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MOFFETT FIELD
SSIC NO. 5090.3

QUARTERLY POST-CLOSURE MONITORING REPORT
MOFFETT FEDERAL AIRFIELD
MOFFETT FIELD, CALIFORNIA

Contract No. N62474-93-D-2151
Delivery Order 0108

Submitted to:

Department of the Navy
Southwest Division
Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, California 92132-5187

Submitted by:

IT Corporation
4005 Port Chicago Highway
Concord, California 94520

July 2000

IT Corporati
4005 Port Chicago Highway
Concord, CA 94520-1120
Tel. 925.288.9898
Fax. 925.288.0888

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July 20, 2000

773189-ITNHO-1011-1

Ms. Theodoris Broussard, Code 06B2.TB
Department of the Navy
BRAC Operations, Southwest Division
Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, California 92132-5190

Addressee: Ms. Lynn Hornecker, SWDiv RPM, Code 06CC.LMH

Contract: N62474-93-D-2151, Environmental Remedial Contract

Delivery Order: 0108

Subject: Quarterly Post-Closure Monitoring Report (4th Quarter), Sites 1 and 2 Monitoring and Landfill Maintenance, Moffett Federal Airfield, Moffett Field, California

Dear Ms. Hornecker:

Enclosed are three (3) copies of the 4th Quarter Post-Closure Monitoring Report for the Site 1 and 2 Landfills at Moffett Federal Airfield. Sampling and monitoring was performed on May 1, and 2, 2000. The report includes summary tables of the analytical results. Copies have also been sent directly to the individuals listed below.

Should you have any questions or require additional information, please contact the undersigned at (925) 288-9898.

Sincerely,
IT CORPORATION

Brenda L. Safreed

Dennis R. Julio, P.E.
Project Manager
D.O. 0108

Brenda L. Safreed
Contract Admin Manager
EFA West PMO

Enclosures

cc: Lt. Sean McKillop, ROICC, Code N7 (Letter Only)
Mr. Gary Munekawa, Moffett Field ROICC RPM/NTR, Code N7E2
Ms. Nancy Jaquet/Suzanne Cantin, SWDiv Records Admin., Code 02R1.NJ/02R1.SC
Mr. Timothy Mower, Tetra Tech EM Inc. (including electronic version of data)
Ms. Rose Condit, IT Corporation, Chemist
Project Files

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FOR D.O. 0108

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Lt. Sean McKillop, ROICC SFBay, Resident Officer in Charge of Construction SF Bay Area ROICC Office 2450 Saratoga, Suite 200 Alameda, CA 94501	**Letter Only**
Mr. Gary Munekawa, Code N7E2, RPM/NTR Moffett Field ROICC Bldg 107 Moffett Field, CA 94035	**1 Copy plus complete analytical data**
Ms. Nancy Jaquet, Code 02R1.NJ Ms. Suzanne Cantin, Code 02R1.SC SWDIV, Record Admin Naval Facilities Engineering Command 1220 Pacific Highway San Diego, CA 92132-5190	1 Copy
Mr. Timothy Mower Tetra Tech EM Inc. 135 Main St., Suite 1800 San Francisco, CA 94105 (415) 543-4880	**1 Copy plus electronic copy of analytical data**
Ms. Rose Condit, Chemist IT Corporation 4005 Port Chicago Highway Concord, CA 94520	1 Copy
Mr. Dennis Julio IT Corporation 4005 Port Chicago Highway Concord, CA 94520	1 Copy
Project File	1 Copy

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Acronyms and Abbreviations

µg/L	micrograms per liter
%D	percent difference
APCL	Applied Physics and Chemistry Laboratory
CCV	continuing calibration verification
CLP	Contract Laboratory Program
DCB	decachlorobiphenyl
EPA	U.S. Environmental Protection Agency
GC/MS	gas chromatograph/mass spectrometer
ICS	interference check sample
ID	identification number
IT	IT Corporation
LCS	Laboratory Control Samples
MFA	Moffett Federal Airfield
MS/MSD	matrix spike/matrix spike duplicate
OU1	Operable Unit 1
PCB	polychlorinated biphenyl
PQL	practical quantitation limit
RPD	relative percent difference
RRF	Relative Response Factor
RSD	relative standard deviation
SAP	Sampling and Analysis Plan
SDG	sample delivery group
SOW	Statement of Work
SVOA	semivolatile organic analysis
TCMX	tetrachloro-m-xylene
TOC	total organic compound
TPH	total petroleum hydrocarbons
VOA	volatile organic analysis
VOC	volatile organic compound

1.0 Introduction

Quarterly post-closure monitoring of the Operable Unit 1 (OU1) at Moffett Federal Airfield (MFA), California, was performed by IT Corporation (IT) in compliance with the IT's *Sampling and Analysis Plan (SAP), Postclosure Monitoring (Site 1) and Groundwater Monitoring (Site 2), June 1999 (Revision 0).* OU1 consists of two landfills: Runway Landfill (Site 1) and the former Golf Course Landfill (Site 2). Quarterly monitoring was performed on May 1 and 2, 2000. This report summarizes the analytical and field results obtained during this sampling event and includes the following information:

- Landfill gas monitoring results
- Analytical results from groundwater monitoring
- Data quality assessment report

2.0 Landfill Gas Sampling

Landfill gas samples were collected from 19 passive gas vents and 4 landfill gas monitoring wells at Site 1. The location of all gas monitoring points are shown on Figure 1. Landfill gas monitoring was performed using a GasTech 200 portable methane monitor. Results from methane monitoring at each sampling location are shown below.

Monitoring Location	% Methane in Landfill Gas	Monitoring Location	% Methane in Landfill Gas
Gas Venting Points			
GV-1	> 90	GV-11	> 90
GV-2	59	GV-12	> 90
GV-3	0	GV-13	> 90
GV-4	9	GV-14	> 90
GV-5	> 90	GV-15	4
GV-6	36	GV-16	> 90
GV-7	45	GV-17	63
GV-8	> 90	GV- 18	0
GV-9	0	GV-19	0
GV-10	52		
Landfill Gas Monitoring Wells			
LGMW1-1	2	LGMW 1-3	11
LGMW1-2	0	LGMW 1-4	0

3.0 Groundwater Monitoring

Groundwater samples were collected from nine monitoring wells at Site 1 and from six monitoring wells at Site 2. The monitoring well identification numbers (IDs) and analyses performed at each well are shown below. Water level measurements were collected from 14 wells and piezometers at Site 1 and eight wells at Site 2. The locations of groundwater sampling/measurement points are shown on Figure 1 for Site 1, and on Figure 2 for Site 2. Water level measurement data are presented in Table 1. All monitoring well sampling was performed using low flow micro-purging technique. Field parameters such as pH, temperature, conductivity, turbidity, and oxidation/reduction potential were measured throughout the well purging procedure. The field parameter data are recorded on the "Groundwater Monitoring Data Forms," which are included in Appendix A. A summary of analytical results for each monitoring well is provided in Appendix B.

ID	Analyses
	Site 1
W1-1	Monitoring well not found
W1-5 W1-8 W1-12 W1-14 W1-15 W1-16 W1-19 W1-22 W1-23	Volatile Organic Compounds (VOCs) (EPA Method 8260) Total Metals (EPA Method 6010B) Dissolved Metals (EPA Method 6010B) Pesticides/PCBs (EPA Method 8081/8082) Total Organic Carbon (TOC) (EPA Method 415.1) Nitrite/Nitrate as Nitrogen (EPA Method 353.1)
W1-24	Not installed
	Site 2
W2-5 W2-6 W2-12 W2-14 W2-15 W2-16	CLP SOW Volatile Organic Analysis (VOA) CLP SOW Semivolatile Organic Analysis (SVOA) CLP Pesticides/PCBs Total Petroleum Hydrocarbons (TPH) as Diesel Fuel and Motor Oil (EPA Method 8015)

CLP denotes EPA Contract Laboratory Program Statement of Work.
EPA denotes U.S. Environmental Protection Agency.
PCB denotes polychlorinated biphenyls.
SOW denotes Statement of Work.

4.0 Data Quality Assessment

Quarterly groundwater samples collected from monitoring wells located at the MFA Sites 1 and 2 were sent to Applied Physics and Chemistry Laboratory (APCL) in Chino, California. APCL is a state of California-certified laboratory that has successfully completed a Naval Facilities Engineering Services Center assessment. Sampling was performed by IT personnel according to the approved SAP (IT, 1999).

Samples collected at Site 1 were analyzed by APCL according to the requirements of the following documents:

- EPA-SW-846, *Test Methods for Evaluating Solid Waste*, Third Edition, December, 1996
- EPA-600/4-79-020, *Methods of Chemical Analysis of Water and Wastes*, 1983

Samples collected at Site 2 were analyzed by APCL according to the EPA CLP SOW for Organic Analyses (Organic Laboratory Method [OLM] 4.0).

Data evaluation/validation was performed by an IT Project Chemist following the CLP *National Functional Guidelines for Organic and Inorganic Data Review*, February 1994. The results of analysis for all samples are summarized in Tables B-1 and B-2 in Appendix B. Data qualifying flags are applied to the data in the summary tables according to the data validation findings. The following data qualifying flags were applied:

- **U**—The analyte was analyzed for, but not detected. The associated numerical value is at or below the practical quantitation limit (PQL)
- **B**—The analyte was also detected in the associated blanks
- **J**—The analyte was positively identified, the quantitation is an estimate
- **R**—The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
- **UJ**—The analyte was not detected and the associated PQL is an estimate

Sample results were reported by APCL in the following three sample delivery groups (SDGs):

SDG # 00-2786	SDG # 00-2823	SDG # 00-2824
W1-5	W1-22	W2-5
W1-8	W1-23	W2-6
W1-14	W1-12	W2-12
W1-15	Trip Blank #2	W2-14
W1-16		W2-15
W1-19		W2-16
W99-1		W99-2
(field duplicate of W1-14)		(field duplicate of W2-6)
Trip Blank #1		Trip Blank

4.1 Sample Receipt, Storage, and Holding Times

All samples were received by APCL within one to two days after sample collection. Samples that could not be shipped on the same day they were collected were maintained in the custody of the IT Project Chemist, in a locked cold storage until they could be shipped. All of the samples were received at the laboratory within the required temperature range of 2 degrees Centigrade (°C) to 6°C. All of the samples were extracted and analyzed within the required holding times as stated by the methods.

4.2 Volatile Organic Compounds

A total of 20 samples were analyzed for VOCs either by EPA Method 8260 or CLP-VOA. This total includes samples from 15 monitoring wells, 2 field duplicates, and 3 trip blanks.

4.2.1 Gas Chromatograph/Mass Spectrometer Tuning

Gas Chromatograph/Mass Spectrometer (GC/MS) tuning was performed every 12-hour interval as specified by the method. All tuning criteria for ion abundance were within the method-specified ranges.

4.2.2 Initial and Continuing Calibration

All requirements for initial and continuing calibration were met for all SDGs with the following exceptions:

- The relative percent difference (RPD) of acetone in the initial calibration for CLP-VOA analysis (SDG 00-2824) was 33%, which is above the method-specified 30% control limit. All of the Site 2 sample results associated with this calibration were qualified as estimated (J) concentrations for this analyte due to this deficiency.
- The RPD of vinyl acetate in the initial calibration for EPA 8260 analysis (SDG 002786) was 21.5% with an r^2 of 0.973, which did not meet the method-specified criteria of less than 30% relative standard deviation (RSD) or $r^2 >$ 0.99. All vinyl acetate results for samples associated with this SDG were qualified as estimated (J) concentrations due to this deficiency.
- The percent differences (%D) of tetrachloroethene (23.9%), trichlorofluoromethane (35.4%), and trans-1,4-dichlorobutene (23.1%) in the daily calibration verification standard on May 4, 2000 (SDG 002786) were above the method-specified control limit of 20%. Sample results W1-19, W1-8 and W1-15 were qualified as estimated (J) values for these analytes.
- The %D of tetrachloroethene (24.7%), trichlorofluoromethane (31.4%), acetone (93.2%) and 2-hexanone (24.7%) in the daily calibration verification standard on June 5, 2000 (SDG 002786) were above the method-specified control limit of 20%. Sample results W1-99, W1-16 and W1-5 were qualified as estimated (J) values for these analytes.

Data usability was not affected by any of these initial and continuing calibration deficiencies.

4.2.3 Blanks

Target compounds were not detected in the VOC method blanks or trip blanks with the exception of methylene chloride, 2-butanone and acetone. Methylene chloride and ketones are common laboratory contaminants, which were detected in the blanks shown below.

Samples	2- Butanone (µg/L)	Acetone (µg/L)	Methylene Chloride (µg/L)
Method Blank – 8260 (SDG 002786)	Not detected	8.4	1.0 J
Trip Blank # 1	2 J	Not detected	Not detected
Method Blank – 8260 (SDG 002823)	Not detected	Not detected	0.6 J
Method Blank – CLP VOA	Not detected	Not detected	Not detected
Trip Blank CLP	4	5	1 J

µg/L denotes micrograms per liter.

Concentrations of methylene chloride, 2-butanone and acetone were detected in many of the project samples. If the concentrations detected in the samples were below the PQLs, the results were reported as not detected at the PQL, and flagged with a U qualifier. If the concentrations in the project samples were above the PQL but less than 5 times the blank concentrations detected, then the samples results were reported as not detected (U qualifier) at the reported concentration.

4.2.4 Surrogate Compound Recoveries

All surrogate compound recoveries were within the established control limits for all samples analyzed with the following exception:

- One surrogate compound, toluene-d8, was recovered at 112 % in sample number W2-5, which is above the upper control limit of 110 %. All three other surrogate compounds were in control for the analysis. No corrective action was taken due to this minor deficiency. No data were qualified and data usability was not affected.

4.2.5 Laboratory Control Samples

All percent recoveries were within the specified control limits for the Laboratory Control Samples (LCS) in all SDGs.

4.2.6 Matrix Spike/Matrix Spike Duplicate

Two site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) pairs were analyzed for this sampling event. Samples W1-8 and W2-15 were used for the MS/MSD pairs in SDG 00-2786 and SDG 00-2824, respectively. All analyte recoveries and RPDs were within the established control limits with the following exception:

- Trichloroethene was recovered at 122 % in the MS sample of W2-15, which is above the upper control limit of 120 %. The RPD between the MS and MSD sample for benzene was 14%, which is above the control limit of 11%. All other spike compounds were in control for the analysis. No corrective action was taken due to these minor deficiencies. No data were qualified and data usability was not affected.

4.2.7 Internal Standard Performance

All internal standard results were within the method specified limits.

4.2.8 Compound Identification

All sample spectra met the compound identification criteria.

4.2.9 System Performance and Other Observations

No adverse changes in instrument performance during sample analysis were observed with the following exception:

- Samples W1-22, W1-23, and W1-12 foamed during purging, and because of this, the samples were diluted by a factor of five for analysis. The resulting reporting limits for these samples were raised by a factor of five.

4.3 Contract Laboratory Program Semivolatile Organic Analysis

A total of seven samples were submitted for CLP SVOA from Site 2, including six monitoring wells and 1 field duplicate. The data were reported in SDG 00-2824.

4.3.1 Gas Chromatograph/Mass Spectrometer Tuning

GC/MS tuning was performed within the specified 12-hour time interval. All ion abundance met the specified tuning criteria for the method.

4.3.2 Initial and Continuing Calibration

All compounds met the requirements for initial calibration of RSD < 30% and relative response factor (RRF) greater than 0.05 with the exceptions shown below. Both continuing calibration verification (CCV) standards associated with project sample analysis met the method-specific criteria of maximum %D of 25% and RRF greater than 0.05 for all compounds with the following exceptions:

Compound	Initial Calibration Deficiencies
Date: 4/10/2000 (all site 2 samples affected)	
2,4 Dinitrophenol	RSD = 56.2
4,6 Dinitro-2-methylphenol	RSD = 52.98
Carbazole	RSD = 30.47
Compound	Continuing Calibration Deficiencies
Date: 5/9/2000 (samples affected: W2-5, W2-6, W2-16, W2-14, W2-99, W2-12)	
Hexachlorobutadiene	% D = 26 %
Hexachlorocyclopentadiene	%D = 45 %
4,6-Dinitro-2-methylphenol	%D = 46 %
Date: 5/10/2000 (samples affected: W2-15)	
2,4 Dinitrophenol	% D = 49.6 5, RRF = 0.041
Hexachlorocyclopentadiene	%D = 47.1 %
2,4 Dinitrotoluene	%D = 25.2 %
4-Nitroanaline	%D = 33.8%

None of these compounds were detected in any of the project samples. The RRF for 2,4-dinitrophenol was below the method required 0.05. This analyte was rejected (R-qualifier) as unusable due to this deficiency. The results for remaining analytes shown above were qualified as estimate values (UJ) based on the initial calibration and CCV deficiencies shown above, and data usability was not affected.

4.3.3 Blanks

One method blank was extracted and analyzed with SDG 00-2824. There were no semivolatile compounds detected in the method blank.

4.3.4 Surrogate Compound Recoveries

All surrogate compound recoveries were within the specified control limits with the following exceptions:

- Samples W2-5 and W2-15 each had one out of eight surrogate compounds recovered below the lower control limits. Data qualification is not necessary unless two or more surrogates are recovered out of control limits. Therefore, no data were qualified and data usability was not affected.
- Sample W2-16 had five out of eight surrogate compounds recovered below the lower control limits. The sample extract was re-analyzed and similar surrogate recoveries were observed. Sample re-extraction was not possible due to lack of sample volume and the exceedance of sample holding time. The low surrogate recoveries could indicate a matrix interference in the analysis or laboratory error during sample preparation. All of the semivolatile results for this sample were qualified as rejected (R) due to this deficiency.

4.3.5 Laboratory Control Samples

One LCS/LCS duplicate pair was extracted and analyzed with SDG 00-2824. All recoveries and RPDs were within the specified control limits.

4.3.6 Matrix Spike/Matrix Spike Duplicate

One project-specific MS/MSD pair was analyzed with SDG 00-2824. Sample W2-15 was used for the MS/MSD samples. All recoveries and RPDs were within the specified control limits with the following exceptions:

- 1,4 Dichlorobenzene (34 %/ 33 %), N-nitrosodi-n-phenylamine (33 %/ 33 %), acenaphthene (39%/39%), and phenol (11 %) were recovered in the MS/MSD samples below the lower control limits for these analytes. No corrective action was taken due to this anomaly. No data were qualified and data usability was not affected.

4.3.7 Internal Standard Performance

All internal standard results were within the specified control limits.

4.3.8 Compound Identification

All sample spectra met compound identification criteria.

4.3.9 System Performance and Other Observations

No adverse changes in instrument performance during sample analysis were observed.

4.4 Pesticides and Polychlorinated Biphenyls

A total of 17 samples were analyzed for pesticides and PCBs either by EPA Methods 8081/8082 or CLP Pesticide/PCB. This total includes samples collected from 15 monitoring wells and two field duplicates.

4.4.1 Pesticides Instrument Performance

All peak separation, retention time window, and degradation/breakdown criteria were within the method-specified control limits.

4.4.2 Initial and Continuing Calibration

The initial calibration for each individual pesticide and PCBs met all of the method-specified criteria. All continuing calibration verifications were analyzed at the required time intervals and met the established method acceptance criteria for all pesticides and PCBs.

4.4.3 Blanks

Individual pesticides and PCBs were not detected in the method extraction blanks or instrument blanks.

4.4.4 Surrogate Compound Recoveries

Surrogate compounds tetrachloro-m-xylene (TCMX) and decachlorobiphenyl (DCB) were recovered within the specified control limits of 30% to 150% for all samples and blanks analyzed.

4.4.5 Laboratory Control Samples

Two LCS/LCS duplicate pairs were extracted and analyzed with this sample set. All recoveries and RPDs were within the specified control limits for the method.

4.4.6 Matrix Spike/Matrix Spike Duplicate

Two site-specific MS/MSD pairs were analyzed for this sampling event. Sample W1-8 was used for the MS/MSD for SDG 00-2786 and was spiked with pesticides only. Sample W2-15 was used for the MS/MSD for SDG 00-2824 and was spiked with pesticides only. All analyte recoveries and RPDs were within the established control limits.

4.5 Total Petroleum Hydrocarbons

A total of seven samples were analyzed for TPH as diesel fuel and motor oil and were reported in SDG 00-2824. This total includes six monitoring wells and one field duplicate.

4.5.1 Initial and Continuing Calibration

The initial calibration for diesel and motor oil met the method-specified criteria. All continuing calibration verifications were analyzed at the required time intervals and met the established method acceptance criteria for both diesel and motor oil.

4.5.2 Blanks

Diesel and motor oil were not detected in the method extraction blank.

4.5.3 Surrogate Compound Recoveries

Surrogate compound octacosane was recovered within the specified control limits for all samples and blanks analyzed.

4.5.4 Laboratory Control Samples

One LCS/LCS duplicate pair was extracted and analyzed with SDG 99-6403. All recoveries and RPDs were within the specified control limits for diesel fuel analysis.

4.5.5 Matrix Spike/Matrix Spike Duplicate

One project-specific MS/MSD pair was analyzed with this SDG. Sample W2-15 was used for the MS/MSD sample. The recovery and RPD for diesel fuel in the MS/MSD of W2-15 was within the specified control limits for the method.

4.6 Inorganic Parameters

A total of ten samples were analyzed for metals by EPA Method 6010B. This total includes nine monitoring wells and one field duplicate. All samples were analyzed twice, as total and dissolved metals. The data were reported in both SDGs 00-2786 and 00-2823.

4.6.1 Initial and Continuing Calibration

All initial and continuing calibration criteria for metals were met.

4.6.2 Blanks

The following analytes were detected in either the preparation blank and/or the continuing calibration blank: arsenic, antimony, beryllium, barium, cadmium, chromium, copper, cobalt, nickel, lead, thallium, and zinc. All sample results of less than five times the associated blank concentrations have been reported as not detected at the PQL.

4.6.3 Interference Check Sample

All Interference Check Sample (ICS) recoveries were within the required control limits.

4.6.4 Laboratory Control Samples

All LCS and LCS duplicate recoveries were within the established control limits.

4.6.5 Matrix Spike Sample Analysis

One MS was analyzed with each SDG. Sample W1-12 was used for the MS/MSD with SDG 00-2823 for dissolved metal analysis and W1-8 was used for the MS/MSD for total metal analysis with SDG 00-2786. All analyte recoveries were within the established control limits of 75% to 125% with the following exceptions:

- Thallium and beryllium was recovered between 72% and 74% in both the MS and MSD samples of W1-12. A post-digestion spike was performed, and thallium and beryllium recoveries were within the control limit. Thallium and beryllium were not detected in sample W1-12, and the results were qualified as "UJ," indicating that the analyte was not detected and the quantitation limit is approximated due to matrix interference and a possible low bias.

4.6.6 Inductively Coupled Plasma Serial Dilution

The %D for metals with concentrations greater than five times the reporting limit in samples W1-12 and W1-8 were all below the 10% control limit.

4.7 Field Duplicates

Two field duplicates were collected and analyzed during this sampling event. The field duplicate results are summarized in Table 2. The field duplicate precision indicates acceptable sampling and analytical precision.

4.8 Overall Assessment

The laboratory data generated from the second quarter sampling event for year 2000 are indicative of acceptable analytical performance. With the exception of 2,4-dinitrophenol and SVOA results for sample W2-16, which were rejected due to analytical deficiencies, the discrepancies noted above do not invalidate the data for its intended use of groundwater monitoring.

5.0 References

IT Corporation, June 1999, *Sampling and Analysis Plan (SAP), Postclosure Monitoring (Site 1) and Groundwater Monitoring (Site 2)* (Revision 0).

U.S. Environmental Protection Agency, December, 1996, SW-846, *Test Methods for Evaluating Solid Waste,* Third Edition.

U.S. Environmental Protection Agency, February 1994, Contract Laboratory Program (CLP) *National Functional Guidelines for Organic and Inorganic Data Review.*

U.S. Environmental Protection Agency, 1983, EPA-600/4-79-020 *Methods of Chemical Analysis of Water and Wastes.*

U.S. Environmental Protection Agency, Organic Laboratory Method 4.0, *CLP Statement of Work (SOW) for Organic Analyses.*

FIGURES

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
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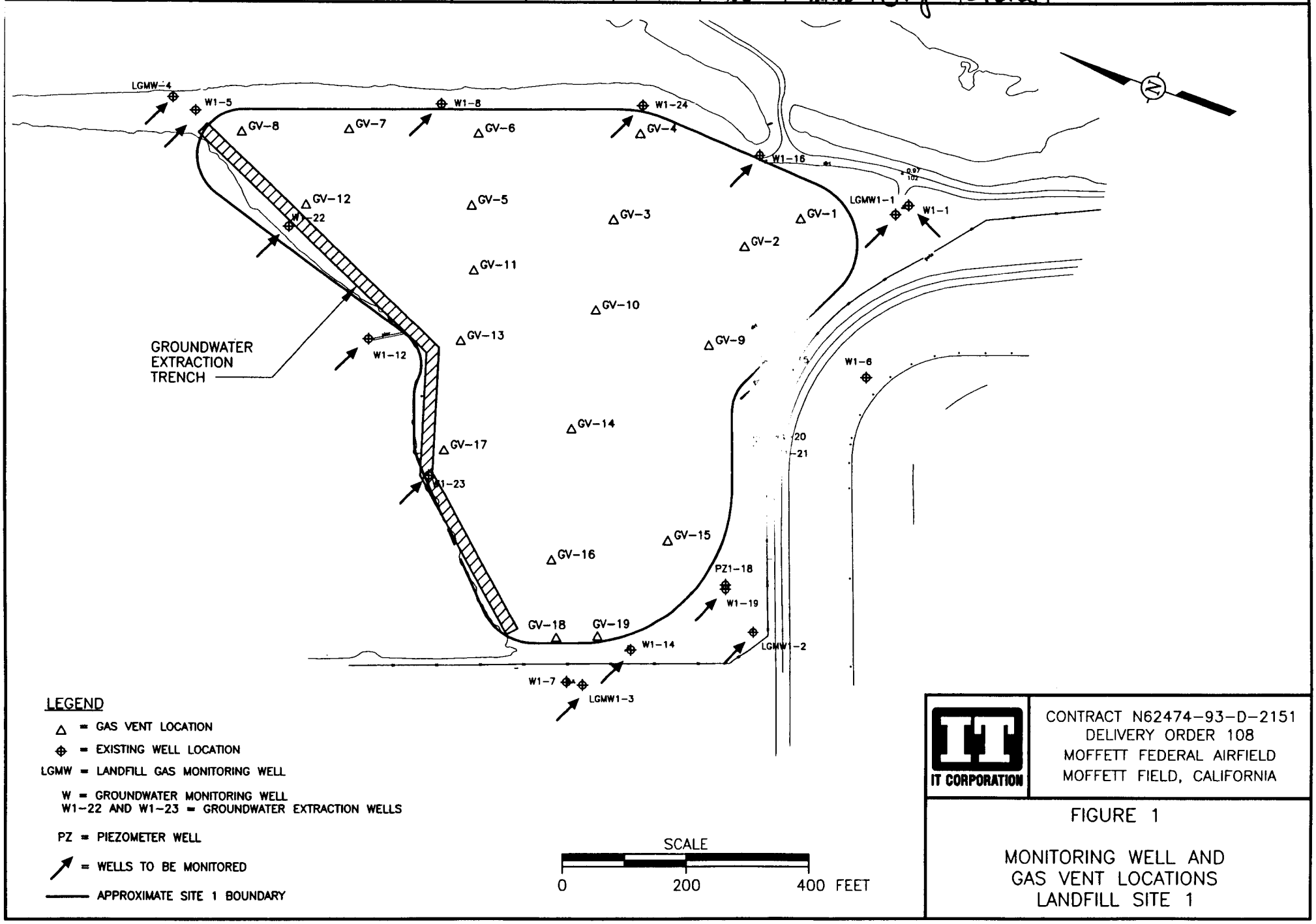

IT CORPORATION

CONTRACT N62474-93-D-2151
DELIVERY ORDER 108
MOFFETT FEDERAL AIRFIELD
MOFFETT FIELD, CALIFORNIA

FIGURE 1

MONITORING WELL AND GAS VENT LOCATIONS LANDFILL SITE 1

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
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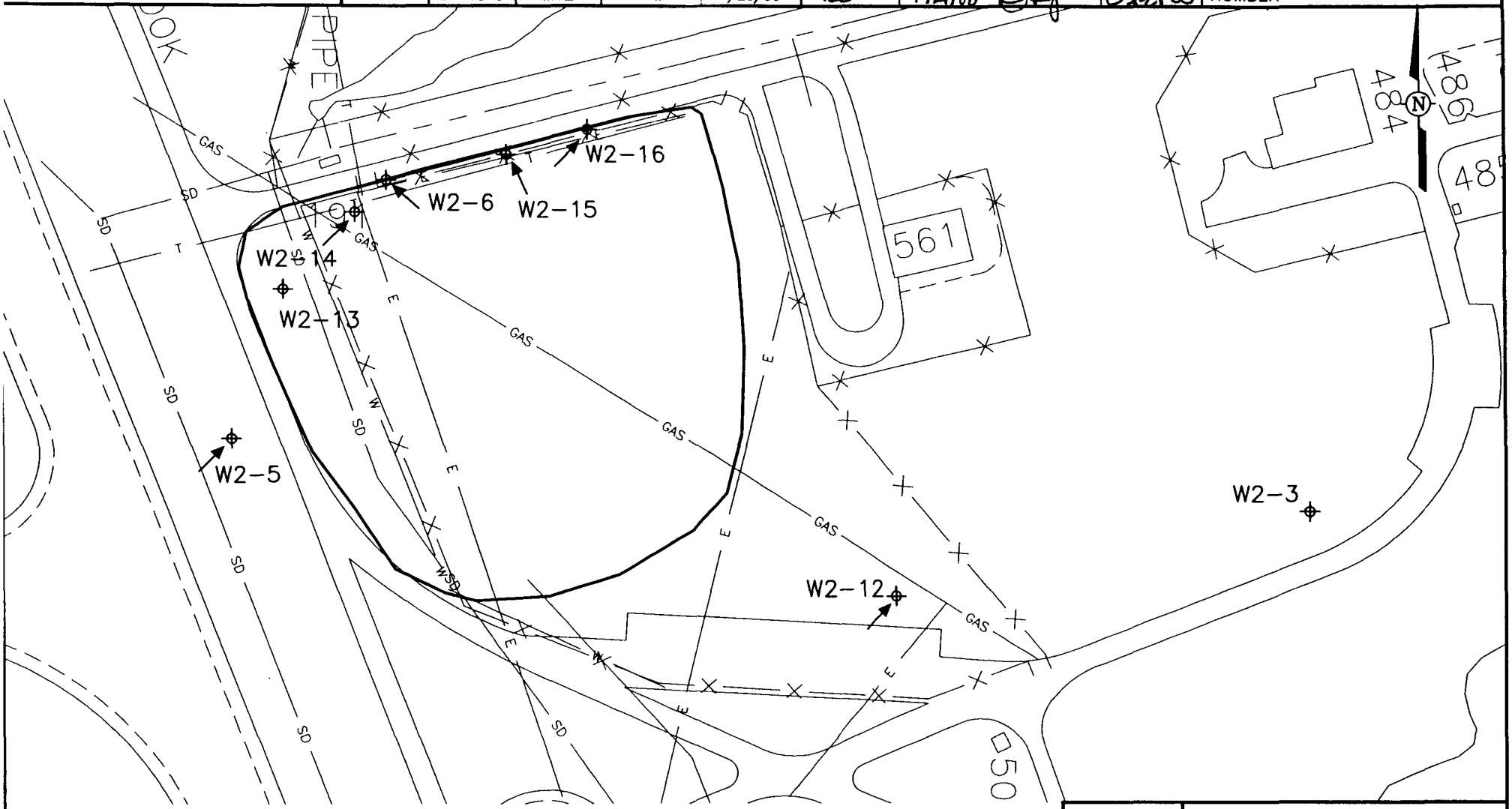

LEGEND

- ⌖ EXISTING WELL LOCATION
- W = GROUNDWATER MONITORING WELL
- ↗ = WELLS TO BE MONITORED
- ——— APPROXIMATE SITE 2 BOUNDARY
- — GAS — EXISTING UNDERGROUND GAS LINE (PHOTO 4/26/96)
- — T — EXISTING UNDERGROUND TELEPHONE LINE
- — E — EXISTING UNDERGROUND ELECTRICAL LINE
- — W — EXISTING UNDERGROUND WATER LINE
- — SD — EXISTING UNDERGROUND STORM DRAIN

SCALE

0 150 300 FEET

IT CORPORATION

CONTRACT N62474-93-D-2151
DELIVERY ORDER 108
MOFFETT FEDERAL AIRFIELD
MOFFETT FIELD, CALIFORNIA

FIGURE 2

MONITORING WELL LOCATIONS
LANDFILL SITE 2

TABLES

Table 1
Water Level Measurements

Well I.D.	Depth to Water (feet)
Site 1	
W1-1	Well not found
W1-5	5.29
W1-6	2.12
W1-7	2.88
W1-8	5.38
W1-12	3.50
W1-14	5.24
W1-15	5.38
W1-16	6.67
W1-19	4.87
W1-20	5.67
W1-22	3.13
W1-23	4.82
W1-24	Not installed
PZ1-18	4.98
PZ1-21	5.18
Site 2	
W2-3	4.41
W2-5	6.77
W2-6	7.25
W2-12	7.60
W2-13	7.02
W2-14	7.43
W2-15	4.16
W2-16	4.47

1. *Depth to water measured from top of well casing.*

Table 2
Field Duplicate Summary

Analyte	Sample Result	Sample Duplicate Result	RPD (%)
W1-14 (W99-1)			
VOCs	All compounds not detected	All compounds not detected	Not calculable
Pesticides	All compounds not detected	All compounds not detected	Not calculable
PCBs	All compounds not detected	All compounds not detected	Not calculable
Total Metals	Concentration, µg/L		
Barium	126	126	0%
Cobalt	7.3J	7.7J	5.3%
Chromium	6.2J	7.7J	21.5%
All other total metals	All metals not detected or below reporting limit	All metals not detected or below reporting limit	Not calculable
Dissolved Metals	Concentration, µg/L		
Barium	118	116	1.7%
Cobalt	7.6J	8J	5.1%
Chromium	6.1J	6.3J	3.3%
All other dissolved metals	All metals not detected or below reporting limit	All metals not detected or below reporting limit	Not calculable
Nitrate-Nitrite	0.05J	0.05J	0%
TOC	11	23	70.5%
W2-6 (W99-2)			
Bis(2ethylhexyl) phthalate	2J	1J	66.6%
SVOCs	All other compounds not detected	All other compounds not detected	Not calculable
VOCs	All compounds not detected	All compounds not detected	Not calculable
Pesticides	All compounds not detected	All compounds not detected	Not calculable
PCBs	All compounds not detected	All compounds not detected	Not calculable
Motor Oil	60J	100 U	Not calculable
Diesel Fuel	110	80	31.5%

APPENDIX A
GROUNDWATER MONITORING DATA FORMS

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-5**

Project Number: **773189** Date: 5/1/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 5.29 ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 250 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±10%*	*±1°C*	*± 10 mV*	*± 10%*	*± 10%*
1135 Pump Start set flow rate to ~250 ml/min							
1145		7.13	52.4	18.3	~~4.99~~ 5.58	10.44	114
1150		7.16	52.4	18.6	6.22	10.57	115
~~Noon~~ 1155		7.20	52.4	18.8	6.53	11.15	115
Noon		7.22	52.3	18.9	6.98	11.13	116

SAMPLING INFORMATION

Sample Number	**W1-5**
Sample Date/Time	5/1/00 – 1202
Sampler ID	RC
Weather Conditions	(sunny) rainy overcast Temp: ~65 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-8**

Project Number: **773189** Date: 5/1/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 5.38 ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 250 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1400 start *Stabilization criteria*		*±0.1*	*±10%*	*±1°C*	*± 10 mV*	*± 10%*	*± 10%*
1405		7.44	53.0	18.4	6.10	11.08	1
1410		7.44	53.2	18.4	6.00	11.15	999
1415		7.43	53.4	17.7	6.17	11.41	999
1420		7.43	52.9	17.6	6.13	11.23	999
1425		7.43	53.0	17.5	6.21	11.28	999
					meter not working		meter not working

SAMPLING INFORMATION

Sample Number	**W1-8**
Sample Date/Time	5/1/00 1428
Sampler ID	
Weather Conditions	(sunny) rainy overcast Temp: 60 °F windy
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-12**

Project Number: **773189** Date: 5/1/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 3.50' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 200 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±10%*	*±1°C*	*± 10 mV*	*± 10%*	*± 10%*
1512	400 ml	9.20	19.4	16.5	-367	-.41	16.40
1516	1,200 ml	9.20	19.9	16.8	-377	-.21	19.11
1521	2,000 ml	9.20	20.0	17.0	-387	-.09	14.85
1525	2,800 ml	9.20	20.1	17.1	-401	-.50	12.54
1529	3,600 ml	9.21	20.1	17.9	-403	-.09	11.88
1533	4,400 ml	9.21	20.1	17.1	-403	-.11	11.17
1537	5,200 ml	9.21	20.1	17.1	-404	-.09	10.99

SAMPLING INFORMATION

Sample Number	**W1-12**
Sample Date/Time	5/1/00 @ 1555
Sampler ID	KM
Weather Conditions	(sunny) rainy overcast Temp: 70 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-14**

Project Number: **773189** Date: 5/1/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 5.24' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 100 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria	~~500 ml~~	±0.1	±10 %	±1°C	± 10 mV	± 10 %	± 10%
0900	500 ml	6.99	13.31	15.7	-137	-.07	13.27
0904	1300 ml	6.99	13.53	15.7	-142	-.30	11.05
0904	2,100 ml	6.99	13.64	15.7	-144	-.30	11.73
0a							

SAMPLING INFORMATION

Sample Number	**W1-14** (W1-99)
Sample Date/Time	5/1/00 - 0920
Sampler ID	KM
Weather Conditions	(sunny) rainy overcast Temp: 64 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments: METER CALIBRATIONS; pH 7=7.0, 4=4.0, 10=10.0 / S.C. 1000 = 804 / ORP: 231 = 231, TURB; 0.02 = 0.02

DUPLICATE COLLECTED; W1-14D

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-15**

Project Number: **773189** Date: 5/1/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 5.38' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 200 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±10 %*	*±1°C*	*± 10 mV*	*± 10 %*	*± 10%*
1125	400 ml	6.70	13.39	~~23.1~~ 15.4	-227	4.17	1.10
1129	1,200 ml	6.74	13.41	15.0	-222	4.83	.02
1133	2,000 ml	6.78	13.42	15.1	-204	5.10	.02
1137	2,800 ml	6.83	13.39	15.1	-202	4.99	.04

SAMPLING INFORMATION

Sample Number	**W1-15**
Sample Date/Time	5/1/00 @ 1150
Sampler ID	KM
Weather Conditions	(sunny) rainy overcast Temp: 72 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-16**

Project Number: **773189** Date: 5/1/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 6.67' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 200 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±10%*	*±1°C*	*± 10 mV*	*± 10%*	*± 10%*
1252	400 ml	6.85	17.93	16.7	-190	-.22	2.64
1256	1,200 ml	6.84	18.03	16.8	-200	-.18	.21
1300	2,000 ml	6.84	18.30	16.8	-200	-.19	.71
1304	2,800 ml	6.84	18.31	16.8	-203	-.23	.66

SAMPLING INFORMATION

Sample Number	**W1-16**
Sample Date/Time	5/1/00 @ 1330
Sampler ID	KM
Weather Conditions	~~sunny~~ rainy overcast Temp: 72° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-19**

Project Number: **773189** Date: 5/1/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 4.87' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 200 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±10%*	*±1°C*	*± 10 mV*	*± 10%*	*± 10%*
1023	500 ml	7.11	16.73	15.9 ~~31.9~~	-055	-0.22	0.86
1027	1,300 ml	6.99	16.91	15.9	-063	-0.24	0.56
1031	2,100 ml	6.97	17.01	16.0	-061	.26	0.24
1035	3,000 ml	6.95	17.09	16.3	-063	.29	0.11
1039	3,800 ml	6.95	17.11	16.3	-063	.31	0.11

SAMPLING INFORMATION

Sample Number	**W1-19**
Sample Date/Time	5/1/00 @ 1045
Sampler ID	KM
Weather Conditions	sunny rainy overcast Temp: 71 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments: TEMP. PROBE ON YSI METER NOT FUNCTIONING PROPERY (READS 61.7°C+), USE PROBE ON DO METER

PZ1-18 SWL= 4.98'

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-22**

Project Number: **773189** Date: 5/1/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 3.13' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 200 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±10%*	*±1°C*	*± 10 mV*	*± 10%*	*± 10%*
1415	400 ml	6.79	11.05	17.1	-153	.16	2.89
1419	1,200 ml	6.78	11.08	17.1	-169	.35	1.88
1423	2,000 ml	6.79	10.89	17.1	-159	.04	1.38
1427	2,800 ml	6.79	10.79	17.1	-162	.02	1.31

SAMPLING INFORMATION

Sample Number	**W1-22**
Sample Date/Time	5/1/00 @ 1445
Sampler ID	KM
Weather Conditions	sunny rainy overcast Temp: 72 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q2 2000)** Well ID: **W1-23**

Project Number: **773189** Date: 5/2/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 4.82' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

Flow Rate: 200 ml/min

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±10%*	*±1°C*	*± 10 mV*	*± 10%*	*± 10%*
0705	400 mL	6.66	15.64	16.4	~~6.66~~ -109	-.17	46.8
0719	1,200 mL	6.68	15.53	16.4	-103	-.17	47.1
0723	2,000 mL	6.69	15.50	16.5	-094	-.16	38.6
0727	2,800 mL	6.70	15.49	16.5	-094	-.16	38.8

SAMPLING INFORMATION

Sample Number	**W1-23**
Sample Date/Time	5/2/00 @ 0800
Sampler ID	KM
Weather Conditions	sunny rainy overcast Temp: 62 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), **Pesticides** 8081, **PCBs** 8082 (2 Liters)

Comments: FIELD METER CALIBRATIONS; pH 4.0=4.0, 7.0=7.0, 10.0=10.0, SC; 1,000=841, TURB; 0.2=0.2, ORP; 231=234, TEMP. PROBE ON YSI NOT OPERATING PROPERLY

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q2 2000)** Well ID: **W2-5**

Project Number: **773189** Date: 5/2/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 6.77' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

PURGE DATA

Time	Volume Purged	pH	Temp. (C)	Cond. (us)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±1°C*	*± 10%*	*± 10 mV*	*± 10 %*	*± 10%*
0905	800 ml	7.49	18.1	2.47	-009	.02	.58
0909	1,600 ml	7.49	18.1	2.45	-010	-.16	.39
0913	2,400 ml	7.46	18.2	2.41	-014	-.09	.36
0917	3,200 ml	7.46	18.2	2.41	-015	-.09	.33

SAMPLING INFORMATION

Sample Number	**W2-5**
Sample Date/Time	5/2/00 @ 0935
Sampler ID	KM
Weather Conditions	sunny rain overcast fog 66 °F Temperature
Sample Collection Method	Low flow pump - ~ 100 ml/min
Volume Collected/Analyses	**CLP VOA (Low Level), CLP SVOC, CLP Pest/PCB, TPH as Diesel & Motor Oil (3 Liters & 3 VOA Vials)**

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q2 2000)** Well ID: **W2-6**

Project Number: **773189** Date: 5/2/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 7.25 ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps
(Micro-Purge)

PURGE DATA

Time	Volume Purged	pH	Temp. (C)	Cond. (us)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±1°C*	*± 10%*	*± 10 mV*	*± 10 %*	*± 10%*
pump start 8:20		–	–	–	–	–	–
835		6.51	17.9	28.6	136	9.85	meter
840		6.87	17.8	29.0	133	9.89	failure
845		6.90	17.8	29.3	131	10.09	
850		6.92	17.9	29.5	131	2.12	
855		6.94	17.8	29.4	~~131~~ 98	10.02	
0900		6.95	17.8	29.5	75	9.94	
0905		6.96	17.8	29.4	58	9.93	
0910		6.98	17.8	29.2	55	9.72	
0915		7.04	17.8	28.8	38	9.84	
0920		7.01	17.8	28.7	33	9.94	
0925		7.01	17.8	28.6	33	9.98	

SAMPLING INFORMATION

Sample Number	**W2-6** Field Dup W2-99
Sample Date/Time	5/2/00 0925
Sampler ID	KD / RC
Weather Conditions	sunny rain overcast fog ~60 °F Temperature
Sample Collection Method	Low flow pump - ~ 100 ml/min
Volume Collected/Analyses	**CLP VOA (Low Level), CLP SVOC, CLP Pest/PCB, TPH as Diesel & Motor Oil (3 Liters & 3 VOA Vials)**

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q2 2000)** Well ID: **W2-12**

Project Number: **773189** Date: 5/2/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 7.60' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

PURGE DATA

Time	Volume Purged	pH	Temp. (C)	Cond. (us)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±1°C*	*± 10%*	*± 10 mV*	*± 10 %*	*± 10%*
1050	400 ml	7.45	17.7	1.456	-002	0.58	.15
1054	1,200 ml	7.44	17.9	1.464	-004	0.43	.12
1058	2,000 ml	7.44	17.9	1.466	-003	0.47	.15
1102	2,800 ml	7.44	17.8	1.466	-003	0.47	.17

SAMPLING INFORMATION

Sample Number	**W2-12**
Sample Date/Time	5/2/00 @ 1115
Sampler ID	KM
Weather Conditions	sunny rain (overcast) fog 68 °F Temperature
Sample Collection Method	Low flow pump - ~ 100 ml/min
Volume Collected/Analyses	**CLP VOA (Low Level), CLP SVOC, CLP Pest/PCB, TPH as Diesel & Motor Oil (3 Liters & 3 VOA Vials)**

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q2 2000)** Well ID: **W2-14**

Project Number: **773189** Date: 5/2/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 7.43' ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

PURGE DATA

Time	Volume Purged	pH	Temp. (C)	Cond. (us)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±1°C*	*± 10%*	*± 10 mV*	*± 10 %*	*± 10%*
1135	800 ml	7.29	17.3	6.97	024	1.83	.76
1139	1,600 ml	7.25	17.4	7.40	024	1.55	.06
1143	2,400 ml	7.23	17.6	7.67	017	1.19	.08
1147	3,200 ml	7.22	17.7	7.78	010	1.28	.13
1151	4,000 ml	7.22	17.6	7.76	008	1.29	.11

SAMPLING INFORMATION

Sample Number	**W2-14**
Sample Date/Time	5/2/00 @ 1200
Sampler ID	KM
Weather Conditions	sunny rain overcast fog 72° °F Temperature
Sample Collection Method	Low flow pump - ~~100~~ ml/min
Volume Collected/Analyses	**CLP VOA (Low Level), CLP SVOC, CLP Pest/PCB, TPH as Diesel & Motor Oil (3 Liters & 3 VOA Vials)**

Comments:

SWL
W2-13 = 7.02'
W2-3 = 4.41'

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q2 2000)** Well ID: **W2-15**

Project Number: **773189** Date: 5/2/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 4.16 ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps
(Micro-Purge)

PURGE DATA

Time	Volume Purged	pH	Temp. (C)	Cond. (us)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±1°C*	*± 10%*	*± 10 mV*	*± 10 %*	*± 10%*
1020							
1035		7.14	18.8	26.3	140	0.97	—
1040		7.08	18.7	29.1	167	0.55	
1045		7.04	18.7	31.2	176	0.37	
1050		7.02	18.7	32.1	181	0.18	
1055	battery dial	-	—	—	—	—	—
1100		7.01	18.7	33.2	170	0.30	
1105		7.08	18.7	29.3	177	0.32	
1110		7.06	18.6	30.2	127	0.31	
1115		7.03	18.6	31.4	136	0.36	
1120		7.03	18.7	31.7	135	0.33	

SAMPLING INFORMATION

Sample Number	**W2-15**
Sample Date/Time	5/2/00 1120
Sampler ID	CD/RC
Weather Conditions	sunny rain (overcast) fog – 60 °F Temperature
Sample Collection Method	Low flow pump - ~ 100 ml/min
Volume Collected/Analyses	**CLP VOA (Low Level), CLP SVOC, CLP Pest/PCB, TPH as Diesel & Motor Oil (3 Liters & 3 VOA Vials)**

Comments:_____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q2 2000)** Well ID: **W2-16**

Project Number: **773189** Date: 5/2/00

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water 4.47' [ ] ft. Screen Depth:_____ft.

Purging Method= Low Flow Pumps (Micro-Purge)

PURGE DATA

Time	Volume Purged	pH	Temp. (C)	Cond. (us)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
Stabilization criteria		*±0.1*	*±1°C*	*± 10%*	*± 10 mV*	*± 10 %*	*± 10%*
1230	400 ml	7.17	18.3	7.70	045	0.33	8.67
1234	800 ml	7.15	18.4	8.23	044	0.24	6.16
1238	1,200 ml	7.13	18.4	8.45	043	0.27	6.11
1242	2,000 ml	7.12	18.4	8.47	042	0.28	6.18

SAMPLING INFORMATION

Sample Number	**W2-16**
Sample Date/Time	5/2/00 @ 1300
Sampler ID	KM
Weather Conditions	sunny rain overcast fog ~60 °F Temperature
Sample Collection Method	Low flow pump - ~ 100 ml/min
Volume Collected/Analyses	**CLP VOA (Low Level), CLP SVOC, CLP Pest/PCB, TPH as Diesel & Motor Oil (3 Liters & 3 VOA Vials)**

Comments:_____

APPENDIX B
SUMMARY OF ANALYTICAL RESULTS

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-5	W1-8	W1-12	W1-14	W1-15	W1-16
Date Collected	05/01/2000	05/01/2000	05/01/2000	05/01/2000	05/01/2000	05/01/2000
Analysis						
EPA Method 8260A	Concentration, ug/L					
Acetone	2.8U J	6.1U	55U	5.6U	6U	2.8U J
Acrylonitrile	2U	2U	12U	2.3U	2U	2U
Benzene	2U	2U	10U	2U	2U	2U
Bromobenzene	2U	2U	10U	2U	2U	2U
Bromochloromethane	2U	2U	10U	2U	2U	2U
Bromodichloromethane	2U	2U	10U	2U	2U	2U
Bromoform	2U	2U	10U	2U	2U	2U
Bromomethane	2U	2U	10U	2U	2U	2U
2-Butanone	2U	2U	22U	2U	2U	2U
Carbon disulfide	2U	2U	10U	2U	2U	2U
Carbon tetrachloride	2U	2U	10U	2U	2U	2U
Chlorobenzene	2U	2U	10U	2U	2U	2U
Chloroethane	2U	2U	10U	2U	2U	2U
Chloroform	2U	2U	10U	2U	2U	2U
Chloromethane	2U	2U	10U	2U	2U	2U
1,2-Dibromo-3-chloropropane	2U	2U	10U	2U	2U	2U
1,2-Dibromoethane	2U	2U	10U	2U	2U	2U
Dibromomethane	2U	2U	10U	2U	2U	2U
trans-1,4-Dichlorobutene	2U	2U J	10U	2U J	2U J	2U
1,2-Dichlorobenzene	2U	2U	10U	2U	2U	2U
1,4-Dichlorobenzene	2U	2U	10U	2U	2U	2U
1,1-Dichloroethane	2U	2U	10U	2U	2U	2U
1,2-Dichloroethane	3U	3U	10U	3U	2U	3U
1,1-Dichloroethene	2U	2U	10U	2U	2U	2U
cis-1,2-Dichloroethene	2U	2U	10U	2U	2U	2U
trans-1,2-Dichloroethene	2U	2U	10U	2U	2U	2U
1,2-Dichloropropane	2U	2U	10U	2U	2U	2U
cis-1,3-Dichloropropene	2U	2U	10U	2U	2U	2U
trans-1,3-Dichloropropene	2U	2U	10U	2U	2U	2U
Ethylbenzene	2U	2U	10U	2U	2U	2U
2-Hexanone	2U J	2U	10U	2U	2U	2U J
Methylene chloride	2U	2U	10U	2U	2U	2U
4-Methyl-2-pentanone	2U	2U	10U	2U	2U	2U
Styrene	2U	2U	10U	2U	2U	2U
1,1,1,2-Tetrachloroethane	2U	2U	10U	2U	2U	2U
1,1,2,2-Tetrachloroethane	2U	2U	10U	2U	2U	2U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-5	W1-8	W1-12 [1]	W1-14	W1-15	W1-16
Date Collected	05/01/2000	05/01/2000	05/01/2000	05/01/2000	05/01/2000	05/01/2000
Analysis						
EPA Method 8260A *cont*			Concentration, ug/L			
Tetrachloroethene	2U J	2U J	10U	2U J	2U J	2U J
Toluene	2U	2U	10U	2U	2U	2U
1,1,1-Trichloroethane	2U	2U	10U	2U	2U	2U
1,1,2-Trichloroethane	2U	2U	10U	2U	2U	2U
Trichloroethene	2U	2U	10U	2U	2U	2U
Trichlorofluoromethane	2U J	2U J	10U	2U J	2U J	2U J
Vinyl chloride	2U	2U	10U	2U	2U	2U
1,2,3-Trichloropropane	2U	2U	10U	2U	2U	2U
Vinyl Acetate	2U J	2U J	10U	2U J	2U J	2U J
m/p-Xylene	2U	2U	10U	2U	2U	2U
o-Xylene	2U	2U	10U	2U	2U	2U
EPA Method 8081			Concentration, ug/L			
Aldrin	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
alpha-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
beta-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
delta-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
gamma-BHC (Lindane)	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
alpha Chlordane	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
gamma Chlordane	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
4,4'-DDD	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
4,4'-DDE	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
4,4'-DDT	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Dieldrin	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endosulfan I	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Endosulfan II	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endosulfan sulfate	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin aldehyde	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin ketone	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Heptachlor	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Heptachlor epoxide	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
Methoxychlor	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Toxaphene	2U	2U	2U	2U	2U	2U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-5	W1-8	W1-12 [1]	W1-14	W1-15	W1-16
Date Collected	05/01/2000	05/01/2000	05/01/2000	05/01/2000	05/01/2000	05/01/2000
Analysis						
EPA Method 8082	Concentration, ug/L					
Aroclor-1016	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1221	0.7U	0.7U	0.7U	0.7U	0.7U	0.7U
Aroclor-1232	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1242	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1248	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1254	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1260	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
EPA Method 6010B (total)	Concentration, ug/L					
Antimony	50U	50U	**5.1J**	50U	50U	50U
Arsenic	50U	50U	50U	50U	50U	50U
Barium	**346**	**93.5J**	100U	**126**	**152**	**631**
Beryllium	2U	2U	2UJ	2U	2U	2U
Cadmium	2U	2U	2U	2U	2U	2U
Chromium	**5.1J**	**5.4J**	**4.1J**	**6.2J**	**6.8J**	**6.6J**
Cobalt	10U	10U	10U	**7.3J**	10U	**8.2J**
Copper	10U	10U	10U	10U	10U	10U
Lead	5U	5U	5U	5U	5U	5U
Nickel	40U	40U	40U	40U	40U	**10.3J**
Selenium	10U	**13.5J**	**4.8J**	13U	10U	20U
Silver	5U	5U	5U	5U	5U	5U
Thallium	10U	10U	**2.1J**	10U	10U	10U
Vanadium	10U	10U	20U	10U	10U	10U
Zinc	20U	20U	20U	20U	20U	20U
EPA Method 6010B (dissolved)	Concentration, ug/L					
Antimony	50 U	50 U	**18.3J**	50 U	50 U	50 U
Arsenic	50 U	50 U	**13.3J**	50 U	50 U	50 U
Barium	**359**	**89.0J**	**135**	**118**	**137**	**691**
Beryllium	2U	2U	2U J	2U	2U	2U
Cadmium	2U	2U	2U	2U	2U	2U
Chromium	5.7J	4.5 J	**30.8**	**6.1J**	**6.5J**	**7.1J**
Cobalt	10U	10U	**32**	**7.6J**	10U	**8.1J**
Copper	10U	10U	10U	10U	10U	10U
Lead	5U	5U	5U	5U	5U	5U
Nickel	40U	40U	**1070**	40U	40U	**10J**
Selenium	20U	20U	**23.4**	20U	20U	20U
Silver	5U	5U	**14.6**	5U	5U	5U
Thallium	10U	10U	10UJ	10U	10U	10U
Vanadium	10U	10U	10U	10U	10U	10U
Zinc	20U	20U	20U	20U	20U	20U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-5	W1-8	W1-12 [1]	W1-14	W1-15	W1-16
Date Collected	05/01/2000	05/01/2000	05/01/2000	05/01/2000	05/01/2000	05/01/2000
Analysis						
EPA Method 353.3			Concentration, ug/L			
Nitrate-Nitrite as N	**4.3**	**7.05**	**0.34**	**0.05J**	**0.1**	**1.7**
EPA Method 415.1			Concentration, ug/L			
TOC	1 U	**6**	**8.9**	**11**	**24**	**22**

[1] *Samples W1-12, W1-22 and W1-23 were diluted due to foaming during the EAP 8260 analysis.*

[2] *W99-1 is a field duplicate of sample W1-14*

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the analyte was positively identified but the associated numerical value is below the reporting limit (RL).

UJ qualifier indicates that the analyte was not detected. However, the reported quantitation limit is approximate.

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-19	W1-22 [1]	W1-23 [1]	W99-1 [2]
Date Collected	05/01/2000	05/01/2000	05/02/2000	05/01/2000
Analysis				field duplicate
EPA Method 8260A	Concentration ug/L			
Acetone	7.4U	55U	55U	2.8U J
Acrylonitrile	2U	12U	12U	2U
Benzene	2U	10U	10U	2U
Bromobenzene	2U	10U	10U	2U
Bromochloromethane	2U	10U	10U	2U
Bromodichloromethane	2U	10U	10U	2U
Bromoform	2U	10U	10U	2U
Bromomethane	2U	10U	10U	2U
2-Butanone	2U	22U	22U	2U
Carbon disulfide	2U	10U	10U	2U
Carbon tetrachloride	2U	10U	10U	2U
Chlorobenzene	2U	10U	10U	2U
Chloroethane	2U	10U	10U	2U
Chloroform	2U	10U	10U	2U
Chloromethane	2U	10U	10U	2U
1,2-Dibromo-3-chloropropane	2U	10U	10U	2U
1,2-Dibromoethane	2U	10U	10U	2U
Dibromomethane	2U	10U	10U	2U
trans-1,4-Dichlorobutene	2U J	10U	10U	2U
1,2-Dichlorobenzene	2U	10U	10U	2U
1,4-Dichlorobenzene	2U	10U	10U	2U
1,1-Dichloroethane	2U	10U	10U	2U
1,2-Dichloroethane	3U	10U	10U	2U
1,1-Dichloroethene	2U	10U	10U	2U
cis-1,2-Dichloroethene	2U	10U	10U	2U
trans-1,2-Dichloroethene	2U	10U	10U	2U
1,2-Dichloropropane	2U	10U	10U	2U
cis-1,3-Dichloropropene	2U	10U	10U	2U
trans-1,3-Dichloropropene	2U	10U	10U	2U
Ethylbenzene	2U	10U	10U	2U
2-Hexanone	2U	10U	10U	2U J
Methylene chloride	2U	10U	10U	2U
4-Methyl-2-pentanone	2U	10U	10U	2U
Styrene	2U	10U	10U	2U
1,1,1,2-Tetrachloroethane	2U	10U	10U	2U
1,1,2,2-Tetrachloroethane	2U	10U	10U	2U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-19	W1-22 [1]	W1-23 [1]	W99-1 [2]
Date Collected	05/01/2000	05/01/2000	05/02/2000	05/01/2000
Analysis				field duplicate
EPA Method 8260A *cont.*		**Concentration ug/L**		
Tetrachloroethene	2U J	10U	10U	2U J
Toluene	2U	10U	10U	2U
1,1,1-Trichloroethane	2U	10U	10U	2U
1,1,2-Trichloroethane	2U	10U	10U	2U
Trichloroethene	2U	10U	10U	2U
Trichlorofluoromethane	2U J	10U	10U	2U J
Vinyl chloride	2U	10U	10U	2U
1,2,3-Trichloropropane	2U	10U	10U	2U
Vinyl Acetate	2U J	10U	10U	2U J
m/p-Xylene	2U	10U	10U	2U
o-Xylene	2U	10U	10U	2U
EPA Method 8081		**Concentration ug/L**		
Aldrin	0.05U	0.05U	**0.02 J**	0.05U
alpha-BHC	0.05U	0.05U	0.05U	0.05U
beta-BHC	0.05U	0.05U	**0.2**	0.05U
delta-BHC	0.05U	0.05U	**0.07**	0.05U
gamma-BHC (Lindane)	0.05U	0.05U	0.05U	0.05U
alpha Chlordane	0.05U	0.05U	0.05U	0.05U
gamma Chlordane	0.05U	0.05U	0.05U	0.05U
4,4'-DDD	0.1U	0.1U	0.1U	0.1U
4,4'-DDE	0.1U	0.1U	0.1U	0.1U
4,4'-DDT	0.1U	0.1U	0.1U	0.1U
Dieldrin	0.1U	0.1U	0.1U	0.1U
Endosulfan I	0.05U	0.05U	0.05U	0.05U
Endosulfan II	0.1U	0.1U	0.1U	0.1U
Endosulfan sulfate	0.1U	0.1U	0.1U	0.1U
Endrin	0.1U	0.1U	0.1U	0.1U
Endrin aldehyde	0.1U	0.1U	0.1U	0.1U
Endrin ketone	0.1U	0.1U	0.1U	0.1U
Heptachlor	0.05U	0.05U	**0.04J**	0.05U
Heptachlor epoxide	0.01U	0.01U	0.01U	0.01U
Methoxychlor	0.5U	0.5U	0.5U	0.5U
Toxaphene	2U	2U	2U	2U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-19	W1-22 [1]	W1-23 [1]	W99-1 [2]
Date Collected	05/01/2000	05/01/2000	05/02/2000	05/01/2000
Analysis				field duplicate
EPA Method 8082		Concentration ug/L		
Aroclor-1016	0.5U	0.5U	0.5U	0.5U
Aroclor-1221	0.7U	0.7U	0.7U	0.7U
Aroclor-1232	0.5U	0.5U	0.5U	0.5U
Aroclor-1242	0.5U	0.5U	0.5U	0.5U
Aroclor-1248	0.5U	0.5U	0.5U	0.5U
Aroclor-1254	0.5U	0.5U	0.5U	0.5U
Aroclor-1260	0.5U	0.5U	0.5U	0.5U
EPA Method 6010B (total)		Concentration ug/L		
Antimony	50U	**9.6J**	**16.7J**	50U
Arsenic	50U	**10.4J**	**26.8J**	50U
Barium	**59.3J**	**163**	**167**	**126**
Beryllium	2U	2U	2U	2U
Cadmium	2U	2U	2U	2U
Chromium	**7.2J**	**14.6**	**54**	**6.1J**
Cobalt	**10**	10U	**31.5**	**7.7J**
Copper	10U	10U	19U	10U
Lead	5U	5U	5U	5U
Nickel	**10.1J**	**17.3**	**954**	40U
Selenium	20U	**13.1J**	**13.0J**	20U
Silver	5U	**5.3**	**15.1**	5U
Thallium	10U	10U	10U	10U
Vanadium	10U	**1.5J**	**20**	10U
Zinc	20U	20U	**18.1J**	20U
EPA Method 6010B (dissolved)		Concentration ug/L		
Antimony	50 U	**6.4J**	**12.4J**	50 U
Arsenic	50U	50U	**11.5J**	51 U
Barium	**60J**	**8.4J**	**168**	**116**
Beryllium	2U	2U	2U	2U
Cadmium	2U	2U	2U	2U
Chromium	**7.1J**	**4.6J**	**14.6**	**6.3J**
Cobalt	**10.3**	10U	10U	**8J**
Copper	10U	10U	10U	10U
Lead	5U	5U	5U	5U
Nickel	**10.6J**	40U	**20.8J**	10U
Selenium	20U	**5.4J**	**15.6J**	20U
Silver	5U	5U	**5.9**	5U
Thallium	10U	**1.7J**	10U	10U
Vanadium	10U	**1.7J**	**1.3J**	10U
Zinc	20U	20U	20U	20U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-19	W1-22 [1]	W1-23 [1]	W99-1 [2]
Date Collected	05/01/2000	05/01/2000	05/02/2000	05/01/2000
Analysis				field duplicate
EPA Method 353.3	Concentration ug/L			
Nitrate-Nitrite as N	**0.39**	**0.2**	**0.05J**	**0.05J**
EPA Method 415.1	Concentration ug/L			
TOC	**15**	**82**	**67**	**23**

[1] *Samples W1-12, W1-22 and W1-23 were diluted due to foaming during the EAP 8260 analysis.*

[2] *W99-1 is a field duplicate of sample W1-14*

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the analyte was positively identified but the associated numerical value is below the reporting limit (RL).

UJ qualifier indicates that the analyte was not detected. However, the reported quantitation limit is approximate.

Table 1-2: Summary of Analytical Results for Moffett Site 2

Sample ID	W2-5	W2-6	W2-12	W2-14	W2-15	W2-16	W99-2
Date Collected	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000
Analysis							field duplicate
CLP-SVOA				Concentration,ug/L			
Acenaphthylene	10U	10U	10U	10U	10U	10U R	10U
Acenaphthene	10U	10U	10U	10U	10U	10U R	10U
Anthracene	10U	10U	10U	10U	10U	10U R	10U
Benzo(a)anthracene	10U	10U	10U	10U	10U	10U R	10U
Benzo(a)pyrene	10U	10U	10U	10U	10U	10U R	10U
Benzo(b)fluoranthene	10U	10U	10U	10U	10U	10U R	10U
Benzo(k)fluoranthene	10U	10U	10U	10U	10U	10U R	10U
2,2'-Oxybis(1-chloropropane)	10U	10U	10U	10U	10U	10U R	10U
bis(2-Ethylhexyl)phthalate	4U	**2 J**	4U	**1 J**	**2 J**	4 U R	**1 J**
4-Bromophenyl-phenylether	10U	10U	10U	10U	10U	10U R	10U
Butylbenzylphthalate	10U	10U	10U	10U	10U	10U R	10U
Carbazole	10U J	10U J	10U J	10U J	10U J	10U R	10U J
4-Chloro-3-Methylphenol	10U	10U	10U	10U	10U	10U R	10U
4-Chloroaniline	30U	30U	30U	30U	30U	30U R	30U
2-Chloronaphthalene	10U	10U	10U	10U	10U	10U R	10U
2-Chlorophenol	10U	10U	10U	10U	10U	10U R	10U
4-Chlorophenyl-phenylether	10U	10U	10U	10U	10U	10U R	10U
Chrysene	10U	10U	10U	10U	10U	10U R	10U
Di-n-butylphthalate	10U	10U	10U	10U	10U	10U R	10U
Di-n-octylphthalate	10U	10U	10U	10U	10U	10U R	10U
Dibenz(a,h)anthracene	10U	10U	10U	10U	10U	10U R	10U
Dibenzofuran	10U	10U	10U	10U	10U	10U R	10U
1,2-Dichlorobenzene	5U	5U	5U	5U	5U	5U R	5U
1,3-Dichlorobenzene	5U	5U	5U	5U	5U	5U R	5U
1,4-Dichlorobenzene	5U	5U	5U	5U	5U	5U R	5U
3,3'-Dichlorobenzidine	12U	12U	12U	12U	12U	12U R	12U
2,4-Dichlorophenol	10U	10U	10U	10U	10U	10U R	10U
Diethylphthalate	**1 J**	10U	**1 J**	10U	10U	10U R	10U
Dimethylphthalate	10U	10U	10U	10U	10U	10U R	10U
2,4-Dimethylphenol	10U	10U	10U	10U	10U	10U R	10U
4,6-Dinitro-2-methylphenol	25U J	25U J	25U J	25U J	25U J	25U R	25U J
2,4-Dinitrophenol	25U J	25U J	25U J	25U J	25U J	25U R	25U J
2,4-Dinitrotoluene	10U	10U	10U	10U	10U J	10U R	10U
2,6-Dinitrotoluene	10U	10U	10U	10U	10U	10U R	10U
Fluoranthene	10U	10U	10U	10U	10U	10U R	10U
Fluorene	10U	10U	10U	10U	10U	10U R	10U
Hexachlorobenzene	10U	10U	10U	10U	10U	10U R	10U
Hexachlorobutadiene	10U J	10U J	10U J	10U J	10U	10U R	10U J
Hexachlorocyclopentadiene	23U J	23U J	23U J	23U J	23U J	23U R	23U J
Hexachloroethane	10U	10U	10U	10U	10U	10U R	10U
Indeno(1,2,3-cd)pyrene	10U	10U	10U	10U	10U	10U R	10U

Tabl -2: Summary of Analytical Results for Moffett Site 2

Sample ID	W2-5	W2-6	W2-12	W2-14	W2-15	W2-16	W99-2 [1]
Date Collected	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000
Analysis							field duplicate
CLP SVOA cont	Concentration, ug/L						
Isophorone	10U	10U	10U	10U	10U	10U R	10U
2-Methylnaphthalene	10U	10U	10U	10U	10U	10U R	10U
2-Methylphenol	10U	10U	10U	10U	10U	10U R	10U
4-Methylphenol	10U	10U	10U	10U	10U	10U R	10U
Naphthalene	10U	10U	10U	10U	10U	10U R	10U
2-Nitroaniline	25U	25U	25U	25U	25U	25U R	25U
3-Nitroanaline	25U	25U	25U	25U	25U	25U R	25U
4-Nitroanaline	25U	25U	25U	25U	25U J	25U R	25U
Nitrobenzene	10U	10U	10U	10U	10U	10U R	10U
2-Nitrophenol	10U	10U	10U	10U	10U	10U R	10U
4-Nitrophenol	25U J	25U J	25U J	25U J	25U	25U R	25U J
N-Nitroso-di-n-propylamine	10U	10U	10U	10U	10U	10U R	10U
N-Nitrosodiphenylamine	14U	14U	14U	14U	14U	10U R	14U
Pentachlorophenol	25U	25U J	25U J	25U J	25U	25U R	25U J
Phenanthrene	10U	10U	10U	10U	10U	10U R	10U
Phenol	10U	10U	10U	10U	10U	10U R	10U
Pyrene	10U	10U	10U	10U	10U	10U R	10U
1,2,4-Trichlorobenzene	10U	10U	10U	10U	10U	10U R	10U
2,4,5-Trichlorophenol	25U	25U	25U	25U	25U	25U R	25U
2,4,6-Trichlorophenol	10U	10U	10U	10U	10U	10U R	10U
CLP VOA	Concentration, ug/L						
Acetone	3U J	3U J	3U J	3U J	3U J	3U J	3U J
Benzene	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Bromodichloromethane	2U	2U	2U	2U	2U	2U	2U
Bromoform	2U	2U	2U	2U	2U	2U	2U
Bromomethane	2U	2U	2U	2U	2U	2U	2U
2-Butanone	2U	2U	2U	2U	2U	2U	2U
Carbon disulfide	2U	2U	2U	2U	2U	2U	2U
Carbon tetrachloride	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Chlorobenzene	2U	2U	2U	2U	2U	2U	2U
Dibromochloromethane	2U	2U	2U	2U	2U	2U	2U
Chloroethane	2U	2U	2U	2U	2U	2U	2U
Chloroform	2U	2U	2U	2U	2U	2U	2U
Chloromethane	2U	2U	2U	2U	2U	2U	2U
1,1-Dichloroethane	2U	2U	2U	2U	2U	2U	2U
1,2-Dichloroethane	0.5U	0.5U	0.5U	0.5U	**0.6**	0.5U	0.5U
1,1-Dichloroethene	2U	2U	2U	2U	2U	2U	2U
1,2-Dichloroethene (total)	2U	2U	2U	2U	2U	2U	2U
1,2-Dichloropropane	2U	2U	2U	2U	2U	2U	2U
cis-1,3-Dichloropropene	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U

Table 2: Summary of Analytical Results for Moffett Site 2

Sample ID	W2-5	W2-6	W2-12	W2-14	W2-15	W2-16	W99-2
Date Collected	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000
Analysis							field duplicate
CLP VOA *cont.*				Concentration, ug/L			
trans-1,3-Dichloropropene	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Ethylbenzene	2U	2U	2U	2U	2U	2U	2U
2-Hexanone	2U J	2U J	2U J	2U J	2U J	2U J	2U J
Methylene chloride	2U	2U	2U	2U	2U	2U	2U
4-Methyl-2-pentanone	2U	2U	2U	2U	2U	2U	2U
Styrene	2U	2U	2U	2U	2U	2U	2U
1,1,2,2-Tetrachloroethane	2U	2U	2U	2U	2U	2U	2U
Tetrachloroethene	2U	2U	2U	2U	2U	2U	2U
Toluene	2U	2U	2U	2U	2U	2U	2U
1,1,1-Trichloroethane	2U	2U	2U	2U	2U	2U	2U
1,1,2-Trichloroethane	2U	2U	2U	2U	2U	2U	2U
Trichloroethene	2U	2U	2U	2U	2U	2U	2U
Vinyl chloride	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Xylene (total)	2U	2U	2U	2U	2U	2U	2U
CLP Pesticides				Concentration, ug/L			
alpha-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
beta-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
delta-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
gamma-BHC (Lindane)	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Heptachlor	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Aldrin	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Heptachlor epoxide	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Endosulfan I	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Dieldrin	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
4,4'-DDE	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endosulfan II	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
4,4'-DDD	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endosulfan sulfate	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
4,4'-DDT	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Methoxychlor	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin ketone	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin aldehyde	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Toxaphene	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
alpha Chlordane	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
gamma Chlordane	2U	2U	2U	2U	2U	2U	2U

Table B-2: Summary of Analytical Results for Moffett Site 2

Sample ID	W2-5	W2-6	W2-12	W2-14	W2-15	W2-16	W99-2 [1]
Date Collected	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000	05/02/2000
Analysis							field duplicate
CLP PCB	Concentration, ug/L						
Aroclor-1016	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1221	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1232	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1242	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1248	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1254	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1260	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
TPH	Concentration, ug/L						
Diesel	50 U	**110**	50 U	50 U	50 U	50 U	**80**
Motor Oil	100 U	**60 J**	100 U	100 U	100 U	100 U	100 U

[1] *Sample W99-2 is a field duplicate of sample W2-6.*

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the analyte was positively identified but the associated numerical value is below the reporting limit (RL).

R qualified indicates that the data are rejected due to deficiencies in analytical quality control