N00296.000843
MOFFETT FIELD
SSIC NO. 5090.3

QUARTERLY REPORT
1ST QUARTER 1990
NAS MOFFETT FIELD, CALIFORNIA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

VOLUME 2: APPENDIX B - WATER ANALYTICAL DATA AND SUMMARY TABLES

MAY 15, 1990

Prepared by:

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Submitted by:

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Martin Marietta Energy Systems, Inc.
Oak Ridge, Tennessee 37831

for:

U.S. Department of Energy
Contract DE-AC05-84OR21400

Submitted to:

Department of the Navy
Western Division
Naval Facilities Engineering Command
San Bruno, California 94066-0720

N00296.000843
MOFFETT FIELD
SSIC NO. 5090.3

QUARTERLY REPORT
1ST QUARTER 1990
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 MAY 1990

THIS RECORD CONTAINS MULTIPLE VOLUMES
WHICH HAVE BEEN ENTERED SEPARATELY

VOLUME 1 OF 3 IS FILED AS ADMINISTRATIVE
RECORD NO. **N00296.000842**

VOLUME 3 OF 3 IS FILED AS ADMINISTRATIVE
RECORD NO. **N00296.000844**

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LIST OF ABBREVIATIONS

BNAs	Base/neutral and acid extractable priority pollutants
CPT/HP	Cone Penitrometer Test/Hydropunch™
ERM-West	Environmental Resources Management West, Inc.
ESA	Earth Science Associates, Inc.
DCA	Dichloroethane
DCE	Dichloroethene
EPA	Environmental Protection Agency
FS	Feasibility Study
GC	Gas chromatograph
gpm	Gallons per minute
HAZWRAP	Hazardous Waste Remedial Actions Program
IRP	Installation Restoration Program
IT	IT Corporation
ID	Internal Diameter
MEW	Middlefield - Ellis - Whisman
NAS	Naval Air Station
NTU	Nephelometric turbidity unit
PCBs	Polychlorinated biphenyls
ppb	Parts per billion
ppm	Parts per million
RI	Remedial Investigation
RWQCB	Regional Water Quality Control Board
SWAT	Solid Waste Assessment Test
TCA	Trichloroethane
TCE	Trichloroethene
TDS	Total dissolved solids
TIP	Total ionizables present, photovac, photoionization detector/pump
TL-#	Transect lines
TPHC	Total petroleum hydrocarbons
VOC	Volatile organic compounds

APPENDIX B
ANALYTICAL DATA

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED
JAN 3 1 1990

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: January 29, 1990

Work Order Number: T0-01-197

P.O. Number: 409700

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700, Moffett Hydropunch
Date Received by Lab:	01/24/90
Number of Samples:	1
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/tw
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED JAN 3 1 1990

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: January 30, 1990

Work Order Number: TO-01-217

P.O. Number: Verbal

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700, Moffett Hydropunch
Date Received by Lab:	1/25/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
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ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 6, 1990

Work Order Number: TO-01-236

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700, Moffett Hydropunch
Date Received by Lab:	01/29/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

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ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 6, 1990

Work Order Number: TO-01-259

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	01/30/90
Number of Samples:	5
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 7, 1990

Work Order Number: TO-02-019

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/1/90
Number of Samples:	4
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 7, 1990

Work Order Number: T0-02-050

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	02/05/90
Number of Samples:	1
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Richette
Project Manager

DAP/tw
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED FEB 19 1990

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 13, 1990

Work Order Number: TO-02-081

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/7/90
Number of Samples:	5
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

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RECEIVED
FEB 19 1990

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 14, 1990

Work Order Number: T0-02-116

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	02/09/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

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ANALYTICAL SERVICES

RECEIVED FEB 22 1990

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 20, 1990

Work Order Number: TO-02-152

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/13/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed ~~and Approved~~

David A. Pichette
Project Manager

DAP/an
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

RECEIVED FEB 26 1990

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 21, 1990

Work Order Number: T0-02-171

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/14/90
Number of Samples:	6
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

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CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 22, 1990

Work Order Number: TO-02-186

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/15/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 22, 1990

Work Order Number: TO-02-216

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/16/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: February 26, 1990

Work Order Number: ~~02/21/90~~ TO-02-256

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	02/21/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/tw
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 1, 1990

Work Order Number: TO-02-290

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/22/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 1, 1990

Work Order Number: TO-02-302

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/23/90
Number of Samples:	3
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 2, 1990

Work Order Number: T0-02-338

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	02/27/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/tw
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 6, 1990

Work Order Number: TO-02-352

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	2/28/90
Number of Samples:	3
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
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INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 7, 1990

Work Order Number: TO-03-029

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	3/2/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
2 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 08, 1990

Work Order Number: T0-03-037

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	03/05/90
Number of Samples:	1
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/tw
1 Page Following - Table of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 12, 1990

Work Order Number: T0-03-062

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	03/06/90
Number of Samples:	2
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed ~~and Approved~~

David A. Pichette
Project Manager

DAP/tw
2 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 13, 1990

Work Order Number: TO-03-080

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	3/7/90
Number of Samples:	3
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
3 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 15, 1990

Work Order Number: TO-03-112

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	3/9/90
Number of Samples:	4
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

for

David A. Pichette
Project Manager

DAP/an
4 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 21, 1990

Work Order Number: TO-03-145

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	03/14/90
Number of Samples:	7
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

for

David A. Pichette
Project Manager

DAP/tw
7 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: March 21, 1990

Work Order Number: T0-03-157

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	03/15/90
Number of Samples:	4
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/tw
4 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: April 05, 1990

Work Order Number: TO-03-183

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

CORRECTED REPORT

Client Project ID:	#409700.02.02.95, Moffett Hydropunch
Date Received by Lab:	03/16/90
Number of Samples:	4
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

for

David A. Pichette
Project Manager

DAP/tw
4 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: April 5, 1990

Work Order Number: TO-03-211

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Date Received by Lab:	3/20/90
Number of Samples:	7
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
6 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: April 5, 1990

Work Order Number: TO-03-238

P.O. Number: 409700.02.02.95

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Date Received by Lab:	3/21/90
Number of Samples:	4
Sample Type:	Water

The method of analysis for high boiling hydrocarbons involves extracting the samples with solvent and examining the extracts by gas chromatography using a flame ionization detector.

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
3 Pages Following - Tables of Results

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYTICAL SERVICES

CERTIFICATE OF ANALYSIS

IT Corporation
4585 Pacheco Boulevard
Martinez, CA 94553
ATTN: Dennis Robinson

Date: April 6, 1990

Work Order Number: T0-03-107

P.O. Number: 409700.02

This is the Certificate of Analysis for the following samples:

Client Project ID:	409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Date Received by Lab:	3/9/90
Number of Samples:	3
Sample Type:	Water

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

Reviewed and Approved

David A. Pichette
Project Manager

DAP/an
3 Pages Following - Tables of Results

N00296.000843
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX B – ANALYTICAL DATA

SITE 3

QUARTERLY REPORT
1ST QUARTER 1990
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 MAY 1990

Date: March 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-352

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-1 CPT3-1

Sample Date: 2/27/90
Lab Sample ID: TO-02-352-01
Receipt Condition: Cool
Extraction Date: 3/1/90
Analysis Date: 3/1/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	600.	None
High Boiling Hydrocarbons, calculated as Oil	3,000.	None

Date: March 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-352

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-1 CPT3-1

Sample Date: 2/27/90
Lab Sample ID: TO-02-352-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/1/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	105.
4-Bromofluorobenzene	86-115	104.

Date: March 2, 1990
Client Project ID: #409700.02.02.95, Moffet Hydropunch
Work Order Number: TO-02-338

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-2 CPT3-2
Sample Date: 02/27/90
Lab Sample ID: TO-02-338-01
Receipt Condition: Cool

High Boiling Extraction Date: 02/28/90
High Boiling Analysis Date: 02/28/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-02-338-01	H3-2 CPT3-2	None	None
Detection Limit		300.	1000.

Date: March 2, 1990
Client Project ID: #409700.02.02.95, Moffet Hydropunch
Work Order Number: TO-02-338

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-2 CPT3-2

Sample Date: 02/27/90
Lab Sample ID: TO-02-338-01
Receipt Condition: Cool,pH<2
Analysis Date: 03/01/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	106.
4-Bromofluorobenzene	86-115	102.

Date: March 2, 1990
Client Project ID: #409700.02.02.95, Moffet Hydropunch
Work Order Number: TO-02-338

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-3 CPT3-3
Sample Date: 02/27/90
Lab Sample ID: TO-02-338-02
Receipt Condition: Cool

High Boiling Extraction Date: 02/28/90
High Boiling Analysis Date: 02/28/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-02-338-02	H3-3 CPT3-3	None	None
Detection Limit		300.	1000.

Date: March 2, 1990
Client Project ID: #409700.02.02.95, Moffet Hydropunch
Work Order Number: TO-02-338

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-3 CPT3-3

Sample Date: 02/27/90
Lab Sample ID: TO-02-338-02
Receipt Condition: Cool,pH<2
Analysis Date: 03/01/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	97.
Toluene-d8	88-110	106.
4-Bromofluorobenzene	86-115	102.

Date: March 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-352

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-8 CPT3-8

Sample Date: 2/28/90
Lab Sample ID: TO-02-352-02
Receipt Condition: Cool
Extraction Date: 3/1/90
Analysis Date: 3/1/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	500.	None
High Boiling Hydrocarbons, calculated as Oil	3,000.	None

Date: March 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-352

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-8 CPT3-8

Sample Date: 2/28/90
Lab Sample ID: TO-02-352-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/1/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	98.
Toluene-d8	88-110	105.
4-Bromofluorobenzene	86-115	102.

Date: March 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-352

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-10 CPT3-10

Sample Date: 2/28/90
Lab Sample ID: TO-02-352-03
Receipt Condition: Cool
Extraction Date: 3/1/90
Analysis Date: 3/1/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: March 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-352

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H3-10 CPT3-10

Sample Date: 2/28/90
Lab Sample ID: TO-02-352-03
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/1/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	98.
Toluene-d8	88-110	104.
4-Bromofluorobenzene	86-115	100.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-145

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: TB3-14 Trip Blank

Sample Date: ----
Lab Sample ID: TO-03-145-03
Receipt Condition: Cool,pH<2
Analysis Date: 03/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	98.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-157

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: TB3-15

Sample Date: ----
Lab Sample ID: TO-03-157-01
Receipt Condition: Cool,pH<2
Analysis Date: 03/17/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	102.

Date: April 05, 1990 CORRECTED REPORT
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-183

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: TB3-16 Trip Blank

Sample Date: ----
Lab Sample ID: TO-03-183-01
Receipt Condition: Cool,pH<2
Analysis Date: 03/19/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	90.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	96.

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SSIC NO. 5090.3

APPENDIX B – ANALYTICAL DATA

SITE 4

QUARTERLY REPORT
1ST QUARTER 1990
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 MAY 1990

Date: February 22, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-216

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H4-6 CPT4-6

Sample Date: 2/16/90
Lab Sample ID: TO-02-216-01
Receipt Condition: Cool
Extraction Date: 2/20/90
Analysis Date: 2/20/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 22, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-216

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H4-6 CPT4-6

Sample Date: 2/16/90
Lab Sample ID: TO-02-216-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/20/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	100.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	102.

Date: February 22, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-216

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H4-5 CPT4-5

Sample Date: 2/16/90
Lab Sample ID: TO-02-216-02
Receipt Condition: Cool
Extraction Date: 2/20/90
Analysis Date: 2/20/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 22, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-216

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H4-5 CPT4-5

Sample Date: 2/16/90
Lab Sample ID: TO-02-216-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/20/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	109.
Toluene-d8	88-110	99.
4-Bromofluorobenzene	86-115	103.

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MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX B – ANALYTICAL DATA

SITE 5

QUARTERLY REPORT
1ST QUARTER 1990
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 MAY 1990

Date: March 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-03-029

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-2 CPT5-2

Sample Date: 3/2/90
Lab Sample ID: T0-03-029-02
Receipt Condition: Cool, pH <2
Analysis Date: 3/4/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	98.
Toluene-d8	88-110	105.
4-Bromofluorobenzene	86-115	102.

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-302

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-3 CPT5-3

Sample Date: 2/23/90
Lab Sample ID: T0-02-302-01
Receipt Condition: Cool
Extraction Date: 2/27/90
Analysis Date: 2/27/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-302

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-3 CPT5-3

Sample Date: 2/23/90
Lab Sample ID: TO-02-302-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/23/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	93.
Toluene-d8	88-110	105.
4-Bromofluorobenzene	86-115	102.

Date: March 12, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-03-062

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-4 CPT5-4

Sample Date: 03/06/90
Lab Sample ID: T0-03-062-01
Receipt Condition: Cool,pH<2
Analysis Date: 03/08/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	94.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	97.

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-290

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-5 CPT5-5

Sample Date: 2/22/90
Lab Sample ID: TO-02-290-02
Receipt Condition: Cool
Extraction Date: 2/23/90
Analysis Date: 2/26/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	3,000.	None
High Boiling Hydrocarbons, calculated as Oil	10,000.	None

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-290

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-5 CPT5-5

Sample Date: 2/22/90
Lab Sample ID: TO-02-290-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/23/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	98.
Toluene-d8	88-110	104.
4-Bromofluorobenzene	86-115	99.

Date: March 12, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-062

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-9 CPT5-9

Sample Date: 03/06/90
Lab Sample ID: TO-03-062-02
Receipt Condition: Cool,pH<2
Analysis Date: 03/08/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	98.
4-Bromofluorobenzene	86-115	95.

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-290

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-14 CPT5-14

Sample Date: 2/22/90
Lab Sample ID: TO-02-290-01
Receipt Condition: Cool
Extraction Date: 2/23/90
Analysis Date: 2/26/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-290

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-14 CPT5-14

Sample Date: 2/22/90
Lab Sample ID: TO-02-290-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/23/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	104.
4-Bromofluorobenzene	86-115	102.

Date: March 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-03-029

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-25 CPT5-25

Sample Date: 3/1/90
Lab Sample ID: T0-03-029-01
Receipt Condition: Cool, pH <2
Analysis Date: 3/4/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	97.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	96.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-145

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-29 CPT5-29

Sample Date: 03/14/90
Lab Sample ID: TO-03-145-05
Receipt Condition: Cool,pH<2
Analysis Date: 03/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	94.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	95.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-145

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-32 CPT5-32

Sample Date: 03/14/90
Lab Sample ID: TO-03-145-04
Receipt Condition: Cool,pH<2
Analysis Date: 03/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	97.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	97.

Date: March 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-03-080

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-34 CPT5-34

Sample Date: 3/6/90
Lab Sample ID: T0-03-080-02
Receipt Condition: Cool, pH <2
Analysis Date: 3/8/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	95.

Date: March 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-03-080

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-38 CPT5-38

Sample Date: 3/6/90
Lab Sample ID: T0-03-080-01
Receipt Condition: Cool, pH <2
Analysis Date: 3/9/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detecte
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	89.
Toluene-d8	88-110	95.
4-Bromofluorobenzene	86-115	93.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-145

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-39 CPT5-39

Sample Date: 03/14/90
Lab Sample ID: TO-03-145-06
Receipt Condition: Cool,pH<2
Analysis Date: 03/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	97.

Date: April 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: TO-03-107

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-44 CPT5-44

Sample Date: 3/8/90
Lab Sample ID: TO-03-107-03
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	99.
4-Bromofluorobenzene	86-115	99.

Date: March 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-03-080

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-45 CPT5-45

Sample Date: 3/6/90
Lab Sample ID: T0-03-080-03
Receipt Condition: Cool, pH <2
Analysis Date: 3/8/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	98.
Toluene-d8	88-110	98.
4-Bromofluorobenzene	86-115	95.

Date: March 08, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-037

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-47 CPT5-47

Sample Date: 03/02/90
Lab Sample ID: TO-03-037-01
Receipt Condition: Cool,pH<2
Analysis Date: 03/05/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	94.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	98.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-145

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-53 CPT5-53

Sample Date: 03/14/90
Lab Sample ID: TO-03-145-01
Receipt Condition: Cool,pH<2
Analysis Date: 03/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	98.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-145

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H5-54 CPT5-54

Sample Date: 03/14/90
Lab Sample ID: TO-03-145-02
Receipt Condition: Cool, pH<2
Analysis Date: 03/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	94.

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MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX B – ANALYTICAL DATA

SITE 6

QUARTERLY REPORT
1ST QUARTER 1990
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 MAY 1990

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-302

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H6-1 CPT6-1

Sample Date: 2/23/90
Lab Sample ID: TO-02-302-02
Receipt Condition: Cool
Extraction Date: 2/27/90
Analysis Date: 2/27/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-302

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H6-1 CPT6-1

Sample Date: 2/23/90
Lab Sample ID: T0-02-302-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/23/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	7.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	98.
Toluene-d8	88-110	104.
4-Bromofluorobenzene	86-115	104.

Date: February 26, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-256

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H6-2 CPT6-2
Sample Date: 02/20/90
Lab Sample ID: TO-02-256-01
Receipt Condition: Cool

High Boiling Extraction Date: 02/22/90
High Boiling Analysis Date: 02/22/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-02-256-01	H6-2 CPT6-2	None	None
Detection Limit		300.	1000.

Date: February 26, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-256

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H6-2 CPT6-2

Sample Date: 02/20/90
Lab Sample ID: TO-02-256-01
Receipt Condition: Cool,pH<7
Analysis Date: 02/21/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	100.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	98.

Date: February 26, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-256

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H6-3 CPT6-3
Sample Date: 02/21/90
Lab Sample ID: TO-02-256-02
Receipt Condition: Cool

High Boiling Extraction Date: 02/22/90
High Boiling Analysis Date: 02/22/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-02-256-02	H6-3 CPT6-3	None	None
Detection Limit		300.	1000.

Date: February 26, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-256

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H6-3 CPT6-3

Sample Date: 02/21/90
Lab Sample ID: TO-02-256-02
Receipt Condition: Cool,pH<2
Analysis Date: 02/21/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	101.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	104.

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-302

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H6-4 CPT6-4

Sample Date: 2/23/90
Lab Sample ID: TO-02-302-03
Receipt Condition: Cool
Extraction Date: 2/27/90
Analysis Date: 2/27/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: March 1, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-302

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H6-4 CPT6-4

Sample Date: 2/23/90
Lab Sample ID: T0-02-302-03
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/23/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	99.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	99.

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SSIC NO. 5090.3

APPENDIX B – ANALYTICAL DATA

SITE 8

QUARTERLY REPORT
1ST QUARTER 1990
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 MAY 1990

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-1 CPT8-1

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-01
Receipt Condition: Cool
Extraction Date: 2/14/90
Analysis Date: 2/15/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-1 CPT8-1

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-01
Receipt Condition: Cool, pH <2
Analysis Date: 2/15/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	25.	None	cis-1,3-Dichloropropene	12.	None
Bromomethane	25.	None	Trichloroethene	12.	320.
Vinyl Chloride	25.	None	Chlorodibromomethane	12.	None
Chloroethane	25.	None	1,1,2-Trichloroethane	12.	None
Dichloromethane	12.	None	Benzene	12.	None
Acetone	25.	None	trans-1,3-Dichloropropene	12.	None
Carbon Disulfide	12.	None	Bromoform	12.	None
1,1-Dichloroethene	12.	16.	4-Methyl-2-pentanone	25.	None
1,1-Dichloroethane	12.	None	2-Hexanone	25.	None
1,2-Dichloroethene (Total)	12.	None	Tetrachloroethene	12.	None
Chloroform	12.	None	1,1,2,2-Tetrachloroethane	12.	None
1,2-Dichlorethane	12.	None	Toluene	12.	None
2-Butanone	25.	None	Chlorobenzene	12.	None
1,1,1-Trichloroethane	12.	16.	Ethylbenzene	12.	None
Carbon Tetrachloride	12.	None	Styrene	12.	None
Vinyl Acetate	25.	None	Xylenes (Total)	12.	None
Bromodichloromethane	12.	None	Acrolein	25.	None
1,2-Dichloropropane	12.	None	Acrylonitrile	25.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	102.
Toluene-d8	88-110	96.
4-Bromofluorobenzene	86-115	100.

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-2A CPT8-2

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-04
Receipt Condition: Cool
Extraction Date: 2/14/90
Analysis Date: 2/15/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	400.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-2A CPT8-2

Sample Date: 2/14/90
Lab Sample ID: T0-02-171-04
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/15/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	19.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	9.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	30.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	105.
Toluene-d8	88-110	99.
4-Bromofluorobenzene	86-115	97.

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-2B CPT8-2

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-05
Receipt Condition: Cool
Extraction Date: 2/14/90
Analysis Date: 2/15/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	600.	None
High Boiling Hydrocarbons, calculated as Oil	3,000.	None

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-2B CPT8-2

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-05
Receipt Condition: Cool, pH <2
Analysis Date: 2/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	19.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	100.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	99.

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-3 CPT8-3

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-03
Receipt Condition: Cool
Extraction Date: 2/14/90
Analysis Date: 2/15/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-3 CPT8-3

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-03
Receipt Condition: Cool, pH <2
Analysis Date: 2/15/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	23.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	12.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	28.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	97.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	94.

Date: February 14, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-116

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-6
Sample Date: 02/09/90
Lab Sample ID: TO-02-116-02
Receipt Condition: Cool

High Boiling Extraction Date: 02/12/90
High Boiling Analysis Date: 02/12/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-02-116-02	H8-6	None	None
Detection Limit		300.	1000.

Date: February 14, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-116

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-6
Sample Date: 02/09/90
Lab Sample ID: TO-02-116-02
Receipt Condition: Cool
Analysis Date: 02/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	24.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	5.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	7.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	98.

Date: February 14, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-116

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-7
Sample Date: 02/09/90
Lab Sample ID: TO-02-116-01
Receipt Condition: Cool

High Boiling Extraction Date: 02/12/90
High Boiling Analysis Date: 02/12/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-02-116-01	H8-7	None	None
Detection Limit		300.	1000.

Date: February 14, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-116

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-7
Sample Date: 02/09/90
Lab Sample ID: TO-02-116-01
Receipt Condition: Cool
Analysis Date: 02/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	6.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	29.	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	28.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	11.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	26.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	99.

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-8 CPT8-8

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-02
Receipt Condition: Cool
Extraction Date: 2/14/90
Analysis Date: 2/15/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	400.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-8 CPT8-8

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-02
Receipt Condition: Cool, pH <2
Analysis Date: 2/15/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	100.
Toluene-d8	88-110	98.
4-Bromofluorobenzene	86-115	97.

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-10 CPT8-10

Sample Date: 2/14/90
Lab Sample ID: T0-02-171-06
Receipt Condition: Cool
Extraction Date: 2/14/90
Analysis Date: 2/15/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 21, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-171

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-10 CPT8-10

Sample Date: 2/14/90
Lab Sample ID: TO-02-171-06
Receipt Condition: Cool, pH <2
Analysis Date: 2/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	35.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	99.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	97.

Date: February 22, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-186

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-11 CPT8-11
Sample Date: 2/14/90
Lab Sample ID: TO-02-186-01
Receipt Condition: Cool

High Boiling Hydrocarbons Extraction Date: 2/15/90
High Boiling Hydrocarbons Analysis Date: 2/16/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	1,000.	None
High Boiling Hydrocarbons, calculated as Oil	7,000.	None

Date: February 22, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-186

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-11 CPT8-11

Sample Date: 2/14/90
Lab Sample ID: TO-02-186-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	100.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	93.

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-12

Sample Date: 2/7/90
Lab Sample ID: TO-02-081-04
Receipt Condition: Cool
Extraction Date: 2/8/90
Analysis Date: 2/8/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-12

Sample Date: 2/7/90
Lab Sample ID: TO-02-081-04
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/9/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	7.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	9.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	99.
4-Bromofluorobenzene	86-115	99.

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-13

Sample Date: 2/7/90
Lab Sample ID: T0-02-081-05
Receipt Condition: Cool
Extraction Date: 2/8/90
Analysis Date: 2/8/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-13

Sample Date: 2/7/90
Lab Sample ID: TO-02-081-05
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/9/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	94.

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-14

Sample Date: 2/7/90
Lab Sample ID: TO-02-081-01
Receipt Condition: Cool
Extraction Date: 2/8/90
Analysis Date: 2/8/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-14

Sample Date: 2/7/90
Lab Sample ID: T0-02-081-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/9/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	14.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	19.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	57.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	97.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	100.

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-15

Sample Date: 2/7/90
Lab Sample ID: TO-02-081-02
Receipt Condition: Cool
Extraction Date: 2/8/90
Analysis Date: 2/8/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	500.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-15

Sample Date: 2/7/90
Lab Sample ID: TO-02-081-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/9/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	34.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	17.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	34.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	94.

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-16

Sample Date: 2/7/90
Lab Sample ID: TO-02-081-03
Receipt Condition: Cool
Extraction Date: 2/8/90
Analysis Date: 2/8/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 13, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-081

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-16

Sample Date: 2/7/90
Lab Sample ID: TO-02-081-03
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/9/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	5.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	33.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	28.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	41.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	96.

Date: January 29, 1990
Client Project ID: #409700, Moffett Hydropunch
Work Order Number: TO-01-197

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-17 Site 8 CPT/H8-17

Sample Date: 01/24/90
Lab Sample ID: TO-01-197-01
Receipt Condition: Cool
Extraction Date: 01/25/90
Analysis Date: 01/25/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-01-197-01	H8-17 Site 8 CPT/H8-17	None	None
Detection Limit		400.	2000.

Date: January 29, 1990
Client Project ID: #409700, Moffett Hydropunch Work Order Number: TO-01-197

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H8-17 Site 8 CPT/H8-17

Sample Date: 01/24/90
Lab Sample ID: TO-01-197-01
Receipt Condition: Cool, pH<2
Analysis Date: 01/26/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	160.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	19.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	8.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	21.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	102.

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MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX B – ANALYTICAL DATA

SITE 9

QUARTERLY REPORT
1ST QUARTER 1990
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 MAY 1990

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-145

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-4 CPT9-4

Sample Date: 03/14/90
Lab Sample ID: TO-03-145-07
Receipt Condition: Cool,pH<2
Analysis Date: 03/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	100.	None	cis-1,3-Dichloropropene	50.	None
Bromomethane	100.	None	Trichloroethene	50.	460.
Vinyl Chloride	100.	None	Chlorodibromomethane	50.	None
Chloroethane	100.	None	1,1,2-Trichloroethane	50.	None
Dichloromethane	50.	None	Benzene	50.	None
Acetone	100.	None	trans-1,3-Dichloropropene	50.	None
Carbon Disulfide	50.	None	Bromoform	50.	None
1,1-Dichloroethene	50.	None	4-Methyl-2-pentanone	100.	None
1,1-Dichloroethane	50.	None	2-Hexanone	100.	None
1,2-Dichloroethene (Total)	50.	72.	Tetrachloroethene	50.	None
Chloroform	50.	None	1,1,2,2-Tetrachloroethane	50.	None
1,2-Dichlorethane	50.	None	Toluene	50.	None
2-Butanone	100.	None	Chlorobenzene	50.	None
1,1,1-Trichloroethane	50.	None	Ethylbenzene	50.	None
Carbon Tetrachloride	50.	None	Styrene	50.	None
Vinyl Acetate	100.	None	Xylenes (Total)	50.	None
Bromodichloromethane	50.	None	Acrolein	100.	None
1,2-Dichloropropane	50.	None	Acrylonitrile	100.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	98.

Date: April 5, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: TO-03-211

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-5 CPT9-5

Sample Date: 3/20/90
Lab Sample ID: TO-03-211-02
Receipt Condition: Cool, pH <2
Analysis Date: 3/21/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	100.
Toluene-d8	88-110	98.
4-Bromofluorobenzene	86-115	101.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-6

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-02
Receipt Condition: Cool
Extraction Date: 01/31/90
Analysis Date: 01/31/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-01-259-02	H9-6	None	None
Detection Limit		600.	3000.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-6

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-02
Receipt Condition: Cool,pH<2
Analysis Date: 02/02/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	200.	None	cis-1,3-Dichloropropene	100.	None
Bromomethane	200.	None	Trichloroethene	100.	2600.
Vinyl Chloride	200.	None	Chlorodibromomethane	100.	None
Chloroethane	200.	None	1,1,2-Trichloroethane	100.	None
Methylene Chloride	100.	None	Benzene	100.	None
Acetone	200.	None	trans-1,3-Dichloropropene	100.	None
Carbon Disulfide	100.	None	Bromoform	100.	None
1,1-Dichloroethene	100.	None	4-Methyl-2-pentanone	200.	None
1,1-Dichloroethane	100.	None	2-Hexanone	200.	None
1,2-Dichloroethene (Total)	100.	570.	Tetrachloroethene	100.	None
Chloroform	100.	None	1,1,2,2-Tetrachloroethane	100.	None
1,2-Dichlorethane	100.	None	Toluene	100.	None
2-Butanone	200.	None	Chlorobenzene	100.	None
1,1,1-Trichloroethane	100.	None	Ethylbenzene	100.	None
Carbon Tetrachloride	100.	None	Styrene	100.	None
Vinyl Acetate	200.	None	Xylenes (Total)	100.	None
Bromodichloromethane	100.	None	Acrolein	200.	None
1,2-Dichloropropane	100.	None	Acrylonitrile	200.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	94.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	97.

Date: February 20, 1990
Client Project ID: 409700.02.02.95, Moffett Hydrocarbons
Work Order Number: T0-02-152

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-7

Sample Date: 2/12/90
Lab Sample ID: T0-02-152-01
Receipt Condition: Cool
Extraction Date: 2/13/90
Analysis Date: 2/14/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 20, 1990
Client Project ID: 409700.02.02.95, Moffett Hydrocarbons
Work Order Number: T0-02-152

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-7

Sample Date: 2/12/90
Lab Sample ID: T0-02-152-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/14/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	140.	3,800.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	83.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	85.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	140.	430.	Tetrachloroethene	5.	11.
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	64.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None
			1,1,2-Trichloro-1,2,2-Trifluoroethane	5.	88.

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	98.

Date: March 26, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: T0-03-211

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-8A CPT9-8A

Sample Date: 3/20/90
Lab Sample ID: T0-03-211-06
Receipt Condition: Cool, pH <2
Analysis Date: 3/22/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	200.	None	cis-1,3-Dichloropropene	100.	None
Bromomethane	200.	None	Trichloroethene	100.	1,100.
Vinyl Chloride	200.	None	Chlorodibromomethane	100.	None
Chloroethane	200.	None	1,1,2-Trichloroethane	100.	None
Dichloromethane	100.	None	Benzene	100.	None
Acetone	200.	None	trans-1,3-Dichloropropene	100.	None
Carbon Disulfide	100.	None	Bromoform	100.	None
1,1-Dichloroethene	100.	None	4-Methyl-2-pentanone	200.	None
1,1-Dichloroethane	100.	None	2-Hexanone	200.	None
1,2-Dichloroethene (Total)	100.	2,700.	Tetrachloroethene	100.	None
Chloroform	100.	None	1,1,2,2-Tetrachloroethane	100.	None
1,2-Dichlorethane	100.	None	Toluene	100.	None
2-Butanone	200.	None	Chlorobenzene	100.	None
1,1,1-Trichloroethane	100.	None	Ethylbenzene	100.	190.
Carbon Tetrachloride	100.	None	Styrene	100.	None
Vinyl Acetate	200.	None	Xylenes (Total)	100.	None
Bromodichloromethane	100.	None	Acrolein	200.	None
1,2-Dichloropropane	100.	None	Acrylonitrile	200.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	90.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	99.

Date: April 5, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: T0-03-238

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-8A CPT9-8A

Sample Date: 3/20/90
Lab Sample ID: T0-03-239-01
Receipt Condition: Cool
Extraction Date: 3/22/90
Analysis Date: 3/22/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	410.
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: April 5, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: T0-03-211

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-9 CPT9-9

Sample Date: 3/20/90
Lab Sample ID: T0-03-211-01
Receipt Condition: Cool, pH <2
Analysis Date: 3/21/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	31.	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	100.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	100.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-10

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-05
Receipt Condition: Cool
Extraction Date: 01/31/90
Analysis Date: 01/31/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-01-259-05	H9-10	None	None
Detection Limit		300.	1000.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-10

Sample Date: 01/30/90
Lab Sample ID: T0-01-259-05
Receipt Condition: Cool,pH<2
Analysis Date: 02/02/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	200.	None	cis-1,3-Dichloropropene	100.	None
Bromomethane	200.	None	Trichloroethene	100.	2600.
Vinyl Chloride	200.	None	Chlorodibromomethane	100.	None
Chloroethane	200.	None	1,1,2-Trichloroethane	100.	None
Methylene Chloride	100.	None	Benzene	100.	None
Acetone	200.	None	trans-1,3-Dichloropropene	100.	None
Carbon Disulfide	100.	None	Bromoform	100.	None
1,1-Dichloroethene	100.	None	4-Methyl-2-pentanone	200.	None
1,1-Dichloroethane	100.	None	2-Hexanone	200.	None
1,2-Dichloroethene (Total)	100.	190.	Tetrachloroethene	100.	None
Chloroform	100.	None	1,1,2,2-Tetrachloroethane	100.	None
1,2-Dichlorethane	100.	None	Toluene	100.	None
2-Butanone	200.	None	Chlorobenzene	100.	None
1,1,1-Trichloroethane	100.	None	Ethylbenzene	100.	None
Carbon Tetrachloride	100.	None	Styrene	100.	None
Vinyl Acetate	200.	None	Xylenes (Total)	100.	None
Bromodichloromethane	100.	None	Acrolein	200.	None
1,2-Dichloropropane	100.	None	Acrylonitrile	200.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	93.

Date: April 5, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: T0-03-211

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-11 CPT9-11

Sample Date: 3/20/90
Lab Sample ID: T0-03-211-04
Receipt Condition: Cool, pH <2
Analysis Date: 3/21/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	99.

Date: February 20, 1990
Client Project ID: 409700.02.02.95, Moffett Hydrocarbons
Work Order Number: TO-02-152

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-12

Sample Date: 2/12/90
Lab Sample ID: TO-02-152-02
Receipt Condition: Cool
Extraction Date: 2/13/90
Analysis Date: 2/13/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: February 20, 1990
Client Project ID: 409700.02.02.95, Moffett Hydrocarbons
Work Order Number: TO-02-152

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-12

Sample Date: 2/12/90
Lab Sample ID: TO-02-152-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/14/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	110.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	25.	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None
			1,1,2-Trichloro-1,2,2-Trifluoroethane	5.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	97.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	97.

Date: February 6, 1990
Client Project ID: #409700, Moffett Hydropunch
Work Order Number: TO-01-236

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-14 CPT/H9-14

Sample Date: 01/26/90
Lab Sample ID: TO-01-236-01
Receipt Condition: Cool
Extraction Date: 01/29/90
Analysis Date: 01/29/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-01-236-01	H9-14 CPT/H9-14	None	None
Detection Limit		400.	2000.

Date: February 6, 1990
Client Project ID: #409700, Moffett Hydropunch
Work Order Number: T0-01-236

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-14 CPT/H9-14

Sample Date: 01/26/90
Lab Sample ID: T0-01-236-01
Receipt Condition: Cool,pH<2
Analysis Date: 01/29/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	310.	7000.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	150.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	59.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	100.	660.	Tetrachloroethene	5.	130.
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	34.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	100.
Toluene-d8	88-110	104.
4-Bromofluorobenzene	86-115	103.

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-019

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-15

Sample Date: 2/1/90
Lab Sample ID: TO-01-019-02
Receipt Condition: Cool
Extraction Date: 2/2/90
Analysis Date: 2/5/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-019

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-15

Sample Date: 2/1/90
Lab Sample ID: TO-02-019-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/2/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	96.

Date: February 22, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-186

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-16 CPT9-16
Sample Date: 2/14/90
Lab Sample ID: TO-02-186-02
Receipt Condition: Cool

High Boiling Hydrocarbons Extraction Date: 2/15/90
High Boiling Hydrocarbons Analysis Date: 2/16/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 22, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-186

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-16 CPT9-16

Sample Date: 2/14/90
Lab Sample ID: T0-02-186-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	250.	None	cis-1,3-Dichloropropene	120.	None
Bromomethane	250.	None	Trichloroethene	120.	21,000.
Vinyl Chloride	250.	None	Chlorodibromomethane	120.	None
Chloroethane	250.	None	1,1,2-Trichloroethane	120.	None
Dichloromethane	120.	None	Benzene	120.	None
Acetone	250.	None	trans-1,3-Dichloropropene	120.	None
Carbon Disulfide	120.	None	Bromoform	120.	None
1,1-Dichloroethene	120.	240.	4-Methyl-2-pentanone	250.	None
1,1-Dichloroethane	120.	None	2-Hexanone	250.	None
1,2-Dichloroethene (Total)	120.	440.	Tetrachloroethene	120.	470.
Chloroform	120.	None	1,1,2,2-Tetrachloroethane	120.	None
1,2-Dichlorethane	120.	None	Toluene	120.	None
2-Butanone	250.	None	Chlorobenzene	120.	None
1,1,1-Trichloroethane	120.	None	Ethylbenzene	120.	None
Carbon Tetrachloride	120.	None	Styrene	120.	None
Vinyl Acetate	250.	None	Xylenes (Total)	120.	None
Bromodichloromethane	120.	None	Acrolein	250.	None
1,2-Dichloropropane	120.	None	Acrylonitrile	250.	None
			1,1,2-Trichloro-1,2,2-Trifluoroethane	120.	580.

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	98.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	98.

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-019

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-17

Sample Date: 2/1/90
Lab Sample ID: TO-01-019-04
Receipt Condition: Cool
Extraction Date: 2/2/90
Analysis Date: 2/5/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	300.	None
High Boiling Hydrocarbons, calculated as Oil	1,000.	None

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-019

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-17

Sample Date: 2/1/90
Lab Sample ID: TO-02-019-04
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/2/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	250.	None	cis-1,3-Dichloropropene	120.	None
Bromomethane	250.	None	Trichloroethene	120.	2,400.
Vinyl Chloride	250.	None	Chlorodibromomethane	120.	None
Chloroethane	250.	None	1,1,2-Trichloroethane	120.	None
Methylene Chloride	120.	None	Benzene	120.	None
Acetone	250.	None	trans-1,3-Dichloropropene	120.	None
Carbon Disulfide	120.	None	Bromoform	120.	None
1,1-Dichloroethene	120.	None	4-Methyl-2-pentanone	250.	None
1,1-Dichloroethane	120.	None	2-Hexanone	250.	None
1,2-Dichloroethene (Total)	120.	730.	Tetrachloroethene	120.	None
Chloroform	120.	None	1,1,2,2-Tetrachloroethane	120.	None
1,2-Dichlorethane	120.	None	Toluene	120.	None
2-Butanone	250.	None	Chlorobenzene	120.	None
1,1,1-Trichloroethane	120.	None	Ethylbenzene	120.	None
Carbon Tetrachloride	120.	None	Styrene	120.	None
Vinyl Acetate	250.	None	Xylenes (Total)	120.	None
Bromodichloromethane	120.	None	Acrolein	250.	None
1,2-Dichloropropane	120.	None	Acrylonitrile	250.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	94.
Toluene-d8	88-110	99.
4-Bromofluorobenzene	86-115	96.

Date: February 6, 1990
Client Project ID: #409700, Moffett Hydropunch
Work Order Number: TO-01-236

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-18 CPT/H9-18

Sample Date: 01/26/90
Lab Sample ID: TO-01-236-02
Receipt Condition: Cool
Extraction Date: 01/29/90
Analysis Date: 01/29/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-01-236-02	H9-18 CPT/H9-18	None	None
Detection Limit		400.	2000.

Date: February 6, 1990
Client Project ID: #409700, Moffett Hydropunch
Work Order Number: TO-01-236

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-18 CPT/H9-18

Sample Date: 01/26/90
Lab Sample ID: TO-01-236-02
Receipt Condition: Cool,pH<2
Analysis Date: 01/31/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	16.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	32.	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	101.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	102.

Date: March 15, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-112

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-19 CPT9-19

Sample Date: 3/9/90
Lab Sample ID: TO-03-112-03
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detecte
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	58.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	6.
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	140.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	58.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	50.	1,000.	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	91.
Toluene-d8	88-110	99.
4-Bromofluorobenzene	86-115	98.

Date: April 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: T0-03-107

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-20 CPT9-20A

Sample Date: 3/8/90
Lab Sample ID: T0-03-107-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	28.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	43.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	220.	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	93.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	98.

Date: March 15, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-112

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-21 CPT9-21

Sample Date: 3/9/90
Lab Sample ID: TO-03-112-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	38.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	43.	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	110.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	17.	460.	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	92.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	97.

Date: April 5, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: TO-03-211

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-22 CPT9-22

Sample Date: 3/20/90
Lab Sample ID: TO-03-211-03
Receipt Condition: Cool, pH <2
Analysis Date: 3/21/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	9.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	97.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	101.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-23

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-03
Receipt Condition: Cool
Extraction Date: 01/31/90
Analysis Date: 01/31/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-01-259-03	H9-23	None	None
Detection Limit		300.	1000.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-23

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-03
Receipt Condition: Cool,pH<2
Analysis Date: 02/02/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	500.	None	cis-1,3-Dichloropropene	250.	None
Bromomethane	500.	None	Trichloroethene	500.	12000.
Vinyl Chloride	500.	None	Chlorodibromomethane	250.	None
Chloroethane	500.	None	1,1,2-Trichloroethane	250.	None
Methylene Chloride	250.	None	Benzene	250.	None
Acetone	500.	None	trans-1,3-Dichloropropene	250.	None
Carbon Disulfide	250.	None	Bromoform	250.	None
1,1-Dichloroethene	250.	None	4-Methyl-2-pentanone	500.	None
1,1-Dichloroethane	250.	None	2-Hexanone	500.	None
1,2-Dichloroethene (Total)	250.	620.	Tetrachloroethene	250.	960.
Chloroform	250.	None	1,1,2,2-Tetrachloroethane	250.	None
1,2-Dichlorethane	250.	None	Toluene	250.	None
2-Butanone	500.	None	Chlorobenzene	250.	None
1,1,1-Trichloroethane	250.	None	Ethylbenzene	250.	None
Carbon Tetrachloride	250.	None	Styrene	250.	None
Vinyl Acetate	500.	None	Xylenes (Total)	250.	None
Bromodichloromethane	250.	None	Acrolein	500.	None
1,2-Dichloropropane	250.	None	Acrylonitrile	500.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	83.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	99.

Date: March 26, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: TO-03-211

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-25 CPT9-25

Sample Date: 3/20/90
Lab Sample ID: TO-03-211-05
Receipt Condition: Cool, pH <2
Analysis Date: 3/21/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	100.	None	cis-1,3-Dichloropropene	50.	None
Bromomethane	100.	None	Trichloroethene	200.	4,600.
Vinyl Chloride	100.	None	Chlorodibromomethane	50.	None
Chloroethane	100.	None	1,1,2-Trichloroethane	50.	None
Dichloromethane	50.	None	Benzene	50.	None
Acetone	100.	None	trans-1,3-Dichloropropene	50.	None
Carbon Disulfide	50.	None	Bromoform	50.	None
1,1-Dichloroethene	50.	85.	4-Methyl-2-pentanone	100.	None
1,1-Dichloroethane	50.	59.	2-Hexanone	100.	None
1,2-Dichloroethene (Total)	50.	670.	Tetrachloroethene	50.	None
Chloroform	50.	None	1,1,2,2-Tetrachloroethane	50.	None
1,2-Dichlorethane	50.	None	Toluene	50.	None
2-Butanone	100.	None	Chlorobenzene	50.	None
1,1,1-Trichloroethane	50.	66.	Ethylbenzene	50.	None
Carbon Tetrachloride	50.	None	Styrene	50.	None
Vinyl Acetate	100.	None	Xylenes (Total)	50.	None
Bromodichloromethane	50.	None	Acrolein	100.	None
1,2-Dichloropropane	50.	None	Acrylonitrile	100.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	100.

Date: April 5, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: TO-03-238

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-26 CPT9-26

Sample Date: 3/21/90
Lab Sample ID: TO-03-238-03
Receipt Condition: Cool, pH <2
Analysis Date: 3/22/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	100.	None	cis-1,3-Dichloropropene	50.	None
Bromomethane	100.	None	Trichloroethene	380.	7,700.
Vinyl Chloride	100.	None	Chlorodibromomethane	50.	None
Chloroethane	100.	None	1,1,2-Trichloroethane	50.	None
Dichloromethane	50.	None	Benzene	50.	None
Acetone	100.	None	trans-1,3-Dichloropropene	50.	None
Carbon Disulfide	50.	None	Bromoform	50.	None
1,1-Dichloroethene	50.	160.	4-Methyl-2-pentanone	100.	None
1,1-Dichloroethane	50.	95.	2-Hexanone	100.	None
1,2-Dichloroethene (Total)	50.	780.	Tetrachloroethene	50.	None
Chloroform	50.	None	1,1,2,2-Tetrachloroethane	50.	None
1,2-Dichlorethane	50.	None	Toluene	50.	None
2-Butanone	100.	None	Chlorobenzene	50.	None
1,1,1-Trichloroethane	50.	79.	Ethylbenzene	50.	None
Carbon Tetrachloride	50.	None	Styrene	50.	None
Vinyl Acetate	100.	None	Xylenes (Total)	50.	None
Bromodichloromethane	50.	None	Acrolein	100.	None
1,2-Dichloropropane	50.	None	Acrylonitrile	100.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	91.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	99.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-157

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-28 CPT9-28

Sample Date: 03/15/90
Lab Sample ID: TO-03-157-03
Receipt Condition: Cool,pH<2
Analysis Date: 03/17/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	9.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	22.	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	93.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	100.

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-019

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-30

Sample Date: 2/1/90
Lab Sample ID: TO-01-019-03
Receipt Condition: Cool
Extraction Date: 2/2/90
Analysis Date: 2/5/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	1,000.	None
High Boiling Hydrocarbons, calculated as Oil	6,000.	None

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-019

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-30

Sample Date: 2/1/90
Lab Sample ID: T0-02-019-03
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/2/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	94.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	96.

Date: April 05, 1990 CORRECTED REPORT
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-183

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-31A CPT9-31

Sample Date: 03/16/90
Lab Sample ID: TO-03-183-02
Receipt Condition: Cool,pH<2
Analysis Date: 03/19/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	33.	None	cis-1,3-Dichloropropene	17.	None
Bromomethane	33.	None	Trichloroethene	17.	420.
Vinyl Chloride	33.	None	Chlorodibromomethane	17.	None
Chloroethane	33.	None	1,1,2-Trichloroethane	17.	None
Dichloromethane	17.	None	Benzene	17.	None
Acetone	33.	None	trans-1,3-Dichloropropene	17.	None
Carbon Disulfide	17.	None	Bromoform	17.	None
1,1-Dichloroethene	17.	30.	4-Methyl-2-pentanone	33.	None
1,1-Dichloroethane	17.	27.	2-Hexanone	33.	None
1,2-Dichloroethene (Total)	17.	290.	Tetrachloroethene	17.	120.
Chloroform	17.	None	1,1,2,2-Tetrachloroethane	17.	None
1,2-Dichlorethane	17.	None	Toluene	17.	None
2-Butanone	33.	None	Chlorobenzene	17.	None
1,1,1-Trichloroethane	17.	None	Ethylbenzene	17.	None
Carbon Tetrachloride	17.	None	Styrene	17.	None
Vinyl Acetate	33.	None	Xylenes (Total)	17.	None
Bromodichloromethane	17.	None	Acrolein	33.	None
1,2-Dichloropropane	17.	None	Acrylonitrile	33.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	87.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	96.

Date: April 05, 1990 CORRECTED REPORT
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-183

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-31B CPT9-31

Sample Date: 03/16/90
Lab Sample ID: TO-03-183-03
Receipt Condition: Cool,pH<2
Analysis Date: 03/19/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	89.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	95.

Date: April 05, 1990 CORRECTED REPORT
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-03-183

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-32 CPT9-32

Sample Date: 03/16/90
Lab Sample ID: T0-03-183-04
Receipt Condition: Cool,pH<2
Analysis Date: 03/19/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	24.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	10.	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	89.
Toluene-d8	88-110	99.
4-Bromofluorobenzene	86-115	95.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-157

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-34 CPT9-34

Sample Date: 03/15/90
Lab Sample ID: TO-03-157-04
Receipt Condition: Cool,pH<2
Analysis Date: 03/16/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	250.	None	cis-1,3-Dichloropropene	120.	None
Bromomethane	250.	None	Trichloroethene	120.	2200.
Vinyl Chloride	250.	None	Chlorodibromomethane	120.	None
Chloroethane	250.	None	1,1,2-Trichloroethane	120.	None
Dichloromethane	120.	None	Benzene	120.	None
Acetone	250.	None	trans-1,3-Dichloropropene	120.	None
Carbon Disulfide	120.	None	Bromoform	120.	None
1,1-Dichloroethene	120.	None	4-Methyl-2-pentanone	250.	None
1,1-Dichloroethane	120.	None	2-Hexanone	250.	None
1,2-Dichloroethene (Total)	120.	250.	Tetrachloroethene	120.	None
Chloroform	120.	None	1,1,2,2-Tetrachloroethane	120.	None
1,2-Dichlorethane	120.	None	Toluene	120.	None
2-Butanone	250.	None	Chlorobenzene	120.	None
1,1,1-Trichloroethane	120.	None	Ethylbenzene	120.	None
Carbon Tetrachloride	120.	None	Styrene	120.	None
Vinyl Acetate	250.	None	Xylenes (Total)	120.	None
Bromodichloromethane	120.	None	Acrolein	250.	None
1,2-Dichloropropane	120.	None	Acrylonitrile	250.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	92.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	95.

Date: March 21, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-157

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-35 CPT9-35

Sample Date: 03/14/90
Lab Sample ID: TO-03-157-02
Receipt Condition: Cool,pH<2
Analysis Date: 03/17/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	102.

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-050

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-37-CPT9-37

Sample Date: 02/05/90
Lab Sample ID: TO-02-050-01
Receipt Condition: Cool
Extraction Date: 02/06/90
Analysis Date: 02/06/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-02-050-01	H9-37-CPT9-37	None	None
Detection Limit		300.	2000.

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-050

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-37-CPT9-37

Sample Date: 02/05/90
Lab Sample ID: T0-02-050-01
Receipt Condition: Cool
Analysis Date: 02/07/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	12.	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	93.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	105.

Date: March 15, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-03-112

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-38 CPT9-38

Sample Date: 3/9/90
Lab Sample ID: T0-03-112-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	500.	None	cis-1,3-Dichloropropene	250.	None
Bromomethane	500.	None	Trichloroethene	250.	4,000.
Vinyl Chloride	500.	None	Chlorodibromomethane	250.	None
Chloroethane	500.	None	1,1,2-Trichloroethane	250.	None
Dichloromethane	250.	None	Benzene	250.	None
Acetone	500.	None	trans-1,3-Dichloropropene	250.	None
Carbon Disulfide	250.	None	Bromoform	250.	None
1,1-Dichloroethene	250.	None	4-Methyl-2-pentanone	500.	None
1,1-Dichloroethane	250.	None	2-Hexanone	500.	None
1,2-Dichloroethene (Total)	500.	510.	Tetrachloroethene	250.	None
Chloroform	250.	None	1,1,2,2-Tetrachloroethane	250.	None
1,2-Dichlorethane	250.	None	Toluene	250.	None
2-Butanone	500.	None	Chlorobenzene	250.	None
1,1,1-Trichloroethane	250.	None	Ethylbenzene	250.	None
Carbon Tetrachloride	250.	None	Styrene	250.	None
Vinyl Acetate	500.	None	Xylenes (Total)	250.	None
Bromodichloromethane	250.	None	Acrolein	500.	None
1,2-Dichloropropane	250.	None	Acrylonitrile	500.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	101.
4-Bromofluorobenzene	86-115	101.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-39

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-01
Receipt Condition: Cool
Extraction Date: 01/31/90
Analysis Date: 01/31/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-01-259-01	H9-39	None	None
Detection Limit		300.	1000.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-39

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-01
Receipt Condition: Cool,pH<2
Analysis Date: 02/02/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	100.	None	cis-1,3-Dichloropropene	50.	None
Bromomethane	100.	None	Trichloroethene	50.	1500.
Vinyl Chloride	100.	None	Chlorodibromomethane	50.	None
Chloroethane	100.	None	1,1,2-Trichloroethane	50.	None
Methylene Chloride	50.	None	Benzene	50.	None
Acetone	100.	None	trans-1,3-Dichloropropene	50.	None
Carbon Disulfide	50.	None	Bromoform	50.	None
1,1-Dichloroethene	50.	61.	4-Methyl-2-pentanone	100.	None
1,1-Dichloroethane	50.	None	2-Hexanone	100.	None
1,2-Dichloroethene (Total)	50.	310.	Tetrachloroethene	50.	None
Chloroform	50.	None	1,1,2,2-Tetrachloroethane	50.	None
1,2-Dichlorethane	50.	None	Toluene	50.	None
2-Butanone	100.	None	Chlorobenzene	50.	None
1,1,1-Trichloroethane	50.	None	Ethylbenzene	50.	None
Carbon Tetrachloride	50.	None	Styrene	50.	None
Vinyl Acetate	100.	None	Xylenes (Total)	50.	None
Bromodichloromethane	50.	None	Acrolein	100.	None
1,2-Dichloropropane	50.	None	Acrylonitrile	100.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	94.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	93.

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-02-019

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-40

Sample Date: 2/1/90
Lab Sample ID: TO-01-019-01
Receipt Condition: Cool
Extraction Date: 2/2/90
Analysis Date: 2/5/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	500.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: February 7, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: T0-02-019

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-40

Sample Date: 2/1/90
Lab Sample ID: T0-02-019-01
Receipt Condition: Cool, pH ≤2
Analysis Date: 2/2/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	250.	None	cis-1,3-Dichloropropene	120.	None
Bromomethane	250.	None	Trichloroethene	120.	2,600.
Vinyl Chloride	250.	None	Chlorodibromomethane	120.	None
Chloroethane	250.	None	1,1,2-Trichloroethane	120.	None
Methylene Chloride	120.	None	Benzene	120.	None
Acetone	250.	None	trans-1,3-Dichloropropene	120.	None
Carbon Disulfide	120.	None	Bromoform	120.	None
1,1-Dichloroethene	120.	None	4-Methyl-2-pentanone	250.	None
1,1-Dichloroethane	120.	None	2-Hexanone	250.	None
1,2-Dichloroethene (Total)	120.	None	Tetrachloroethene	120.	None
Chloroform	120.	None	1,1,2,2-Tetrachloroethane	120.	360.
1,2-Dichlorethane	120.	None	Toluene	120.	None
2-Butanone	250.	None	Chlorobenzene	120.	None
1,1,1-Trichloroethane	120.	None	Ethylbenzene	120.	None
Carbon Tetrachloride	120.	None	Styrene	120.	None
Vinyl Acetate	250.	None	Xylenes (Total)	120.	None
Bromodichloromethane	120.	None	Acrolein	250.	None
1,2-Dichloropropane	120.	None	Acrylonitrile	250.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	93.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	96.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-41

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-04
Receipt Condition: Cool
Extraction Date: 01/31/90
Analysis Date: 01/31/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Lab Sample ID	Client Sample ID	High Boiling Hydrocarbons (calculated as Diesel)	High Boiling Hydrocarbons (calculated as Oil)
TO-01-259-04	H9-41	None	None
Detection Limit		300.	1000.

Date: February 6, 1990
Client Project ID: #409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-01-259

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-41

Sample Date: 01/30/90
Lab Sample ID: TO-01-259-04
Receipt Condition: Cool,pH<2
Analysis Date: 01/31/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	500.	None	cis-1,3-Dichloropropene	250.	None
Bromomethane	500.	None	Trichloroethene	250.	9300.
Vinyl Chloride	500.	None	Chlorodibromomethane	250.	None
Chloroethane	500.	None	1,1,2-Trichloroethane	250.	None
Methylene Chloride	250.	None	Benzene	250.	None
Acetone	500.	None	trans-1,3-Dichloropropene	250.	None
Carbon Disulfide	250.	None	Bromoform	250.	None
1,1-Dichloroethene	250.	None	4-Methyl-2-pentanone	500.	None
1,1-Dichloroethane	250.	None	2-Hexanone	500.	None
1,2-Dichloroethene (Total)	250.	690.	Tetrachloroethene	250.	None
Chloroform	250.	None	1,1,2,2-Tetrachloroethane	250.	None
1,2-Dichlorethane	250.	None	Toluene	250.	None
2-Butanone	500.	None	Chlorobenzene	250.	None
1,1,1-Trichloroethane	250.	None	Ethylbenzene	250.	None
Carbon Tetrachloride	250.	None	Styrene	250.	None
Vinyl Acetate	500.	None	Xylenes (Total)	250.	None
Bromodichloromethane	250.	None	Acrolein	500.	None
1,2-Dichloropropane	250.	None	Acrylonitrile	500.	None

Surrogates	Limits	%Rec
1,2-Dichloroethane-d4	76-114	80.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	100.

Date: March 15, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch
Work Order Number: TO-03-112

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-42 CPT9-42

Sample Date: 3/9/90
Lab Sample ID: TO-03-112-04
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	11.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	11.	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	96.
Toluene-d8	88-110	102.
4-Bromofluorobenzene	86-115	96.

Date: April 6, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: T0-03-107

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-43 CPT9-43

Sample Date: 3/8/90
Lab Sample ID: T0-03-107-02
Receipt Condition: Cool, pH ≤2
Analysis Date: 3/12/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	5.	None
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Dichloromethane	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	5.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	None	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	5.	None	Tetrachloroethene	5.	None
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	None	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	95.
Toluene-d8	88-110	100.
4-Bromofluorobenzene	86-115	97.

Date: January 30, 1990
Client Project ID: 409700, Moffett Hydropunch
Work Order Number: T0-01-217

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-44 Site 9 CPT-H9-44
Sample Date: 1/25/90
Lab Sample ID: T0-01-217-02
Receipt Condition: Cool

High Boiling Hydrocarbons Extraction Date: 1/26/90
High Boiling Hydrocarbons Analysis Date: 1/29/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	400.	None
High Boiling Hydrocarbons, calculated as Oil	2,000.	None

Date: January 30, 1990
Client Project ID: 409700, Moffett Hydropunch
Work Order Number: T0-01-217

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-44 Site 9 CPT-H9-44

Sample Date: 1/25/90
Lab Sample ID: T0-01-217-02
Receipt Condition: Cool, pH <2
Analysis Date: 1/26/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	10.	None	cis-1,3-Dichloropropene	5.	None
Bromomethane	10.	None	Trichloroethene	830.	22,000.
Vinyl Chloride	10.	None	Chlorodibromomethane	5.	None
Chloroethane	10.	None	1,1,2-Trichloroethane	5.	None
Methylene Chloride	5.	None	Benzene	5.	None
Acetone	10.	None	trans-1,3-Dichloropropene	5.	None
Carbon Disulfide	5.	None	Bromoform	5.	None
1,1-Dichloroethene	500.	None	4-Methyl-2-pentanone	10.	None
1,1-Dichloroethane	5.	60.	2-Hexanone	10.	None
1,2-Dichloroethene (Total)	500.	650.	Tetrachloroethene	5.	10.
Chloroform	5.	None	1,1,2,2-Tetrachloroethane	5.	None
1,2-Dichlorethane	5.	None	Toluene	5.	None
2-Butanone	10.	None	Chlorobenzene	5.	None
1,1,1-Trichloroethane	5.	86.	Ethylbenzene	5.	None
Carbon Tetrachloride	5.	None	Styrene	5.	None
Vinyl Acetate	10.	None	Xylenes (Total)	5.	None
Bromodichloromethane	5.	None	Acrolein	10.	None
1,2-Dichloropropane	5.	None	Acrylonitrile	10.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	102.
Toluene-d8	88-110	95.
4-Bromofluorobenzene	86-115	104.

Date: April 5, 1990
Client Project ID: 409700.02.02.95, Moffett Hydropunch, CORRECTED REPORT
Work Order Number: T0-03-238

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H9-45B CPT9-45B

Sample Date: 3/20/90
Lab Sample ID: T0-03-238-02
Receipt Condition: Cool, pH <2
Analysis Date: 3/22/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	100.	None	cis-1,3-Dichloropropene	50.	None
Bromomethane	100.	None	Trichloroethene	330.	6,600.
Vinyl Chloride	100.	None	Chlorodibromomethane	50.	None
Chloroethane	100.	None	1,1,2-Trichloroethane	50.	None
Dichloromethane	50.	None	Benzene	50.	None
Acetone	100.	None	trans-1,3-Dichloropropene	50.	None
Carbon Disulfide	50.	None	Bromoform	50.	None
1,1-Dichloroethene	50.	140.	4-Methyl-2-pentanone	100.	None
1,1-Dichloroethane	50.	140.	2-Hexanone	100.	None
1,2-Dichloroethene (Total)	50.	1,500.	Tetrachloroethene	50.	None
Chloroform	50.	None	1,1,2,2-Tetrachloroethane	50.	None
1,2-Dichlorethane	50.	None	Toluene	50.	None
2-Butanone	100.	None	Chlorobenzene	50.	None
1,1,1-Trichloroethane	50.	None	Ethylbenzene	50.	None
Carbon Tetrachloride	50.	None	Styrene	50.	None
Vinyl Acetate	100.	None	Xylenes (Total)	50.	None
Bromodichloromethane	50.	None	Acrolein	100.	None
1,2-Dichloropropane	50.	None	Acrylonitrile	100.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	91.
Toluene-d8	88-110	103.
4-Bromofluorobenzene	86-115	100.

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MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX B – ANALYTICAL DATA

SITE 14

QUARTERLY REPORT
1ST QUARTER 1990
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 MAY 1990

Date: January 30, 1990
Client Project ID: 409700, Moffett Hydropunch
Work Order Number: TO-01-217

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H14-1 Site 14 CPT-H14-1
Sample Date: 1/25/90
Lab Sample ID: TO-01-217-01
Receipt Condition: Cool

High Boiling Hydrocarbons Extraction Date: 1/26/90
High Boiling Hydrocarbons Analysis Date: 1/27/90

Total Petroleum Hydrocarbons - Modified E.P.A. Method 8015

Results - Micrograms per Liter

Parameter	Detection Limit	Detected
High Boiling Hydrocarbons, calculated as Diesel	5,000.	89,000.*
High Boiling Hydrocarbons, calculated as Oil	20,000.	None

*Compounds detected and calculated as diesel appear to be the less volatile constituents of gasoline.

Date: January 30, 1990
Client Project ID: 409700, Moffett Hydropunch
Work Order Number: T0-01-217

IT ANALYTICAL SERVICES
SAN JOSE, CA

Client Sample ID: H14-1 Site 14 CPT-H14-1

Sample Date: 1/25/90
Lab Sample ID: T0-01-217-01
Receipt Condition: Cool, pH <2
Analysis Date: 1/26/90

Volatile Organics - E.P.A. Methods 624, 8240

Results - Micrograms per Liter

Parameter	Detection Limit	Detected	Parameter	Detection Limit	Detected
Chloromethane	100.	None	cis-1,3-Dichloropropene	50.	None
Bromomethane	100.	None	Trichloroethene	50.	1,600.
Vinyl Chloride	100.	None	Chlorodibromomethane	50.	None
Chloroethane	100.	None	1,1,2-Trichloroethane	830.	31,000.
Methylene Chloride	50.	None	Benzene	50.	None
Acetone	100.	None	trans-1,3-Dichloropropene	50.	None
Carbon Disulfide	50.	None	Bromoform	50.	None
1,1-Dichloroethene	50.	None	4-Methyl-2-pentanone	100.	None
1,1-Dichloroethane	50.	None	2-Hexanone	100.	None
1,2-Dichloroethene (Total)	50.	None	Tetrachloroethene	50.	None
Chloroform	50.	None	1,1,2,2-Tetrachloroethane	50.	None
1,2-Dichlorethane	50.	330.	Toluene	50.	320.
2-Butanone	100.	None	Chlorobenzene	50.	None
1,1,1-Trichloroethane	50.	None	Ethylbenzene	830.	8,500.
Carbon Tetrachloride	50.	None	Styrene	50.	None
Vinyl Acetate	100.	None	Xylenes (Total)	830.	22,000.
Bromodichloromethane	50.	None	Acrolein	100.	460.
1,2-Dichloropropane	50.	None	Acrylonitrile	100.	None

Surrogates	Limits	% Rec
1,2-Dichloroethane-d4	76-114	102.
Toluene-d8	88-110	95.
4-Bromofluorobenzene	86-115	104.