77	28.20	0.480	4.01	140	Clear	-37
1200	0.5	1.5	100	14.89	7.58	28.07	0.495	3.73	95	Clear	-130
1205	0.5	2.0	100	14.93	7.61	28.03	0.514	3.49	58	Clear	-171
1210	0.5	2.5	100	14.93	7.66	28.05	0.516	3.38	39	Clear	-180
1215	0.5	3.0	100	14.93	7.69	28.03	0.512	3.35	27	Clear	-186
1220	0.5	3.5	100	14.93	7.68	28.05	0.509	3.20	22	Clear	-193
1225	0.5	4.0	100	14.93	7.68	28.07	0.508	3.18	19	Clear	-194

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleason	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1337
PUMP OR TUBING DEPTH IN WELL (feet): 140	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.68	8260	SM
	2	AG	1 liter	None	2 liters	7.68	8270 1-4 Dioxane	PP
	1	PE	1L	None	1L	7.68	Selected Ions	PP
	2	PE	500ml	HNO_3	1L	7.68	Metals	PP
	3	PE	250ml	Zn	750ml	7.68	Sulfides	PP
	2	AG	40ml	HCl	50ml	7.68	TOC	PP
	3	CG	40ml	HCl	120ml	7.68	MEE	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 58	SAMPLE ID: TT-MW- 58	DATE: 62305

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 140 feet to 150 feet	STATIC DEPTH TO WATER (feet): 15.32	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (150 feet – 15.32 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + 5.30 gallons/foot X 150 feet) + 375 gallons = 1170 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 145	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 145	PURGING INITIATED AT: 0900	PURGING ENDED AT: 0545	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0515	1.5L	1.5L	100/min	16.25	7.32	24.83	.60	.85	27	Clear	none
0520	2.0L	3.5L	100/min	16.25	7.25	24.87	.60	.71	34	"	"
0525	.5L	4.0L	"	16.24	7.23	25.05	.61	.65	28	"	"
0530	.5L	4.5L	"	16.25	7.24	24.95	.60	.60	23	"	"
0535	.5L	5.0L	"	"	7.25	25.00	.60	.59	21	"	"
0540	.5L	5.5L	"	16.24	7.26	25.01	.60	.59	20	"	"
0545	.5	6.0L	"	16.24	7.25	25.01	.60	.59	18	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMW	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet): 145	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	7.25	8260	SM
VT	2	AG	1 liter	None	2 liters	7.25	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABC	SITE LOCATION: Tallahassee
WELL NO: TTMW 59	SAMPLE ID: TTMW 59
DATE: 6/5/05	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 140 feet to 150 feet	STATIC DEPTH TO WATER (feet): 12.77	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (150 feet − 12.77 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 145 feet) + 3.75 gallons = 11.96 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 145	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 145	PURGING INITIATED AT: 0825	PURGING ENDED AT: 0648	TOTAL VOLUME PURGED (gallons): 2.8L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0835	1.5L	1.3L	100ml	15.49	7.32	24.86	.65	69	22	Clear	None
0838	.5	1.8L	"	15.55	7.31	24.87	.65	.73	27	"	"
0843	.5	2.3L	"	1562	7.31	24.86	.65	.75	25	"	"
0848	.5	2.8L	"	1560	7.31	24.87	.65	.73	15	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0850	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 145	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCL	120ml	7.31	8260	SM
VT	2	AG	1L	—	2L	7.31	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: FF Former ABC		SITE LOCATION: Talahassee	
WELL NO: TTMW 60	SAMPLE ID: TTMW 60		DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 13.38	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (155 feet – 13.38 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (.53 gallons/foot X 155 feet) + .375 gallons = 1.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 925	PURGING ENDED AT: 955	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0940	1.5L	1.5L	600/min	16.42	7.27	24.55	.67	.53	19	Clear	none
0945	.5L	2.0L	"	16.63	7.26	24.91	.66	.52	16	"	"
0950	.5L	2.5L	"	16.68	7.27	24.90	.66	.53	15	"	"
0955	.5L	3.0L	"	16.73	7.27	24.90	.66	.53	13	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet): 150	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCL	120 mL	7.27	8260	SM
VT	2	AG	1L	—	2L	7.27	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former ABC	SITE LOCATION:	Tallahassee
WELL NO:	TTMW 6	SAMPLE ID:	TTMW 6
DATE:	6/15/05		

PURGING DATA

WELL DIAMETER (inches):	2.0	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	135 feet to 145 feet	STATIC DEPTH TO WATER (feet)	13.22	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (145 feet – 13.22 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 150 feet) + 375 gallons = 1180 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	140	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	140	PURGING INITIATED AT:	1140	PURGING ENDED AT:	1220	TOTAL VOLUME PURGED (gallons)	4.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1155	1.5L	1.5L	100ml	1885	7.19	26.92	.63	.55	33	Clear	none
1200	.5	2.5L	"	14.55	7.21	27.09	.62	.52	33	"	"
1205	.5	3.0L	"	1491	7.20	27.06	.63	.51	31	"	"
1210	.5	3.5L	"	14.92	7.21	27.05	.63	.50	28	"	"
1215	.5	4.0L	"	14.91	7.22	27.04	.63	.52	19	"	"
1220	.5	4.5L	"	14.90	7.21	27.04	.63	.50	17	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	TTMWS	SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:	1225	SAMPLING ENDED AT:	1240
PUMP OR TUBING DEPTH IN WELL (feet):	140	SAMPLE PUMP FLOW RATE (mL per minute):	100	TUBING MATERIAL CODE:	T		
FIELD DECONTAMINATION:	Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCl	120 ml	7.21	8260	~~PP~~ SM
VT	2	AG	1L	—	2 L	7.21	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

MW-62

Sample Log sheet Missing

SRM 8/2/05

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 63	SAMPLE ID: TT-MW- 63	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 1.51	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (30. feet – 1.51 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.53 gallons/foot X 35 feet) + .375 gallons = .560 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1040	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1025	1.0	1.0L	1 l/min	1.71	6.89	24.43	.66	.55	5.3	Clear	none
1030	.5L	1.5L	1 l/min	1.72	6.90	24.59	.66	.545	6.3	"	"
1035	.5L	2.0L	1 l/min	1.73	6.91	24.57	.66	.43	5.7	"	"
1040	.5L	2.5L	1 l/min	1.73	6.61	24.5	.66	.41	5.5	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HMUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 27.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.61	8260	SM
VT	2	AG	1 liter	None	2 liters	6.61	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-64	SAMPLE ID: TT-MW-64	DATE: 6/17/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 2.01	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 534 ml
= gallons + (5.20 gallons/foot X 30 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	PURGING INITIATED AT: 1320	PURGING ENDED AT: 1340	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml/(~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1320			100	2.01							
1325	500	500	100	2.54	5.53	26.21	0.232	2.23	8.90	clear	-37
1330	500	1000	100	2.54	5.50	26.30	0.228	1.40	6.26	clear	-42
1335	500	1500	100	2.54	5.51	26.25	0.227	1.09	4.67	clear	-48
1340	500	2000	100	2.54	5.56	26.32	0.231	0.82	4.21	clear	-52

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1345	SAMPLING ENDED AT: 1359
PUMP OR TUBING DEPTH IN WELL (feet): 27.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.56	8260	SM
	2	AG	1 liter	None	2 liters	5.56	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former AIR	SITE LOCATION:	Talahassee
WELL NO:	TMW 65	SAMPLE ID:	TMW 65
DATE:	6 20 05		

PURGING DATA

WELL DIAMETER (inches):	2.0	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	19 feet to 24 feet	STATIC DEPTH TO WATER (feet):	2.82	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (24 feet – 2.82 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.S30 gallons/foot X 26 feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	21.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	21.5	PURGING INITIATED AT:	1020	PURGING ENDED AT:	1045	TOTAL VOLUME PURGED (gallons):	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1030	1L	1L	1	4.32	6.73	24.67	.75	.77	14	Clear	None
1035	.5L	1.5L	"	4.36	6.71	24.54	.75	.54	13	"	"
1040	.5L	2L	"	4.35	6.71	24.53	.75	.51	14	"	"
1045	.5L	2.5L	"	4.44	6.71	24.52	.75	.50	14	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	TMS	SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:	1047	SAMPLING ENDED AT:	1100
PUMP OR TUBING DEPTH IN WELL (feet):	21.5	SAMPLE PUMP FLOW RATE (mL per minute):	100	TUBING MATERIAL CODE:	PP		
FIELD DECONTAMINATION: Y (N)		FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCL	120ml	6.71	8260	SM
VT	2	AG	1L	—	2L	6.71	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABC		SITE LOCATION: [illegible]	
WELL NO: TT MW-66	SAMPLE ID: TT MW 66		DATE: 6 16 05

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 18.5 feet to 23.5 feet	STATIC DEPTH TO WATER (feet): 1.19	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (23.5 feet – ~~23.5~~ 1.6 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 23.5 feet) + 375 gallons = 500 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.0	PURGING INITIATED AT: 0650	PURGING ENDED AT: 0715	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0700	1L	1L	100/m	1.41	6.51	24.57	.33	.45	41	Green	None
0705	.5	1.5L	"	1.40	6.51	24.57	.33	.45	9.4	"	"
0710	.5	2L	"	1.40	6.52	24.57	.33	.44	9.1	"	"
0715	.5	2.5L	"	1.40	6.51	24.58	.33	.44	9.0	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Hhu[illegible]	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 0720	SAMPLING ENDED AT: 0735
PUMP OR TUBING DEPTH IN WELL (feet): 21.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
Sm	3	CG	40ml	HCL	120mL	6.51	8260	SM
VT	2	AG	1L	–	2L	6.51	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 67	SAMPLE ID: TT-MW- 67	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 14 feet to 25 feet	STATIC DEPTH TO WATER (feet): 2.22	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (25.0 feet – 2.22 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 31.5 feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26.5	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED (gallons): 4.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1050	1L	1L	1 gal/min	2.38	6.47	26.45	.72	.55	45	Clear	none
1055	.5L	1.5L	"	2.40	6.47	26.47	.72	.45	40	"	"
1100	.5L	2.0L	"	2.39	6.47	26.45	.73	.49	39	"	"
1105	.5L	2.5L	"	"	6.50	26.47	.73	.50	33	"	"
1110	.5L	3.0L	"	"	6.51	26.47	.73	.55	28	"	"
1115	.5L	3.5L	"	"	6.51	26.47	.73	.56	23	"	"
1120	.5L	4.0L	"	"	6.51	26.47	.73	~~.55~~ .57	19	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HMW	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1125	SAMPLING ENDED AT: 1136
PUMP OR TUBING DEPTH IN WELL (feet): 26.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: _____ FILTER SIZE: _____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
SM	3	CG	40 ml	HCL	120 ml	6.51	8260	SM
VT	2	AG	1 liter	None	2 liters	6.51	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 68	SAMPLE ID: TT-MW- 68	DATE: 6-15-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 10.61	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (44.0 feet – 10.61 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 44.0 feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	PURGING INITIATED AT: 0630	PURGING ENDED AT: 0655	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0640	1.0L	1.0	100 mL/min	10.99	6.94	24.54	.49	.70	59	Clear	None
0645	.5L	1.5L	"	11.02	6.96	24.53	.51	.67	2.7	"	"
0650	.5L	2.0L	"	"	6.96	24.52	.52	.66	2.2	"	"
0655	.5L	2.5L	"	11.03	6.96	24.52	.52	.66	2.1	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0700	SAMPLING ENDED AT: 0715
PUMP OR TUBING DEPTH IN WELL (feet): 38.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: _____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
~~TT-MW-68~~	3	CG	40 ml	HCL	120 ml	6.96	8260	SM
VT	2	AG	1 liter	None	2 liters	6.96	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 69	SAMPLE ID: TT-MW- 69	DATE: 6-20-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23.0 feet to 27.74 feet	STATIC DEPTH TO WATER (feet): 3.21	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (27.74 feet – 3.21 feet) X .16 gallons/foot = 3.5 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.3 gallons/foot X 30 feet) + 375 gallons = 535 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 0830	PURGING ENDED AT: 0855	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0840	1.0L	1.0	100 mL/min	3.67	6.54	26.46	.77	.61	7.1	Clear	None
0845	.5L	1.5	"	3.68	6.54	26.44	.76	.59	4.1	"	"
0850	.5L	2.0L	"	3.68	6.54	26.45	.77	.56	4.0	"	"
0855	.5L	2.5L	"	3.64	6.54	26.44	.77	.54	2.8	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0857	SAMPLING ENDED AT: 0915
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: _____ FILTER SIZE: _____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.54	8260	SM
VT	2	AG	1 liter	None	2 liters	6.54	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former ABC	SITE LOCATION:	Talavas L
WELL NO:	TTMW 70	SAMPLE ID:	TTMW 70
DATE:	61505		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.0	1/4	24 feet to 25 feet	2.85	PP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (29.5 feet – 2.87 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 30 feet) + 3.75 gallons = 535 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
26.5	26.5	1445	1515	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1445	1L	1L	100ml	4.81	6.56	25.96	1.09	.55	32	Clear	none
1500	.5	1.5L	100ml	4.77	6.55	25.97	1.09	.48	30	"	"
1505	.5	2.0L	"	4.76	6.55	25.98	1.09	.47	27	"	"
1510	.5	2.5L	"	4.76	6.55	25.97	1.09	.46	22	"	"
1515	.5	3.0L	"	4.76	6.55	25.96	1.09	.46	18	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
TTMW		1520	1535

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:
26.5	100	T

FIELD DECONTAMINATION: Y (N) | FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm | DUPLICATE: Y (N)
Filtration Equipment Type: ____

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCL	120ml		8260	SM
VT	2	AG	1L	—	2L		8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Farmer ABC	SITE LOCATION:	Talahassee	
WELL NO:	TMW 7	SAMPLE ID:	TMW 7	DATE: 6 20 05

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.0	1/4	24 feet to 29 feet	3.73	PP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (29.5 feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 32 feet) + 3.73 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
26.5	26.5	1110	1135	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1120	1.0L	1.0L	100/min	4.56	6.47	26.08	.72	.51	8.0	Clear	None
1125	.5L	1.5L	"	4.54	6.46	26.10	.72	.47	4.7	"	"
1130	.5L	2.0L	"	4.61	6.48	26.09	.72	4.5		"	"
1135	.5L	2.5L	"	4.60	6.49	26.08	.72	4.5		"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1137	SAMPLING ENDED AT: 1150
TMS			
PUMP OR TUBING DEPTH IN WELL (feet): 26.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
VH	3	AG	40ml	HCL	120 ml		8260	SM
VT	2	AG	1L	—	2L		8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 72	SAMPLE ID: TT-MW- 72	DATE: 6/22/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23.5 feet to 28.5 feet	STATIC DEPTH TO WATER (feet): 2.69	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 30 feet) + 375 gallons = 534 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26.0	PURGING INITIATED AT: 1315	PURGING ENDED AT: 1335	TOTAL VOLUME PURGED (gallons): 2000 ml

TIME	VOLUME PURGED ml (gallons)	CUMUL. VOLUME PURGED ml (gallons)	PURGE RATE ml (gpm) ML	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ODOR (describe)
1315			100	2.69							
1320	500	500	100	3.10	5.85	30.02	1.37	2.84	18.0	clear	-86
1325	500	1000	100	3.10	5.89	30.09	1.39	1.90	11.21	clear	-93
1330	500	1500	100	3.10	5.89	30.06	1.39	1.48	6.26	clear	-97
1335	500	2000	100	3.10	5.90	30.04	1.39	1.27	3.03	clear	-102

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: 1350
PUMP OR TUBING DEPTH IN WELL (feet): 26.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.90	8260	SM
	2	AG	1 liter	None	2 liters	5.90	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-73	SAMPLE ID: TT-MW-73	DATE: 6/21/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/4 1/4	WELL SCREEN INTERVAL DEPTH: 22 feet to 27 feet	STATIC DEPTH TO WATER (feet): 2.12	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 gallons/foot X 27 feet) + 375 ml gallons = 5.17 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons): 3.0 L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1035	0.5	0.5	100	2.43	6.05	25.64	0.647	5.25	30	Clear	-18
1040	0.5	1.0	100	2.43	5.96	25.60	0.663	4.12	14	Clear	-16
1045	0.5	1.5	100	2.43	5.95	25.54	0.667	3.90	9.9	Clear	-17
1050	0.5	2.0	100	2.43	5.96	25.43	0.671	3.79	6.5	Clear	-19
1055	0.5	2.5	100	2.43	5.97	25.45	0.676	3.76	6.1	Clear	-22
1100	0.5	3.0	100	2.43	5.97	25.43	0.680	3.67	5.6	Clear	-23

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleason	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1200
PUMP OR TUBING DEPTH IN WELL (feet): 25	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.97	8260	SM
	2	AG	1 liter	None	2 liters	5.97	8270 1-4 Dioxane	PP
	1	PE	1 L	None	1 L	5.97	Select Ions	PP
	1	PE	500 ml	HNO_3	500 ml	5.97	Metal total	PP
	1	PE	500 ml	None	500 ml	5.97	Diss Metal	PP
	3	CG	40 ml	HCl	120 ml	5.97	MEE	PP
	2	AG	40 ml	HCl	80 ml	5.97	TOC	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 74	SAMPLE ID: TT-MW- 74	DATE: 6 22 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 27.5 feet to 32.5 feet	STATIC DEPTH TO WATER (feet): 1.42	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: only fill out if applicable) **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (33 feet – 1.42 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

= gallons + (5.30 gallons/foot X 33 feet) + 375 gallons = 550 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.0	PURGING INITIATED AT: 1200	PURGING ENDED AT: 1230	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1210	1.0L	1.0L	100/min	1.88	6.76	25.34	.60	.67	5.1	Clear	None
1215	.5L	1.5L	100/min	1.88	6.78	2520	.60	.57	4.7	"	"
1220	.5L	2.0L	100/min	1.85	6.80	25.21	.60	.59	4.5	"	"
1225	.5L	2.5L	100/min	1.89	6.81	25.20	.60	.57	4.5	"	"
1230	.5L	3.0L	100/min	1.89	6.81	25.21	.60	.5L	4.5	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

MS/MSD

SAMPLED BY (PRINT) / AFFILIATION: TMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1235	SAMPLING ENDED AT: 1320
PUMP OR TUBING DEPTH IN WELL (feet): 30	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
SM	3	CG	40 ml	HCL	120 ml	6.81	8260	SM
VT	2	AG	1 liter	None	2 liters	6.81	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 75	SAMPLE ID: TT-MW- 75	DATE: 6 22 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 35 feet to 44 feet	STATIC DEPTH TO WATER (feet): 4.25	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (45.0 feet – 4.25 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = 615 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.0	PURGING INITIATED AT: 0515	PURGING ENDED AT: 0540	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0525	1.0	1.0L	100/min	4.42	6.59	25.06	.27	.52	9.3	Cloudy	none
0530	.5	1.5L	"	4.38	6.59	25.10	.27	.48	7.0	"	"
0535	.5	2.0L	"	4.38	6.59	25.06	.27	.48	5.1	"	"
0540	.5	2.5L	"	4.37	6.58	25.10	.27	.47	4.7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0542	SAMPLING ENDED AT: 0552
PUMP OR TUBING DEPTH IN WELL (feet): 42.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	<5.55	8260	SM
VT	2	AG	1 liter	None	2 liters	6.58	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 76	SAMPLE ID: TT-MW- 76	DATE: 6/21/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 2.60	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 28 feet) + 375 ml ~~gallons~~ = 523 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1020	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons): 3.0 L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1035	0.5	0.5	100	2.96	5.89	26.46	0.282	4.31	8.2	Clear	-21
1040	0.5	1.0	100	2.98	5.82	26.53	0.282	4.06	4.3	Clear	-19
1045	0.5	1.5	100	2.98	5.79	26.53	0.283	3.72	4.1	Clear	-18
1050	0.5	2.0	100	2.98	5.73	26.59	0.283	3.70	1.4	Clear	-17
1055	0.5	2.5	100	2.98	5.65	26.51	0.283	3.72	1.7	Clear	-16
1100	0.5	3.0	100	2.98	5.64	26.49	0.283	3.74	1.9	Clear	-17

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleason	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1125
PUMP OR TUBING DEPTH IN WELL (feet): 25	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	3	CG	40 ml	HCL	120 ml	5.64	8260	SM
	2	AG	1 liter	None	2 liters	5.64	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former AB	SITE LOCATION:	Talahassee
WELL NO:	TTMW 77	SAMPLE ID:	TTMW 77
DATE:	6 2005		

PURGING DATA

WELL DIAMETER (inches):	2.0	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	36 feet to 41 feet	STATIC DEPTH TO WATER (feet):	7.60	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (41.0 feet – 7.60 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 44.0 feet) + 375 gallons = 4.0 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	38.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	38.5	PURGING INITIATED AT:	1340	PURGING ENDED AT:	1410	TOTAL VOLUME PURGED (gallons):	4.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1353	1.0L	1.0L	100/min	8.24	6.85	24.93	.90	.41	2.2	Clear	None
1355	.5L	1.5L	"	8.14	6.78	24.95	.88	.42	1.6	"	"
1400	.5L	2.0L	"	8.14	6.81	25.01	.90	.42	1.3	"	"
1405	.5L	3.5L	"	8.14	6.82	25.03	.92	.41	1.1	"	"
1410	.5L	4.0L	"	8.14	6.81	25.04	.96	.41	1.0	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	TTMW	SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:	1415	SAMPLING ENDED AT:	1430
PUMP OR TUBING DEPTH IN WELL (feet):	36.5	SAMPLE PUMP FLOW RATE (mL per minute):	100	TUBING MATERIAL CODE:	PP		
FIELD DECONTAMINATION:	Y (N)	FIELD-FILTERED:	Y (N)	FILTER SIZE: ____ µm		DUPLICATE:	Y (N)
		Filtration Equipment Type:					

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCL	120ml	6.81	8260	SM
VT	2	AG	1L	—	2L	6.81	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 78	SAMPLE ID: TT-MW- 78	DATE: 6/24/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet): 5.23	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.30 gallons/foot X 46 feet) + 375ml ~~gallons~~ = 618.8 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:25	PURGING ENDED AT: 10:55	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe) ORP
10:35	1000	1000	100	5.40	6.81	26.01	0.90	0.47	9.8	clear	-119
10:40	500	1500	100	5.40	6.83	26.46	0.90	0.35	4.6	clear	-119
10:45	500	2000	100	5.40	6.81	26.53	0.90	0.34	5.5	clear	-119
10:50	500	2500	100	5.40	6.80	26.59	0.90	0.37	3.8	clear	-117
10:55	500	3000	100	5.40	6.79	26.51	0.90	0.35	3.6	clear	-116

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA	SAMPLER(S) SIGNATURES: Gary Braganza	SAMPLING INITIATED AT: 11:00	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	3	CG	40 ml	HCL	120 ml		8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP
							Anions	
							Sulfide	
							Metals - Total	
							Metals - dissolved	
							TOC	
							MEE	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-79	SAMPLE ID: TT-MW-79	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet): 8.74	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = 613.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1305	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1245			100	8.74							
1250	500	500	100	8.78	6.94	26.11	0.681	3.01	2.50	clear	-111
1255	500	1000	100	8.78	6.94	25.82	0.675	1.06	1.01	clear	-123
1300	500	1500	100	8.78	6.94	25.84	0.671	0.88	0.62	clear	-128
1305	500	2000	100	8.78	6.94	25.74	0.669	0.60	0.21	clear	-127

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1310	SAMPLING ENDED AT: 1340
PUMP OR TUBING DEPTH IN WELL (feet): 38.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) ~~N~~	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.94	8260	SM
	2	AG	1 liter	None	2 liters	6.94	8270 1-4 Dioxane	PP

REMARKS: Duplicate collected TT-DUP-03

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 80	SAMPLE ID: TT-MW- 80	DATE: 6/22/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet): 8.80	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = 6135 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	PURGING INITIATED AT: 1235	PURGING ENDED AT: 1255	TOTAL VOLUME PURGED ~~(gallons)~~: 2000 ml

TIME	VOLUME PURGED ml ~~(gallons)~~	CUMUL. VOLUME PURGED ml ~~(gallons)~~	PURGE RATE ml ~~(gpm)~~ M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1235			100	8.80							
1240	500	500	100	8.98	7.18	28.86	0.942	4.39	4.80	clear	-161
1245	500	1000	100	8.98	7.19	28.79	0.945	2.09	1.96	clear	-169
1250	500	1500	100	8.98	7.19	28.74	0.954	1.82	0.41	clear	-172
1255	500	2000	100	8.98	7.16	28.87	0.970	1.57	0.10	clear	-169

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1300	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 38.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.16	8260	SM
	2	AG	1 liter	None	2 liters	7.16	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 8	SAMPLE ID: TT-MW- 8	DATE: 6 23 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (41.0 feet – 10.72 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (0.32 gallons/foot X 42 feet) + 3.75 gallons = 60 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	PURGING INITIATED AT: 1350	PURGING ENDED AT: 1420	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1400	1.0L	1.0L	100/min	12.11	6.82	27.83	.71	.69	6.3	Clear	none
1405	.5L	1.5L	"	12.10	6.83	27.95	.71	.68	6.1	"	"
1410	.5L	2.0L	"	12.12	6.83	28.02	.71	.68	5.9	"	"
1415	.5L	2.5L	"	12.11	6.82	28.02	.71	.66	5.8	"	"
1420	.5L	3.0L	"	12.11	6.82	28.01	.71	.65	5.6	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1422	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 38.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.82	8260	SM
VT	2	AG	1 liter	None	2 liters	6.82	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 82	SAMPLE ID: TT-MW- 82	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 37 feet to 42 feet	STATIC DEPTH TO WATER (feet): 2.83	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (42 feet – 2.76 feet) X 0.16 gallons/foot = 6.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.29 ~~gallons~~ ml/foot X 47 feet) + 375 ml ~~gallons~~ = 623.6 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39.5	PURGING INITIATED AT: 100	PURGING ENDED AT: 1020	TOTAL VOLUME PURGED (~~gallons~~ mL): 3 L

TIME	VOLUME PURGED (~~gallons~~)	CUMUL. VOLUME PURGED (~~gallons~~ mL)	PURGE RATE (gpm) mL/min.	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:25	0	0	100	2.83 ← start purging							
9:35	1000	1000	100	3.30	10.06	24.81	0.90	0.28	11.3	clear	none
9:40	500	1500	100	3.32	10.00	24.80	0.90	0.28	6.98	"	"
9:45	500	2000	100	3.33	9.99	24.79	0.90	0.26	5.12	"	"
9:50	500	2500	100	3.33	9.98	24.78	0.90	0.25	4.31	"	"
9:55	500	3000	100	3.33	9.97	24.79	0.90	0.23	4.52	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA	SAMPLER(S) SIGNATURES: Gary B	SAMPLING INITIATED AT: 9:59	SAMPLING ENDED AT: 10:14
PUMP OR TUBING DEPTH IN WELL (feet): 39.5 ft	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T+S	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
RFP	3	CG	40 ml	HCL	120 ml	9.97	8260	SM
VT	2	AG	1 liter	None	2 liters	9.97	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 83	SAMPLE ID: TT-MW- 83	DATE: 6/2/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 92 feet to 112 feet	STATIC DEPTH TO WATER (feet): 1020	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (112 feet – 1020 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 110.8 feet) + 375 gallons = 960 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 107.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 107.0	PURGING INITIATED AT: 0845	PURGING ENDED AT: 0910	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0855	1.0L	1.0L	150 ml/min	10.36	7.22	23.19	.54	74.71	13	Clear	none
0900	.5L	1.5L	"	10.36	7.25	23.21	.53	.65	18	"	"
0905	.5L	2.0L	"	10.36	7.24	23.22	.53	.63	14	"	"
0910	.5L	2.5L	"	10.36	7.25	23.22	.54	.66	13	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0915	SAMPLING ENDED AT: 0930
PUMP OR TUBING DEPTH IN WELL (feet): 107.	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	2.25	8260	SM
PP	2	AG	1 liter	None	2 liters	2.25	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 84	SAMPLE ID: TT-MW- 84	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 11.89	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (41. feet – 11.89 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 47.0 feet) + 375 gallons = 624 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.0	PURGING INITIATED AT: 0540	PURGING ENDED AT: 1010	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0955	1.5L	1.5L	100/min	12.02	6.95	26.65	.74	.50	3.5	Clear	none
1000	.5L	2.0L	"	11.95	7.01	26.83	.75	.41	3.8	"	"
1005	.5L	2.5L	"	11.98	7.02	26.81	.75	.40	3.6	"	"
1010	.5L	3.0L	"	"	7.02	26.83	.74	.39	3.3	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SV	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1028
PUMP OR TUBING DEPTH IN WELL (feet): 38.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	7.02	8260	SM
VT	2	AG	1 liter	None	2 liters	7.02	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 85	SAMPLE ID: TT-MW- 85	DATE: 6/21/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4 (3/16)	WELL SCREEN INTERVAL DEPTH: 50 feet to 55 feet	STATIC DEPTH TO WATER (feet): 5.53	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 55 feet) + 375 ml gallons = 665 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 52	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 52	PURGING INITIATED AT: 0810	PURGING ENDED AT: 0840	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0815	0.5	0.5	100	5.73	7.44	26.68	0.376	3.96	2.5	Clear	-13
0820	0.5	1.0	100	5.76	7.63	26.71	0.403	3.16	2.5	Clear	-30
0825	0.5	1.5	100	5.76	7.86	26.61	0.612	2.69	2.5	Clear	-254
0830	0.5	2.0	100	5.76	8.25	26.56	0.629	2.58	2.1	Clear	-354
0835	0.5	2.5	100	5.76	8.31	26.54	0.633	2.52	1.8	Clear	-359
0840	0.5	3.0	100	5.76	8.31	26.55	0.636	2.53	1.8	Clear	-360

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleaton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0845	SAMPLING ENDED AT: 0905
PUMP OR TUBING DEPTH IN WELL (feet): 52	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	5.31	8260	SM
	2	AG	1 liter	None	2 liters	8.31	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 86	SAMPLE ID: TT-MW- 86	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 11.18	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (37.3 feet – 11.18 feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 40 feet) + 3.75 gallons = 590 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 1240	PURGING ENDED AT: 1305	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1250	1L	1L	100/min	12.55	6.94	25.14	.74	.55	9.5	Clear	None
1255	.5L	1.5L	100/min	12.57	6.95	25.34	.74	.47	11.0	"	"
1300	.5L	2.5L	"	12.58	6.96	25.38	.74	.45	14.0	"	"
1305	.5L	3L	"	12.54	6.96	25.35	.74	.43	12.0	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1310	SAMPLING ENDED AT: 1325
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.96	8260	SM
VT	2	AG	1 liter	None	2 liters	6.96	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-87	SAMPLE ID: TT-MW-87	DATE: 6/23/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet): 3.68	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 41 feet) + 375 ml ~~gallons~~ = 421 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39	PURGING INITIATED AT: 0730	PURGING ENDED AT: 0800	TOTAL VOLUME PURGED (~~gallons~~): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
0735	0.5	0.5	100	3.73	8.55	24.44	0.873	5.71	10	Clear	-133
0740	0.5	1.0	100	3.73	7.61	24.46	0.908	4.66	6.4	Clear	-142
0745	0.5	1.5	100	3.73	7.61	24.45	0.907	4.27	6.1	Clear	-151
0750	0.5	2.0	100	3.73	7.61	24.45	0.907	4.21	5.3	Clear	-156
0755	0.5	2.5	100	3.73	7.60	24.47	0.910	4.19	5.1	Clear	-169
0800	0.5	3.0	100	3.73	7.61	24.48	0.909	4.18	5.5	Clear	-177

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleason	SAMPLER(S) SIGNATURES: C Gleason	SAMPLING INITIATED AT: 0805	SAMPLING ENDED AT: 0916
PUMP OR TUBING DEPTH IN WELL (feet): 39	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.61	8260	SM
	2	AG	1 liter	None	2 liters	7.61	8270 1-4 Dioxane	PP
	1	PE	1 L	None	1 L	7.61	Selection	PP
	1	PE	500 ml	HNO3	500 ml	7.61	Diss. Metals	PP
	1	PE	500 ml	None	500 ml	7.61	Total Metals	PP
	3	CG	40 ml	HCl	120 ml	7.61	MEE	PP
	2	AG	40 ml	HCl	80 ml	7.61	TOC	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 88	SAMPLE ID: TT-MW- 88	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 76 feet to 86 feet	STATIC DEPTH TO WATER (feet): 11.90	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.30 gallons/foot X 91 feet) + 375 ml gallons = 8573 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 81	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 81	PURGING INITIATED AT: 11:35	PURGING ENDED AT: 12:35	TOTAL VOLUME PURGED (gallons): 1

TIME	VOLUME PURGED (gallons) ml	CUMUL. VOLUME PURGED (gallons) ml	PURGE RATE (gpm) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:55	1000	1000	50	14.18	8.36	26.65	0.658	0.31	20.7	clear	none
12:00	250	1250	50	14.18	8.21	26.81	0.671	0.31	20.1	clear	none
12:05	250	1500	50	14.19	8.16	26.74	0.679	0.30	26.2	"	none
12:10	250	1750	50	14.19	8.13	26.84	0.679	0.30	30.4	"	none
12:15	250	2000	50	14.20	8.12	26.84	0.682	0.30	26.5	"	none
12:20	250	2250	50	14.20	8.10	26.86	0.692	0.29	25.0	"	none
12:25	250	2500	50	14.19	8.10	26.85	0.696	0.30	24.0	"	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA / TTNUS	SAMPLER(S) SIGNATURES: Gary Braganza	SAMPLING INITIATED AT: 12:30	SAMPLING ENDED AT: 13:15
PUMP OR TUBING DEPTH IN WELL (feet): 81	SAMPLE PUMP FLOW RATE (mL per minute): 150	TUBING MATERIAL CODE: T, + S.	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
~~RFAP~~	3	CG	40 ml	HCL	120 ml	≤2	8260	SM
	2	AG	1 liter	None	2 liters	≤10	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 80	SAMPLE ID: TT-MW- 80	DATE: 7/15/05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet): 7.65	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – ' feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 613.5 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1230	TOTAL VOLUME PURGED ~~(gallons)~~: 2000 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE ml/~~(gpm)~~min	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1210			100	7.65							
1215	500	500	100	7.82	7.65	31.47	1.26	2.67	0.40	clear	-175
1220	500	1000	100	7.82	7.55	30.74	1.27	0.06	0.19	clear	-177
1225	500	1500	100	782	7.57	30.66	1.29	0.00	0.11	clear	-177
1230	500	2000	100	7.82	750	30.61	1.30	0.00	0.01	clear	-176

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURE(S): Scott L. McGuire	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1240
PUMP OR TUBING DEPTH IN WELL (feet): 38.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	Hcl	120 ml	7.82	8260	SM
	2	AG	1 Liter	None	1000 ml	7.82	8270 1-4 Dioxane	VT

REMARKS: Only 8270 collected

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABC	SITE LOCATION: Island
WELL NO: TMW 89	SAMPLE ID: TMW 89
	DATE: 6/6/05

PURGING DATA

WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 27 feet to 32 feet	STATIC DEPTH TO WATER (feet): 1.87	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (32 feet – 1.87 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (530 gallons/foot X 32 feet) + 375 gallons = 545 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29.5	PURGING INITIATED AT: 0600	PURGING ENDED AT: 0625	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0610	1L	1L	200ml/min	3.02	7.64	24.58	.51	.46	3.8	clear	none
0615	1.5L	1.5L	"	"	7.54	24.64	.54	.54	3.3	"	"
0620	2.0L	2.0L	"	"	7.55	24.65	.54	.58	2.9	"	"
0625	2.5L	2.5L	"	"	7.55	24.58	.54	.57	2.9	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMW	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0630	SAMPLING ENDED AT: 0645
PUMP OR TUBING DEPTH IN WELL (feet): 29.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCl	120ml	7.54	8260	SM
VP	2	AG	1L	—	2L	7.55	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 90	SAMPLE ID: TT-MW- 90	DATE: 6/7/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25.5 feet to 20.5 feet	STATIC DEPTH TO WATER (feet): 2.02	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (30.5 feet – 2.02 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 gallons/foot X 32 feet) + 3.75 gallons = 3.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.0	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1340	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1310	1L	1.0L	100 mL/min	2.04	7.03	26.10	.75	55	5.1	Clear	none
1325	.5L	1.5L	"	2.03	6.89	26.12	.75	.56	2.2	"	"
1330	.5L	2.0L	"	2.03	6.88	26.12	.75	.54	2.0	"	"
1335	.5L	2.5L	"	2.03	6.84	26.12	.74	.53	1.6	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1327	SAMPLING ENDED AT: 1337
PUMP OR TUBING DEPTH IN WELL (feet): 28.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.88	8260	SM
VA	2	AG	1 liter	None	2 liters	6.85	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 91	SAMPLE ID: TT-MW- 91	DATE: 6/17/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 32.5 feet to 37.5 feet	STATIC DEPTH TO WATER (feet): 7.35	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 40 feet) + 375 gallons = 587.0 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35.0	PURGING INITIATED AT: 1130	PURGING ENDED AT: 1150	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1130			100	7.35							
1135	500	500	100	7.86	6.47	25.26	0.580	2.45	11.0	clear	-106
1140	500	1000	100	8.55	6.50	25.23	0.579	1.52	9.10	clear	-110
1145	500	1500	100	8.55	6.52	25.22	0.582	1.00	6.42	clear	-115
1150	500	2000	100	8.55	6.52	25.25	0.584	0.66	3.01	clear	-116

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1155	SAMPLING ENDED AT: 1210
PUMP OR TUBING DEPTH IN WELL (feet): 35.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.52	8260	SM
	2	AG	1 liter	None	2 liters	6.52	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former ARC	SITE LOCATION:	Falconer
WELL NO:	TTMW92	SAMPLE ID:	TTMW92
DATE:	6/16/05		

PURGING DATA

WELL DIAMETER (inches):	2.0	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	32.5 feet to 37.5 feet	STATIC DEPTH TO WATER (feet):	10.66	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (37.9 feet – 10.66 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 39.0 feet) + 375 gallons = 585 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	35.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	35.0	PURGING INITIATED AT:	1115	PURGING ENDED AT:	1140	TOTAL VOLUME PURGED (gallons):	2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1125	1.0L	1.0L	1qt/min	16.34	7.24	24.43	.62	.43	6-7	Clear	None
1130	.5L	1.5L	1qt/min	11.33	7.25	24.43	.62	.43	.44	"	"
1135	.5L	2.0L	1qt/min	11.33	7.24	24.42	.62	.42	3.8	"	"
1140	.5L	2.5L	1qt/min	11.33	7.25	24.42	.62	.42	3.6	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	TT NUS	SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:	1145	SAMPLING ENDED AT:	1200
PUMP OR TUBING DEPTH IN WELL (feet):	35.0	SAMPLE PUMP FLOW RATE (mL per minute):		TUBING MATERIAL CODE:			
FIELD DECONTAMINATION: Y (N)		FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: (Y) N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	AG	40ml	HCL	120ml	7.25	8260	SM
VT	2	AG	1L	—	2L	7.25	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 93	SAMPLE ID: TT-MW- 93	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 32.5 feet to 37.5 feet	STATIC DEPTH TO WATER (feet): 12.71	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (37.5 feet – 12.71 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 39/~~35~~ feet) + 375 gallons = 575 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 1530	PURGING ENDED AT: 1555	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1540	1.0L	1.0L	100/min	13.42	6.91	25.0	.84	.46	1.8	Clear	none
1545	.5L	1.5L	100/min	13.01	6.94	25.51	.85	.43	1.7	"	"
1550	.5L	2.0L	100/min	12.99	6.94	25.52	.86	.43	1.3	"	"
1555	.5L	2.5L	100/min	12.97	6.94	25.52	.86	.43	1.4	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HNU	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1555	SAMPLING ENDED AT: 1610
PUMP OR TUBING DEPTH IN WELL (feet): 35	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.94	8260	SM
VT	2	AG	1 liter	None	2 liters	6.94	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 94	SAMPLE ID: TT-MW- 94	DATE: 6 21 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 24.5 feet to 29.5 feet	STATIC DEPTH TO WATER (feet): 2.18	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (29.5 feet – 2.18 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 30 feet) + 3.75 gallons = 535 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.0	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1030	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	~~Cond TEMP~~ (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0955	1.0L	1.0L	100/min	2.35	6.58	.55	23.65	.51	37	clear	none
1000	.5L	1.5L	"	2.34	6.57	.60	23.75	.56	33	"	"
1005	.5L	2.0L	"	2.35	6.58	.59	23.77	.52	29	"	"
1010	.5L	2.5L	"	2.35	6.54	.59	23.77	.51	27	"	"
1015	.5L	3.0L	"	2.33	6.57	.58	23.77	.50	25	"	"
1020	.5L	3.5L	"	2.35	6.57	.59	23.70	.51	23	"	"
1025	.5L	4.0L	"	2.35	6.57	.59	23.78	.50	20	"	"
1030	.5L	4.5L	"	2.35	6.54	.58	23.78	.50	18		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1035	SAMPLING ENDED AT: 1050
PUMP OR TUBING DEPTH IN WELL (feet): 27.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.58	8260	SM
VT	2	AG	1 liter	None	2 liters	6.58	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 95	SAMPLE ID: TT-MW- 95	DATE: 6 21 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 1.91	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (28 feet – 1.91 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.32 gallons/foot X 28.0 feet) + 375 gallons = 525 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1125	TOTAL VOLUME PURGED (gallons): 2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1110	1.0L	1.0L	100/min	2.02	6.67	24.0	.53	.60	5.8	Clear	none
1115	.5	1.5L	"	2.01	6.67	23.95	.53	.54	3.6	"	"
1120	.5	2.0L	"	2.02	6.67	23.95	.53	.52	2.9	"	"
1125	.5	2.5L	"	2.01	6.67	23.94	.53	.51	2.8	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

MS MSD

SAMPLED BY (PRINT) / AFFILIATION: TMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1135	SAMPLING ENDED AT: 1200
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.67	8260	SM
VF	2	AG	1 liter	None	2 liters	6.67	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 96	SAMPLE ID: TT-MW- 96	DATE: 6 17 85

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 16 feet to 26 feet	STATIC DEPTH TO WATER (feet): 16.11	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (206.5 feet - 16.11 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 210 feet) + 375 gallons = 1480 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 201.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 201.0	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1055	1.5L	1.5L	100/min	19.45	7.37	25.76	.80	.92	32	clear	none
1100	.5	2.0L	100/min	19.36	7.34	25.99	.80	.86	12	"	"
1105	.5	2.5L	100/min	20.83	7.34	25.99	.80	.83	8.3	"	"
1110	.5	3.0L	100/min	20.99	7.34	26.00	.80	.82	7.7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTMS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1115	SAMPLING ENDED AT: 1130
PUMP OR TUBING DEPTH IN WELL (feet): 201.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
SM	3	CG	40 ml	HCL	120 ml	7.34	8260	SM
VT	2	AG	1 liter	None	2 liters	7.34	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 97	SAMPLE ID: TT-MW- 97	DATE: 6/21/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH 208 feet to 226 feet	STATIC DEPTH TO WATER (feet): 10.73	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (226 feet – 10.73 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 228 feet) + 375 gallons = 1585 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 217.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 217.0	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1528	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1513	1.8L	1.8L	100/min	15:28	7.05	25.87	.80	6.57	8.3	Clear	none
1518	~~2.5~~	2.3L	100/min	15:31	7.05	25.8	.81	6.41	7.8	"	"
1523	.5	2.8L	100/min	15:41	7.05	25.85	.81	6.35	7.6		"
1528	.5	3.2L	100/min	15:44	7.05	25.85	.81	6.33	7.8	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tetra Tech	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1535	SAMPLING ENDED AT: 1550
PUMP OR TUBING DEPTH IN WELL (feet): 217	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml		8260	SM
VT	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 98	SAMPLE ID: TT-MW- 98	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 33 feet to 38 feet	STATIC DEPTH TO WATER (feet): 2.20	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.30 ~~gallons~~ ml/foot X 43 feet) + 375 ~~gallons~~ ml. = 602 ml. gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35.5	PURGING INITIATED AT: 14:15	PURGING ENDED AT: 1455	TOTAL VOLUME PURGED (~~gallons~~): 4500 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (~~gallons~~)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:25	1000	1000	100	4.30	7.12	25.71	1.12	0.37	6.4	clear	none
14:30	500	1500	100	4.33	7.13	25.71	1.12	0.36	4.9	clear	none
14:35	500	2000	100	4.35	7.16	25.62	1.12	0.35	6.2	clear	none
14:40	500	2500	100	4.37	7.17	25.61	1.12	0.34	1.0	clear	none
14:45	500	3000	100	4.37	7.17	25.71	1.12	0.34	1.5	clear	none
14:50	500	3500	100	4.39	7.18	25.71	1.12	0.34	1.2	clear	none
14:55	500	4000	100	4.37	7.18	25.72	1.12	0.34	1.6	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BRAGANZA/TTNUS	SAMPLER(S) SIGNATURES: Gary Braganza	SAMPLING INITIATED AT: 15:00	SAMPLING ENDED AT: 15:25
PUMP OR TUBING DEPTH IN WELL (feet): 35.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T, +S	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.18	8260	SM
	2	AG	1 liter	None	2 liters	7.18	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 99	SAMPLE ID: TT-MW- 99	DATE: 6/21/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 71 feet to 61 feet	STATIC DEPTH TO WATER (feet): 10.71	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only if applicable)
= gallons + (5.29 ml gallons/foot X 81 feet) + 375 ml gallons = 503 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 76	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 76	PURGING INITIATED AT: 1520	PURGING ENDED AT: 1550	TOTAL VOLUME PURGED (~~gallons~~): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ODR (describe)
1525	0.5	0.5	100	11.06	7.40	28.09	0.525	4.47	220	Clear	-123
1530	0.5	1.0	100	11.09	7.31	28.38	0.533	4.21	65	Clear	-133
1535	0.5	1.5	100	11.09	7.45	28.29	0.532	4.20	38	Clear	-127
1540	0.5	2.0	100	11.09	7.55	28.28	0.535	4.22	21	Clear	-129
1545	0.5	2.5	100	11.09	7.60	28.24	0.532	4.20	19	Clear	-132
1550	0.5	3.0	100	11.09	7.60	28.25	0.531	4.22	18	Clear	-134

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleeton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1555	SAMPLING ENDED AT: 1620
PUMP OR TUBING DEPTH IN WELL (feet): 76	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.60	8260	SM
	2	AG	1 liter	None	2 liters	7.60	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-99	SAMPLE ID: TT-MW-99	DATE: 7/15/05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 71 feet to 81 feet	STATIC DEPTH TO WATER (feet): 12.15	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 625.5 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 85 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 76.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 76.0	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1310	TOTAL VOLUME PURGED ~~(gallons)~~: 2000 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1245			100	12.15							
1255	1000	1000	100	12.32	7.81	29.11	0.472	6.64	26.20	clear	-175
1300	500	1500	100	12.32	7.77	28.07	0.464	6.59	19.60	clear	-195
1305	500	2000	100	12.32	7.77	27.89	0.458	6.27	11.16	clear	-202
1310	500	2500	100	12.32	7.78	27.78	0.454	6.00	9.80	clear	-211

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURE(S): Scott L. McGuire	SAMPLING INITIATED AT: 1315	SAMPLING ENDED AT: 1326
PUMP OR TUBING DEPTH IN WELL (feet): 76.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	Hcl	120 ml	7.78	8260	SM
	2	AG	1 Liter	None	1000 ml	7.78	8270 1-4 Dioxane only	VT

REMARKS: Only 8270 collected

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 100	SAMPLE ID: TT-MW- 100	DATE: 6/22/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 3.81	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 30 feet) + 375 ml gallons = 533 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27	PURGING INITIATED AT: 1305	PURGING ENDED AT: 1335	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1310	0.5	0.5	100	4.12	6.31	27.65	0.203	4.85	5.7	Clear	-38
1315	0.5	1.0	100	4.12	6.29	27.88	0.200	4.13	5.0	Clear	-41
1320	0.5	1.5	100	4.12	6.30	27.88	0.193	3.87	4.6	Clear	-43
1325	0.5	2.0	100	4.12	6.30	27.89	0.197	3.89	3.3	Clear	-45
1330	0.5	2.5	100	4.12	6.30	27.81	0.197	3.80	2.9	Clear	-45
1335	0.5	3.0	100	4.12	6.30	27.80	0.197	3.78	2.2	Clear	-47

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleeton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: 1440
PUMP OR TUBING DEPTH IN WELL (feet): 27	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.30	8260	SM
	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP
	1	PE	1 L	Non	1 L		Sat Ions	PP
	1	PE	500 ml	HNO_3	500 ml		Metals total	PP
	1	PE	500 ml	None	500 ml		Diss Metal	PP
	2	AG	80 40	HCl	80 ml		TOC	PP
	3	CG	120 40	HCl	120 ml	6.30	MEE	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 101	SAMPLE ID: TT-MW- 101	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 53 feet to 58 feet	STATIC DEPTH TO WATER (feet): 5.57	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 gallons/foot X 58 feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55	PURGING INITIATED AT: 1125	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (gallons): 11.5 L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm) mL	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1130	3.0	3.0	300	5.64	7.61	25.91	0.427	4.21	+999	Gray	-61
1140	3.0	6.0	300	5.79	7.36	26.11	0.414	4.11	+427	Gray	-98
1150	3.0	9.0	300	5.96	7.31	26.21	0.418	3.88	107	Gray	-107
1155	0.5	9.5	100	5.81	7.27	26.27	0.415	3.56	66	Clear	-121
1200	0.5	10.0	100	5.81	7.25	26.24	0.414	3.46	36	Clear	-131
1205	0.5	10.5	100	5.81	7.28	26.31	0.414	3.43	23	Clear	-139
1210	0.5	11.0	100	5.81	7.30	26.29	0.414	3.43	19	Clear	-134
1215	0.5	11.5	100	5.81	7.31	26.28	0.413	3.43	16	Clear	-136

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleaton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1220	SAMPLING ENDED AT: 1240
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.31	8260	SM
	2	AG	1 liter	None	2 liters	7.81	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 102	SAMPLE ID: TT-MW- 102	DATE: 6/21/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16 ~~1/4~~	WELL SCREEN INTERVAL DEPTH: 90 feet to 100 feet	STATIC DEPTH TO WATER (feet): 11.23	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ~~gallons~~ml/foot X 100 feet) + 375 ~~gallons~~ml = 900ml ~~gallons~~ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 95	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 95	PURGING INITIATED AT: 0835	PURGING ENDED AT: 0910	TOTAL VOLUME PURGED (~~gallons~~): 3.5L

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0845	1.0	1.0	100	11.29	7.83	25.10	0.694	5.91	60	Clear	-55
0850	0.5	1.5	100	11.29	7.67	25.01	0.489	4.19	42	Clear	-151
0855	0.5	2.0	100	11.29	7.58	24.76	0.526	3.97	30	Clear	-160
0900	0.5	2.5	100	11.29	7.53	25.06	0.529	3.67	19	Clear	-216
0905	0.5	3.0	100	11.29	7.53	25.05	0.524	3.57	17	Clear	-227
0910	0.5	3.5	100	11.29	7.54	25.03	0.526	3.56	15	Clear	-229

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleaton	SAMPLER(S) SIGNATURES: C Gleaton	SAMPLING INITIATED AT: 0915	SAMPLING ENDED AT: 1000
PUMP OR TUBING DEPTH IN WELL (feet): 95	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.54	8260	SM
	2	AG	1 liter	None	2 liters	7.54	8270 1-4 Dioxane	PP
	1	PE	1 L	None	1 L	7.54	Select Ions	PP
	1	PE	500ml	HNO_3	500m	7.54	Metal total	PP
	1	PE	500ml	None	500ml	7.54	Diss Metal	PP
	3	CG	40ml	HCl	120ml	7.54	MEE	PP
	2	AG	40ml	HCl	~~60~~ 120ml	7.54	TOC	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 103	SAMPLE ID: TT-MW- 103	DATE: 6/21/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 3.02	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ~~gallons~~ ml/foot X 30 feet) + 375 ml ~~gallons~~ = 530 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27	PURGING INITIATED AT: 1320	PURGING ENDED AT: 1350	TOTAL VOLUME PURGED (~~gallons~~): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1325	0.5	0.5	100	3.17	6.38	26.55	1.16	4.27	8.7	Clear	-83
1330	0.5	1.0	100	3.22	6.35	26.37	1.14	3.88	8.1	Clear	-98
1335	0.5	1.5	100	3.22	6.40	26.42	1.14	3.62	7.0	Clear	-106
1340	0.5	2.0	100	3.22	6.43	26.30	1.14	3.53	8.9	Clear	-109
1345	0.5	2.5	100	3.22	6.45	26.23	1.14	3.54	8.4	Clear	-111
1350	0.5	3.0	100	3.22	6.46	26.22	1.14	3.49	8.2	Clear	-112

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleason	SAMPLER(S) SIGNATURES: C. Gleason	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1500
PUMP OR TUBING DEPTH IN WELL (feet): 27	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.46	8260	SM
	2	AG	1 liter	None	2 liters	6.45	8270 1-4 Dioxane	PP

REMARKS: DUP06 MS/MSD

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 164	SAMPLE ID: TT-MW- 104	DATE: 6 21 05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 24.4 feet to 30.4 feet	STATIC DEPTH TO WATER (feet): 2.07	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (31.0 feet – 2.07 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 31 feet) + 375 gallons = 540 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.0	PURGING INITIATED AT: 1400	PURGING ENDED AT: 1425	TOTAL VOLUME PURGED (gallons): 2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1410	1.0L	1.0L	100/min	2.20	6.34	25.01	.56	.53	17	CLEAR	NONE
1415	.5L	1.5L	"	2.24	6.31	25:12	.56	.48	17	"	"
1420	.5	2.0L	"	2.24	6.30	25.11	.56	.47	16	"	"
1425	.5	2.5	"	2.24	6.31	25:12	.56	.47	16	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TTNUS	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1445
PUMP OR TUBING DEPTH IN WELL (feet): 27.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml		8260	SM
VT	2	AG	1 liter	None	2 liters		8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 105	SAMPLE ID: TT-MW- 105	DATE: 6/23/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 41.8 feet to 46.8 feet	STATIC DEPTH TO WATER (feet): 5.73	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (46.8 feet – 5.73 feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (5.30 gallons/foot X 52 feet) + 375 ml gallons = 650 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43.5	PURGING INITIATED AT: 10:55	PURGING ENDED AT: 11:25	TOTAL VOLUME PURGED (gallons): 3 L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:05	1000 ml	1000 ml	100	6.20	7.81	23.90	0.810	0.48	1.5	clear	none
11:10	500	1500	100	6.20	7.78	23.85	0.811	0.34	1.1	clear	none
11:15	500	2000	100	6.20	7.78	23.83	0.812	0.30	2.4	clear	none
11:20	500	2500	100	6.20	7.78	23.81	0.813	0.30	4.8	clear	none
11:25	500	3000	100	6.20	7.75	23.81	0.814	0.30	5.6	clear	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: GARY BARRANZA/TTNUS	SAMPLER(S) SIGNATURES: Gary Barranza	SAMPLING INITIATED AT: 11:30	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 43.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.78	8260	SM
	2	AG	1 liter	None	2 liters	7.78	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- ~~11~~ 106	SAMPLE ID: TT-MW- ~~11~~ 106	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ~~1/4~~ 3/16	WELL SCREEN INTERVAL DEPTH: 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 5.05	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml ~~gallons~~/foot X 45 feet) + 375 ml ~~gallons~~ = 613 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1305	PURGING ENDED AT: 1335	TOTAL VOLUME PURGED (~~gallons~~): 3.0L

TIME	VOLUME PURGED (~~gallons~~)	CUMUL. VOLUME PURGED (~~gallons~~)	PURGE RATE (~~gpm~~)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ODOR (describe)
1310	0.5	0.5	100	5.05	6.80	27.02	0.289	4.75	29	Clear	-121
1315	0.5	1.0	100	5.05	6.71	27.00	0.297	4.21	7.6	Clear	-120
1320	0.5	1.5	100	5.05	6.78	26.96	0.305	3.83	4.8	Clear	-126
1325	0.5	2.0	100	5.05	6.83	26.96	0.306	3.73	4.7	Clear	-131
1330	0.5	2.5	100	5.05	6.82	26.93	0.305	3.78	1.3	Clear	-136
1335	0.5	3.0	100	5.05	6.88	26.94	0.304	3.78	1.4	Clear	-141

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Glenn	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: 1400
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.89	8260	SM
	2	AG	1 liter	None	2 liters	6.89	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 107	SAMPLE ID: TT-MW- 107 MA	DATE: 62305

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 21 feet to 26 feet	STATIC DEPTH TO WATER (feet): 1.80	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (26.0 feet – 1.80 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 28 feet) + 375 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23.5	PURGING INITIATED AT: 1055	PURGING ENDED AT: 1125	TOTAL VOLUME PURGED (gallons): 3.0L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1105	1.0L	1.0L	low flow	2.56	6.66	24.53	4.18	.48	10	clear	none
1110	.5L	1.5L	"	2.57	6.66	24.51	4.17	.43	7.7	"	"
1115	.5L	2.0L	"	2.56	6.66	24.51	4.16	.44	7.6	"	"
1120	.5L	2.5L	"	2.55	6.66	24.52	4.15	.41	7.7	"	"
1125	.5L	3.0L	"	2.55	6.66	24.51	4.15	.40	7.7	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TM/TT	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1130	SAMPLING ENDED AT: 1225
PUMP OR TUBING DEPTH IN WELL (feet): 23.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
SM	3	CG	40 ml	HCL	120 ml	6.66	8260	SM
VT	2	AG	1 liter	None	2 liters	6.66	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former ABC	SITE LOCATION:	Talmadge
WELL NO:	TMW 108	SAMPLE ID:	TMW 108
DATE:	6/15/05		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 1.43	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (28.0 feet − 1.43 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 28 feet) + 375 gallons = 525 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 1255	PURGING ENDED AT: 1320	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1305	1L	1L	1L/min	1.85	669	27.57	.63	.65	16	clear	none
1310	.5	1.5L	"	1.76	668	27.65	.62	.57	14	"	"
1315	.5	2.0L	"	1.72	667	27.66	.62	.51	11	"	"
1320	.5	2.5L	"	1.72	668	27.64	.62	.50	9	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMW	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: 1345
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCL	120ml	6.68	8260	SM
VT	2	AG	1L	—	2L	6.64	8270	TP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Former ABC	SITE LOCATION:	tallahassee
WELL NO:	TTMW 105	SAMPLE ID:	TTMW 105
DATE:	61505		

PURGING DATA

WELL DIAMETER (inches):	2.0	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	23 feet to 28 feet	STATIC DEPTH TO WATER (feet):	3.72	PURGE PUMP TYPE OR BAILER:	Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)

= (28.2 feet – 3.72 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (5.30 / 28 gallons/foot X 28 feet) + 375 / 16 gallons = 150 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	25.5	PURGING INITIATED AT:	1025	PURGING ENDED AT:	1053	TOTAL VOLUME PURGED (gallons):	2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1035	1L	1L	1qt/m	3.86	6.88	25.66	.485	.59	5.0	clear	none
1040	.5	1.5L	"	"	6.86	25.65	.485	.58	3.3	"	"
1045	.5	2.0L	"	"	6.86	25.64	.485	.57	2.6	"	"
1050	.5	2.5L	"	"	6.86	25.65	.484	.57	2.2	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	TTMW	SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT:	1055	SAMPLING ENDED AT:	1110
PUMP OR TUBING DEPTH IN WELL (feet):	25.5	SAMPLE PUMP FLOW RATE (mL per minute):		TUBING MATERIAL CODE:	T		
FIELD DECONTAMINATION:	Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm		DUPLICATE:	Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40ml	HCL	120ml	6.86	8260	SM
VT	2	AG	1L	—	2L	6.86	8270	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 110	SAMPLE ID: TT-MW- 110	DATE: 6-14-05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 1.06	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (28 feet – 1.06 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 31 feet) + 375 gallons = 446 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 1150	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1200	1L	1L	100/ml	1.55	6.74	25.58	.51	.47	31	Clear	none
1205	.5	1.5L	"	"	6.76	26.15	.91	.41	3.6	"	"
1210	.5	2.0L	"	"	6.76	26.17	.91	.40	3.3	"	"
1215	.5	2.5L	"	"	6.76	26.16	.91	.41	3.1		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: HNU	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1210	SAMPLING ENDED AT: 1233
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: T	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
TB	3	CG	40 ml	HCL	120 ml	6.76	8260	SM
VT	2	AG	1 liter	None	2 liters	6.76	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW-111	SAMPLE ID: TT-MW-111	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 2.02	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 30 feet) + 375 gallons = 534 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (~~gallons~~): 2000ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1455			100	2.02							
1500	500	500	100	2.22	6.83	25.20	0.508	5.52	4.90	clear	-128
1505	500	1000	100	2.22	6.66	25.05	0.507	2.59	3.21	clear	-131
1510	500	1500	100	2.22	6.64	25.04	0.506	2.00	1.96	clear	-133
1520	500	2000	100	2.22	6.63	25.00	0.501	1.67	0.82	clear	-137

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1525	SAMPLING ENDED AT: 1535
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.63	8260	SM
	2	AG	1 liter	None	2 liters	6.63	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 112	SAMPLE ID: TT-MW- 112	DATE: 6/28/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 76 feet to 86 feet	STATIC DEPTH TO WATER (feet): 16.55	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 10 feet) + 375 gallons = 390.3 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~78.5~~ 81.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 81.0	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1350	TOTAL VOLUME PURGED (~~gallons~~): 2000ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1330			100	16.55							
1335	500	500	100	16.08	9.89	26.95	0.516	2.41	100	clear	-255
1340	500	1000	100	18.65	9.90	26.90	0.518	2.22	62	clear	-257
1345	500	1500	100	20.40	9.91	26.86	0.519	2.10	23	clear	-255
1350	500	2000	100	21.32	9.94	26.96	0.523	1.96	5.5	clear	-260

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1420
PUMP OR TUBING DEPTH IN WELL (feet): 81.0	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	9.94	8260	SM
	2	AG	1 liter	None	2 liters	9.94	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 113	SAMPLE ID: TT-MW- 113	DATE: 6/16/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 37 feet to 42 feet	STATIC DEPTH TO WATER (feet): 9.27	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 390.3 ml
(only fill out if applicable)
= gallons + (5.10 gallons/foot X 10 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39.5	PURGING INITIATED AT: 1540	PURGING ENDED AT: 1600	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1540			100	9.23							
1545	500	500	100	10.01	9.32	25.19	0.269	2.00	5.90	clear	-187
1550	500	1000	100	10.06	9.32	25.07	0.257	1.67	3.26	clear	-200
1555	500	1500	100	10.10	9.31	25.03	0.242	1.42	2.17	clear	-206
1600	500	2000	100	10.32	9.31	25.00	0.237	1.26	2.01	clear	-214

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1605	SAMPLING ENDED AT: 1620
PUMP OR TUBING DEPTH IN WELL (feet): 39.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	9.31	8260	SM
	2	AG	1 liter	None	2 liters	9.31	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 114	SAMPLE ID: TT-MW- 114	DATE: 62105

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH 35. feet to 40. feet	STATIC DEPTH TO WATER (feet): 1.81	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (40.0 feet – 1.81 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 40.0 feet) + 375 gallons = 596 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1325	TOTAL VOLUME PURGED (gallons): 2.5L

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1310	1.0L	1.0L	100/min	2.10	6.85	24.50	.45	.61	5.6	GRAY	NONE
1315	.5L	1.5L	"	2.11	6.84	24.72	.44	.46	4.4	"	"
1320	.5L	2.0L	"	2.11	6.84	24.71	.45	.44	4.1	"	"
1325	.5L	2.5L	"	2.12	6.84	24.70	.45	.45	4.0	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TMC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: 1345
PUMP OR TUBING DEPTH IN WELL (feet): 37.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SM	3	CG	40 ml	HCL	120 ml	6.84	8260	SM
VT	2	AG	1 liter	None	2 liters	6.84	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 11S	SAMPLE ID: TT-MW- 11S	DATE: 6/14/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ~~1/4~~ 3/16	WELL SCREEN INTERVAL DEPTH: 25 feet to 15 feet	STATIC DEPTH TO WATER (feet): 4.68	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml ~~gallons~~/foot X feet) + 375 ml ~~gallons~~ = 507 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1345	PURGING ENDED AT: 1415	TOTAL VOLUME PURGED (~~gallons~~): 3.0 L

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1350	0.5	0.5	100	4.96	4.81	25.96	0.000	8.61	13.11	Clear	277
1355	0.5	1.0	100	4.96	4.78	25.41	0.000	8.51	12.84	Clear	281
1400	0.5	1.5	100	4.96	4.76	25.42	0.002	8.47	6.71	Clear	281
1405	0.5	2.0	100	4.96	4.65	25.46	0.000	8.48	2.1	Clear	279
1410	0.5	2.5	100	4.96	4.67	25.49	0.000	8.48	2.2	Clear	273
1415	0.5	3.0	100	4.96	4.67	25.41	0.000	8.46	2.0	Clear	274

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleaton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: 1435
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	3	CG	40 ml	HCL	120 ml	4.96	8260	SM
	2	AG	1 liter	None	2 liters	4.96	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 116	SAMPLE ID: TT-MW- 116	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2.5 feet to 15 feet	STATIC DEPTH TO WATER (feet): 1.09	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml gallons/foot X 25 feet) + 375 ml gallons = 507 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0730	PURGING ENDED AT: 0800	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons) L	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ (describe)
0735	500	0.5	100	1.79	6.83	25.99	0.504	6.15	4.5	Clear	-95
0740	500	1.0	100	1.81	6.88	26.09	0.496	6.10	4.5	Clear	-110
0745	500	1.5	100	1.81	7.00	26.02	0.497	6.09	2.9	Clear	-127
0750	500	2.0	100	1.81	7.02	26.03	0.500	6.11	2.4	Clear	-132
0755	500	2.5	100	1.81	7.05	26.00	0.494	6.17	2.2	Clear	-135
0800	500	3.0	100	1.81	7.06	25.96	0.491	6.19	2.2	Clear	-137

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleeton	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0805	SAMPLING ENDED AT: 0815
PUMP OR TUBING DEPTH IN WELL (feet): 20	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.06	8260	SM
	2	AG	1 liter	None	2 liters	7.06	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 117	SAMPLE ID: TT-MW- 117	DATE: 6/30/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 37 feet to 42 feet	STATIC DEPTH TO WATER (feet): 7.02	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 45 feet) + 375 gallons = 613.5 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39.5	PURGING INITIATED AT: 0950	PURGING ENDED AT: 1015	TOTAL VOLUME PURGED ~~(gallons)~~: 2500 ml

TIME	VOLUME PURGED ml ~~(gallons)~~	CUMUL. VOLUME PURGED ml ~~(gallons)~~	PURGE RATE ml ~~(gpm)~~ M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0950			100	7.02							
1000	1000	1000	100	7.10	7.08	25.75	0.460	3.88	6.21	clear	-175
1005	500	1500	100	7.16	7.05	25.69	0.458	3.05	4.22	clear	-175
1010	500	2000	100	7.21	7.05	25.67	0.457	2.87	1.10	clear	-178
1015	500	2500	100	7.25	7.05	25.69	0.456	2.71	0.90	clear	-181

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1035
PUMP OR TUBING DEPTH IN WELL (feet): 39.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.05	8260	SM
	2	AG	1 liter	None	2 liters	7.05	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- ~~118~~ 118	SAMPLE ID: TT-MW- ~~118~~ 118	DATE: 6/30/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 20 feet to 25 feet	STATIC DEPTH TO WATER (feet): 3.45	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 30 feet) + 375 gallons = 534.0 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1040			100	3.45							
1045	500	500	100	3.60	6.49	25.79	1.16	3.55	6.70	clear	-205
1050	500	1000	100	3.60	6.45	25.75	1.16	2.96	3.16	clear	-219
1055	500	1500	100	3.60	6.43	25.66	1.17	2.64	1.09	clear	-232
1100	500	2000	100	3.60	6.42	25.63	1.17	2.48	0.41	clear	-238

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1120
PUMP OR TUBING DEPTH IN WELL (feet): 22.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.42	8260	SM
	2	AG	1 liter	None	2 liters	6.42	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 119	SAMPLE ID: TT-MW- 119	DATE: 6/30/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 31 feet to 36 feet	STATIC DEPTH TO WATER (feet): 9.22	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 40 feet) + 375 gallons = 587 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33.5	PURGING INITIATED AT: 1405	PURGING ENDED AT: 1430	TOTAL VOLUME PURGED (gallons): 2500 ml

TIME	VOLUME PURGED ml (gallons)	CUMUL. VOLUME PURGED ml (gallons)	PURGE RATE ml (gpm) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1405			100	9.22							
1415	1000	1000	100	10.62	10.62	26.18	0.935	3.12	25.0	clear	-131
1420	500	1500	100	11.55	10.02	26.21	0.513	1.40	13.21	clear	-126
1425	500	2000	100	12.71	9.64	26.24	0.491	1.18	11.06	clear	-121
1430	500	2500	100	13.91	9.71	26.27	0.502	1.03	6.11	clear	-131

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1450
PUMP OR TUBING DEPTH IN WELL (feet): 33.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	9.71	8260	SM
	2	AG	1 liter	None	2 liters	9.71	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 120	SAMPLE ID: TT-MW- 120	DATE: 6/30/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 20 feet to 25 feet	STATIC DEPTH TO WATER (feet): 1.42	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 38 feet) + 375 gallons = 534 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	PURGING INITIATED AT: 1325	PURGING ENDED AT: 1345	TOTAL VOLUME PURGED (~~gallons~~): 2000 ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) M	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1325			100	1.42							
1330	500	500	100	1.77	6.62	25.37	0.763	5.70	8.60	clear	-114
1335	500	1000	100	1.77	6.57	25.18	0.756	2.74	2.30	clear	-123
1340	500	1500	100	1.77	6.58	25.12	0.757	2.06	2.01	clear	-124
1345	500	2000	100	1.77	6.58	25.13	0.756	1.75	1.70	clear	-122

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 22.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	6.58	8260	SM
	2	AG	1 liter	None	2 liters	6.58	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 121	SAMPLE ID: TT-MW- 121	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 15 feet	STATIC DEPTH TO WATER (feet): 7.86	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ~~gallons~~ mL/foot X 25 feet) + 375 ~~gallons~~ mL = 507 ~~gallons~~ mL

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0830	PURGING ENDED AT: 0900	TOTAL VOLUME PURGED (~~gallons~~): 2.0 L

TIME	VOLUME PURGED (~~gallons~~) L	CUMUL. VOLUME PURGED (~~gallons~~) L	PURGE RATE (~~gpm~~)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle ~~mg/L~~ or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0835	500	0.5	100	7.91	7.16	25.16	0.560	4.96	4.7	Clear	-129
0840	500	1.0	100	8.14	7.14	27.15	0.562	4.91	3.1	Clear	-131
0845	500	1.5	100	8.14	7.14	27.10	0.563	4.85	2.4	Clear	-137
0850	500	2.0	100	8.14	7.14	27.10	0.562	4.77	2.1	Clear	-138
0855	500	2.5	100	8.14	7.17	27.11	0.563	4.70	2.0	Clear	-142
0900	500	3.0	100	8.14	7.18	27.03	0.563	4.73	1.8	Clear	-145

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleason	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0905	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 20	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.18	8260	SM
	2	AG	1 liter	None	2 liters	7.18	8270 1-4 Dioxane	PP

REMARKS: DUP02

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 122	SAMPLE ID: TT-MW- 122	DATE: 6/15/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 15 feet to 25 feet	STATIC DEPTH TO WATER (feet): 24.76	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.29 ml ~~gallons~~/foot X 25 feet) + 375 ml gallons = 507 ml gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0935	PURGING ENDED AT: 1005	TOTAL VOLUME PURGED (~~gallons~~): 3.0L

TIME	VOLUME PURGED (~~gallons~~) ml	CUMUL. VOLUME PURGED (gallons) L	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
0940	500	0.5	100	4.91	7.18	26.78	0.537	5.15	0.0	Clear	-216
0945	500	1.0	100	4.91	7.10	26.72	0.536	4.85	0.0	Clear	-224
0950	500	1.5	100	4.91	7.07	26.60	0.533	4.66	0.0	Clear	-237
0955	500	2.0	100	4.91	7.11	26.60	0.534	4.48	0.0	Clear	-257
1000	500	2.5	100	4.91	7.14	26.58	0.534	4.41	0.0	Clear	-267
1005	500	3.0	100	4.91	7.16	26.56	0.534	4.40	0.0	Clear	-271

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C Gleaton	SAMPLER(S) SIGNATURES: C Gleaton	SAMPLING INITIATED AT: 1010	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet): 20	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	7.18	8260	SM
	2	AG	1 liter	None	2 liters	7.16	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 127	SAMPLE ID: TT-MW- 123	DATE: 6/29/05

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 375 feet to 395 feet	STATIC DEPTH TO WATER (feet): 12.85	PURGE PUMP TYPE OR BAILER: Peristaltic Pump

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 400 feet) + 375 gallons = 2495.0 ml ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 385	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 385	PURGING INITIATED AT: 0950	PURGING ENDED AT: 1035	TOTAL VOLUME PURGED (~~gallons~~): ml

TIME	VOLUME PURGED ml (~~gallons~~)	CUMUL. VOLUME PURGED ml (~~gallons~~)	PURGE RATE ml (~~gpm~~) ml	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
0950			100	12.85							
1015	2500	2500	100	12.90	8.64	27.60	0.959	5.27	55.0	clear	-234
1020	500	3000	100	12.90	8.49	27.72	0.944	2.71	41.0	clear	-243
1025	500	3500	100	12.90	8.44	27.67	0.939	2.11	18.21	clear	-249
1030	500	4000	100	12.90	8.39	27.70	0.939	1.94	11.12	clear	-252
1035	500	4500	100	12.90	8.38	27.75	0.941	1.79	8.20	clear	-261

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT: 1049
PUMP OR TUBING DEPTH IN WELL (feet): 385	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	HCL	120 ml	8.38	8260	SM
	2	AG	1 liter	None	2 liters	8.38	8270 1-4 Dioxane	PP

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 124	SAMPLE ID: TT-MW- 124	DATE: ~~7/15/05~~ 7-22-05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 122 feet to 137 feet	STATIC DEPTH TO WATER (feet): 236	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 1117 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 140 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 129.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 129.5	PURGING INITIATED AT: 1140	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (~~gallons~~): 4000 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~EDOR~~ (describe)
1140			100								
1150	1000	1000	100	25.46	7.33	31.59	0.555	3.20	372.0	silty	-210
1155	500	1500	100	26.0	7.31	31.06	0.534	1.52	210.0	clearing	-232
1200	500	2000	100	25.95	7.31	31.00	0.516	1.27	66.90	clear	-241
1205	500	2500	100	25.81	7.31	31.03	0.509	1.18	29.15	clear	-243
1210	500	3000	100	25.80	7.32	31.05	0.494	0.97	19.10	clear	-250
1215	500	3500	100	25.80	7.29	30.95	0.484	0.90	11.22	clear	-255
1220	500	4000	100	25.80	7.28	31.02	0.476	0.87	9.14	clear	-261

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1225	SAMPLING ENDED AT: 1235
PUMP OR TUBING DEPTH IN WELL (feet): 129.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	Hcl	120 ml	7.28	8260	SM
	2	AG	1 Liter	None	1000 ml	7.28	8270 1-4 Dioxane	VT

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 125	SAMPLE ID: TT-MW- 125	DATE: ~~7/15/05~~ 7/25/05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 5.46	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 35 feet) + 375 gallons = ~~gallons~~ 560.5ml

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1040	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ ORP (describe)
1015			100								
1020	500	500	100	9.00	11.76	26.84	2.59	2.15	23.9	clear	-145
1025	500	1000	100	12.60	11.63	26.84	1.96	2.35	11.14	clear	-144
1030	500	1500	100	14.0	11.61	27.01	1.91	2.52	7.02	clear	-143
1035	500	2000	100	14.01	11.59	27.04	1.82	2.81	4.22	clear	-140
1040	500	2500	100	14.01	11.58	27.06	1.80	2.95	3.06	clear	-139

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / Tetra Tech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	Hcl	120 ml	11.58	8260	SM
	2	AG	1 Liter	None	1000 ml	11.58	8270 1-4 Dioxane	VT

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. **STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former American Beryllium	SITE LOCATION: Sarasota, Florida	
WELL NO: TT-MW- 126	SAMPLE ID: TT-MW- 126	DATE: ~~7/15/05~~ 7/22/05

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 27 feet to 32 feet	STATIC DEPTH TO WATER (feet): 6.05	PURGE PUMP TYPE OR BAILER: Peristaltic

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable) 31.6 = (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 560.5 ml
(only fill out if applicable)
= gallons + (5.30 gallons/foot X 35 feet) + 375 gallons = ~~gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.5	PURGING INITIATED AT: 1550	PURGING ENDED AT: 1615	TOTAL VOLUME PURGED (~~gallons~~): 2500 ml

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ORP ~~ODOR~~ (describe)
1550			100	6.05							
1555	500	500	100	7.14	7.12	27.83	0.620	1.06	78.90	clear	-295
1600	500	1000	100	8.06	7.10	27.67	0.617	0.75	41.75	clear	-304
1605	500	1500	100	9.20	7.11	27.76	0.613	0.60	18.62	clear	-315
1610	500	2000	100	9.80	7.10	27.80	0.612	0.55	11.10	clear	-318
1615	500	2500	100	9.80	7.10	28.01	0.614	0.52	12.14	clear	-320

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. McGuire / TetraTech	SAMPLER(S) SIGNATURES: Scott R. McGuire	SAMPLING INITIATED AT: 1620	SAMPLING ENDED AT: 1630
PUMP OR TUBING DEPTH IN WELL (feet): 30.5	SAMPLE PUMP FLOW RATE (mL per minute): 100	TUBING MATERIAL CODE: Teflon	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
	3	CG	40 ml	Hcl	120 ml	7.10	8260	SM
	2	AG	1 Liter	None	1000 ml	7.10	8270 1-4 Dioxane only	VT

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

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