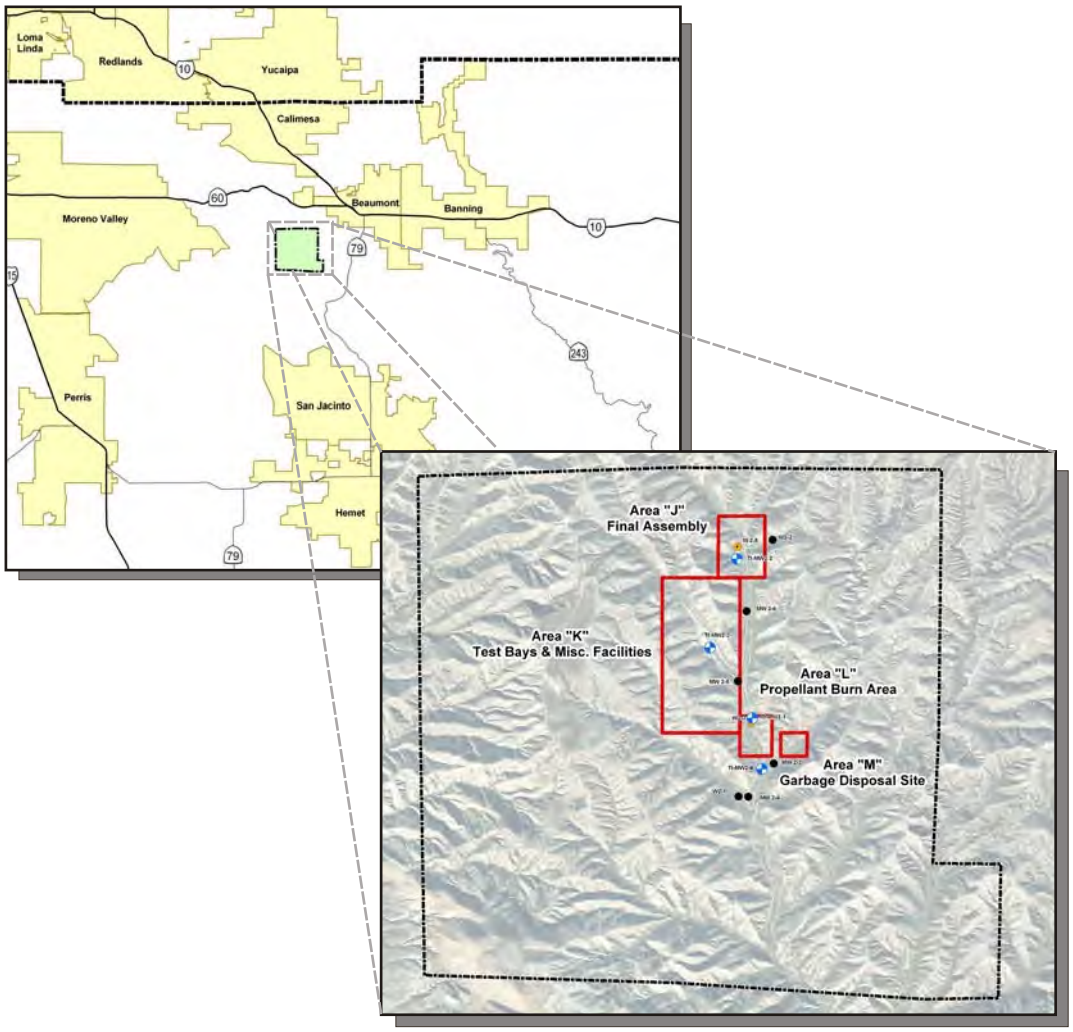
LOCKHEED MARTIN
FIRST QUARTER 2005
GROUNDWATER MONITORING REPORT
BEAUMONT SITE 2
Beaumont, California



LOCKHEED MARTIN

Tetra Tech, Inc.
3475 E Foothill Blvd.
Pasadena, California
TC# 13505-02 / June 2005

Lockheed Martin
First Quarter 2005
Groundwater Monitoring Report
Beaumont Site 2
Beaumont, California

June 30, 2005
TC# 13505-02

Prepared for
Lockheed Martin Corporation
Corporate Energy, Environmental Safety and Health
Burbank, California

Prepared by
Tetra Tech, Inc.
Pasadena, California

_____
Brenda Meyer, P.E.
Project Manager

_____
Thomas Villeneuve, P.E.
Program Manager

TABLE OF CONTENTS

Section **Page**

TABLE OF CONTENTS (contd.)

TABLES

Page

FIGURES

Page

LIST OF APPENDICES

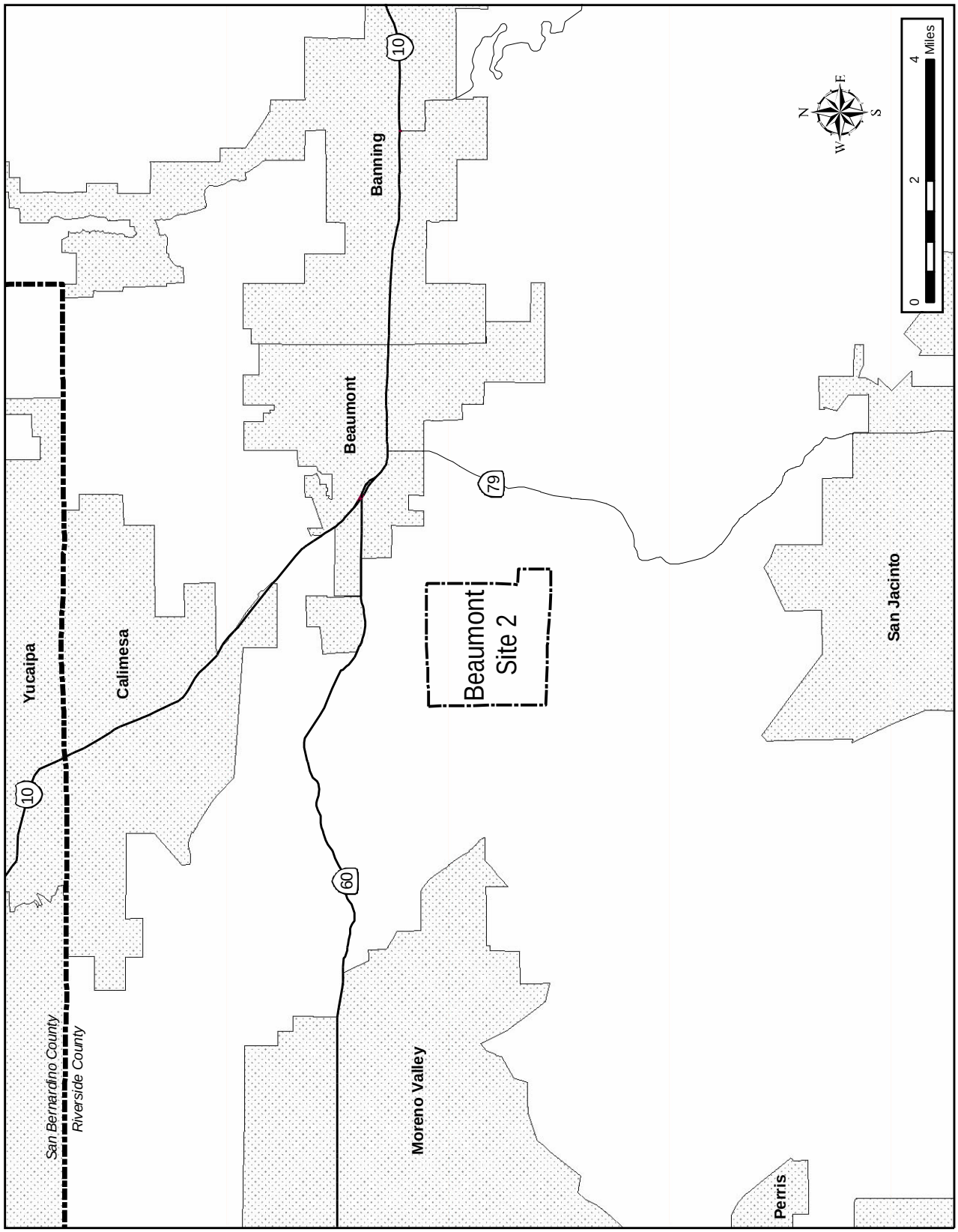
SECTION 1.0
INTRODUCTION

On behalf of Lockheed Martin Corporation (LMC), Tetra Tech, Inc. (Tetra Tech) has prepared the following first quarter 2005 groundwater monitoring report for LMC's Beaumont Site 2 (herein referred to as the Site) – *see Figure 1-1*. The Site (also known as the Laborde Canyon Site) consists of approximately 2,500 acres and is located approximately 70 miles east of Los Angeles, near the City of Beaumont, California. Historically, the Site was primarily used for small rocket motor assembly, testing, propellant incineration, and minor disposal activities.

Based on recent regulatory interest in perchlorate and 1,4-dioxane, a groundwater sample was collected from a historical groundwater production well (identified as W2-3) at the Site in January 2003. The sample was analyzed for volatile organic compounds (VOCs), perchlorate, and 1,4-dioxane to determine the potential presence and concentration of the chemicals in groundwater. The analytical results indicated that VOCs and 1,4-dioxane were not present at or above their respective detection limits. However, perchlorate was reported at a concentration of 4,080 micrograms per liter (μg/L), which exceeds the State of California notification level of 6 μg/L for that compound. Based on the detection of perchlorate in groundwater, Department of Toxic Substances Control (DTSC) reopened the Site for further assessment.

A limited investigation with respect to the chemicals of potential concern (COPCs) in the groundwater at the Site was conducted in August and September 2004 in accordance with the DTSC-approved *Final Lockheed Martin Beaumont Site 2 Groundwater Monitoring Well Installation Work Plan, Beaumont California* (Tetra Tech, 2004a). The objective of the groundwater well installation program was to determine the current groundwater conditions (i.e., groundwater gradient, COPCs, and extent of COPCs) at the Site. In order to accomplish the objective of the program, Tetra Tech installed four (4) groundwater monitoring wells (designated Tt-MW2-1 through Tt-MW2-4), and sampled and analyzed them for COPCs related to the historical operations at the Site. The activities and findings of the initial groundwater investigation are presented in *Final Lockheed Martin Beaumont Site 2 Groundwater Monitoring Well Installation Report, Beaumont California* (Tetra Tech, 2004b).

FIGURE 1-1
LOCATION MAP OF BEAUMONT SITE 2



Groundwater level measurements and samples were collected from groundwater monitoring wells Tt-MW2-1 through Tt-MW2-4 during the first quarter of 2005. This report presents a summary of the activities and findings of the first quarter 2005 groundwater monitoring event conducted at the Site, and is organized into the following sections:

- Section 2.0 - Site Background: This section presents a brief description of the Site ownership, historical operations and chemical usage, and a summary of previous environmental investigations conducted at the Site;
- Section 3.0 – Geology and Hydrogeology: This section presents a brief description of the regional and site-specific geology and hydrogeology;
- Section 4.0 – Groundwater Monitoring Activities: This section presents descriptions of all the groundwater monitoring activities conducted at groundwater monitoring wells Tt-MW2-1 through Tt-MW2-4;
- Section 5.0 – Summary of Analytical Results: This section provides a summary of the analytical results obtained during the groundwater sampling event, including a description of the general groundwater occurrence and flow patterns beneath the Site;
- Section 6.0 – Evaluation of Findings: This section presents a summary of the findings of the groundwater monitoring event;
- Section 7.0 – References: This section presents the list of documents cited in this report.

SECTION 2.0
SITE BACKGROUND

2.1 SITE OWNERSHIP

The Site consists of approximately 2,500 acres located southwest of Beaumont, California. The parcels that comprise the Site were owned by individuals and the United States (U.S.) government prior to 1958. Between 1958 and 1960, portions of the Site were purchased by the Grand Central Rocket Company (GCR). GCR utilized the Site as a remote test facility for early space and defense program efforts. In 1960, Lockheed Aircraft Corporation (LAC) purchased one-half interest in GCR. GCR became a wholly-owned subsidiary of LAC in 1961. The remaining parcels of land that comprise the Site were purchased from the U.S. government between 1961 and 1964. In 1963, Lockheed Propulsion Company (LPC) became an operating division of LAC and was responsible for the operation of the Site until its closure in 1974. Ogden Labs is known to have leased portions of the Site in the 1970s. In 1986, Wylie Labs planned to use the Site for the testing of a Class B explosive device. Wylie Labs set up some of the necessary equipment, but the tests were never performed (Radian, 1986a). Currently, the Site is inactive except for ongoing investigation activities.

2.2 HISTORICAL OPERATIONS AND CHEMICAL USAGE

The Site was utilized by GCR and LPC from 1960 to 1974 for small rocket motor assembly, testing operations, and propellant incineration. A summary of each historical operational area within the Site is presented in this subsection. The locations of the historical operational areas are presented on Figure 2-1.

Four (4) primary historical operational areas have been identified at the Site. Each area was responsible for various activities associated with rocket motor assembly, testing, and propellant incineration. The historical operational areas at the Site with corresponding grid point locations in Figure 2-1 are presented in Table 2-1.

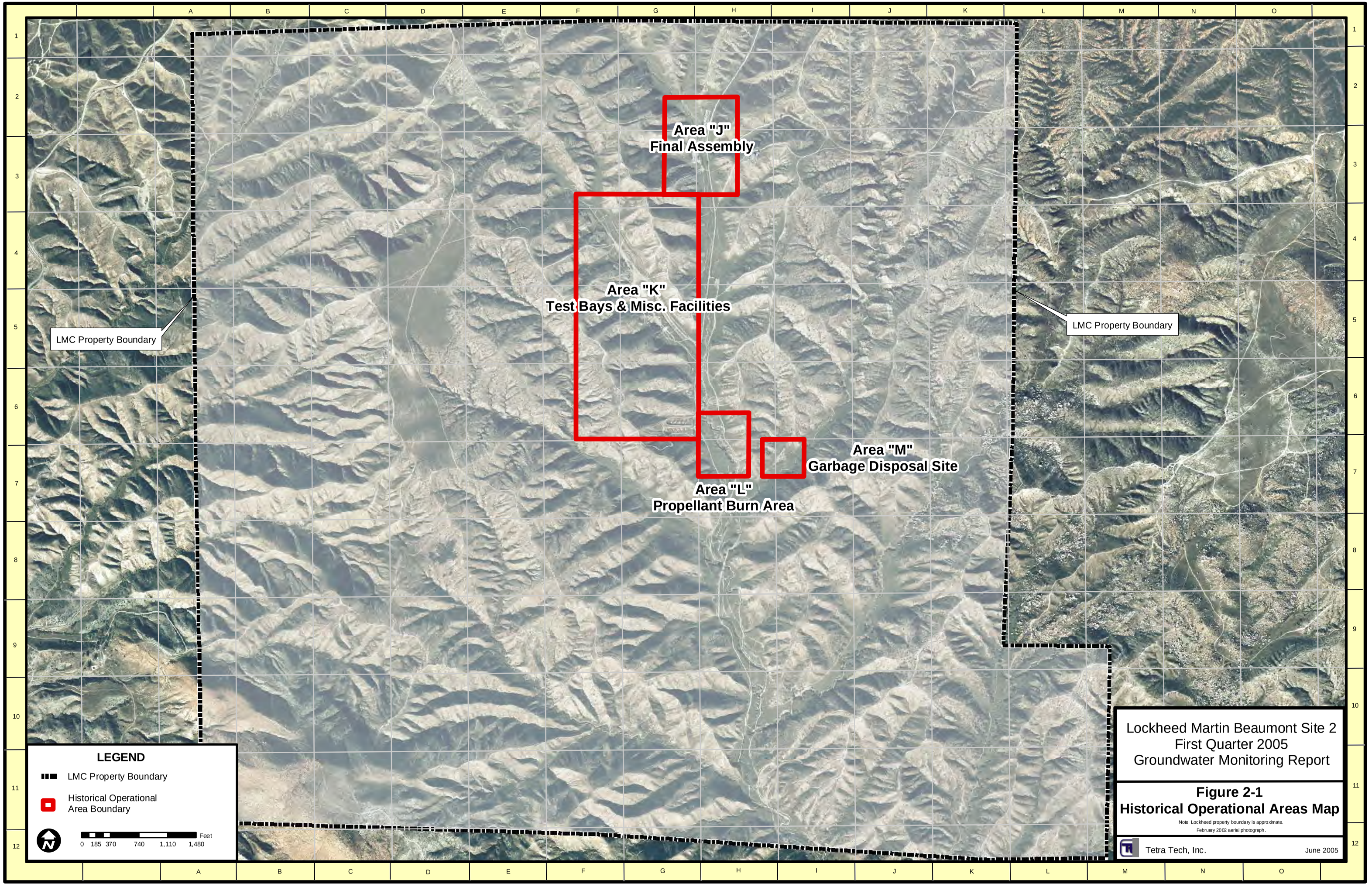

Area "J"
Final Assembly
Area "K"
Test Bays & Misc. Facilities
Area "M"
Garbage Disposal Site
Area "L"
Propellant Burn Area
LMC Property Boundary
LMC Property Boundary
LEGEND
LMC Property Boundary
Historical Operational
Area Boundary
Feet
0 185 370 740 1,110 1,480
Lockheed Martin Beaumont Site 2
First Quarter 2005
Groundwater Monitoring Report
Figure 2-1
Historical Operational Areas Map
Note: Lockheed property boundary is approximate.
February 2002 aerial photograph.
Tetra Tech, Inc.
June 2005

Table 2-1
Beaumont Site 2 Historical Operational Areas

Operational Area	Historical Operation Name	Location (Grid Points)
J	Final Assembly	G2 through H2 and G3 through H3
K	Test Bays and Miscellaneous Facilities	F3 through H3 and F6 through H6
L	Propellant Burn Area	Actual Location Unknown (approximate area: H6 through H7)
M	Garbage Disposal Site	H7 through I7

Operational Area "J"– Final Assembly

Rocket motor casings with solid propellant were transported to Building 250 within the Site where final assembly of the rocket hardware was conducted. The building was used from 1970 to 1974 for final assembly and shipment of short range attack missile (SRAM) rocket motors. Rocket motor assembly operations included installation of the nozzle and headcap, pressure check of the motor, installation of electrical systems, and preparations for shipment. During the plant closure in 1974, all usable parts of this facility were dismantled, taken off site, and sold (Radian, 1986a).

Operational Area "K"– Test Bays and Miscellaneous Facilities

A conditioning chamber and its associated bunker were located just north of the Surface Propellant Burn Area (Historical Operational Area "L"). The conditioning chamber was used to examine the effects of extreme temperatures on rocket motors and to meet specification requirements. A centrifuge was located in the western test bay, where rocket motors were centrifuged in order to determine if the solid propellant would separate from its casing under increased gravitational forces (g-forces). Four (4) test bays were located at the Site. The initial testing activities had a history of explosions that destroyed complete test areas, especially during the period when Grand Central Rocket operated at the Site. As the technology became better understood, motor failures occurred less often. Following any motor failure, the hillsides were thoroughly policed to recover any unburned solid propellant (Radian, 1986a).

Operational Area "L"– Burn Area

Large slabs of solid propellant were transported to the Site and set directly on the ground surface for burning. No pits or trenches were dug as part of the burning process. The solid propellant was saturated with diesel fuel to initiate combustion. Reportedly, the solid propellant would burn rapidly. There is no evidence or physical features that identifies the precise location of the burning activities (Radian, 1986a).

Operational Area "M"– Garbage Disposal Site

A garbage disposal site was located adjacent to a small creek at the Site. Scrap metal, paper, wood, and concrete materials were disposed of at the disposal site by LPC. Hazardous materials, including explosives and propellants, were never disposed of at this disposal site by LPC (according to employee interviews). Ogden Labs, a company that tested valves and explosive items, also used this disposal site. Reportedly, Ogden Labs disposed hazardous waste at the garbage disposal site. In 1972, a Lockheed Safety Technician was exposed to toxic vapors of unsymmetrical dimethyl hydrazine (UDMH) from a pressurized gas container located within the disposal site. Based on potential exposure risks to occupants, LPC's safety group required Ogden Labs to take measures to remove any potentially hazardous materials at the disposal site. Shortly thereafter, a disposal company was contracted by Ogden Labs to clean up the disposal site (Radian, 1986a).

2.3 PREVIOUS INVESTIGATIONS

Reports and documentation regarding environmental activities (i.e., soil/groundwater investigations, excavations, regulatory agency correspondence, etc.) were reviewed to provide a comprehensive historical environmental evaluation of the Site. The review focused upon identifying activities conducted at the Site that would describe specific findings regarding chemical impacts to groundwater. The previous investigations reviewed included a preliminary remedial investigation (Radian, 1986b), hydrogeologic investigation (Radian, 1992a), disposal area removal action report (Radian, 1993), monitoring well destruction report (LMC, 1995), and a letter report for groundwater sampling results from former production well W2-3 (Tetra Tech, 2003). These investigations are briefly summarized in the following subsections.

2.3.1 Preliminary Remedial Investigation

In October 1986, Radian Corporation (Radian) conducted a remedial groundwater and geophysical investigation at the Site (Radian, 1986b). The objective of the remedial investigation was to determine the potential presence and lateral extents of any possible contaminants in the groundwater beneath the Site. The remedial groundwater investigation was to include sampling the four (4) existing groundwater production wells (designated W2-1, W2-2, W2-3, and W2-5) at the Site and an existing groundwater production well, W2-4, located on the North Gate property (Radian, 1986b). However, only well W2-3, which is located upgradient of the probable surface propellant burn area (Historical Operational Area "L"), was accessible during this investigation. A sample was collected from well W2-3 and analyzed for purgeable hydrocarbons using U.S. Environmental Protection Agency (EPA) Method 601. Trichloroethylene (TCE) was reported at a concentration of 4.2 μg/L in the sample.

Additionally, a geophysical survey was conducted in the area previously identified as the garbage disposal area (Historical Operational Area "M"). The objective of the survey was to determine the location and physically define the lateral extents of the former permitted garbage disposal area through the use of ground penetrating radar (GPR), terrain conductivity (TC) and magnetic locator (ML). The survey identified an area of approximately 250 feet wide by 450 feet long.

2.3.2 Hydrogeologic Investigation

In 1992, Radian performed a hydrogeologic investigation at the Site in order to assess potential source areas and to characterize the subsurface soil and groundwater conditions (Radian, 1992). The investigation included performing a soil vapor survey, soil sampling, and groundwater well installation and sampling.

The soil vapor survey was performed at the garbage disposal site (Historical Operational Area "M"), final assembly building area (Historical Operational Area "J"), and propellant burn area (Historical Operational Area "L"). During the soil vapor survey, soil vapor samples were also collected at the southernmost portion of the test bays (Historical Operational Area "K"). During the investigation, a total of 42 soil vapor samples (nine at the garbage disposal site, nine at the final assembly building area, eight at the propellant burn area, and 16 general area samples) were collected at a maximum depth of 5 feet below ground surface (bgs) and analyzed for VOCs.

Analytical results from the soil vapor samples reported detectable concentrations of one or more of the following VOCs: 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), TCE, and tetrachloroethene (PCE).

A total of four (4) soil samples were collected from 5 to 6.5 feet bgs in four (4) borings (designated as BH2-1, BH2-2, BH2-6, and BH2-7) at the Site. Two soil borings (BH2-1 and BH2-2) were drilled upgradient and downgradient of the garbage disposal site. Soil boring BH2-7 was drilled adjacent to the final assembly building area and soil boring BH2-6 was drilled adjacent to well MW2-6, approximately 1,000 feet south of the final assembly building area. The soil samples were analyzed for halogenated volatile organics, aromatic volatile organics, metals, and perchlorate. The report concluded that the laboratory results for the halogenated and aromatic volatile organics did not report any of the analytes above their detection limits. The results for the metals analyses were within the range of values expected for natural soil and were below their respective Total Threshold Limit Concentrations (TTLC).

During this investigation, four (4) new groundwater monitoring wells (designated MW2-2, MW2-4, MW2-5, and MW2-6) were installed at the Site. MW2-2 is located approximately 400 feet southeast of the former propellant burn area and downgradient of the disposal area. MW2-4 is the furthest downgradient well and is located approximately 800 feet south of the former propellant burn area. Wells MW2-5 and MW2-6 are located approximately 2,600 feet and 800 feet, respectively, south of the Final Assembly Building area.

The four (4) new groundwater monitoring wells, along with three (3) of the existing production wells (designated W2-3, W2-4, and W2-5), were sampled during this investigation and analyzed for halogenated volatile organics, aromatic volatile organics, semivolatile organic, metals, and perchlorate. The laboratory results from the halogenated and aromatic volatile organics analysis indicated that none were present in the groundwater above their respective detection limits. The inorganic analytical results were also less than the detection limits for all metals except zinc, which ranged from 2,100 to 1,600 μg/L. Additionally, all seven samples were analyzed for perchlorate. Perchlorate was only reported for one sample, collected from well W2-3, at a concentration of 3,300 μg/L (detection limit 20 μg/L).

2.3.3 Disposal Area Removal Action

An electromagnetic survey (Radian, 1993) was conducted to determine the location and boundary of the former garbage disposal area (Historical Operational Area "M"). Subsurface anomalies were detected in the center portion of Historical Operational Area "M" in an area approximately 250 wide by 450 feet long. In order to visually confirm the presence of debris, a total of 12 hand-auger borings were drilled to depths ranging from 3 to 5.5 feet bgs. Based on the hand-auger sampling activities, the subsurface debris coincides with the surface debris area. Subsequently, three (3) trenches were excavated (designated north, central, and south) to approximately 5 to 8 feet bgs across the debris area. A total of nine (9) soil samples were collected and analyzed for VOCs, semivolatile organic compounds (SVOCs), and metals. Neither VOCs nor SVOCs were reported above their respective detection limits. All metals results were below the 10 times Soluble Threshold Limit Concentration (STLC) guidelines. An excavation was performed to remove all debris. A total of 816 tons of debris was removed and disposed of off site (BKK landfill). Three confirmation soil samples were collected from the perimeter and analyzed for VOCs, SVOCs, and metals. All results were below their respective guidelines. The excavation was backfilled to surrounding grade. The excavation activities were performed under the supervision of DTSC. DTSC issued a Remedial Action Certification letter on July 20, 1993 that indicated the remediation activities at the Site were completed and no further action was necessary.

2.3.4 Monitoring Well Destruction Report

Based on the Remedial Action Certification letter issued by DTSC on July 20, 2003, LMC abandoned the four (4) groundwater monitoring wells MW2-2, MW2-4, MW2-5, and MW2-6 (LMC, 1995). Prior to abandonment activities in 1995, the four (4) monitoring wells were sampled and analyzed for VOCs using EPA Methods 8010 and 8020. VOCs concentrations were not reported above their respective detection limits.

The well abandonment activities were performed in accordance with the abandonment work plan approved by the California Regional Water Quality Control Board (CRWQCB). The groundwater monitoring wells were abandoned in compliance with the County of Riverside Department of Environmental Health Services (CRDEHS) and California Department of Water Resources

Bulletin 74-90 guidelines. The wells were abandoned using a neat cement/bentonite injection technique, cutting, capping, and removal of the top 5 feet of casing through excavation, and backfilling the excavation area with native clean soils.

2.3.5 Groundwater Sampling Results Former Production Well W2-3

In January 2003, Tetra Tech conducted groundwater sampling activities at the Site (Tetra Tech, 2003). The objective of the sampling was to confirm the historical detection of perchlorate in groundwater at the Site. The field activities included the location and identification of existing production wells, recording the physical condition of each well, and groundwater sampling and analysis.

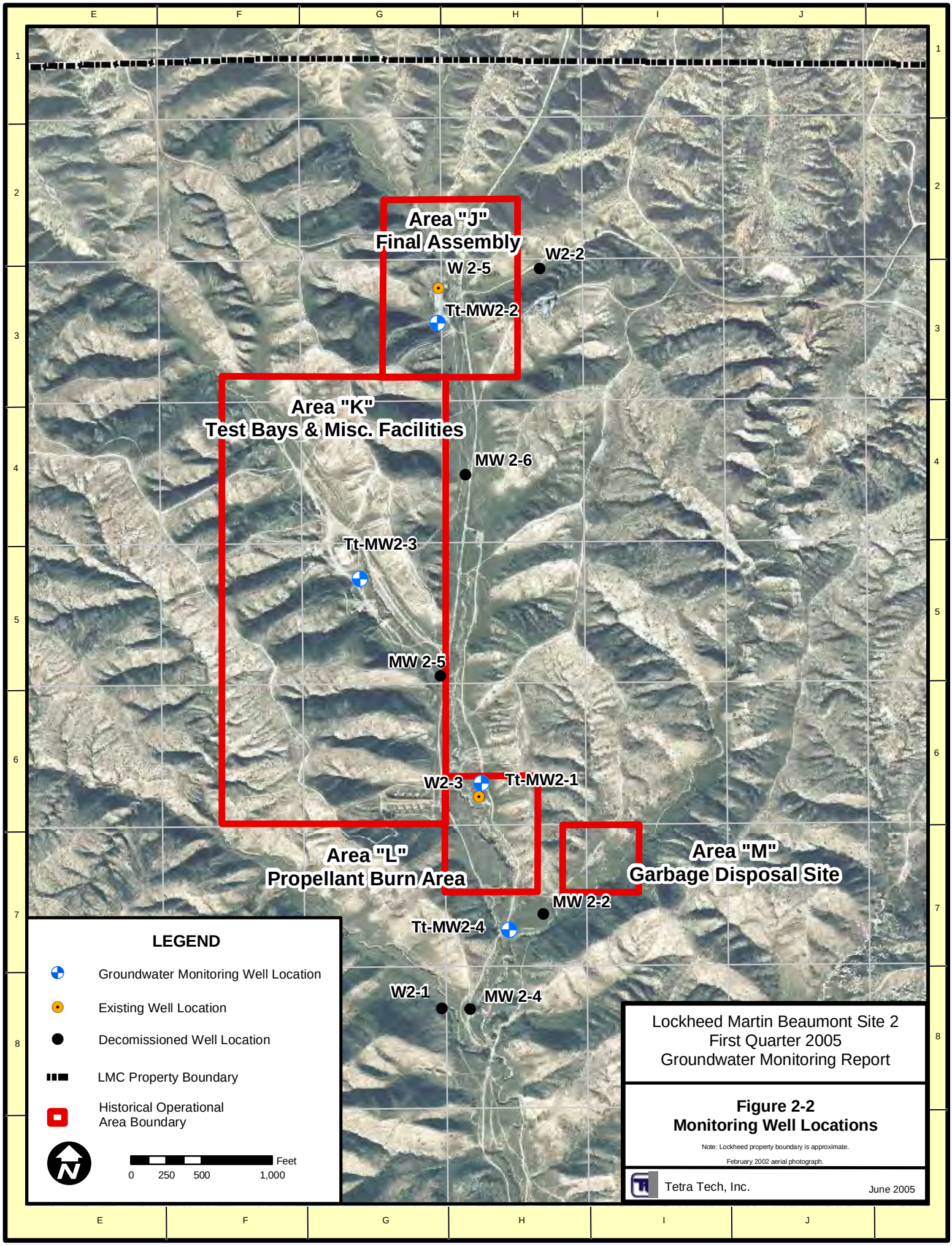
Based on a file review of Unites States Geological Survey (USGS) topographic maps, Western Municipal District and Department of Water Resource (DWR) records and available Site reports, Tetra Tech identified four (4) production wells (W2-1, W2-2, W2-3 and W2-5) at the Site. Only wells W2-3 and W2-5 were visually identified at the Site. The depth to groundwater measured in well W2-3 was 45.65 feet below the top of the casing (BTOC) and the total depth of well W2-3 was 209.94 feet BTOC. Well W2-5 was dry with a total measured depth of 86.12 feet BTOC. Based on historical documents, total well depth of W2-5 was reported to be 500 feet BTOC. A visual inspection with a mirror identified an obstruction in well W2-5, possibly consisting of dirt and debris. Therefore, only well W2-3 was sampled.

A groundwater sample was collected from W2-3 and analyzed for VOCs, perchlorate and 1,4-dioxane. Concentrations of VOCs and 1,4-dioxane were not reported above their respective detection limits. Perchlorate was detected at 4,080 μg/L in well W2-3.

2.3.6 Groundwater Monitoring Well Installation Report

In August and September 2004, Tetra Tech installed and sampled four (4) groundwater monitoring wells (designated Tt-MW2-1 through Tt-MW2-4) at the Site – *see Figure 2-2* (Tetra Tech, 2004b). The objective of the groundwater well installation program was to determine the current condition of groundwater conditions (i.e., groundwater gradient, COPCs, and extent of COPCs) at the Site.

The four (4) new groundwater monitoring wells were sampled and analyzed for VOCs, SVOCs (including 1,4-dioxane and N-Nitrosodimethylamine [NDMA]), Title 22 metals, and perchlorate. Based on the analytical results, the following constituents were reported above their respective Maximum Contaminant Level (MCL) or notification level (NL) in samples from the indicated well: perchlorate at 1,300 μg/L in Tt-MW2-3 (located in Historical Operational Area "K"); perchlorate at 3,500 μg/L in Tt-MW2-1 (located in Historical Operational Area "L"); and arsenic at 0.0853 mg/L in Tt-MW2-4 (deep) and at 0.0598 mg/L in Tt-MW2-4 (shallow) (downgradient of historical operational areas "L" and "M"). Bis-(2-ethylhexl)phthalate was also detected at 22 ug/L in Tt-MW2-3. The other COPCs were not reported above their respective MCL or NL in the analyzed groundwater samples. Based on the measured groundwater elevations, groundwater flow beneath the Site appeared to generally follow toward the southward sloping topography of Laborde Canyon.


Area "J"
Final Assembly
W2-2
W 2-5
Tt-MW2-2
Area "K"
Test Bays & Misc. Facilities
MW 2-6
Tt-MW2-3
MW 2-5
W2-3
Tt-MW2-1
Area "L"
Propellant Burn Area
Area "M"
Garbage Disposal Site
MW 2-2
Tt-MW2-4
W2-1
MW 2-4
LEGEND
Groundwater Monitoring Well Location
Existing Well Location
Decomissioned Well Location
LMC Property Boundary
Historical Operational
Area Boundary
Feet
0 250 500 1,000
Lockheed Martin Beaumont Site 2
First Quarter 2005
Groundwater Monitoring Report
Figure 2-2
Monitoring Well Locations
Note: Lockheed property boundary is approximate.
February 2002 aerial photograph.
Tetra Tech, Inc.
June 2005

SECTION 3.0
GEOLOGY AND HYDROGEOLOGY

3.1 REGIONAL GEOLOGY

The Site is located at the northern end of the Peninsular Range Geomorphic Province. In general, the Peninsular Range is a large block uplifted abruptly along its eastern edge and tilted westward. The province has a subtle northwest trend expressed by its higher mountains and longer valleys (Sharp, 1975). Major faults within the region include the San Jacinto Fault, and associated branch faults that have been mapped near the southern end of the Site. In addition, approximately 8 miles northeast of the Site, the Banning fault adjoins with the San Andreas Fault. The San Jacinto and San Andreas Fault zones have been active with moderate to major earthquakes occurring over the last 200 years.

The regional stratigraphy in the vicinity of the Site has been described and mapped by Dibblee (Dibblee, 1981). Geologic units, from oldest to youngest, consist of: the basement complex of late Paleozoic to middle Mesozoic age meta-sedimentary rocks and Mesozoic granitic rocks; non-marine sedimentary rocks of the Tertiary (Pliocene to Pleistocene) Mount Eden Formation overlain by the non-marine Tertiary sandstones and siltstones of the San Timoteo Formation; and Quaternary alluvium (Radian, 1990). A detailed description of site geology and hydrogeology is presented in the following subsections.

3.2 SITE GEOLOGY

The Site is primarily located within the confines of the Laborde Canyon valley floor and is underlain by Quaternary alluvium and colluvium. These geologic materials were derived from the weathering of the hillsides directly adjacent to the canyon. The alluvial deposits consist of very fine- to fine-grained silty sands and fine- to medium-grained poorly graded sands. These sandy zones are typically interbedded with finer grained silts and, in some cases, with silty clays.

The San Timoteo Formation, as encountered in the subsurface and exposed on site, consists of very fine-grained siltstone and very fine- to medium-grained silty sand. Some coarse pebbles and fragments were encountered in the more coarse-grained, sandy portions of the formation. The

rocks of the San Timeteo are generally poorly cemented, but are more indurated than the alluvial sediments that overlie the formation.

3.3 SITE HYDROGEOLOGY

The Site is located in an area that is commonly referred to as the "Badlands," an area of relatively soft sedimentary sandstone and siltstone deeply incised into numerous canyons by runoff. The Site is bisected by Laborde Canyon, which traverses a north-south pathway through the area. Laborde Canyon forms the principal drainage course through the Site, and allows ephemeral storm water to drain to the San Jacinto Valley. The watershed area, including the canyon itself, is ephemeral in nature and remains dry when there is no rainfall.

Groundwater at the Site is found primarily in the siltstones of the San Timoteo Formation, although these deposits yield only small quantities of water to wells (Radian, 1986b). Based on the historical and most recent groundwater levels measured at the Site, the groundwater gradient and flow direction generally follows the southward slope of the canyon floor. Recharge to the groundwater aquifer through the shallow alluvium occurs from direct infiltration of rainfall and loss from surface drainage through the sides and bottoms of stream channels.

SECTION 4.0
GROUNDWATER MONITORING ACTIVITIES

4.1 WATER LEVEL MEASUREMENTS

Water level measurements for the first quarter 2005 were collected in February 2005 from the five (5) monitoring well prior to groundwater sampling. Construction details for the wells is provided in Table 4-1. Measurements were taken at all proposed wells and there were no dry wells. Water level measurement results are discussed in Section 5.1. Copies of the field data log sheets for the groundwater monitoring wells are provided in Appendix A.

4.2 GROUNDWATER SAMPLING

A total of five (5) groundwater samples were collected and analyzed for VOCs by EPA Method 8260B, SVOCs (including 1,4-dioxane and NDMA) by EPA Method 8270C, Title 22 metals by EPA Method 6000/7000, and perchlorate by EPA Method 314.0. A summary of samples collected and analytical testing performed in provide in Table 4-2. The analytical results are discussed in Section 5.2.

Groundwater samples were collected from wells Tt-MW2-1 and Tt-MW2-3 by low-flow purging and sampling through the pump. Purging was considered complete when the water quality parameters (i.e., static water level, temperature, pH, electrical conductivity [EC], turbidity, oxidation reduction potential [ORP], and dissolved oxygen [DO]) stabilized. Stabilization of water quality parameters was used as an indication that fresh formation water had entered the well and was being purged. The criteria for stabilization of the parameters were as follows: water level +/- 0.1 foot; temperature +/- 1 degree Centigrade; pH +/- 0.1 unit; and EC +/- 5%. The data obtained during the process of purging the groundwater monitoring wells were recorded on field data log sheets (Appendix A).

Table 4-1
Monitoring Well Construction Summary

Well I.D.		Date Completed	TOC Elevation (feet MSL)	Screen Elevation TOS (feet)	Screen Elevation BOS (feet)	Screen Length (feet)	Reported Depth of Well (feet)	Borehole Diameter (inches)	Casing Diameter (inches) & material	Screen Slot Size (inches) & material	FilterPack Grain Size	Northing Coordinate (y)	Easting Coordinate (x)
Tt-MW2-1		9/1/2004	2035.21	1985.21	1965.21	20.00	70.00	12	4	0.020 PVC	RMC #3 sand	2273430.33	6325373.90
Tt-MW2-2		8/30/2004	2135.73	2032.23	2017.23	15.00	118.50	12	4	0.020 PVC	RMC #3 sand	2276662.64	6325085.92
Tt-MW2-3		8/31/2004	2092.10	2014.10	1994.10	20.00	98.00	12	4	0.020 PVC	RMC #3 sand	2274876.52	6324520.74
Tt-MW2-4S		9/7/2004	1986.94	1926.94	1916.94	10.00	70.00	12	4	0.020 PVC	RMC #3 sand	2272392.82	6325561.45
Tt-MW2-4D		9/7/2004	1987.16	1902.16	1892.16	10.00	95.00	12	4	0.020 PVC	RMC #3 sand	2272392.82	6325561.45

MW - Monitoring well

TOC - Top of Casing

TOS - Top of Screen

BOS - Bottom of Screen

Table 4-2
Monitoring Well List and Testing Summary – First Quarter 2005

Monitoring Well or Sample Location	Sample Date	VOCs/EPA 8260B	SVOCs/EPA 8270C	1,4-Dioxane/EPA 314.0	NDMA	Perchlorate/ EPA 314.0	Title 22 Metals/EPA 6010B/7000	Comments and QA/QC Samples
Tt-MW2-1	**2/16/05**	X	X	X	X	X	X	
Tt-MW2-2	**2/16/05**	X	X	X	X	X	X	**Well purged dry**
Tt-MW2-3	**2/16/05**	X	X	X	X	X	X	
Tt-MW2-4 (shallow)	**2/16/05**	X	X	X	X	X	X	**Well purged dry**
Tt-MW2-4 (deep)	**2/16/05**	X	X	X	X	X	X	**Well purged dry**
Tt-MW2-20	**2/16/05**	X	X	X	X	X	X	**Duplicate Tt-MW2-2**

Total Sample Locations	**5**
Total Samples Collected	**6**
Sample Locations Not Accessible	**0**
Dry Sample Locations	**0**

Notes:
QA/QC - Quality Assurance/Quality Control

Due to the relatively poor recovery rates at wells Tt-MW2-2, Tt-MW2-4 (shallow), and Tt-MW2-4 (deep), continuous purging could not be sustained and the wells were pumped dry before stabilization of the water quality parameters could be achieved. Once dry, the wells were allowed to recover for several hours prior to collecting a sample with a disposable bailer.

A sample identification label was affixed to each sample container and sample custody was maintained by a chain-of-custody (COC) record. The COC record was completed in the field by the individuals collecting the samples. All samples were placed in the appropriate containers and each sample identification number, date, and time of sample collection was recorded on the COC record. The samples were chilled and transported to Calscience Environmental Laboratories, Inc., a California state-accredited analytical laboratory. Trip blanks and equipment blanks were collected to assess contamination of the environmental samples while in transit and / or via sampling equipment. A copy of the COC record is provided in Appendix B.

All sampling equipment was decontaminated after use in each well. All decontamination fluids were containerized and stored on site prior to disposal.

4.3 BIOLOGICAL SURVEY

Prior to initiating the groundwater monitoring field activities, a biological survey of the groundwater monitoring wells proposed for sampling was performed by a Section 10A permitted or sub-permitted biologist to evaluate the potential for impacts to sensitive species / habitats (i.e., Stephen's Kangaroo Rat [SKR]) during the field activities. As part of the biological survey, the biologist identified and marked all potential or suspected SKR burrows that were located in the vicinity of each well location to avoid the potential "take" (i.e., harm, harassment, and / or death) of SKRs. The biologist also clearly marked the ingress and egress routes to each well location in an effort to minimize the overall footprint of the field activities and the impacts to SKR habitat.

Furthermore, all of the field activities were performed under the supervision of the biologist who monitored each work location, including ingress and egress pathways. As a result, no "take" of SKR occurred during the performance of the activities related to the water level measurement and sampling of the groundwater wells.

SECTION 5.0
SUMMARY OF ANALYTICAL RESULTS

5.1 GROUNDWATER OCCURENCE AND FLOW

Water level measurements were collected from wells Tt-MW2-1 through Tt-MW2-4 on February 16, 2005. A tabulated summary of the measured depths to water and calculated groundwater elevations is presented in Table 5-1.

Table 5-1
Summary of Groundwater Elevation Data – First Quarter 2005

Well ID	Date Measured	Measuring Point Elevation (feet MSL)	Depth to Water (feet)	Groundwater Elevation (feet MSL)
Tt-MW2-1	02/16/05	2035.21	54.69	1980.52
Tt-MW2-2	02/16/05	2135.73	69.38	2066.35
Tt-MW2-3	02/16/05	2092.10	69.10	2023.00
Tt-MW2-4 (shallow)	02/16/05	1986.94	48.95	1937.99
Tt-MW2-4 (deep)	02/16/05	1987.16	56.25	1930.91

Notes: MSL = above mean sea level
bgs = below ground surface

Based on the measured groundwater elevations, groundwater flow beneath the Site generally follows the southward sloping topography of Laborde Canyon. This pattern is consistent with that observed in a previous hydrogeologic study of the area (Radian, 1992b) and during the groundwater monitoring well installation program conducted in August and September 2004 (Tetra Tech, 2004b). However, it is unclear if this pattern is truly representative of actual hydraulic conditions, as there is some indication that a more complex or multi-layered hydrogeologic system exists beneath the Site.

5.2 ANALYTICAL SAMPLING RESULTS

On February 16, 2005, a total of five (5) groundwater samples were collected and analyzed for VOCs, SVOCs (including 1,4-dioxane and NDMA), Title 22 metals, and perchlorate. A summary of these analytical results is presented in Table 5-2. A copy of the laboratory analytical report is provided in Appendix B. Validated sample results are provided by method in Appendix C.

Trichloroethylene (TCE) (1.2 µg/L), toluene (1.8 µg/L), and xylenes (1.8 µg/L) were the only VOCs detected and were only detected in the groundwater sample collected from well Tt-MW2-3 (located within Historical Operational Area "K"). The reported concentrations were below their respective MCL. A summary of the analytical results for VOCs is presented in Table 5-2.

SVOCs, including 1,3-dioxane and NDMA, were not detected in any of the analyzed groundwater samples.

Table 5-2
Summary of Volatile Organic Compound Results

Sample Location	Sample Date	VOCs (µg/L)
Tt-MW2-1	02/16/05	ND*
Tt-MW2-2	02/16/05	ND*
Tt-MW2-20 (DUP.)	02/16/05	ND*
Tt-MW2-3	02/16/05	TCE = 1.2 Toluene = 1.8 Xylenes = 1.8
Tt-MW2-4 (shallow)	02/16/05	ND*
Tt-MW2-4 (deep)	02/16/05	ND*
Equipment Blank	02/16/05	ND*
Trip Blank	02/16/05	ND*
Reporting Limit (µg/L)		1.0
[(1)]Maximum Contaminant Level (µg/L)		5.0 (TCE) 150 (toluene) 1,750 (xylenes)

Notes: (1) - Based on Title 22 California Code of Regulations, unless otherwise indicated
µg/L – micrograms per liter
DUP. – duplicate sample
N/A - not analyzed
ND – compound not detected at or above its respective reporting limits
VOC – volatile organic compound
* None of the VOCs analyzed under EPA Method 8260B were detected at or above their respective reporting limits

Based on the analytical results of the Title 22 metals analyses, arsenic, barium, molybdenum, vanadium, and zinc were detected in the groundwater samples. However, all reported concentrations were below their respective drinking water MCL, except for the reported concentration of arsenic in the sample from well Tt-MW2-4 (deep) (0.0791 mg/L). A summary of the analytical results for the Title 22 metals is presented in Table 5-3.

Table 5-3
Summary of Title 22 Metals Results

Sample Location	Sample Date	Title 22 Metals (mg/L)				
		Arsenic	**Barium**	**Molybdenum**	**Vanadium**	**Zinc**
Tt-MW2-1	02/16/05	ND	0.0933	0.0074	0.0063	0.033
Tt-MW2-2	02/16/05	ND	0.0266	ND	0.0131	0.018
Tt-MW2-20 (DUP.)	02/16/05	ND	0.0200	ND	0.0127	0.0125
Tt-MW2-3	02/16/05	ND	0.0974	ND	ND	ND
Tt-MW2-4 (shallow)	02/16/05	0.0427	0.0752	0.0173	0.0812	ND
Tt-MW2-4 (deep)	02/16/05	**0.0791**	ND	0.0116	0.0995	ND
Equipment Blank	02/16/05	ND	ND	ND	ND	ND
Reporting Limit (mg/L)		0.01	0.01	0.005	0.005	0.01
[(1)]Maximum Contaminant Level (mg/L)		0.05	1.0	NE	NE	NE

Notes:
(1) - Based on Title 22 California Code of Regulations, unless otherwise indicated
mg/L – milligrams per liter
DUP. – duplicate sample
bold – at or above maximum contaminant level/Action Level
N/A - not analyzed
ND – compound not detected at or above its respective reporting limits
NE - not established

Perchlorate was not detected in the groundwater samples collected from wells Tt-MW2-2, Tt-MW2-4 (shallow), or Tt-MW2-4 (deep). However, perchlorate was detected at concentrations of 7,100 µg/L and 740 µg/L in the samples collected from wells Tt-MW2-1 and Tt-MW2-3, respectively. A summary of the analytical results for perchlorate is presented in Table 5-4.

Table 5-4
Summary of Perchlorate Results

Sample Location	Sample Date	Perchlorate (µg/L)
Tt-MW2-1	02/16/05	**7,100**
Tt-MW2-2	02/16/05	ND
Tt-MW2-20 (DUP.)	02/16/05	ND
Tt-MW2-3	02/16/05	**740**
Tt-MW2-4 (shallow)	02/16/05	ND
Tt-MW2-4 (deep)	02/16/05	ND
Equipment Blank	02/15/05	ND
Reporting Limit (µg/L)		2.0
(1)Maximum Contaminant Level (µg/L)		6.0(1)

Note: (1) - Current State of California Notification Level
bold – at or above maximum contaminant level/Action Level
µg/L – micrograms per liter
DUP. – duplicate sample
N/A - not analyzed
ND – compound not detected at or above its respective reporting limits

SECTION 6.0
EVALUATION OF FINDINGS

As part of the Site groundwater characterization program, Tetra Tech conducted quarterly monitoring in the first quarter of 2005 to monitor COPCs (i.e., VOCs, SVOCs, 1,4-dioxane, NDMA, Title 22 metals, and perchlorate) in groundwater beneath the Site. Groundwater samples were collected and groundwater level measurements were recorded from wells Tt-MW2-1 through Tt-MW2-4 on February 16, 2005.

Based on the groundwater elevations results discussed in Section 5.1, groundwater flow beneath the Site generally follows toward the southward sloping topography of Laborde Canyon. This pattern is consistent with that observed in a previous hydrogeologic study of the area (Radian, 1992b) and during the groundwater monitoring well installation program conducted in August and September 2004 (Tetra Tech, 2004b).

The reported concentrations of perchlorate in groundwater samples from wells Tt-MW2-1 (7,100 μg/L) and Tt-MW2-3 (740 μg/L), and arsenic in the sample from Tt-MW2-4 (deep) (0.0791 mg/L) were above their respective MCL or NL. The other COPCs were not reported above their respective notification levels (e.g., MCL or NL) in the analyzed groundwater samples. These wells showed similar detected concentrations in the September 2004 sampling event. However, there is insufficient water quality data to identify trends in the reported COPC concentrations.

Subsequent sampling events will including analytical testing for only VOCs, perchlorate, and metals. The compounds NDMA and 1,4-dioxane have not been detected in Site 2 monitoring wells and testing will no longer be performed for these compounds.

SECTION 7.0
REFERENCES

Dibblee, T. W., 1981. Geologic Map of Banning, 15-Minute Quadrangle, California, South Coast Geological Society, 1981.

Lockheed Martin Corporation, 1995. Monitoring Well Destruction Report, Former Lockheed Propulsion Company, Beaumont No. 2 Facility, Beaumont, California, November 15, 1995.

Radian, 1986a. Lockheed Propulsion Company Beaumont Test Facilities Historical Report, September 1986.

_____, 1986b. Preliminary Remedial Investigation, Lockheed Propulsion Company Beaumont Test Facilities, December 1986.

_____, 1990. Source and Hydrogeologic Investigation – Final, Lockheed Propulsion Company Beaumont Test Facilities, February 19, 1990.

_____, 1992a. Hydrogeologic Investigation and Landfill Investigation Workplan, Lockheed Propulsion Company Beaumont No. 2 Facility, July 1992.

_____, 1992b. Hydrogeologic Study, Lockheed Propulsion Company Beaumont Test Facilities, December 1992.

_____, 1993. Disposal Area Removal Action, Lockheed Propulsion Company, Beaumont No. 2 Site, June 1993.

Sharp, R. P., 1975. Geology Field Guide to Southern California, Kendall/Hunt Geology Field Guide Series, Second Edition, 1975.

Tetra Tech, Inc., 2003. Groundwater Sampling Results, Former Production Well W2-3, Beaumont Site 2, February 5, 2003.

_____, 2004a. Final Lockheed Martin Beaumont Site 2 Groundwater Monitoring Well Installation Work Plan Beaumont, California, January 23, 2004.

_____, 2004b. Final Lockheed Martin Beaumont Site 2 Groundwater Monitoring Well Installation Report Beaumont, California, November 15, 2004.

APPENDIX A

GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET - PURGING

Page ___ of ___

DATE: 2-16-05
SITE NUMBER: Beaumont #2
PROGRAM NAME: Beaumont Site 2 GW Sampling
MONITORING WELL IDENTIFICATION: Tt-MW2-1
SAMPLE I.D.: Tt-MW2-1
DUPLICATE I.D.: —
STATIC WATER LEVEL (ft btoc): 54.69
TOTAL WELL DEPTH (feet): 73.25
WATER COLUMN (feet): 18.56
CASING/TUBING DIAMETER (in/ft): 4"
WELL/PUMP VOLUME (V) (gals): 18.56 x .65 = 12.064
3 V (gals): 36.19

PURGING DEVICE: Grundfos Rediflo II - dedicated line
SAMPLING DEVICE: Grundfos Rediflo II - dedicated line
OVA: FID ☐ PID ☐ In Casing (ppm) (initial) ______ (vented to) ______
IN BREATHING ZONE (ppm) (initial) ______ (vented to) ______
FINAL PUMP DEPTH (feet): ~~Ch~~ 68
SAMPLER'S SIGNATURE: [signature]

Time	Activity	Water Level (ft btoc)	Pump Depth (ft btoc)	Temp (Deg. C/F)	EC (~~µmhos/cm~~) mS/cm	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)	Color	Volume Purged (gals)	Bore Hole Volumes Purged	Flow Rate (mlPM / GPM)
11:55	Start Pump	54.69	68	—	—	—	—	—	—	—	Ø	Ø	0.5
12:05		57.65	68	24.43	1.232	7.70	237	2.16	-15.4	Cloudy	5.0	.41	0.5
12:10		58.10	68	24.48	1.245	7.68	102.4	2.25	-14.9	Cloudy	7.5	.62	0.5
12:15		58.25	68	24.49	1.260	7.66	144	2.34	-14.7	" "	10.0	.82	0.5
12:20		58.24	68	24.73	1.284	7.66	237	2.43	-14.6	" "	12.5	1.04	0.5
12:25		58.28	68	24.59	1.324	7.61	359	2.58	-11.3	" "	15.0	1.25	0.5
12:30		58.31	68	24.56	1.340	7.59	392	2.65	-9.5	" "	17.5	1.45	0.5
12:35		58.33	68	24.60	1.346	7.59	345	2.70	-8.1	" "	20.0	1.66	0.5
12:40	Collect Sample												

Fe+2 (ppm) ______ Taken from first bailer, immediately before sampling.

Comments: Turbidity stabilization parameter not able to be met.

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature ±1° C (1.8°F)	Conductivity ± 5%
pH ± 0.1	Turbidity ≤5 NTUs

Note: All water levels and pump depths are measured from the notch in the top of the well casing. If volatiles are detected in the breathing zone during the initial screening, the breathing zone will be periodically monitored during purging and sampling activities and recorded in the logbook..

V:\graphics\amp\BGMP-AFRC\BGMP cord\draw\figs\purge\table.cdr

GROUNDWATER MONITORING WELL FIELD DATA LOG SHEET - PURGING

DATE 2-16-05 SITE NUMBER Beaumont #2
PROGRAM NAME Lockheed Beaumont GW Sampling
MONITORING WELL IDENTIFICATION Tt-MW2-2
SAMPLE I.D. Tt-MW2-2 DUPLICATE I.D. Tt-MW2-20
STATIC WATER LEVEL (ft btoc) 69.38 TOTAL WELL DEPTH (feet) 120.25
WATER COLUMN (feet) 50.87 CASING/TUBING DIAMETER (in/ft) 4
WELL/PUMP VOLUME (V) (gals) 50.87 × .65 = 33.07 3 V (gals) 99.20

PURGING DEVICE Grundfos Redi-flo II dedicated hose
SAMPLING DEVICE Disposable bailer
OVA: FID ☐ PID ☐ In Casing (ppm) (initial) N/A (vented to)
IN BREATHING ZONE (ppm) (initial) N/A (vented to)
FINAL PUMP DEPTH (feet) 119
SAMPLER'S SIGNATURE [signature]

Time	Activity	Water Level (ft btoc)	Pump Depth (ft btoc)	Temp (Deg. C/F)	EC ~~(umhos/cm)~~ mS/cm	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)	Color	Volume Purged (gals)	~~Bore Hole~~ Casing Volumes Purged	Flow Rate (mlPM / GPM)
9:25	start pump	69.38	119	—	—	—	—	—	—	—	Ø	Ø	0.5
9:35	—	72.91	119	22.22	.736	8.72	89.5	0.61	-27.5	Cloudy	5	.15	0.5
9:40	—	74.0	119	22.53	.715	8.71	63.7	0.70	-27.6	slightly cloudy	7.5	.23	0.5
9:45	—	75.12	119	22.93	.700	8.71	53.0	0.81	-29.3	" "	10.0	.30	0.5
9:50	—	76.21	119	22.56	.692	8.74	42.1	0.62	-36.0	" "	12.5	.37	0.5
9:55	* increase pump rate	77.21	119	22.9	.701	8.73	72.3	0.61	-35.7	" "	15.0	.45	1.5
10:00		80.4	119	22.7	.726	8.67	336	0.60	-36.9	" "	22.5	.68	1.5
10:05		87.42	119	22.51	.698	8.53	154	0.65	-32.8	cloudy "	30	.91	1.5
10:10		90.25	119	22.60	.698	8.63	99.9	0.67	-35.7	cloudy "	37.5	1.13	1.5
10:13		92.93	119	22.72	.820	8.64	55.10	0.80	-35.0	slightly cloudy	35	1.06	1.5
10:20		96.27	119	22.25	.978	8.63	194.0	0.09	-32.4	" "	42.5	1.29	1.5
10:23		103.42	119	22.28	.730	8.55	593	1.66	-26.9	Cloudy "	50.0	1.51	1.5
10:30		107.41	119	22.50	.791	8.57	545	2.18	-25.2	Cloudy	57.5	1.74	1.5
10:35		109.46	119	22.03	.791	8.62	564	1.43	-30.6	" "	65.0	1.97	1.5
10:40		114.26	119	22.97	.722	8.59	620	0.80	-40.2		72.5	2.19	1.5
10:46	Well Ran	Dry	- will	return	later in	day	after	recharge	to	sample -	80.0	2.42	1.5

Fe+2 (ppm) ________ Taken from first bailer, immediately before sampling.

PARAMETERS FOR WATER QUALITY STABILIZATION
Temperature ±1° C (1.8°F) Conductivity ±5%
pH ±0.1 Turbidity ≤5 NTUs

Comments: * Increasing pump rate as water level will not stabilize
historic sampling shows WL will not stabilize.
will draw well dry and then return later in day to sample after recharge
Sampled at 15:30 Water level at 91.35'

Note: All water levels and pump depths are measured from the notch in the top of the well casing. If volatiles are detected in the breathing zone during the initial screening, the breathing zone will be periodically monitored during purging and sampling activities and recorded in the logbook.

GROUNDWATER MONITORING WELL FIELD DATA LOG SHEET - PURGING

DATE 2-16-05 SITE NUMBER Beaumont #2

PROGRAM NAME LMC Beaumont

MONITORING WELL IDENTIFICATION Tt - MW2 - 3

SAMPLE I.D. Tt-MW2-3 DUPLICATE I.D. ——

STATIC WATER LEVEL (ft btoc) 69.10 TOTAL WELL DEPTH (feet) 101.33

WATER COLUMN (feet) 32.23 CASING/TUBING DIAMETER (in/ft) 4"

WELL/PUMP VOLUME (V) (gals) 32.23 x .15 20.95 gal 3 V (gals) 62.85

PURGING DEVICE Grundfos Rediflo II (dedicated hose)

SAMPLING DEVICE Grundfos Rediflo II (dedicated hose)

OVA: FID ☐ PID ☐ In Casing (ppm) (initial) N/A (vented to) ____

IN BREATHING ZONE (ppm) (initial) N/A (vented to) ____

FINAL PUMP DEPTH (feet) 100

SAMPLER'S SIGNATURE [signature]

Time	Activity	Water Level (ft btoc)	Pump Depth (ft btoc)	Temp (Deg. C / F)	EC ~~(umhos/cm)~~ mS/cm	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)	Color	Volume Purged (gals)	Bore Hole Volumes Purged	Flow Rate (mlPM / GPM)
16:15	Start Pump	69.10	100	—	—	—	—	—	—	—	—	—	0.5
16:20		72.33	100	23.74	1.253	7.49	60.0	7.31	13.1	Slightly cloudy	2.5	.12	0.5
16:25		72.84	100	23.92	1.258	7.45	17.0	7.45	14.7	Clear	5.0	.24	0.5
16:30		72.79	100	23.94	1.260	7.41	7.8	7.33	16.2	Clear	7.5	.36	0.5
16:35		72.78	100	24.03	1.263	7.42	70	7.30	15.9	Clear	10.0	.48	0.5
16:40		72.78	100	24.06	1.266	7.41	5.5	7.40	15.8	Clear	12.5	.60	0.5
16:45		72.78	100	24.04	1.265	7.42	4.8	7.41	15.9	Clear	15.0	.72	0.5
16:50		72.78	100	24.05	1.266	7.41	4.5	7.45	16.1	Clear	17.5	.84	0.5
16:55	Sampling												

Fe+2 (ppm) ________ Taken from first bailer, immediately before sampling.

Comments: ____

PARAMETERS FOR WATER QUALITY STABILIZATION	
Temperature ± 1° C (1.8°F)	Conductivity ± 5%
pH ± 0.1	Turbidity ≤ 5 NTUs

Note: All water levels and pump depths are measured from the notch in the top of the well casing. If volatiles are detected in the breathing zone during the initial screening, the breathing zone will be periodically monitored during purging and sampling activities and recorded in the logbook..

V:\graphics\trp\BGMP-AFRCBGMP coreldraw\figs\purgetable.cdr

Tt

GROUNDWATER MONITORING WELL FIELD DATA LOG SHEET - PURGING

DATE: 2-16-05 SITE NUMBER: Beaumont #2

PROGRAM NAME: LMC Beaumont #2 GW Sampling

MONITORING WELL IDENTIFICATION: TT-MW2 - 4 Shallow

SAMPLE I.D.: TT-MW2-4S DUPLICATE I.D.: —

STATIC WATER LEVEL (ft btoc): 48.95 TOTAL WELL DEPTH (feet): 73.15

WATER COLUMN (feet): 24.2 CASING/TUBING DIAMETER (in/ft): 4"

WELL/PUMP VOLUME (V) (gals): 24.2 x .65 = 15.73 gal 3 V (gals): 47.19

PURGING DEVICE: Grundfos Rediflo II - dedicated line

SAMPLING DEVICE: Disposable Bailer

OVA: FID ☐ PID ☐ In Casing (ppm) (initial) N/A (vented to) ______

IN BREATHING ZONE (ppm) (initial) NA (vented to) ______

FINAL PUMP DEPTH (feet): 72'

SAMPLER'S SIGNATURE: [signature]

Time	Activity	Water Level (ft btoc)	Pump Depth (ft btoc)	Temp (Deg. C/F)	EC (µmhos/cm) x ____	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)	Color	Volume Purged (gals)	Bore Hole Volumes Purged	Flow Rate (mlPM / GPM)
13:30	Start Pump	48.95	72	—	—	—	—	—	—	—	Ø	Ø	1.5
13:35		58.94	72	22.96	0.551	8.43	57.2	3.91	-9.5	slightly cloudy	7.5	.48	1.5
13:40		64.61	72	23.11	0.550	8.42	38.7	3.86	-7.7	" "	15.0	.95	1.5
13:45		66.33	72	23.20	0.555	8.50	41.8	3.47	-10.2	" "	22.5	1.43	1.5
13:50		69.25	72	23.36	0.557	8.64	72.5	1.69	-16.4	" "	30.0	1.91	1.5
13:55		70.83	72	23.56	0.626	8.60	84.3	0.86	-19.7		37.5	2.38	1.5
13:56	Well Ran Dry will Return later to sample after recharge												
17:10	Sampling	6 Bottle											

Fe+2 (ppm) ______ Taken from first bailer, immediately before sampling.

Comments: Historically Well will not stabilize for water level will draw down well to bottom and return later in day to sample after recharge

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature ±1° C (1.8°F) Conductivity ± 5%

pH ± 0.1 Turbidity ≤ 5 NTUs

Note: All water levels and pump depths are measured from the notch in the top of the well casing. If volatiles are detected in the breathing zone during the initial screening, the breathing zone will be periodically monitored during purging and sampling activities and recorded in the logbook..

Page ___ of ___

GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET - PURGING

DATE 2-18-05 SITE NUMBER Beaumont #2

PROGRAM NAME LMC Beaumont GW Sampling

MONITORING WELL IDENTIFICATION Tt-MW2-4 Deep

SAMPLE I.D. Tt-MW2-4D DUPLICATE I.D. —

STATIC WATER LEVEL (ft btoc) 56.25 TOTAL WELL DEPTH (feet) 98.05

WATER COLUMN (feet) 41.80 CASING/TUBING DIAMETER (in/ft) 4"

WELL/PUMP VOLUME (V) (gals) 41.80 x .65 = 27.17 gal 3 V (gals) 81.51

PURGING DEVICE Grundfos Redi-flo II - dedicated hose

SAMPLING DEVICE Disposable Bailer

OVA: FID ☐ PID ☐ In Casing (ppm) (initial) N/A (vented to) ___

IN BREATHING ZONE (ppm) (initial) N/A (vented to) ___

FINAL PUMP DEPTH (feet) 97

SAMPLER'S SIGNATURE [signature]

Time	Activity	Water Level (ft btoc)	Pump Depth (ft btoc)	Temp (Deg. C/F)	EC (µmhos/cm) x ___	pH	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)	Color	Volume Purged (gals)	Bore Hole Volumes Purged	Flow Rate (mlPM / GPM)
14:10	start Pump	56.25	97	—	—	—	—	—	—	—	—	—	1.5
14:15		69.90	97	23.40	0.444	8.88	50.0	1.79	-20.8	slightly cloudy	7.5	.28	1.5
14:20		74.10	97	23.52	0.446	8.92	38.0	1.60	-21.9	" "	15.0	.55	1.5
14:25		77.78	97	23.67	0.447	8.97	40.0	1.39	-24.1	" "	22.5	.83	1.5
14:30		81.53	97	23.58	0.447	9.04	34.0	1.28	-26.0	" "	30.0	1.10	1.5
14:35		89.35	97	23.45	0.453	8.95	30.0	1.58	-23.4	" "	37.5	1.38	1.5
14:40		92.18	97	23.62	0.438	9.17	95.0	0.16	-31.3		45	1.66	1.5
14:45		93.46	97	23.66	0.424	9.18	85.0	0.08	-31.9		52.5	1.93	1.5
14:48	Well Ran Dry - Will Return later in day to sample after recharge												
17:20	Sampling	~~60.46~~ 78.69											

Fe+2 (ppm) ________ Taken from first bailer, immediately before sampling.

Comments: Historically well will not stabilize for water level. Will draw well down to bottom and return later in day after recharge to sample

PARAMETERS FOR WATER QUALITY STABILIZATION
Temperature ±1° C (1.8°F) Conductivity ±5%
pH ±0.1 Turbidity ≤5 NTUs

Note: All water levels and pump depths are measured from the notch in the top of the well casing. If volatiles are detected in the breathing zone during the initial screening, the breathing zone will be periodically monitored during purging and sampling activities and recorded in the logbook.

L. M. Ho 2020

~~ESD Model 800~~ Turbidity Meter
Calibration Log

Date: 2-16-05 Time: 7:15 Serial Number: 4773-6903

Light box and turbidity vial clean and lint-free? yes X no _____

Expected turbidity of water < 5 NTU Battery Check O/C

Turbidity standards used for calibration 0 & 10 NTU
(Standards used for calibration should bracket expected turbidity)

0-20 NTU range adjusted to 0 NTU standard? yes _____ no _____
(Use zero control and/or potentiometer O)

0-20 NTU range adjusted to 10 NTU standard? yes _____ no _____
(Use potentiometer 20)

0-200 NTU range adjusted to 10 NTU standard? yes _____ no _____
(Use potentiometer 200)

10 standard calibrated to 10 NTU
after calibration 1 NTU standard
reads 0.96

Turbidity readings at the end of the day:

10 NTU standard on 0-20 scale reads _____ NTU

10 NTU standard on 0-200 scale reads _____ NTU

Comments: _____

_____

Initial calibration performed by: CRS

Final calibration check performed by: _____

YSI 556 Multi Probe System – Calibration Log

Date 2-16-05 Time 7:30 Serial Number 02M0361 AA

1. Accessing the Calibration Screen
   a. press the power key to display the run screen
   b. press the escape Esc key to display the main menu screen
   c. use the arrow keys to highlight the Calibrate selection
   d. press the enter key to display the calibration screen

2. Conductivity Calibration Conductivity Standard Used 1.413 Initial Reading 1.162
   a. use the arrow keys to highlight the Conductivity selection
   b. press the enter key to display the conductivity calibration screen
   c. use the arrow keys to highlight the Specific Conductance selection
   d. press the enter key to display the conductivity calibration screen
   e. place 55 ml of a known conductivity standard in the transport / calibration cup and screw onto the probe module
   f. use the key pad to enter the value of the calibration standard (in mS/cm at 25 C)
   g. press the enter key to enter the conductivity calibration screen, allow a minimum of one minute for temperature equilibration
   h. observe the readings for specific conductance, when the reading shows no significant change for 30 seconds press the enter key to continue
   i. press the enter key to return to the conductivity calibration screen
   j. press the Esc key to return to the calibration screen

3. pH Calibration pH Standards Used 7 / 4 Initial Readings 7.04 / 4.04
   a. use the arrow keys to highlight the pH selection
   b. press the enter key to display the pH calibration screen
   c. use the arrow keys to highlight the 2 point selection
   d. press the enter key to display the pH calibration screen
   e. place 30 ml of a known pH standard in the transport / calibration cup and screw onto the probe module
   f. use the key pad to enter the value of the calibration standard (at the current temperature)
   g. press the enter key to enter the pH calibration screen, allow a minimum of one minute for temperature equilibration
   h. observe the readings for pH, when the reading shows no significant change for 30 seconds press the enter key to continue
   i. press the enter key to return to the pH calibration screen
   j. repeat steps d – I for the second calibration standard
   k. press the Esc key to return to the calibration screen

4. Dissolved Oxygen Calibration
   a. use the arrow keys to highlight the Dissolved Oxygen selection
   b. press the enter key to display the dissolved oxygen calibration screen
   c. use the arrow keys to highlight the DO % selection
   d. press the enter key to display the dissolved oxygen barometric pressure screen
   e. place 1/8" ml of tap water in the transport / calibration cup and screw onto the probe module (engage only one or two threads to ensure that the DO sensor is vented to the atmosphere)
   f. press the enter key to enter the DO% calibration screen, allow a minimum of ten minutes for the air to become water saturated
   g. observe the readings for DO, when the reading shows no significant change for 30 seconds press the enter key to continue
   h. press the enter key to return to the DO calibration screen
   l. press the Esc key to return to the calibration screen

5. ORP Calibration ORP Standard Used _____ Initial Reading _____
   a. use the arrow keys to highlight the ORP selection
   b. press the enter key to display the ORP calibration screen
   c. place 30 ml of a known ORP standard in the transport / calibration cup and screw onto the probe module
   d. use the key pad to enter the value of the calibration standard (at the current temperature)
   e. press the enter key to enter the ORP calibration screen, allow a minimum of one minute for temperature equilibration
   f. observe the readings for ORP, when the reading shows no significant change for 30 seconds press the enter key to continue
   g. press the enter key to return to the ORP calibration screen
   h. press the Esc key to return to the calibration screen

APPENDIX B

Calscience
Environmental
Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

February 24, 2005

Neil Shukla
Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Subject: **Calscience Work Order No.:** **05-02-0998**
Client Reference: **Lockheed - Beaumont 2GW Sampling / 13505-02**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/17/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jason Torres
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-P	**05-02-0998-2**	**02/15/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03F**

Comment(s): -Mercury was analyzed on 2/18/2005 3:11:03 PM with batch 050218L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium (Total)	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-B	**05-02-0998-3**	**02/15/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03F**

Comment(s): -Mercury was analyzed on 2/18/2005 3:14:07 PM with batch 050218L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium (Total)	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-1	**05-02-0998-4**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03F**

Comment(s): -Mercury was analyzed on 2/18/2005 3:17:12 PM with batch 050218L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	0.00736	0.00500	1	
Barium	0.0933	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium (Total)	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.00626	0.00500	1	
Copper	ND	0.00500	1		Zinc	0.0334	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-2	**05-02-0998-5**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03F**

Comment(s): -Mercury was analyzed on 2/18/2005 3:20:17 PM with batch 050218L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	0.0266	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium (Total)	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.0131	0.0050	1	
Copper	ND	0.00500	1		Zinc	0.0179	0.0100	1	
Lead	ND	0.0100	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-3	**05-02-0998-6**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03F**

Comment(s): -Mercury was analyzed on 2/18/2005 3:23:22 PM with batch 050218L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	0.0974	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium (Total)	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4S	**05-02-0998-7**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03F**

Comment(s): -Mercury was analyzed on 2/18/2005 3:26:29 PM with batch 050218L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0427	0.0100	1		Molybdenum	0.0173	0.0050	1	
Barium	0.0752	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium (Total)	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.0812	0.0050	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4D	**05-02-0998-8**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03F**

Comment(s): -Mercury was analyzed on 2/18/2005 3:29:32 PM with batch 050218L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	0.0791	0.0100	1		Molybdenum	0.0116	0.0050	1	
Barium	ND	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium (Total)	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.0995	0.0050	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	
Lead	ND	0.0100	1						

Tt-MW2-20	**05-02-0998-9**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03F**

Comment(s): -Mercury was analyzed on 2/18/2005 3:32:30 PM with batch 050218L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Mercury	ND	0.000500	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.00500	1	
Barium	0.0200	0.0100	1		Nickel	ND	0.00500	1	
Beryllium	ND	0.00100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.00500	1		Silver	ND	0.00500	1	
Chromium (Total)	ND	0.00500	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.00500	1		Vanadium	0.0127	0.0050	1	
Copper	ND	0.00500	1		Zinc	0.0125	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-1,827**	**N/A**	**Aqueous**	**02/18/05**	**02/18/05**	**050218L01F**

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	**097-01-003-4,594**	**N/A**	**Aqueous**	**02/17/05**	**02/17/05**	**050217L03F**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Molybdenum	ND	0.00500	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.00500	1	
Barium	ND	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.00100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.00500	1		Thallium	ND	0.0150	1	
Chromium (Total)	ND	0.00500	1		Vanadium	ND	0.00500	1	
Cobalt	ND	0.00500	1		Zinc	ND	0.0100	1	
Copper	ND	0.00500	1		Lead	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: N/A
Method: EPA 314.0

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-P	**05-02-0998-2**	**02/15/05**	**Aqueous**	**N/A**	**02/23/05**	**050222L01**

Parameter	Result	RL	DF	Qual	Units
Perchlorate	ND	2.0	1		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-B	**05-02-0998-3**	**02/15/05**	**Aqueous**	**N/A**	**02/23/05**	**050222L01**

Parameter	Result	RL	DF	Qual	Units
Perchlorate	ND	2.0	1		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-1	**05-02-0998-4**	**02/16/05**	**Aqueous**	**N/A**	**02/23/05**	**050222L01**

Parameter	Result	RL	DF	Qual	Units
Perchlorate	7100	400	200		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-2	**05-02-0998-5**	**02/16/05**	**Aqueous**	**N/A**	**02/23/05**	**050222L01**

Parameter	Result	RL	DF	Qual	Units
Perchlorate	ND	2.0	1		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-3	**05-02-0998-6**	**02/16/05**	**Aqueous**	**N/A**	**02/23/05**	**050222L01**

Parameter	Result	RL	DF	Qual	Units
Perchlorate	740	20	10		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4S	**05-02-0998-7**	**02/16/05**	**Aqueous**	**N/A**	**02/23/05**	**050222L01**

Parameter	Result	RL	DF	Qual	Units
Perchlorate	ND	2.0	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: N/A
Method: EPA 314.0

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4D	**05-02-0998-8**	**02/16/05**	**Aqueous**	**N/A**	**02/23/05**	**050222L01**

Parameter	Result	RL	DF	Qual	Units
Perchlorate	ND	2.0	1		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-20	**05-02-0998-9**	**02/16/05**	**Aqueous**	**N/A**	**02/23/05**	**050222L01**

Parameter	Result	RL	DF	Qual	Units
Perchlorate	ND	2.0	1		ug/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-05-203-261**	**N/A**	**Aqueous**	**N/A**	**02/22/05**	**050222L01**

arameter	Result	RL	DF	Qual	Units
Perchlorate	ND	2.0	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 8270C
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-P	**05-02-0998-2**	**02/15/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	87	15-138		Phenol-d6	89	17-141	
Nitrobenzene-d5	103	28-139		2-Fluorobiphenyl	97	33-144	
2,4,6-Tribromophenol	85	32-143		p-Terphenyl-d14	127	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 3520B
	Method:	EPA 8270C
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-B	**05-02-0998-3**	**02/15/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	88	15-138		Phenol-d6	89	17-141	
Nitrobenzene-d5	106	28-139		2-Fluorobiphenyl	99	33-144	
2,4,6-Tribromophenol	91	32-143		p-Terphenyl-d14	127	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 8270C
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-1	**05-02-0998-4**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	93	15-138		Phenol-d6	95	17-141	
Nitrobenzene-d5	112	28-139		2-Fluorobiphenyl	105	33-144	
2,4,6-Tribromophenol	99	32-143		p-Terphenyl-d14	133	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 8270C
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-2	**05-02-0998-5**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	98	15-138		Phenol-d6	101	17-141	
Nitrobenzene-d5	117	28-139		2-Fluorobiphenyl	108	33-144	
2,4,6-Tribromophenol	77	32-143		p-Terphenyl-d14	134	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 3520B
	Method:	EPA 8270C
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-3	**05-02-0998-6**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
l-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	70	15-138		Phenol-d6	74	17-141	
Nitrobenzene-d5	101	28-139		2-Fluorobiphenyl	95	33-144	
2,4,6-Tribromophenol	80	32-143		p-Terphenyl-d14	127	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 8270C
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4S	**05-02-0998-7**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	106	15-138		Phenol-d6	110	17-141	
Nitrobenzene-d5	122	28-139		2-Fluorobiphenyl	115	33-144	
2,4,6-Tribromophenol	113	32-143		p-Terphenyl-d14	147	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 3520B
	Method:	EPA 8270C
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02 — Page 7 of 9

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4D	**05-02-0998-8**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
I-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	99	15-138		Phenol-d6	104	17-141	
Nitrobenzene-d5	119	28-139		2-Fluorobiphenyl	113	33-144	
2,4,6-Tribromophenol	114	32-143		p-Terphenyl-d14	147	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 3520B
	Method:	EPA 8270C
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-20	**05-02-0998-9**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	93	15-138		Phenol-d6	95	17-141	
Nitrobenzene-d5	107	28-139		2-Fluorobiphenyl	88	33-144	
2,4,6-Tribromophenol	88	32-143		p-Terphenyl-d14	107	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 8270C
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**095-01-003-1,621**	**N/A**	**Aqueous**	**02/16/05**	**02/21/05**	**050216L03B**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	10	1		2,4-Dinitrophenol	ND	50	1	
Aniline	ND	10	1		4-Nitrophenol	ND	10	1	
Phenol	ND	10	1		Dibenzofuran	ND	10	1	
Bis(2-Chloroethyl) Ether	ND	25	1		2,4-Dinitrotoluene	ND	10	1	
2-Chlorophenol	ND	10	1		2,6-Dinitrotoluene	ND	10	1	
1,3-Dichlorobenzene	ND	10	1		Diethyl Phthalate	ND	10	1	
1,4-Dichlorobenzene	ND	10	1		4-Chlorophenyl-Phenyl Ether	ND	10	1	
Benzyl Alcohol	ND	10	1		Fluorene	ND	10	1	
1,2-Dichlorobenzene	ND	10	1		4-Nitroaniline	ND	10	1	
2-Methylphenol	ND	10	1		Azobenzene	ND	10	1	
Bis(2-Chloroisopropyl) Ether	ND	10	1		4,6-Dinitro-2-Methylphenol	ND	50	1	
3/4-Methylphenol	ND	10	1		N-Nitrosodiphenylamine	ND	10	1	
N-Nitroso-di-n-propylamine	ND	10	1		4-Bromophenyl-Phenyl Ether	ND	10	1	
Hexachloroethane	ND	10	1		Hexachlorobenzene	ND	10	1	
Nitrobenzene	ND	25	1		Pentachlorophenol	ND	10	1	
Isophorone	ND	10	1		Phenanthrene	ND	10	1	
2-Nitrophenol	ND	10	1		Anthracene	ND	10	1	
2,4-Dimethylphenol	ND	10	1		Di-n-Butyl Phthalate	ND	10	1	
Benzoic Acid	ND	50	1		Fluoranthene	ND	10	1	
Bis(2-Chloroethoxy) Methane	ND	10	1		Benzidine	ND	50	1	
2,4-Dichlorophenol	ND	10	1		Pyrene	ND	10	1	
1,2,4-Trichlorobenzene	ND	10	1		Pyridine	ND	10	1	
Naphthalene	ND	10	1		Butyl Benzyl Phthalate	ND	10	1	
4-Chloroaniline	ND	10	1		3,3'-Dichlorobenzidine	ND	25	1	
Hexachloro-1,3-Butadiene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
4-Chloro-3-Methylphenol	ND	10	1		Bis(2-Ethylhexyl) Phthalate	ND	10	1	
2-Methylnaphthalene	ND	10	1		Chrysene	ND	10	1	
Hexachlorocyclopentadiene	ND	25	1		Di-n-Octyl Phthalate	ND	10	1	
2,4,6-Trichlorophenol	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
2,4,5-Trichlorophenol	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
2-Chloronaphthalene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
2-Nitroaniline	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Dimethyl Phthalate	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Acenaphthylene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
3-Nitroaniline	ND	10	1		1-Methylnaphthalene	ND	10	1	
Acenaphthene	ND	10	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	15-138		Phenol-d6	85	17-141	
Nitrobenzene-d5	107	28-139		2-Fluorobiphenyl	89	33-144	
2,4,6-Tribromophenol	92	32-143		p-Terphenyl-d14	115	23-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 8270C(M) Isotope Dilution

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-3	**05-02-0998-6**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03D**

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Nitrobenzene-d5	101	56-123			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4S	**05-02-0998-7**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03D**

Parameter	Result	RL	DF	Qual	Units
4-Dioxane	ND	2.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Nitrobenzene-d5	122	56-123			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4D	**05-02-0998-8**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03D**

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Nitrobenzene-d5	119	56-123			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-20	**05-02-0998-9**	**02/16/05**	**Aqueous**	**02/17/05**	**02/22/05**	**050216L03D**

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Nitrobenzene-d5	107	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 8270C(M) Isotope Dilution

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-09-004-369**	**N/A**	**Aqueous**	**02/16/05**	**02/21/05**	**050216L03D**

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	1.0	0.5		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Nitrobenzene-d5	107	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 1625CM

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-P	**05-02-0998-2**	**02/15/05**	**Aqueous**	**02/18/05**	**02/24/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	124	50-130	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-B	**05-02-0998-3**	**02/15/05**	**Aqueous**	**02/18/05**	**02/24/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
'-Nitrosodimethylamine	ND	2.0	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	123	50-130	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-1	**05-02-0998-4**	**02/16/05**	**Aqueous**	**02/18/05**	**02/24/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	111	50-130	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-2	**05-02-0998-5**	**02/16/05**	**Aqueous**	**02/18/05**	**02/24/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	103	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 1625CM

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-3	**05-02-0998-6**	**02/16/05**	**Aqueous**	**02/18/05**	**02/24/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Dichlorobenzene-d4	111	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4S	**05-02-0998-7**	**02/16/05**	**Aqueous**	**02/18/05**	**02/24/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
¹-Nitrosodimethylamine	ND	2.0	1		ng/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Dichlorobenzene-d4	100	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4D	**05-02-0998-8**	**02/16/05**	**Aqueous**	**02/18/05**	**02/24/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Dichlorobenzene-d4	61	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-20	**05-02-0998-9**	**02/16/05**	**Aqueous**	**02/18/05**	**02/24/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Dichlorobenzene-d4	94	50-130			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3520B
Method: EPA 1625CM

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-07-027-146**	**N/A**	**Aqueous**	**02/18/05**	**02/23/05**	**050218L05**

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Dichlorobenzene-d4	112	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TB1	**05-02-0998-1**	**02/15/05**	**Aqueous**	**02/17/05**	**02/17/05**	**050217L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	82-136			1,2-Dichloroethane-d4	104	82-142		
Toluene-d8	100	80-116			1,4-Bromofluorobenzene	92	72-114		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-P	**05-02-0998-2**	**02/15/05**	**Aqueous**	**02/17/05**	**02/17/05**	**050217L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	82-136			1,2-Dichloroethane-d4	107	82-142		
Toluene-d8	99	80-116			1,4-Bromofluorobenzene	94	72-114		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-B	**05-02-0998-3**	**02/15/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	82-136			1,2-Dichloroethane-d4	104	82-142		
Toluene-d8	100	80-116			1,4-Bromofluorobenzene	92	72-114		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-1	**05-02-0998-4**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	82-136		1,2-Dichloroethane-d4	104	82-142	
Toluene-d8	100	80-116		1,4-Bromofluorobenzene	93	72-114	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-2	**05-02-0998-5**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
`arbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
:hlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	82-136			1,2-Dichloroethane-d4	106	82-142		
Toluene-d8	100	80-116			1,4-Bromofluorobenzene	90	72-114		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-3	**05-02-0998-6**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	1.8	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	1.2	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	1.8	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	82-136			1,2-Dichloroethane-d4	101	82-142		
Toluene-d8	101	80-116			1,4-Bromofluorobenzene	92	72-114		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4S	**05-02-0998-7**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	107	82-136			1,2-Dichloroethane-d4	108	82-142		
Toluene-d8	100	80-116			1,4-Bromofluorobenzene	93	72-114		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Tetra Tech, Inc.	Date Received:	02/17/05
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-4D	**05-02-0998-8**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
`arbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	82-136		1,2-Dichloroethane-d4	105	82-142	
Toluene-d8	101	80-116		1,4-Bromofluorobenzene	92	72-114	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Tt-MW2-20	**05-02-0998-9**	**02/16/05**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
arbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
hlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	108	82-136			1,2-Dichloroethane-d4	108	82-142		
Toluene-d8	100	80-116			1,4-Bromofluorobenzene	92	72-114		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received:	02/17/05
Work Order No:	05-02-0998
Preparation:	EPA 5030B
Method:	EPA 8260B
Units:	ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-13,510**	**N/A**	**Aqueous**	**02/17/05**	**02/17/05**	**050217L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	82-136		1,2-Dichloroethane-d4	100	82-142	
Toluene-d8	100	80-116		1,4-Bromofluorobenzene	94	72-114	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-006-13,515**	**N/A**	**Aqueous**	**02/17/05**	**02/18/05**	**050217L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	1.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	82-136			1,2-Dichloroethane-d4	103	82-142		
Toluene-d8	100	80-116			1,4-Bromofluorobenzene	93	72-114		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-02-0997-1	**Aqueous**	**ICP 3300**	**02/17/05**	**02/17/05**	**050217S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	100	101	80-120	0	0-20	
Arsenic	105	107	80-120	2	0-20	
Barium	107	108	80-120	1	0-20	
Beryllium	107	107	80-120	1	0-20	
Cadmium	109	110	80-120	1	0-20	
Chromium (Total)	104	105	80-120	1	0-20	
Cobalt	109	110	80-120	1	0-20	
Copper	106	107	80-120	1	0-20	
Lead	106	106	80-120	0	0-20	
Molybdenum	105	105	80-120	0	0-20	
Nickel	107	108	80-120	1	0-20	
Selenium	105	105	80-120	1	0-20	
Silver	110	111	80-120	1	0-20	
Thallium	106	105	80-120	0	0-20	
Vanadium	108	108	80-120	1	0-20	
Zinc	111	114	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: N/A
Method: EPA 314.0

Project Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-02-1057-2	**Aqueous**	**IC 8**	**N/A**	**02/23/05**	**050222S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	88	88	80-120	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 7470A Total
Method: EPA 7470A

Project Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-02-1059-1	**Aqueous**	**Mercury**	**02/18/05**	**02/18/05**	**050218S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	88	87	71-134	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 5030B
Method: EPA 8260B

Project Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-02-0947-1	**Aqueous**	**GC/MS FF**	**02/17/05**	**02/17/05**	**050217S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	103	84-120	0	0-9	
Carbon Tetrachloride	120	122	71-137	2	0-10	
Chlorobenzene	107	106	87-111	1	0-8	
1,2-Dichlorobenzene	104	103	82-112	1	0-8	
1,1-Dichloroethene	102	96	76-130	6	0-18	
Toluene	112	112	85-115	1	0-8	
Trichloroethene	101	104	84-114	2	0-10	
Vinyl Chloride	117	113	68-128	3	0-16	
Methyl-t-Butyl Ether (MTBE)	106	98	63-135	8	0-20	
Tert-Butyl Alcohol (TBA)	133	106	25-169	22	0-41	
Diisopropyl Ether (DIPE)	103	98	70-130	5	0-11	
Ethyl-t-Butyl Ether (ETBE)	101	94	73-127	7	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	97	71-125	5	0-12	
Ethanol	113	89	59-143	24	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.
3475 East Foothill Blvd., Suite 300
Pasadena, CA 91107-6024

Date Received: 02/17/05
Work Order No: 05-02-0998
Preparation: EPA 5030B
Method: EPA 8260B

Project Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Tt-MW2-1	**Aqueous**	**GC/MS FF**	**02/17/05**	**02/18/05**	**050217S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	104	84-120	1	0-9	
Carbon Tetrachloride	123	127	71-137	3	0-10	
Chlorobenzene	109	108	87-111	2	0-8	
1,2-Dichlorobenzene	105	104	82-112	0	0-8	
1,1-Dichloroethene	101	97	76-130	5	0-18	
Toluene	113	111	85-115	1	0-8	
Trichloroethene	104	104	84-114	0	0-10	
Vinyl Chloride	116	116	68-128	0	0-16	
Methyl-t-Butyl Ether (MTBE)	98	96	63-135	1	0-20	
Tert-Butyl Alcohol (TBA)	128	118	25-169	8	0-41	
Diisopropyl Ether (DIPE)	99	99	70-130	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	91	92	73-127	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	92	93	71-125	1	0-12	
Ethanol	101	93	59-143	8	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	05-02-0998
Pasadena, CA 91107-6024		Preparation:	EPA 3005A Filt.
		Method:	EPA 6010B

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-4,594	Aqueous	ICP 3300	02/17/05	050217-I-03	050217L03F

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Antimony	1.00	0.931	93	80-120	
Arsenic	1.00	0.986	99	80-120	
Barium	1.00	1.03	103	80-120	
Beryllium	1.00	0.977	98	80-120	
Cadmium	1.00	1.04	104	80-120	
Chromium (Total)	1.00	0.990	99	80-120	
Cobalt	1.00	1.05	105	80-120	
Copper	1.00	0.968	97	80-120	
Lead	1.00	1.02	102	80-120	
Molybdenum	1.00	1.01	101	80-120	
Nickel	1.00	1.02	102	80-120	
Selenium	1.00	0.963	96	80-120	
Silver	0.500	0.497	99	80-120	
Thallium	1.00	1.02	102	80-120	
Vanadium	1.00	1.00	100	80-120	
Zinc	1.00	1.01	101	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	N/A
	Method:	EPA 314.0

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-203-261	Aqueous	IC 8	N/A	02/23/05	050222L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	99	100	85-115	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	05-02-0998
Pasadena, CA 91107-6024		Preparation:	EPA 7470A Filt.
		Method:	EPA 7470A

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-008-1,827	**Aqueous**	**Mercury**	**02/18/05**	**050218-L01**	**050218L01F**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Mercury	0.0100	0.0101	101	90-122	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	05-02-0998
Pasadena, CA 91107-6024		Preparation:	EPA 3520B
		Method:	EPA 8270C

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-1,621	Aqueous	GC/MS J	02/16/05	02/21/05	050216L03B

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	73	69	4-118	6	0-18	
2-Chlorophenol	66	68	35-101	4	0-21	
1,4-Dichlorobenzene	81	78	39-93	4	0-45	
N-Nitroso-di-n-propylamine	55	53	33-123	3	0-38	
1,2,4-Trichlorobenzene	83	81	47-101	2	0-35	
4-Chloro-3-Methylphenol	71	66	0-295	8	0-30	
Acenaphthene	104	105	31-133	1	0-31	
4-Nitrophenol	89	81	1-143	9	0-44	
2,4-Dinitrotoluene	112	123	16-166	10	0-49	
Pentachlorophenol	62	62	1-154	0	0-53	
Pyrene	62	70	15-159	12	0-47	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 3520B
	Method:	EPA 8270C(M) Isotope Dilution

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-369	Aqueous	GC/MS J	02/16/05	02/21/05	050216L03D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	118	112	50-130	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 3520B
	Method:	EPA 1625CM

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-027-146	**Aqueous**	**GC/MS H**	**02/18/05**	**02/23/05**	**050218L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
N-Nitrosodimethylamine	118	125	50-130	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.		Date Received:	N/A
3475 East Foothill Blvd., Suite 300		Work Order No:	05-02-0998
Pasadena, CA 91107-6024		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-13,510	**Aqueous**	**GC/MS FF**	**02/17/05**	**02/17/05**	**050217L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	104	87-117	1	0-6	
Carbon Tetrachloride	125	122	75-141	2	0-11	
Chlorobenzene	108	107	88-112	1	0-6	
1,2-Dichlorobenzene	104	104	88-112	0	0-6	
1,1-Dichloroethene	99	99	80-128	1	0-15	
Toluene	111	111	87-117	0	0-7	
Trichloroethene	103	103	86-116	0	0-8	
Vinyl Chloride	114	113	74-128	1	0-10	
Methyl-t-Butyl Ether (MTBE)	88	98	85-121	10	0-17	
Tert-Butyl Alcohol (TBA)	87	115	51-153	28	0-37	
Diisopropyl Ether (DIPE)	96	99	74-128	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	89	94	81-123	6	0-12	
Tert-Amyl-Methyl Ether (TAME)	89	96	81-123	8	0-9	
Ethanol	86	94	56-146	10	0-41	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Tetra Tech, Inc.	Date Received:	N/A
3475 East Foothill Blvd., Suite 300	Work Order No:	05-02-0998
Pasadena, CA 91107-6024	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project: Lockheed - Beaumont 2GW Sampling / 13505-02

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-13,515	**Aqueous**	**GC/MS FF**	**02/17/05**	**02/17/05**	**050217L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	104	87-117	1	0-6	
Carbon Tetrachloride	129	121	75-141	6	0-11	
Chlorobenzene	108	107	88-112	1	0-6	
1,2-Dichlorobenzene	104	104	88-112	0	0-6	
1,1-Dichloroethene	102	96	80-128	6	0-15	
Toluene	114	111	87-117	3	0-7	
Trichloroethene	104	105	86-116	1	0-8	
Vinyl Chloride	116	113	74-128	2	0-10	
Methyl-t-Butyl Ether (MTBE)	100	97	85-121	3	0-17	
Tert-Butyl Alcohol (TBA)	111	109	51-153	2	0-37	
Diisopropyl Ether (DIPE)	101	98	74-128	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	98	94	81-123	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	97	81-123	5	0-9	
Ethanol	92	89	56-146	3	0-41	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-02-0998

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

02-0998

CHAIN OF CUSTODY RECORD

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

SHIP TO: CalScience
7440 Lincoln Way
Garden Grove CA 92841
(714) 895-5494

DATE 2-16-05 PAGE 1 OF 1

CLIENT: Lockheed Martin
PROJECT NAME: Beaumont 2 GW Sampling
PROJECT MANAGER: Neil Shukla
TC #: 13505-02
SAMPLERS (Signatures)

LINE ITEM	SAMPLE NO.	DATE	TIME	VOCs 8260	SVOCs 8270	1,4-Dioxane	NDMA	Perchlorate	Title 22 Metals	FILTERED/UNFILTERED	MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	PRESERVATIVE	OBSERVATIONS/COMMENTS
1.	TB1	2/15/05	19:00	X						U	W	P/G	2	HCl	
2.	EB1-P	2/15/05	19:05	X	X	X	X	X	X	U	W		8		Pump Equip Blank
3.	EB1-B	2/15/05	19:15	X	X	X	X	X	X	U	W		8		Bailer Equip Blank
4.	Tt-MW2-1	2/16/05	12:40	X	X	X	X	X	X	U	W		7		
5.	Tt-MW2-2	2/16/05	15:30	X	X	X	X	X	X	U	W		7		
6.	Tt-MW2-3	2/16/05	16:55	X	X	X	X	X	X	U	W		7		
7.	Tt-MW2-45	2/16/05	17:10	X	X	X	X	X	X	U	W		7		
8.	Tt-MW2-40	2/16/05	17:20	X	X	X	X	X	X	U	W		7		
9.	Tt-MW2-20	2/16/05	14:20	X	X	X	X	X	X	U	W	↓	7	↓	
10.															

TURN-AROUND TIME: Normal

OBSERVATIONS/COMMENTS: Lab Filter all Metals samples

FILTERING: ☐ FILTERED ☒ UNFILTERED

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

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

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

RELINQUISHED BY	SIGNATURE		DATE	TIME	
Chris Surdzial		TETRA TECH, INC.	2/17/05	1045	TOTAL NUMBER OF CONTAINERS ON THIS CHAIN OF CUSTODY: 58
RECEIVED BY: BAC TA	SIGNATURE	COMPANY: CEL	DATE: 2/17/5	TIME: 1045	METHOD OF SHIPMENT/SHIPMENT NO.: Lab Courier
RELINQUISHED BY: BAC TA	SIGNATURE	COMPANY: CEC	DATE: 2/17/5	TIME: [illegible]	Special Shipping/Handling/Storage Requirements: After collection samples stored in refrigerator in Tt Annex until picked up by lab courier.
RECEIVED BY: M. To	SIGNATURE	COMPANY: CCL	DATE: 2/17/05	TIME: 14:10	

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

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

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05 - 02 - 0998

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Tetra Tech **DATE:** 2/17/5

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- _____ Chilled, cooler with temperature blank provided.
- _____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- _____ Ambient and placed in cooler with wet ice.
- _____ Ambient temperature.
- 2.1 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- _____ °C Temperature blank.
- _____ °C IR thermometer.
- _____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

APPENDIX C

Lockheed Martin, Beaumont						**Table 1**								
Site: 2						**Analytical Data Summary**								
Extraction Method: None						**EPA Method E314.0**								
Analytical Method: E314.0														
Matrix: Water														
Units: ug/L			Environmental Samples											
		Field ID:		TT-MW2-1				TT-MW2-2				TT-MW2-20		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050222L01				050222L01				050222L01		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
				Dilution 200										
Perchlorate	0.46		400	7100		g	2.0	ND	U	g	2.0	ND	U	g

Lockheed Martin, Beaumont						**Table 1**								
Site: 2						**Analytical Data Summary**								
Extraction Method: None						**EPA Method E314.0**								
Analytical Method: E314.0														
Matrix: Water														
Units: ug/L			Environmental Samples											
		Field ID:		TT-MW2-3				TT-MW2-4D				TT-MW2-4S		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050222L01				050222L01				050222L01		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
				Dilution 10										
Perchlorate	0.46		20	740		g	2.0	ND	U	g	2.0	ND	U	g

Lockheed Martin, Beaumont						**Table 2**								
Site: 2						**Analytical Data Summary**								
Extraction Method: SW5030B						**EPA Method SW8260B**								
Analytical Method: SW8260B														
Matrix: Water			Environmental Samples											
Units: ug/L														
		Field ID:		TT-MW2-1				TT-MW2-2				TT-MW2-20		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050217L03				050217L03				050217L03		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
1,1,1,2-Tetrachloroethane	0.37		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1,1-Trichloroethane	0.32		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1,2,2-Tetrachloroethane	0.37		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.54		10	ND	U	g	10	ND	U	g	10	ND	U	g
1,1,2-Trichloroethane	0.54		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1-Dichloroethane	0.53		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1-Dichloroethene	0.31		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1-Dichloropropene	0.21		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2,3-Trichlorobenzene	0.39		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2,3-Trichloropropane	2.3		5.0	ND	U	g	5.0	ND	U	g	5.0	ND	U	g
1,2,4-Trichlorobenzene	0.35		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2,4-Trimethylbenzene	0.26		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2-Dibromo-3-Chloropropane	2.5		5.0	ND	U	g	5.0	ND	U	g	5.0	ND	U	g
1,2-Dibromoethane	0.81		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2-Dichlorobenzene	0.24		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2-Dichloroethane	0.22		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
1,2-Dichloropropane	0.28		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,3,5-Trimethylbenzene	0.19		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,3-Dichlorobenzene	0.38		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,3-Dichloropropane	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,4-Dichlorobenzene	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
2,2-Dichloropropane	0.40		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
2-Butanone	4.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Chlorotoluene	0.24		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
2-Hexanone	1.9		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Chlorotoluene	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
4-Methyl-2-Pentanone	2.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Acetone	6.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzene	0.26		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
Bromobenzene	0.47		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Bromochloromethane	0.68		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Bromodichloromethane	0.27		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Bromoform	0.62		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Bromomethane	2.9		10	ND	U	g	10	ND	U	g	10	ND	U	g
Carbon Disulfide	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Carbon Tetrachloride	0.42		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
Chlorobenzene	0.36		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Chloroethane	0.52		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Chloroform	0.22		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Chloromethane	1.8		10	ND	U	g	10	ND	U	g	10	ND	U	g
Dibromochloromethane	0.45		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Dibromomethane	0.42		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Dichlorodifluoromethane	0.27		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Ethylbenzene	0.17		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Isopropylbenzene	0.24		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Methyl-t-Butyl Ether (MTBE)	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Methylene Chloride	2.6		10	ND	U	g	10	ND	U	g	10	ND	U	g

Lockheed Martin, Beaumont						**Table 2**								
Site: 2						**Analytical Data Summary**								
Extraction Method: SW5030B						**EPA Method SW8260B**								
Analytical Method: SW8260B														
Matrix: Water			Environmental Samples											
Units: ug/L														
		Field ID:		TT-MW2-1				TT-MW2-2				TT-MW2-20		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050217L03				050217L03				050217L03		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
Naphthalene	0.95		10	ND	U	g	10	ND	U	g	10	ND	U	g
Styrene	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Tetrachloroethene	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Toluene	0.35		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Trichloroethene	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Trichlorofluoromethane	0.36		10	ND	U	g	10	ND	U	g	10	ND	U	g
Vinyl Acetate	3.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Vinyl Chloride	0.33		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
c-1,2-Dichloroethene	0.35		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
c-1,3-Dichloropropene	0.45		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
n-Butylbenzene	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
n-Propylbenzene	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
o-Xylene	0.21		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
p-Isopropyltoluene	0.21		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
p/m-Xylene	0.38		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
sec-Butylbenzene	0.21		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
t-1,2-Dichloroethene	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
t-1,3-Dichloropropene	0.31		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
tert-Butylbenzene	0.17		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g

Lockheed Martin, Beaumont						**Table 2**								
Site: 2						**Analytical Data Summary**								
Extraction Method: SW5030B						**EPA Method SW8260B**								
Analytical Method: SW8260B														
Matrix: Water			Environmental Samples											
Units: ug/L														
		Field ID:		TT-MW2-3				TT-MW2-4D				TT-MW2-4S		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050217L03				050217L03				050217L03		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
1,1,1,2-Tetrachloroethane	0.37		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1,1-Trichloroethane	0.32		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1,2,2-Tetrachloroethane	0.37		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.54		10	ND	U	g	10	ND	U	g	10	ND	U	g
1,1,2-Trichloroethane	0.54		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1-Dichloroethane	0.53		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1-Dichloroethene	0.31		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,1-Dichloropropene	0.21		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2,3-Trichlorobenzene	0.39		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2,3-Trichloropropane	2.3		5.0	ND	U	g	5.0	ND	U	g	5.0	ND	U	g
1,2,4-Trichlorobenzene	0.35		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2,4-Trimethylbenzene	0.26		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2-Dibromo-3-Chloropropane	2.5		5.0	ND	U	g	5.0	ND	U	g	5.0	ND	U	g
1,2-Dibromoethane	0.81		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2-Dichlorobenzene	0.24		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,2-Dichloroethane	0.22		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
1,2-Dichloropropane	0.28		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,3,5-Trimethylbenzene	0.19		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,3-Dichlorobenzene	0.38		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,3-Dichloropropane	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
1,4-Dichlorobenzene	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
2,2-Dichloropropane	0.40		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
2-Butanone	4.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Chlorotoluene	0.24		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
2-Hexanone	1.9		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Chlorotoluene	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
4-Methyl-2-Pentanone	2.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Acetone	6.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzene	0.26		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
Bromobenzene	0.47		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Bromochloromethane	0.68		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Bromodichloromethane	0.27		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Bromoform	0.62		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Bromomethane	2.9		10	ND	U	g	10	ND	U	g	10	ND	U	g
Carbon Disulfide	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Carbon Tetrachloride	0.42		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
Chlorobenzene	0.36		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Chloroethane	0.52		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Chloroform	0.22		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Chloromethane	1.8		10	ND	U	g	10	ND	U	g	10	ND	U	g
Dibromochloromethane	0.45		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Dibromomethane	0.42		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Dichlorodifluoromethane	0.27		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Ethylbenzene	0.17		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Isopropylbenzene	0.24		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Methyl-t-Butyl Ether (MTBE)	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Methylene Chloride	2.6		10	ND	U	g	10	ND	U	g	10	ND	U	g

Lockheed Martin, Beaumont						**Table 2**								
Site: 2						**Analytical Data Summary**								
Extraction Method: SW5030B						**EPA Method SW8260B**								
Analytical Method: SW8260B														
Matrix: Water			Environmental Samples											
Units: ug/L														
		Field ID:		TT-MW2-3				TT-MW2-4D				TT-MW2-4S		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050217L03				050217L03				050217L03		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
Naphthalene	0.95		10	ND	U	g	10	ND	U	g	10	ND	U	g
Styrene	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Tetrachloroethene	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
Toluene	0.35		1.0	1.8		g	1.0	ND	U	g	1.0	ND	U	g
Trichloroethene	0.30		1.0	1.2		g	1.0	ND	U	g	1.0	ND	U	g
Trichlorofluoromethane	0.36		10	ND	U	g	10	ND	U	g	10	ND	U	g
Vinyl Acetate	3.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Vinyl Chloride	0.33		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
c-1,2-Dichloroethene	0.35		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
c-1,3-Dichloropropene	0.45		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
n-Butylbenzene	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
n-Propylbenzene	0.30		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
o-Xylene	0.21		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
p-Isopropyltoluene	0.21		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
p/m-Xylene	0.38		1.0	1.8		g	1.0	ND	U	g	1.0	ND	U	g
sec-Butylbenzene	0.21		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
t-1,2-Dichloroethene	0.29		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g
t-1,3-Dichloropropene	0.31		0.50	ND	U	g	0.50	ND	U	g	0.50	ND	U	g
tert-Butylbenzene	0.17		1.0	ND	U	g	1.0	ND	U	g	1.0	ND	U	g

Lockheed Martin, Beaumont						**Table 3**								
Site: 2						**Analytical Data Summary**								
Extraction Method: SW3520B						**EPA Method SW8270C**								
Analytical Method: SW8270C														
Matrix: Water														
Units: ug/L														
			Environmental Samples											
		Field ID:		TT-MW2-1				TT-MW2-2				TT-MW2-20		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050216L03B				050216L03B				050216L03B		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
1,2,4-Trichlorobenzene	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
1,2-Dichlorobenzene	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
1,3-Dichlorobenzene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
1,4-Dichlorobenzene	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
1-Methylnaphthalene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4,5-Trichlorophenol	0.97		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4,6-Trichlorophenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4-Dichlorophenol	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4-Dimethylphenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4-Dinitrophenol	2.6		50	ND	U	g	50	ND	U	g	50	ND	U	g
2,4-Dinitrotoluene	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,6-Dinitrotoluene	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Chloronaphthalene	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Chlorophenol	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Methylnaphthalene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Methylphenol	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Nitroaniline	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Nitrophenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
3,3'-Dichlorobenzidine	1.3		25	ND	U	g	25	ND	U	g	25	ND	U	g
3-Nitroaniline	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
4,6-dinitro-2-methylphenol	3.4		50	ND	U	g	50	ND	U	g	50	ND	U	g
4-Bromophenyl-Phenyl Ether	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Chloro-3-Methylphenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Chloroaniline	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Chlorophenyl-Phenyl Ether	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Nitroaniline	2.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Nitrophenol	0.86		10	ND	U	g	10	ND	U	g	10	ND	U	g
7,12-Dimethylbenz[a]anthracene	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Acenaphthene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Acenaphthylene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Aniline	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Anthracene	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Azobenzene	1.7		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzidine	0.62		50	ND	U	g	50	ND	U	g	50	ND	U	g
Benzo (a) Pyrene	0.88		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzo (b) Fluoranthene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzo (g,h,i) Perylene	0.71		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzo (k) Fluoranthene	1.7		10	ND	U	g	10	ND	U	g	10	ND	U	g

Lockheed Martin, Beaumont						**Table 3**								
Site: 2						**Analytical Data Summary**								
Extraction Method: SW3520B						**EPA Method SW8270C**								
Analytical Method: SW8270C														
Matrix: Water														
Units: ug/L														
			Environmental Samples											
		Field ID:		TT-MW2-1				TT-MW2-2				TT-MW2-20		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050216L03B				050216L03B				050216L03B		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
Benzo(a) Anthracene	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzoic Acid	0.43		50	ND	U	g	50	ND	U	g	50	ND	U	g
Benzyl Alcohol	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Bis(2-Chloroethoxy) Methane	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Bis(2-Chloroethyl) Ether	1.0		25	ND	U	g	25	ND	U	g	25	ND	U	g
Bis(2-Chloroisopropyl) Ether	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Bis(2-Ethylhexyl) Phthalate	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Butyl Benzyl Phthalate	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Chrysene	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
Di-n-Butyl Phthalate	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Di-n-Octyl Phthalate	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Dibenz (a,h) Anthracene	0.82		10	ND	U	g	10	ND	U	g	10	ND	U	g
Dibenzofuran	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Diethyl Phthalate	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Dimethyl Phthalate	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
Fluoranthene	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Fluorene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Hexachloro-1,3-Butadiene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Hexachlorobenzene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Hexachlorocyclopentadiene	0.44		25	ND	U	g	25	ND	U	g	25	ND	U	g
Hexachloroethane	0.98		10	ND	U	g	10	ND	U	g	10	ND	U	g
Indeno (1,2,3-c,d) Pyrene	0.83		10	ND	U	g	10	ND	U	g	10	ND	U	g
Isophorone	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
N-Nitroso-di-n-propylamine	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
N-Nitrosodimethylamine	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
N-Nitrosodiphenylamine	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Naphthalene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Nitrobenzene	1.3		25	ND	U	g	25	ND	U	g	25	ND	U	g
Pentachlorophenol	0.75		10	ND	U	g	10	ND	U	g	10	ND	U	g
Phenanthrene	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Phenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Pyrene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Pyridine	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g

Lockheed Martin, Beaumont						Table 3								
Site: 2						Analytical Data Summary								
Extraction Method: SW3520B						EPA Method SW8270C								
Analytical Method: SW8270C														
Matrix: Water														
Units: ug/L														
			Environmental Samples											
		Field ID:		TT-MW2-3				TT-MW2-4D				TT-MW2-4S		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050216L03B				050216L03B				050216L03B		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
1,2,4-Trichlorobenzene	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
1,2-Dichlorobenzene	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
1,3-Dichlorobenzene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
1,4-Dichlorobenzene	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
1-Methylnaphthalene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4,5-Trichlorophenol	0.97		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4,6-Trichlorophenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4-Dichlorophenol	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4-Dimethylphenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,4-Dinitrophenol	2.6		50	ND	U	g	50	ND	U	g	50	ND	U	g
2,4-Dinitrotoluene	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
2,6-Dinitrotoluene	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Chloronaphthalene	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Chlorophenol	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Methylnaphthalene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Methylphenol	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Nitroaniline	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
2-Nitrophenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
3,3'-Dichlorobenzidine	1.3		25	ND	U	g	25	ND	U	g	25	ND	U	g
3-Nitroaniline	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
4,6-dinitro-2-methylphenol	3.4		50	ND	U	g	50	ND	U	g	50	ND	U	g
4-Bromophenyl-Phenyl Ether	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Chloro-3-Methylphenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Chloroaniline	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Chlorophenyl-Phenyl Ether	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Nitroaniline	2.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
4-Nitrophenol	0.86		10	ND	U	g	10	ND	U	g	10	ND	U	g
7,12-Dimethylbenz[a]anthracene	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Acenaphthene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Acenaphthylene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Aniline	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Anthracene	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Azobenzene	1.7		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzidine	0.62		50	ND	U	g	50	ND	U	g	50	ND	U	g
Benzo (a) Pyrene	0.88		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzo (b) Fluoranthene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzo (g,h,i) Perylene	0.71		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzo (k) Fluoranthene	1.7		10	ND	U	g	10	ND	U	g	10	ND	U	g

Lockheed Martin, Beaumont						**Table 3**								
Site: 2						**Analytical Data Summary**								
Extraction Method: SW3520B						**EPA Method SW8270C**								
Analytical Method: SW8270C														
Matrix: Water														
Units: ug/L														
			Environmental Samples											
		Field ID:		TT-MW2-3				TT-MW2-4D				TT-MW2-4S		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050216L03B				050216L03B				050216L03B		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
Benzo(a) Anthracene	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
Benzoic Acid	0.43		50	ND	U	g	50	ND	U	g	50	ND	U	g
Benzyl Alcohol	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Bis(2-Chloroethoxy) Methane	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Bis(2-Chloroethyl) Ether	1.0		25	ND	U	g	25	ND	U	g	25	ND	U	g
Bis(2-Chloroisopropyl) Ether	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Bis(2-Ethylhexyl) Phthalate	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Butyl Benzyl Phthalate	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Chrysene	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
Di-n-Butyl Phthalate	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Di-n-Octyl Phthalate	1.0		10	ND	U	g	10	ND	U	g	10	ND	U	g
Dibenz (a,h) Anthracene	0.82		10	ND	U	g	10	ND	U	g	10	ND	U	g
Dibenzofuran	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Diethyl Phthalate	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Dimethyl Phthalate	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
Fluoranthene	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Fluorene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Hexachloro-1,3-Butadiene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Hexachlorobenzene	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Hexachlorocyclopentadiene	0.44		25	ND	U	g	25	ND	U	g	25	ND	U	g
Hexachloroethane	0.98		10	ND	U	g	10	ND	U	g	10	ND	U	g
Indeno (1,2,3-c,d) Pyrene	0.83		10	ND	U	g	10	ND	U	g	10	ND	U	g
Isophorone	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
N-Nitroso-di-n-propylamine	1.3		10	ND	U	g	10	ND	U	g	10	ND	U	g
N-Nitrosodimethylamine	1.1		10	ND	U	g	10	ND	U	g	10	ND	U	g
N-Nitrosodiphenylamine	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Naphthalene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Nitrobenzene	1.3		25	ND	U	g	25	ND	U	g	25	ND	U	g
Pentachlorophenol	0.75		10	ND	U	g	10	ND	U	g	10	ND	U	g
Phenanthrene	1.5		10	ND	U	g	10	ND	U	g	10	ND	U	g
Phenol	1.2		10	ND	U	g	10	ND	U	g	10	ND	U	g
Pyrene	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g
Pyridine	1.4		10	ND	U	g	10	ND	U	g	10	ND	U	g

Lockheed Martin, Beaumont					**Table 4**										
Site: 2					**Analytical Data Summary**										
Extraction Method: SW3520B					**EPA Methods E1624, E1625C**										
Analytical Method: See Below															
Matrix: Water															
Units: ug/L															
				Environmental Samples											
			Field ID:		TT-MW2-1				TT-MW2-2				TT-MW2-20		
			SDG:		05-02-0998				05-02-0998				05-02-0998		
			Batch ID:		050216L03D				050216L03D				050216L03D		
Parameters	EPA Method	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
					(Unfiltered)				(Unfiltered)				(Unfiltered)		
1,4-Dioxane	E1625C	0.57		2.0	ND	U	g	2.0	ND	U	g	2.0	ND	U	g
N-Nitrosodimethylamine	E1625C	0.55		2.0	ND	U	g	2.0	ND	U	g	2.0	ND	U	g

Lockheed Martin, Beaumont					**Table 4**										
Site: 2							**Analytical Data Summary**								
Extraction Method: SW3520B							**EPA Methods E1624, E1625C**								
Analytical Method: See Below															
Matrix: Water															
Units: ug/L															
				Environmental Samples											
			Field ID:		TT-MW2-3				TT-MW2-4D				TT-MW2-4S		
			SDG:		05-02-0998				05-02-0998				05-02-0998		
			Batch ID:		050216L03D				050216L03D				050216L03D		
Parameters	EPA Method	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
					(Unfiltered)				(Unfiltered)				(Unfiltered)		
1,4-Dioxane	E1625C	0.57		2.0	ND	U	g	2.0	ND	U	g	2.0	ND	U	g
N-Nitrosodimethylamine	E1625C	0.55		2.0	ND	U	g	2.0	ND	U	g	2.0	ND	U	g

Lockheed Martin, Beaumont						**Table 5**								
Site: 2						**Analytical Data Summary**								
Extraction Method: EPA 300						**EPA Method SW6010B**								
Analytical Method: SW6010B														
Matrix: Water														
Units: mg/L														
			Environmental Samples											
		Field ID:		TT-MW2-1				TT-MW2-2				TT-MW2-20		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050217L03F				050217L03F				050217L03F		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
				(Unfiltered)				(Unfiltered)				(Unfiltered)		
Antimony	0.00209		0.0150	ND	U	g	0.0150	ND	U	g	0.0150	ND	U	g
Arsenic	0.00308		0.0100	ND	U	g	0.0100	ND	U	g	0.0100	ND	U	g
Barium	0.000719		0.0100	0.0933		g	0.0100	0.0266		g	0.0100	0.0200		g
Beryllium	0.000176		0.00100	ND	U	g	0.00100	ND	U	g	0.00100	ND	U	g
Cadmium	0.000350		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Chromium (Total)	0.000350		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Cobalt	0.000696		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Copper	0.00134		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Lead	0.00236		0.0100	ND	U	g	0.0100	ND	U	g	0.0100	ND	U	g
Molybdenum	0.000800		0.00500	0.00736		g	0.00500	ND	U	g	0.00500	ND	U	g
Nickel	0.00137		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Selenium	0.00295		0.0150	ND	U	g	0.0150	ND	U	g	0.0150	ND	U	g
Silver	0.000400		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Thallium	0.00233		0.0150	ND	U	g	0.0150	ND	U	g	0.0150	ND	U	g
Vanadium	0.000314		0.00500	0.00626		g	0.0050	0.0131		g	0.0050	0.0127		g
Zinc	0.000848		0.0100	0.0334		g	0.0100	0.0179	J	f	0.0100	0.0125	J	f

Lockheed Martin, Beaumont						**Table 5**								
Site: 2						**Analytical Data Summary**								
Extraction Method: EPA 300						**EPA Method SW6010B**								
Analytical Method: SW6010B														
Matrix: Water														
Units: mg/L														
			Environmental Samples											
		Field ID:		TT-MW2-3				TT-MW2-4D				TT-MW2-4S		
		SDG:		05-02-0998				05-02-0998				05-02-0998		
		Batch ID:		050217L03F				050217L03F				050217L03F		
Parameters	MDL		PQL	Result	Validity	Comments	PQL	Result	Validity	Comments	PQL	Result	Validity	Comments
				(Unfiltered)				(Unfiltered)				(Unfiltered)		
Antimony	0.00209		0.0150	ND	U	g	0.0150	ND	U	g	0.0150	ND	U	g
Arsenic	0.00308		0.0100	ND	U	g	0.0100	0.0791		g	0.0100	0.0427		g
Barium	0.000719		0.0100	0.0974		g	0.0100	ND	U	g	0.0100	0.0752		g
Beryllium	0.000176		0.00100	ND	U	g	0.00100	ND	U	g	0.00100	ND	U	g
Cadmium	0.000350		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Chromium (Total)	0.000350		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Cobalt	0.000696		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Copper	0.00134		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Lead	0.00236		0.0100	ND	U	g	0.0100	ND	U	g	0.0100	ND	U	g
Molybdenum	0.000800		0.00500	ND	U	g	0.0050	0.0116		g	0.0050	0.0173		g
Nickel	0.00137		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Selenium	0.00295		0.0150	ND	U	g	0.0150	ND	U	g	0.0150	ND	U	g
Silver	0.000400		0.00500	ND	U	g	0.00500	ND	U	g	0.00500	ND	U	g
Thallium	0.00233		0.0150	ND	U	g	0.0150	ND	U	g	0.0150	ND	U	g
Vanadium	0.000314		0.00500	ND	U	g	0.0050	0.0995		g	0.0050	0.0812		g
Zinc	0.000848		0.0100	ND	U	g	0.0100	ND	U	g	0.0100	ND	U	g

Lockheed Martin, Beaumont					**Table 6**							
Site: 2					**Analytical Data Summary**							
Extraction Method: METHOD					**EPA Method SW7470A**							
Anilitical Method: SW7470A												
Matrix: Water												
Units: mg/L												
		Environmental Samples										
		Field ID:			TT-MW2-1					TT-MW2-2		
		SDG:			05-02-0998					05-02-0998		
Parameters	MDL		Batch ID	PQL	Result	Validity	Comments	Batch ID	PQL	Result	Validity	Comments
					(Unfiltered)					(Unfiltered)		
Mercury	0.0000672		050218L01F	0.000500	ND	U	g	050218L01F	0.000500	ND	U	g

Lockheed Martin, Beaumont					**Table 6**							
Site: 2					**Analytical Data Summary**							
Extraction Method: METHOD					**EPA Method SW7470A**							
Anilitical Method: SW7470A												
Matrix: Water												
Units: mg/L												
		Environmental Samples										
		Field ID:			TT-MW2-20					TT-MW2-3		
		SDG:			05-02-0998					05-02-0998		
Parameters	MDL		Batch ID	PQL	Result	Validity	Comments	Batch ID	PQL	Result	Validity	Comments
					(Unfiltered)					(Unfiltered)		
Mercury	0.0000672		050218L01F	0.000500	ND	U	g	050218L01F	0.000500	ND	U	g

Lockheed Martin, Beaumont					**Table 6**							
Site: 2					**Analytical Data Summary**							
Extraction Method: METHOD					**EPA Method SW7470A**							
Anilitical Method: SW7470A												
Matrix: Water												
Units: mg/L												
		Environmental Samples										
		Field ID:			TT-MW2-4D					TT-MW2-4S		
		SDG:			05-02-0998					05-02-0998		
Parameters	MDL		Batch ID	PQL	Result	Validity	Comments	Batch ID	PQL	Result	Validity	Comments
					(Unfiltered)					(Unfiltered)		
Mercury	0.0000672		050218L01F	0.000500	ND	U	g	050218L01F	0.000500	ND	U	g