aqua science engineers inc.

RO2537

March 1, 2005

REPORT
of
SOIL AND GROUNDWATER ASSESSMENT
ASE JOB NO. 3788
at
1455 5th Street
Oakland, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
208 West El Pintado
Danville, CA 94526
(925) 820-9391

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

1.0 INTRODUCTION

This report presents Aqua Science Engineers, Inc. (ASE)'s methods and findings for a soil and groundwater assessment at 1455 5th Street in Oakland, California (Figure 1). The proposed site assessment activities were initiated by Mr. Andy Hall and Ms. Jean Hall, owners of the property, as required by the Alameda County Health Care Services Agency (ACHCSA) in their letter dated August 27, 2004. The intent of this project was to satisfy the ACHCSA so that, assuming the analytical results are favorable, a no further action letter without restrictions could be written.

2.0 BACKGROUND INFORMATION

For complete background information on this property, please refer to the Phase I Environmental Site Assessment prepared by ASE dated July 20, 2004 and the Final Report of Environmental Remediation Activities prepared by ASE dated January 15, 2004.

3.0 SCOPE OF WORK (SOW)

Based on the requirements of the ACHCSA, ASE's scope of work was to:

1) Obtain a drilling permit from the Alameda County Public Works Agency (ACPWA).

2) Notify Underground Service Alert (USA) to have underground utility lines located prior to drilling.

3) Drill four soil borings at the site and collect soil and groundwater samples for analysis.

4) Analyze one soil and one groundwater sample from each boring at a state certified analytical laboratory for total petroleum hydrocarbons as diesel (TPH-D), motor oil (TPH-MO) and gasoline (TPH-G) by EPA Method 8015, petroleum oil and grease (POG) by Standard Method 5520, volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) and fuel oxygenates by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and CAM 17 metals.

5) Following collection of the soil and groundwater samples, backfill each boring with neat cement to the ground surface.

6) Prepare a report presenting results from this assessment.

4.0 DRILL SOIL BORINGS AND COLLECT SAMPLES

4.1 Permits

Prior to drilling, ASE obtained a drilling permit from the ACPWA. ASE also notified Underground Service Alert (USA) to have underground utility lines marked in the site vicinity. A copy of the drilling permit is included in Appendix A.

4.2 Drilling and Soil Sample Collection

On January 31, 2005, Vironex, Inc. of San Leandro, California drilled soil borings BH-A through BH-D at the site using a Geoprobe hydraulic sampling rig (Figure 2). The drilling was directed by ASE senior geologist Robert E. Kitay, R.G.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for possible chemical analysis. The samples were collected by driving a sampler lined with acetate tubes using hydraulic direct push methods. Selective soil samples were immediately cut, sealed with Teflon tape and plastic end caps, labeled and chilled with ice for transport to McCampbell Analytical, Inc. of Pacheco, California (CA DHS ELAP #1644) under chain of custody.

Soil from the remaining tubes was described by the site geologist using the Unified Soil Classification System (USCS) and was screened for volatile compounds using a photoionization detector (PID). The soil was screened by emptying soil from one of the sample tubes into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. After the VOCs were allowed to volatilize, the PID measured the vapor in the bag through a small hole punched in the bag. PID readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory. The PID readings are shown on the boring logs presented in Appendix B.

4.3 Groundwater Sample Collection

Groundwater samples were removed from the borings with new, unused polyethylene bailers. The groundwater samples collected for VOC analyses were contained in 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, and sealed without headspace. The groundwater samples collected for non-volatile analyses were contained in 1-liter amber glass bottles. The samples were labeled and chilled with ice for transport to McCampbell Analytical, Inc. under chain of custody.

4.4 Decontamination and Borehole Backfilling

Drilling equipment was cleaned with an Alconox solution between sampling intervals and between borings to prevent potential cross-contamination. Following collection of the soil and groundwater samples, each boring was backfilled with neat cement to the ground surface.

4.5 Subsurface Lithology and Hydrogeology

Sediments encountered during drilling consisted predominantly of gravelly silt from the ground surface to approximately 2-feet below ground surface (bgs) and silty sand from 2-feet bgs to the total depth explored of approximately 16-feet bgs. Groundwater was encountered at depths ranging from approximately 10.5-feet bgs to approximately 12-feet bgs. Boring logs are presented as Appendix B.

5.0 ANALYTICAL RESULTS FOR SOIL

One soil sample collected from each boring was analyzed by McCampbell Analytical, Inc. for total petroleum hydrocarbons as diesel (TPH-D), motor oil (TPH-MO) and gasoline (TPH-G) by EPA Method 8015, petroleum oil and grease (POG) by Standard Method 5520, volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) and fuel oxygenates by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and CAM 17 metals.

The soil sample collected from approximately 11.5-feet bgs in borings BH-A and BH-B and 10.0-feet bgs in borings BH-C and BH-D were selected for analysis. These samples were selected since they best represented the capillary zone in each boring. There was no indication of contamination in any of the borings. The analytical results are tabulated in Table One, and the certified analytical report and chain of custody forms are included in Appendix C.

No hydrocarbons, VOCs or SVOCs were detected in any of the soil samples analyzed. Metal concentrations detected in the samples were compared to environmental screening levels (ESLs) as presented in "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated July 2003. The only metal concentration detected at a concentration exceeding ESLs was chromium in the sample collected from 10.0-feet bgs in boring BH-D. However, this chromium ESL assumes that a portion of the chromium is related to the more toxic and less common chromium IV, which we have no reason to expect at the site. This chromium concentration did not exceed the ESL for the more common chromium III.

6.0 ANALYTICAL RESULTS FOR GROUNDWATER

One water sample collected from each boring was analyzed by McCampbell Analytical, Inc. for TPH-D, TPH-MO and TPH-G by EPA Method 8015, POG by Standard Method 5520, VOCs by EPA Method 8260, SVOCs by EPA Method 8270, and dissolved CAM 17 metals. The analytical results are tabulated in Table Two, and the certified analytical report and chain of custody forms are included in Appendix C.

The only VOC that exceeded an ESL was total xylenes in boring BH-B, where the total xylenes concentration of 16 parts per billion (ppb) slightly

exceeded the ESL of 13 ppb. This concentration was well below the maximum contaminant level for drinking level of 1,750 ppb.

The only metal concentrations that exceeded ESLs were cobalt and nickel. ASE has no information on the background concentrations of these metals in the site vicinity. However, the ESLs for these metals were established based on fresh water aquatic habitat goals, which should not apply for this site based on the site location. The highest nickel concentration detected of 11 ppb is well below the DHS MCL for drinking water of 100 ppb. There is no MCL established for cobalt; however, the cobalt concentrations are well below ESL values in non-fresh water habitat scenarios including drinking water toxicity.

7.0 CONCLUSIONS

No hydrocarbons, VOCs or SVOCs were detected in any of the soil samples analyzed. The only metal concentration detected at a concentration exceeding ESLs was chromium in the sample collected from 10.0-feet bgs in boring BH-D. However, this chromium ESL assumes that a portion of the chromium is related to the more toxic and less common chromium IV, which we have no reason to expect at the site. The chromium concentration did not exceed the ESL for the more common chromium III, which is 2,500 ppm.

The only VOC in groundwater that exceeded an ESL was total xylenes in boring BH-B, where the total xylenes concentration of 16 ppb slightly exceeded the ESL of 13 ppb. The only metal concentrations that exceeded ESLs were cobalt and nickel. However, these ESLs were established based on fresh water aquatic habitat goals, which should not apply for this site based on the site location. None of the VOC or metal concentrations detected exceeded ESLs for other criteria, including for drinking water.

8.0 RECOMMENDATIONS

Based on the analytical results from this assessment, as well as the results from the previous remediation project at the site, it appears that this site is now suitable for case closure. ASE recommends that a no further action letter allowing for unrestricted usage for the property be written by the ACHCSA.

9.0 REPORT LIMITATIONS

The results presented within this report represent conditions at the time of the soil and groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

This report does not fully characterize the site for contamination resulting from unknown sources or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Robert E. Kitay, R.G., R.E.A.
Senior Geologist

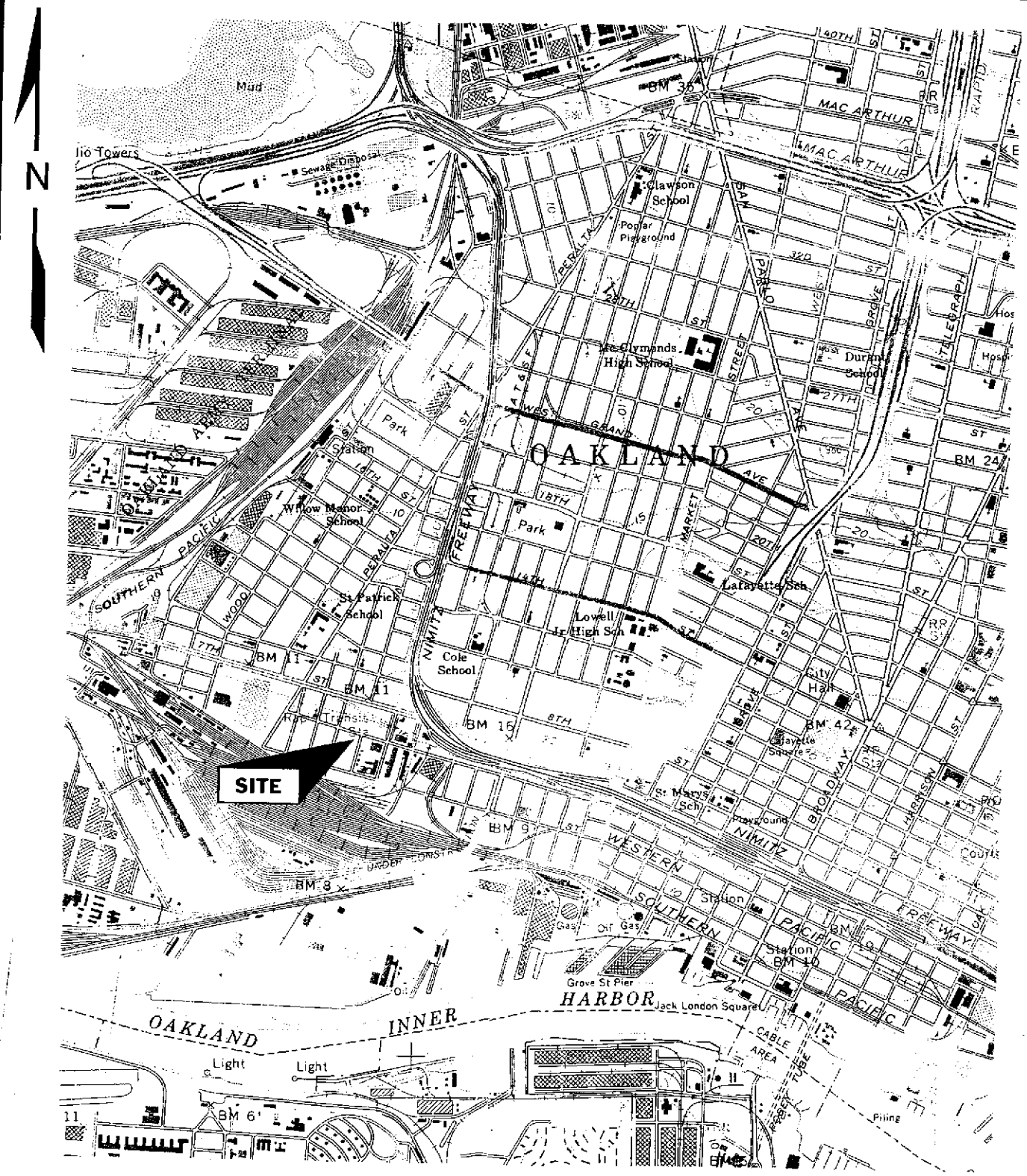
Attachments: Figures 1 and 2
Tables One and Two
Appendices A through C

cc: Mr. Barney Chan, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, CA 94502-6577

Mr. Andy Hall, Chemical Compounding Company, 791 66th Avenue, Oakland, CA 94621

Ms. Jean Hall, 277 Castle Hill Ranch Road, Walnut Creek, CA 94595

Ms. Betty Graham, California Regional Water Quality Control Board, San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612

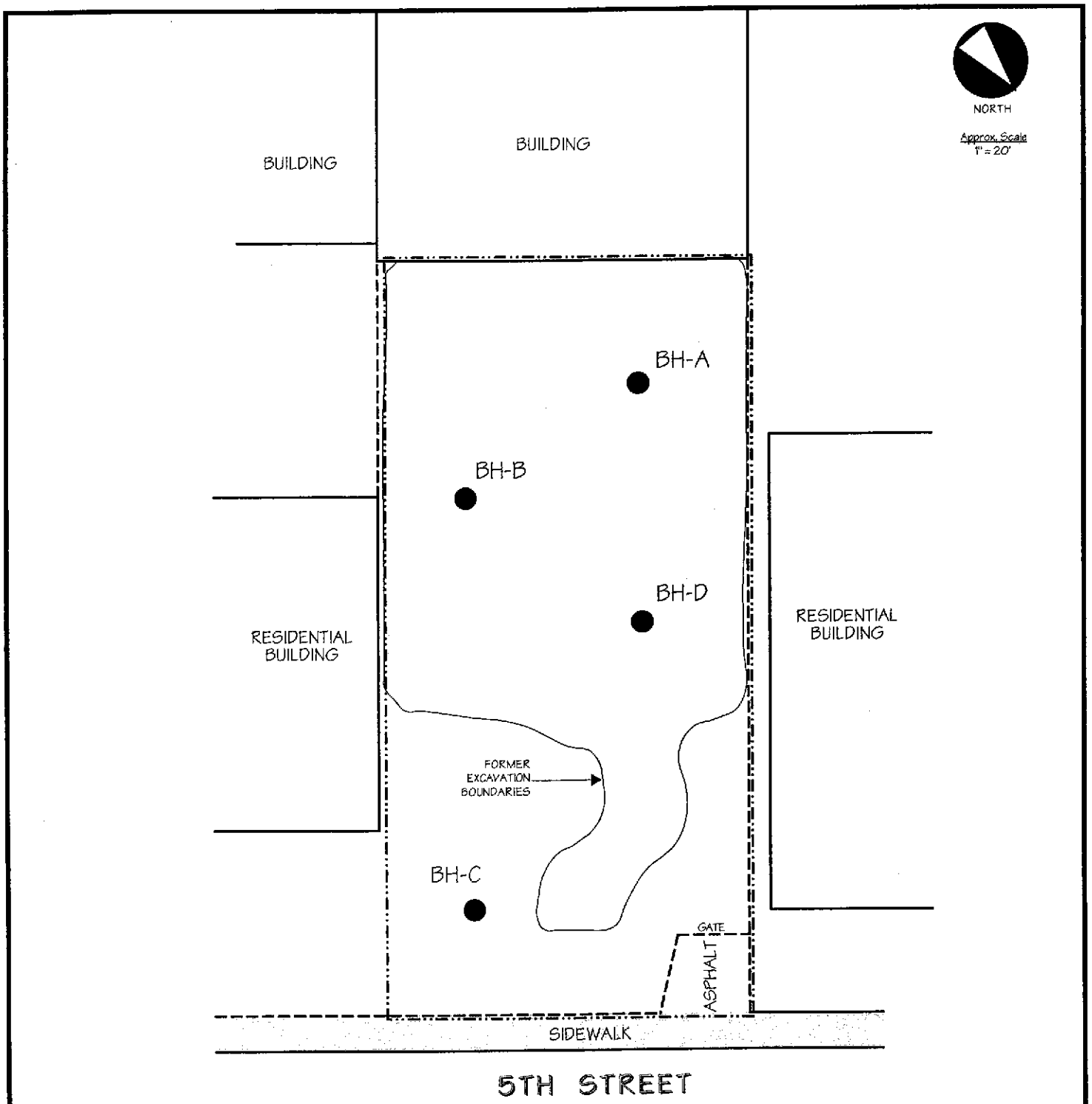


SITE LOCATION MAP

1455 5th Street
Oakland, CA 94621

Scale: 1 inch = 2,000 feet

Aqua Science Engineers | Figure 1



LEGEND

BH-A ● GEOPROBE BORING

SOIL BORING LOCATION MAP

VACANT PROPERTY
1455 5TH STREET
OAKLAND, CA

AQUA SCIENCE ENGINEERS | FIGURE 2

TABLE ONE

Summary of Analyses of Soil Samples
CAM 17 Metals, Hydrocarbons, VOCs and SVOCs
1455 5th Street, Oakland, CA
All results are in parts per million (ppm)

COMPOUND	BH-A 11.5'	BH-B 11.5'	BH-C 10.0'	BH-D 10.0'	ESL
CAM 17 METALS					
Antimony	< 0.5	< 0.5	< 0.5	< 0.5	610
Arsenic	2.4	2.3	2.8	3.5	16
Barium	58	73	59	91	2,500
Beryllium	< 0.5	< 0.5	< 0.5	< 0.5	98
Cadmium	< 0.25	< 0.25	< 0.25	< 0.25	38
Chromium	39	50	39	**69**	58
Cobalt	4.9	4.7	5.3	5.6	94
Copper	6.7	7.5	6.4	12	2,500
Lead	2.5	2.6	2.4	4.1	750
Mercury	< 0.05	< 0.05	< 0.05	< 0.05	110
Molybdenum	< 0.5	< 0.5	< 0.5	< 0.5	2,500
Nickel	32	35	32	56	1,000
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	2,500
Silver	< 0.5	< 0.5	< 0.5	< 0.5	2,500
Thallium	< 0.5	< 0.5	< 0.5	< 0.5	51
Vanadium	30	32	32	45	2,500
Zinc	20	29	22	29	2,500
Total Petroleum Hydrocarbons					
TPH as gasoline	< 1.0	< 1.0	< 1.0	< 1.0	100
TPH as diesel	< 1.0	< 1.0	< 1.0	< 1.0	100
TPH as motor oil	< 5.0	< 5.0	< 5.0	< 5.0	100
Petroleum Oil and Grease					
POG	< 50	< 50	< 50	< 50	1,000
Volatile Organic Compounds (VOCs)					
Acetone	< 0.05	< 0.05	< 0.05	< 0.05	0.24
Ethylbenzene	< 0.005	< 0.005	< 0.005	< 0.005	3.3
Toluene	< 0.005	< 0.005	< 0.005	< 0.005	2.9
Total xylenes	< 0.005	< 0.005	< 0.005	< 0.005	1.5
All remaining VOCs	< 0.005 - < 0.1	< 0.005 - < 0.1	< 0.005 - < 0.1	< 0.005 - < 0.1	Varies
Semi-Volatile Organic Compounds (SVOCs)					
All SVOCs	< 0.33 - < 1.6	< 0.33 - < 1.6	< 0.33 - < 1.6	< 0.33 - < 1.6	Varies

Notes:

1. Non-detectable concentration noted by the less than sign (<) followed by the detection limit.

2. ESL is the Environmental Screening Level for deep soil where residential land use is permited and groundwater is a current or potential source of Drinking Water as presented by the SF Bay RWQCB in their document entitled "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater," July 2003.

3. Concentration is **BOLD** exceeds ESL.

TABLE TWO

Summary of Analyses of GROUNDWATER Samples
CAM 17 Metals, Hydrocarbons, VOCs and SVOCs
1455 5th Street, Oakland, CA
All results are in parts per billion (ppb)

COMPOUND	BH-A	BH-B	BH-C	BH-D	ESL
CAM 17 METALS					
Antimony	< 0.5	< 0.5	< 0.5	< 0.5	6.0
Arsenic	< 0.5	< 0.5	< 0.5	< 0.5	36
Barium	81	35	43	30	1,000
Beryllium	< 0.5	< 0.5	< 0.5	< 0.5	3
Cadmium	< 0.25	< 0.25	< 0.25	< 0.25	2.2
Chromium	< 0.5	< 0.5	< 0.5	< 0.5	50
Cobalt	**5.4**	2.7	**4.4**	**5.1**	3.0
Copper	0.61	1.9	< 0.5	< 0.5	3.1
Lead	< 0.5	< 0.5	< 0.5	< 0.5	2.5
Mercury	< 0.05	< 0.05	< 0.05	< 0.05	0.012
Molybdenum	18	10	19	16	35
Nickel	**9.1**	4.7	7.1	11	8.2
Selenium	< 0.5	< 0.5	4.3	< 0.5	5.0
Silver	< 0.5	< 0.5	< 0.5	< 0.5	0.19
Thallium	< 0.5	< 0.5	< 0.5	< 0.5	2.0
Vanadium	0.56	0.57	0.60	< 0.5	15
Zinc	< 5.0	< 5.0	< 5.0	< 5.0	81
Total Petroleum Hydrocarbons					
TPH as gasoline	< 50	57	< 50	< 50	100
TPH as diesel	< 50	< 50	< 50	< 50	100
TPH as motor oil	< 250	< 250	< 250	< 250	100
Petroleum Oil and Grease					
POG	< 5,000	< 5,000	< 5,000	< 5,000	100
Volatile Organic Compounds (VOCs)					
Acetone	10	22	13	6.0	700
Ethylbenzene	0.69	2.7	< 0.5	< 0.5	30
Toluene	< 0.5	0.92	1.4	0.61	40
Total xylenes	4.5	**16**	0.92	< 0.5	13
All remaining VOCs	< 0.5 - < 10	< 0.5 - < 10	< 0.5 - < 10	< 0.5 - < 1.0	Varies
Semi-Volatile Organic Compounds (SVOCs)					
All SVOCs	< 10 - < 50	< 10 - < 50	< 10 - < 50	< 10 - < 50	Varies

Notes:

1. Non-detectable concentration noted by the less than sign (<) followed by the detection limit.

2. ESL is the Environmental Screening Level for groundwater where residential land use is permited and groundwater is a current or potential source of Drinking Water as presented by the SF Bay RWQCB in their document entitled "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater," July 2003.

3. Concentration is **BOLD** exceeds ESL.

APPENDIX A

Drilling Permit

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1455 5th Street
Oakland CA

CLIENT
Name Andy Hall and Jean Hall
Address 771 46th Avenue Phone
City Oakland, CA Zip 94621

APPLICANT
Name Agua Engineering
Fax 925-837-4853
Address 208 U. El Pintado Phone 925-820-2371
City Danville, CA Zip 94526

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	0	General	0
Water Supply	0	Contamination	X
Monitoring	0	Well Destruction	0

PROPOSED WATER SUPPLY WELL USE

New Domestic	0	Replacement Domestic	0
Municipal	0	Irrigation	0
Industrial	0	Other	0

DRILLING METHOD:

Mud Rotary	0	Air Rotary	0	Auger	0
Cable	0	Other	Geoprobe		

DRILLER'S NAME Vironex

DRILLER'S LICENSE NO. C 57 705927

WELL PROJECTS
Drill Hole Diameter ____ in. Maximum
Casing Diameter ____ in. Depth ____ ft.
Surface Seal Depth ____ ft. Owner's Well Number ____

GEOTECHNICAL PROJECTS
Number of Borings 4 Maximum
Hole Diameter 2 in. Depth 20 ft.

ESTIMATED STARTING DATE 1-31-05
ESTIMATED COMPLETION DATE 1-31-05

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Robert K. Kitz DATE 1-24-05

PLEASE PRINT NAME Robert Kitz

Rev.5-15-00

FOR OFFICE USE
PERMIT NUMBER W05-0067
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL / Contamination
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS - B #1

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 1-26-05

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W05-0067

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
B#1-GENERAL CONDITIONS: GEOTECHNICAL & CONTAMINATION BOREHOLES

1. Prior to any drilling activities, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that Federal, State, County or to the City and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.

2. Boreholes shall not be left open for a period of more than **24 hours**. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local stanues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

4. Permit is valid only for the purpose specified herein **January 31 to January 31, 2005.** No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

5. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

6. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

7. **Applicant shall contact George Bolton for a inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.**

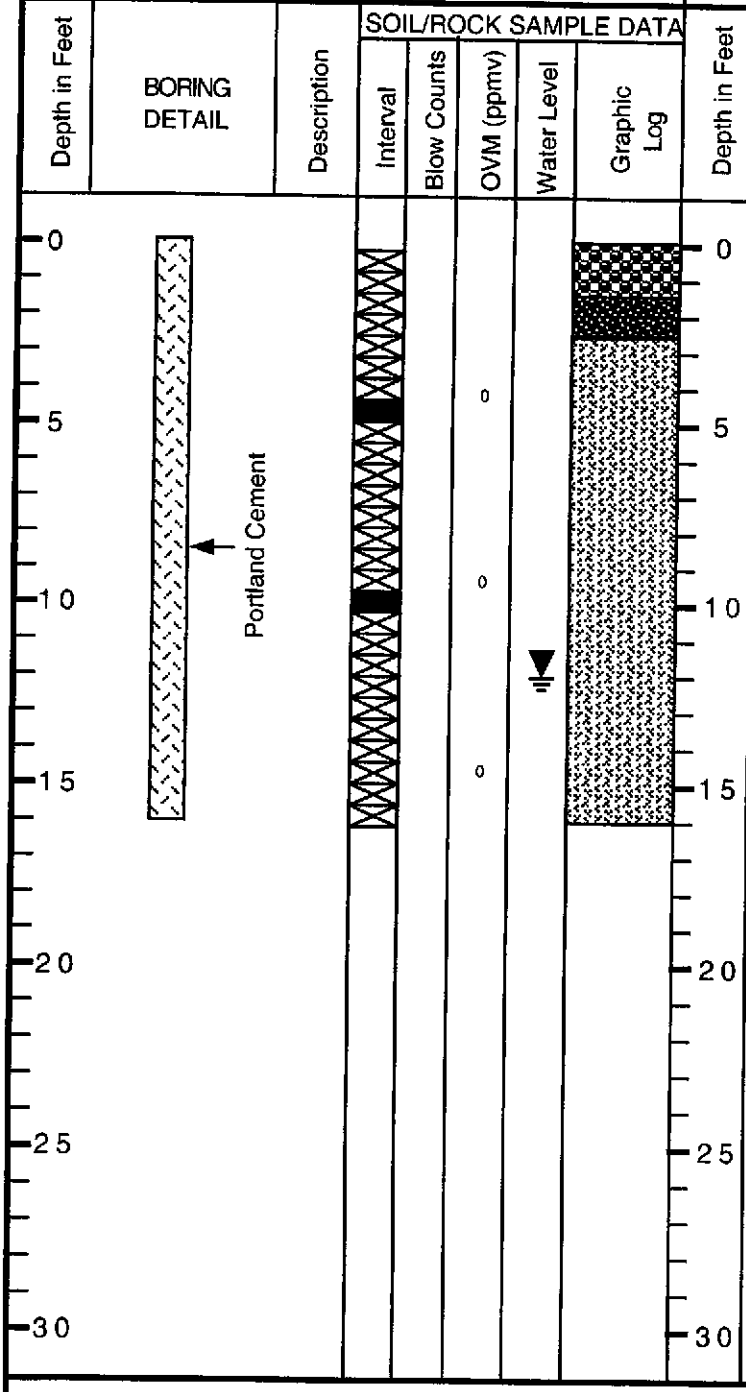
Spot check needed only by Inspector JY

APPENDIX B

Boring Logs

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-A
Project Name: Hall Property	Project Location: 1455 5th Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert Kitay, R.G.	Date Drilled: January 31, 2005	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 12'	Total Depth of Well Completed: NA
Static Depth of Water in Well: 12'	Well Screen Type and Diameter: NA
Total Depth of Boring: 16'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Gravelly SILT (ML); dark grey; medium stiff; damp; 60% silt; 25% subangular gravel to 1" diameter; 15% clay; low plasticity; low estimated K; no odor
5	Silty CLAY (CH); dark brown; medium stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor
10	Silty SAND (SM); dark brown; loose; damp; 90% fine sand; 10% silt; non-plastic; medium estimated K; no odor moist at 6' groundwater at 12'
15	
20	End of Boring at 16'
25	
30	

AQUA SCIENCE ENGINEERS, INC.

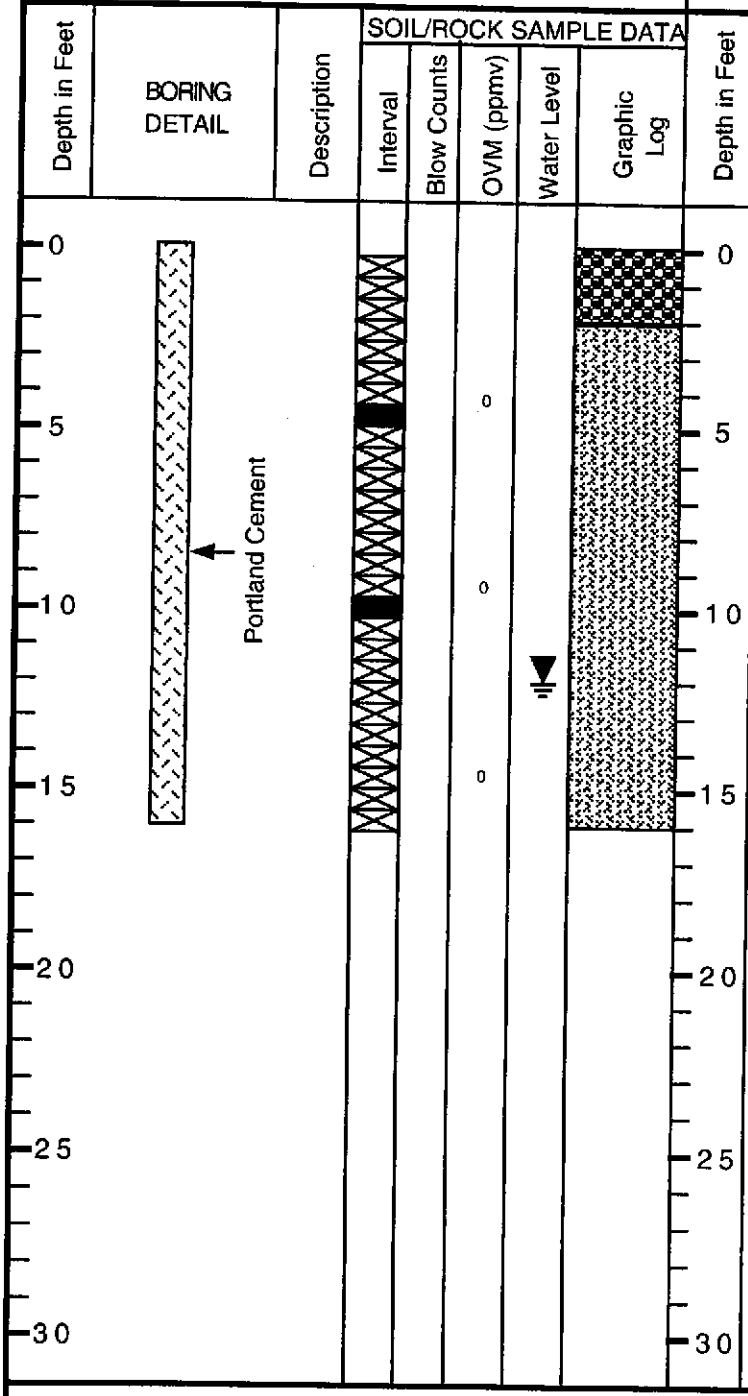
SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

BORING: BH-B

Project Name: Hall Property	Project Location: 1455 5th Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert Kitay, R.G.	Date Drilled: January 31, 2005	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 12'	Total Depth of Well Completed: NA
Static Depth of Water in Well: 12'	Well Screen Type and Diameter: NA
Total Depth of Boring: 16'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

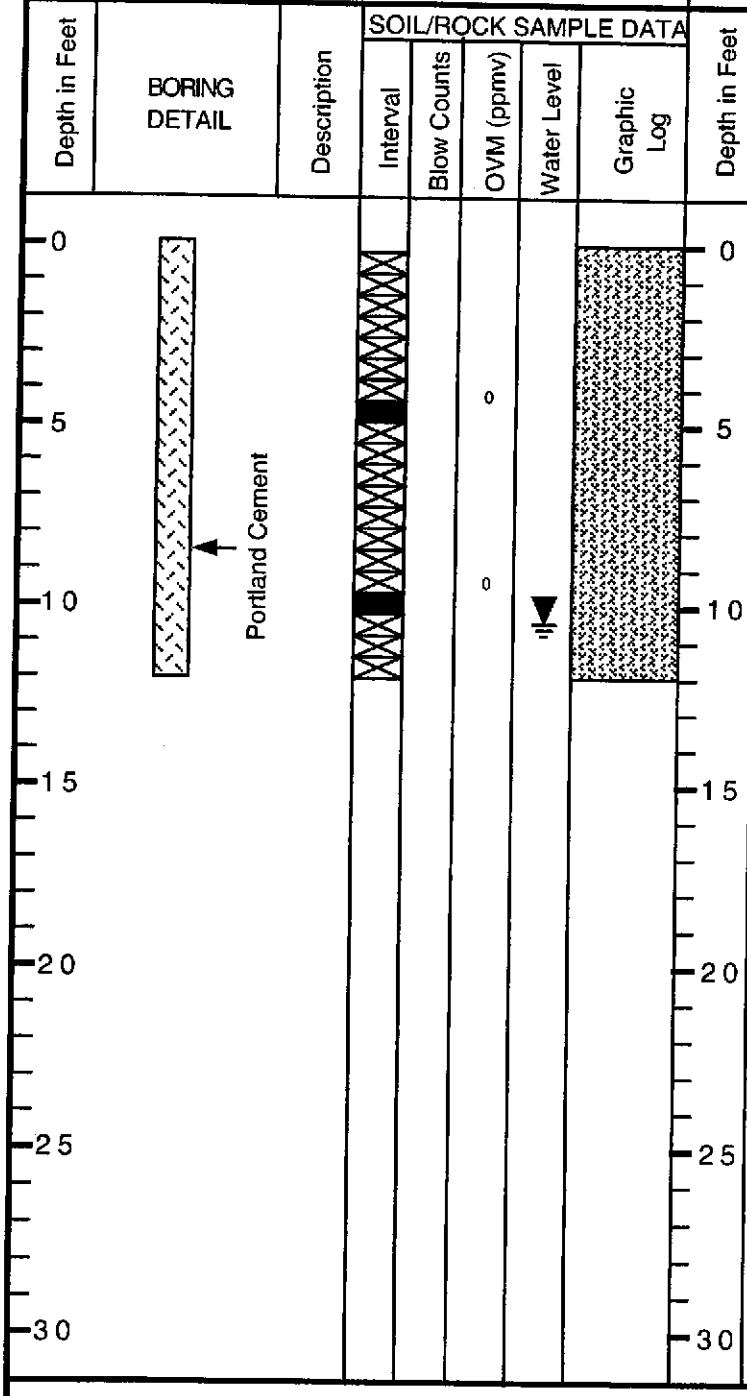


Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Gravelly SILT (ML); dark grey; medium stiff; damp; 60% silt; 25% subangular gravel to 1" diameter; 15% clay; low plasticity; low estimated K; no odor
5	Silty SAND (SM); dark yellow brown; loose; damp; 85-90% fine sand; 10-15% silt; non-plastic; medium estimated K; no odor
	moist at 6'
10	groundwater at 12'
15	End of Boring at 16'
20	
25	
30	

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: BH-C
Project Name: Hall Property	Project Location: 1455 5th Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert Kitay, R.G.	Date Drilled: January 31, 2005	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 10.5'	Total Depth of Well Completed: NA
Static Depth of Water in Well: 10.5'	Well Screen Type and Diameter: NA
Total Depth of Boring: 12'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Silty SAND (SM); dark yellow brown; loose; damp; 85-90% fine sand; 10-15% silt; non-plastic; medium estimated K; no odor
10	groundwater at 10.5'
	End of Boring at 12'

AQUA SCIENCE ENGINEERS, INC.

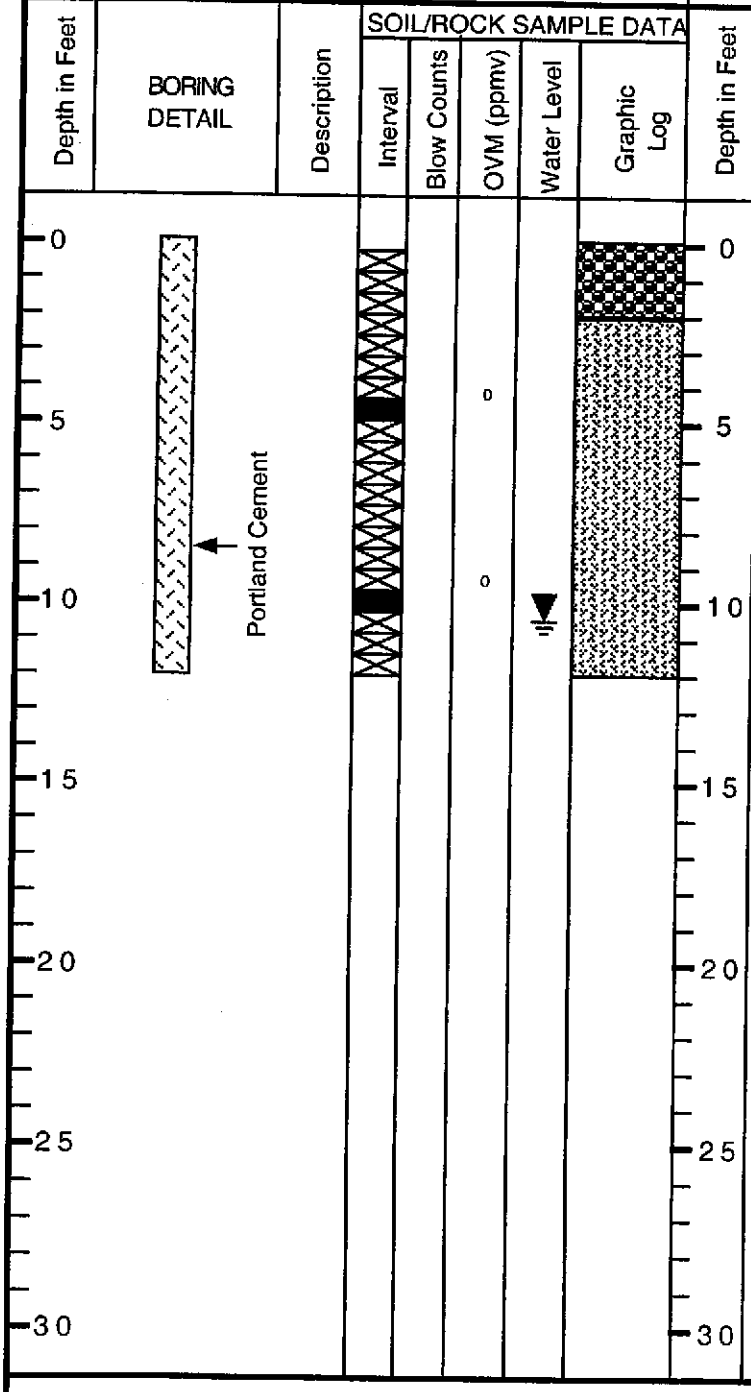
SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

BORING: BH-D

Project Name: Hall Property	Project Location: 1455 5th Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Robert Kitay, R.G.	Date Drilled: January 31, 2005	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 10.5'	Total Depth of Well Completed: NA
Static Depth of Water in Well: 10.5'	Well Screen Type and Diameter: NA
Total Depth of Boring: 12'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

Gravelly SILT (ML); dark grey; medium stiff; damp; 60% silt; 30% subangular gravel to 1" diameter; 10% clay; non-plastic; low estimated K; no odor

Silty SAND (SM); dark yellow brown; loose; damp; 85-90% fine sand; 10-15% silt; non-plastic; medium estimated K; no odor

moist at 6'

groundwater at 10.5'

End of Boring at 12'

AQUA SCIENCE ENGINEERS, INC.

APPENDIX C

Analytical Report and Chain of Custody Forms
For Soil and Groundwater Samples

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc. 208 West El Pintado Road Danville, CA 94526	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
	Client Contact: Robert Kitay	Date Reported: 02/08/05
	Client P.O.:	Date Completed: 02/08/05

WorkOrder: 0501421

February 08, 2005

Dear Robert:

Enclosed are:

1). the results of **8** analyzed samples from your **Hall Property project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05-02/03/05
	Client P.O.:	Date Analyzed: 01/31/05-02/03/05

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0501421

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
003A	BH-A 11.5'	S	ND	1	99
006A	BH-B 11.5'	S	ND	1	95
009A	BH-C 10.0'	S	ND	1	96
012A	BH-D 10.0'	S	ND	1	102
013D	BH-A	W	ND,i	1	106
014D	BH-B	W	57,b,i	1	106
015D	BH-C	W	ND,i	1	109
016D	BH-D	W	ND,i	1	97

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) results are reported by dry weight.

DHS Certification No. 1644

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/01/05-02/03/05

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3510C/SW3550C Analytical methods: SW8015C Work Order: 0501421

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0501421-003A	BH-A 11.5'	S	ND	ND	1	110
0501421-006A	BH-B 11.5'	S	ND	ND	1	111
0501421-009A	BH-C 10.0'	S	ND	ND	1	115
0501421-012A	BH-D 10.0'	S	ND	ND	1	112
0501421-013D	BH-A	W	ND,i	ND	1	108
0501421-014D	BH-B	W	ND,i	ND	1	120
0501421-015D	BH-C	W	ND,i	ND	1	109
0501421-016D	BH-D	W	ND,i	ND	1	101

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel (asphalt?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 01/31/05-02/01/05

Petroleum Oil & Grease with Silica Gel Clean-Up*

Analytical methods: SM5520B/F/SM5520E/F

Work Order: 0501421

Lab ID	Client ID	Matrix	POG	DF	% SS
0501421-003A	BH-A 11.5'	S	ND	1	N/A
0501421-006A	BH-B 11.5'	S	ND	1	N/A
0501421-009A	BH-C 10.0'	S	ND	1	N/A
0501421-012A	BH-D 10.0'	S	ND	1	N/A
0501421-013C	BH-A	W	ND,i	1	N/A
0501421-014C	BH-B	W	ND,i	1	N/A
0501421-015C	BH-C	W	ND,i	1	N/A
0501421-016C	BH-D	W	ND,i	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	5.0	mg/L
	S	50	mg/Kg

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor.

= surrogate diluted out of range.

g) sample extract repeatedly cleaned up with silica gel until constant IR result achieved; h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
208 West El Pintado Road	Client Contact: Robert Kitay	Date Extracted: 01/31/05
Danville, CA 94526	Client P.O.:	Date Analyzed: 02/01/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0501421

Lab ID	0501421-003A
Client ID	BH-A 11.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.025
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	96	%SS2:	99
%SS3:	96		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
208 West El Pintado Road	Client Contact: Robert Kitay	Date Extracted: 01/31/05
Danville, CA 94526	Client P.O.:	Date Analyzed: 02/01/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0501421

Lab ID	0501421-006A
Client ID	BH-B 11.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.025
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	97	%SS2:	96
%SS3:	97		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
208 West El Pintado Road	Client Contact: Robert Kitay	Date Extracted: 01/31/05
Danville, CA 94526	Client P.O.:	Date Analyzed: 02/01/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0501421

Lab ID	0501421-009A
Client ID	BH-C 10.0'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.025
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)			
%SS1:	91	%SS2:	96
%SS3:	101		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
208 West El Pintado Road	Client Contact: Robert Kitay	Date Extracted: 01/31/05
Danville, CA 94526	Client P.O.:	Date Analyzed: 02/01/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0501421

Lab ID	0501421-012A
Client ID	BH-D 10.0'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.025
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.005
1,2-Dibromoethane (EDB)	ND	1.0	0.005	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.005
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	ND	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	ND	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)			
%SS1:	99	%SS2:	97
%SS3:	102		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
208 West El Pintado Road	Client Contact: Robert Kitay	Date Extracted: 02/01/05
Danville, CA 94526	Client P.O.:	Date Analyzed: 02/01/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0501421

Lab ID	0501421-013A
Client ID	BH-A
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	10	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	0.69	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	4.5	1.0	0.5

Surrogate Recoveries (%)

%SS1:	106	%SS2:	102
%SS3:	86		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
208 West El Pintado Road	Client Contact: Robert Kitay	Date Extracted: 02/01/05
Danville, CA 94526	Client P.O.:	Date Analyzed: 02/01/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0501421

Lab ID	0501421-014A
Client ID	BH-B
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	22	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	2.7	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	0.92	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	16	1.0	0.5

Surrogate Recoveries (%)

%SS1:	106	%SS2:	102
%SS3:	88		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
208 West El Pintado Road	Client Contact: Robert Kitay	Date Extracted: 02/01/05
Danville, CA 94526	Client P.O.:	Date Analyzed: 02/01/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 0501421

Lab ID	0501421-015A
Client ID	BH-C
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	13	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	1.4	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	0.92	1.0	0.5

Surrogate Recoveries (%)

%SS1:	104	%SS2:	103
%SS3:	88		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
		Date Received: 01/31/05
208 West El Pintado Road	Client Contact: Robert Kitay	Date Extracted: 02/01/05
Danville, CA 94526	Client P.O.:	Date Analyzed: 02/01/05

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0501421

Lab ID	0501421-016A
Client ID	BH-D
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	6.0	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	0.61	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)			
%SS1:	108	%SS2:	102
%SS3:	87		

Comments: i

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/02/05

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0501421

Lab ID	0501421-003A
Client ID	BH-A 11.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	0.66
Bis (2-chloroethoxy) Methane	ND	1.0	0.33	Bis (2-chloroethyl) Ether	ND	1.0	0.33
Bis (2-chloroisopropyl) Ether	ND	1.0	0.33	Bis (2-ethylhexyl) Adipate	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	1.6
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	80	%SS2:	81
%SS3:	93	%SS4:	80
%SS5:	86	%SS6:	81

Comments:

* water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/02/05

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0501421

Lab ID	0501421-006A
Client ID	BH-B 11.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	0.66
Bis (2-chloroethoxy) Methane	ND	1.0	0.33	Bis (2-chloroethyl) Ether	ND	1.0	0.33
Bis (2-chloroisopropyl) Ether	ND	1.0	0.33	Bis (2-ethylhexyl) Adipate	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	1.6
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	77	%SS2:	81
%SS3:	83	%SS4:	82
%SS5:	84	%SS6:	77

Comments:

* water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/02/05

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0501421

Lab ID	0501421-009A
Client ID	BH-C 10.0'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	0.66
Bis (2-chloroethoxy) Methane	ND	1.0	0.33	Bis (2-chloroethyl) Ether	ND	1.0	0.33
Bis (2-chloroisopropyl) Ether	ND	1.0	0.33	Bis (2-ethylhexyl) Adipate	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	1.6
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	75	%SS2:	81
%SS3:	81	%SS4:	81
%SS5:	80	%SS6:	76

Comments:

* water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/03/05

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C | Analytical Method: SW8270D | Work Order: 0501421

Lab ID	0501421-012A
Client ID	BH-D 10.0'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	0.66
Bis (2-chloroethoxy) Methane	ND	1.0	0.33	Bis (2-chloroethyl) Ether	ND	1.0	0.33
Bis (2-chloroisopropyl) Ether	ND	1.0	0.33	Bis (2-ethylhexyl) Adipate	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	1.6
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	77	%SS2:	81
%SS3:	84	%SS4:	81
%SS5:	87	%SS6:	78

Comments:

* water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/02/05

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C Analytical Method: SW8270D Work Order: 0501421

Lab ID	0501421-013B
Client ID	BH-A
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Acetochlor	ND	1.0	10	Anthracene	ND	1.0	10
Benzidine	ND	1.0	50	Benzoic Acid	ND	1.0	50
Benzo(a)anthracene	ND	1.0	10	Benzo(b)fluoranthene	ND	1.0	10
Benzo(k)fluoranthene	ND	1.0	10	Benzo(g,h,i)perylene	ND	1.0	10
Benzo(a)pyrene	ND	1.0	10	Benzyl Alcohol	ND	1.0	20
Bis (2-chloroethoxy) Methane	ND	1.0	10	Bis (2-chloroethyl) Ether	ND	1.0	10
Bis (2-chloroisopropyl) Ether	ND	1.0	10	Bis (2-ethylhexyl) Adipate	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	Nitrobenzene	ND	1.0	50
2-Nitrophenol	ND	1.0	50	4-Nitrophenol	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	112	%SS2:	91
%SS3:	111	%SS4:	100
%SS5:	110	%SS6:	92

Comments: i

* water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/02/05

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270D | Work Order: 0501421

Lab ID	0501421-014B
Client ID	BH-B
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Acetochlor	ND	1.0	10	Anthracene	ND	1.0	10
Benzidine	ND	1.0	50	Benzoic Acid	ND	1.0	50
Benzo(a)anthracene	ND	1.0	10	Benzo(b)fluoranthene	ND	1.0	10
Benzo(k)fluoranthene	ND	1.0	10	Benzo(g,h,i)perylene	ND	1.0	10
Benzo(a)pyrene	ND	1.0	10	Benzyl Alcohol	ND	1.0	20
Bis (2-chloroethoxy) Methane	ND	1.0	10	Bis (2-chloroethyl) Ether	ND	1.0	10
Bis (2-chloroisopropyl) Ether	ND	1.0	10	Bis (2-ethylhexyl) Adipate	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	Nitrobenzene	ND	1.0	50
2-Nitrophenol	ND	1.0	50	4-Nitrophenol	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	117	%SS2:	93
%SS3:	118	%SS4:	109
%SS5:	102	%SS6:	115

Comments: i

* water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/02/05

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270D | Work Order: 0501421

Lab ID	0501421-015B
Client ID	BH-C
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Acetochlor	ND	1.0	10	Anthracene	ND	1.0	10
Benzidine	ND	1.0	50	Benzoic Acid	ND	1.0	50
Benzo(a)anthracene	ND	1.0	10	Benzo(b)fluoranthene	ND	1.0	10
Benzo(k)fluoranthene	ND	1.0	10	Benzo(g,h,i)perylene	ND	1.0	10
Benzo(a)pyrene	ND	1.0	10	Benzyl Alcohol	ND	1.0	20
Bis (2-chloroethoxy) Methane	ND	1.0	10	Bis (2-chloroethyl) Ether	ND	1.0	10
Bis (2-chloroisopropyl) Ether	ND	1.0	10	Bis (2-ethylhexyl) Adipate	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	Nitrobenzene	ND	1.0	50
2-Nitrophenol	ND	1.0	50	4-Nitrophenol	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	105	%SS2:	95
%SS3:	104	%SS4:	100
%SS5:	89	%SS6:	102

Comments: i

* water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

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Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/02/05

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270D | Work Order: 0501421

Lab ID	0501421-016B
Client ID	BH-D
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Acetochlor	ND	1.0	10	Anthracene	ND	1.0	10
Benzidine	ND	1.0	50	Benzoic Acid	ND	1.0	50
Benzo(a)anthracene	ND	1.0	10	Benzo(b)fluoranthene	ND	1.0	10
Benzo(k)fluoranthene	ND	1.0	10	Benzo(g,h,i)perylene	ND	1.0	10
Benzo(a)pyrene	ND	1.0	10	Benzyl Alcohol	ND	1.0	20
Bis (2-chloroethoxy) Methane	ND	1.0	10	Bis (2-chloroethyl) Ether	ND	1.0	10
Bis (2-chloroisopropyl) Ether	ND	1.0	10	Bis (2-ethylhexyl) Adipate	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	10	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo(a,h)anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	Nitrobenzene	ND	1.0	50
2-Nitrophenol	ND	1.0	50	4-Nitrophenol	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	109	%SS2:	97
%SS3:	108	%SS4:	101
%SS5:	98	%SS6:	103

Comments: i

* water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 02/01/05

CAM / CCR 17 Metals*

Lab ID	0501421-003A	0501421-006A	0501421-009A	0501421-012A	Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	BH-A 11.5'	BH-B 11.5'	BH-C 10.0'	BH-D 10.0'		
Matrix	S	S	S	S	S	W
Extraction Type	TTLC	TTLC	TTLC	TTLC	mg/Kg	mg/L

ICP-MS Metals, Concentration*

Analytical Method: 6020A Extraction Method: SW3050B Work Order: 0501421

Dilution Factor	1	1	1	1	1	1
Antimony	ND	ND	ND	ND	0.5	NA
Arsenic	2.4	2.3	2.8	3.5	0.5	NA
Barium	58	73	59	91	5.0	NA
Beryllium	ND	ND	ND	ND	0.5	NA
Cadmium	ND	ND	ND	ND	0.25	NA
Chromium	39	50	39	69	0.5	NA
Cobalt	4.9	4.7	5.3	5.6	0.5	NA
Copper	6.7	7.5	6.4	12	0.5	NA
Lead	2.5	2.6	2.4	4.1	0.5	NA
Mercury	ND	ND	ND	ND	0.05	NA
Molybdenum	ND	ND	ND	ND	0.5	NA
Nickel	32	35	32	56	0.5	NA
Selenium	ND	ND	ND	ND	0.5	NA
Silver	ND	ND	ND	ND	0.5	NA
Thallium	ND	ND	ND	ND	0.5	NA
Vanadium	30	32	32	45	0.5	NA
Zinc	20	29	22	29	5.0	NA
%SS:	97	100	100	100		

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digiested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narative.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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Aqua Science Engineers, Inc.	Client Project ID: Hall Property	Date Sampled: 01/31/05
208 West El Pintado Road		Date Received: 01/31/05
Danville, CA 94526	Client Contact: Robert Kitay	Date Extracted: 01/31/05
	Client P.O.:	Date Analyzed: 01/31/05-02/01/05

CAM / CCR 17 Metals*

Lab ID	0501421-013E	0501421-014E	0501421-015E	0501421-016E	Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	BH-A	BH-B	BH-C	BH-D		
Matrix	W	W	W	W	S	W
Extraction Type	DISS.	DISS.	DISS.	DISS.	mg/kg	µg/L

ICP-MS Metals, Concentration*

Analytical Method: E200.8 Extraction Method: E200.8 Work Order: 0501421

Dilution Factor	1	1	1	1	1	1
Antimony	ND	ND	ND	ND	NA	0.5
Arsenic	ND	ND	ND	ND	NA	0.5
Barium	81	35	43	30	NA	5.0
Beryllium	ND	ND	ND	ND	NA	0.5
Cadmium	ND	ND	ND	ND	NA	0.25
Chromium	ND	ND	ND	ND	NA	0.5
Cobalt	5.4	2.7	4.4	5.1	NA	0.5
Copper	0.61	1.9	ND	ND	NA	0.5
Lead	ND	ND	ND	ND	NA	0.5
Mercury	ND	ND	ND	ND	NA	0.05
Molybdenum	18	10	19	16	NA	0.5
Nickel	9.1	4.7	7.1	11	NA	0.5
Selenium	ND	ND	4.3	ND	NA	0.5
Silver	ND	ND	ND	ND	NA	0.5
Thallium	ND	ND	ND	ND	NA	0.5
Vanadium	0.56	0.57	0.60	ND	NA	0.5
Zinc	ND	ND	ND	ND	NA	5.0
%SS:	N/A	N/A	N/A	N/A		
Comments	i	i	i	i		

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digiested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narative.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0501421

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 14863 Spiked Sample ID: 0501417-001A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) £	ND	0.60	82.7	80.9	2.21	95.6	96.5	0.940	70 - 130	70 - 130
MTBE	ND	0.10	82	88.7	7.83	86.3	91.8	6.14	70 - 130	70 - 130
Benzene	ND	0.10	85.6	90.8	5.80	100	108	7.13	70 - 130	70 - 130
Toluene	ND	0.10	85	89.7	5.38	100	107	7.03	70 - 130	70 - 130
Ethylbenzene	ND	0.10	87.6	92.3	5.23	104	112	7.23	70 - 130	70 - 130
Xylenes	ND	0.30	89.3	94	5.09	103	113	9.23	70 - 130	70 - 130
%SS:	90	0.10	88	100	13.2	101	99	2.10	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0501421

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 14868 Spiked Sample ID: 0502001-001A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	86.7	83.1	4.28	82	83.7	2.11	70 - 130	70 - 130
MTBE	ND	10	87	85.7	1.53	80.5	82.4	2.38	70 - 130	70 - 130
Benzene	ND	10	91.2	92.4	1.32	86.3	90.9	5.18	70 - 130	70 - 130
Toluene	ND	10	91.4	91.7	0.325	86.3	90.3	4.61	70 - 130	70 - 130
Ethylbenzene	ND	10	92.5	92.9	0.533	87.7	91.9	4.70	70 - 130	70 - 130
Xylenes	ND	30	93.7	94	0.355	89.3	94	5.09	70 - 130	70 - 130
%SS:	118	10	106	105	0.710	100	102	1.79	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0501421

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 14860 Spiked Sample ID: 0501419-001B

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) £	ND	60	83.8	82	2.10	108	105	3.10	70 - 130	70 - 130
MTBE	ND	10	87.5	86.9	0.757	92.2	86.6	6.25	70 - 130	70 - 130
Benzene	ND	10	100	87.2	13.7	112	107	3.96	70 - 130	70 - 130
Toluene	ND	10	99	86.5	13.5	110	106	3.98	70 - 130	70 - 130
Ethylbenzene	ND	10	98.6	88.8	10.4	117	112	4.10	70 - 130	70 - 130
Xylenes	ND	30	99	89.7	9.89	120	113	5.71	70 - 130	70 - 130
%SS:	111	10	107	103	4.11	92	92	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0501421

EPA Method: SW8015C Extraction: SW3550C BatchID: 14867 Spiked Sample ID: 0501421-006A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	ND	150	98.8	96.4	2.51	99.1	98.6	0.452	70 - 130	70 - 130
%SS:	111	50	104	101	2.95	105	104	0.707	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0501421

EPA Method: SW8015C Extraction: SW3550C BatchID: 14862 Spiked Sample ID: 0501413-016A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	13	150	100	101	1.09	88	87.9	0.172	70 - 130	70 - 130
%SS:	102	50	108	109	1.23	93	95	2.04	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

LR QA/QC Officer

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0501421

EPA Method: SW8015C Extraction: SW3510C BatchID: 14858 Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	7500	N/A	N/A	N/A	103	109	5.68	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	105	110	4.54	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

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QC SUMMARY REPORT FOR SM5520E/F

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0501421

EPA Method: SM5520E/F Extraction: PR5520_SG_S BatchID: 14852 Spiked Sample ID: 0501395-002A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
POG	170	100	NR	NR	NR	92	91	1.09	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

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QC SUMMARY REPORT FOR SM5520B/F

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0501421

EPA Method: SM5520B/F Extraction: PRHEM-SGT_W BatchID: 14837 Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
POG	N/A	100	N/A	N/A	N/A	96	97	1.04	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0501421

EPA Method: SW8260B Extraction: SW5030B BatchID: 14864 Spiked Sample ID: 0501413-016A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	0.050	96.7	91.9	5.10	92.8	102	9.41	70 - 130	70 - 130
Benzene	ND	0.050	110	104	6.04	105	110	4.84	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	0.25	102	98.9	3.39	101	101	0	70 - 130	70 - 130
Chlorobenzene	ND	0.050	102	97.5	4.62	98.8	103	4.36	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	0.050	116	114	2.08	113	117	3.51	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	0.050	110	106	3.76	105	109	3.74	70 - 130	70 - 130
1,1-Dichloroethene	ND	0.050	114	109	4.37	111	118	6.39	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	0.050	110	105	4.51	104	108	3.99	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	0.050	110	106	4.53	106	109	3.00	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	0.050	107	104	3.23	104	107	3.04	70 - 130	70 - 130
Toluene	ND	0.050	101	96.1	5.42	97.8	102	4.27	70 - 130	70 - 130
Trichloroethene	ND	0.050	97.8	94.2	3.82	95.1	99.5	4.48	70 - 130	70 - 130
%SS1:	87	0.050	104	104	0	105	104	0.405	70 - 130	70 - 130
%SS2:	97	0.050	95	96	0.929	96	96	0	70 - 130	70 - 130
%SS3:	91	0.050	98	100	1.19	98	99	0.475	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0501421

EPA Method: SW8260B Extraction: SW5030B BatchID: 14861 Spiked Sample ID: 0501420-004C

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	95.5	95.1	0.425	97.1	93.6	3.69	70 - 130	70 - 130
Benzene	ND	10	111	111	0	111	110	0.860	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	101	99.2	1.90	97.4	95.8	1.66	70 - 130	70 - 130
Chlorobenzene	ND	10	103	102	0.622	103	102	0.721	70 - 130	70 - 130
1,2-Dibromoethane (EDB)	ND	10	120	117	2.43	118	114	3.50	70 - 130	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	113	111	1.48	112	110	2.56	70 - 130	70 - 130
1,1-Dichloroethene	ND	10	116	116	0	117	115	2.22	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	109	109	0	110	108	1.51	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	110	109	0.664	110	108	2.22	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	107	105	1.40	109	104	4.78	70 - 130	70 - 130
Toluene	ND	10	103	103	0	102	102	0	70 - 130	70 - 130
Trichloroethene	ND	10	99	99.7	0.687	100	98.8	1.38	70 - 130	70 - 130
%SS1:	107	10	105	104	0.369	106	105	1.10	70 - 130	70 - 130
%SS2:	97	10	96	95	0.625	95	95	0	70 - 130	70 - 130
%SS3:	103	10	101	102	0.143	100	100	0	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8270D

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0501421

EPA Method: SW8270D Extraction: SW3550C BatchID: 14801 Spiked Sample ID: 0501421-003A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Acenaphthene	ND	2	82.6	83.9	1.66	74.8	73.2	2.23	30 - 130	30 - 130
4-Chloro-3-methylphenol	ND	4	84.6	81.8	3.46	78.3	74.7	4.73	30 - 130	30 - 130
2-Chlorophenol	ND	4	81.9	82.4	0.651	85.5	85.8	0.333	30 - 130	30 - 130
1,4-Dichlorobenzene	ND	2	83.6	85.1	1.78	83.9	85.2	1.51	30 - 130	30 - 130
2,4-Dinitrotoluene	ND	2	85.1	83.5	1.92	71.3	72	0.935	30 - 130	30 - 130
4-Nitrophenol	ND	4	83.7	82.9	0.906	80.7	75	7.40	30 - 130	30 - 130
N-Nitrosodi-n-propylamine	ND	2	92.5	94.9	2.55	89.2	87	2.45	30 - 130	30 - 130
Pentachlorophenol	ND	4	83.9	83	1.07	75.8	71.9	5.23	30 - 130	30 - 130
Phenol	ND	4	82.1	82.2	0.201	86.3	86.5	0.278	30 - 130	30 - 130
Pyrene	ND	2	82	80.7	1.54	75	73.4	2.16	30 - 130	30 - 130
1,2,4-Trichlorobenzene	ND	2	82.1	82.8	0.922	74.6	72.7	2.62	30 - 130	30 - 130
%SS1:	80	200	89	92	2.68	86	84	2.84	30 - 130	30 - 130
%SS2:	81	200	86	92	7.22	101	94	7.59	30 - 130	30 - 130
%SS3:	93	200	88	89	1.16	84	84	0	30 - 130	30 - 130
%SS4:	80	200	94	92	2.61	91	92	1.90	30 - 130	30 - 130
%SS5:	86	200	85	89	3.74	91	85	7.35	30 - 130	30 - 130
%SS6:	81	200	93	90	3.31	85	82	3.25	30 - 130	30 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

& = low or no recovery of surrogate or target analytes due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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QC SUMMARY REPORT FOR SW8270D

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0501421

EPA Method: SW8270D Extraction: SW3510C BatchID: 14804 Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Acenaphthene	N/A	50	N/A	N/A	N/A	81.5	82.1	0.709	N/A	30 - 130
4-Chloro-3-methylphenol	N/A	100	N/A	N/A	N/A	81.5	82.1	0.709	N/A	30 - 130
2-Chlorophenol	N/A	100	N/A	N/A	N/A	94.1	89.5	4.98	N/A	30 - 130
1,4-Dichlorobenzene	N/A	50	N/A	N/A	N/A	91.1	90	1.30	N/A	30 - 130
2,4-Dinitrotoluene	N/A	50	N/A	N/A	N/A	75.6	75	0.863	N/A	30 - 130
4-Nitrophenol	N/A	100	N/A	N/A	N/A	86.5	82.6	4.60	N/A	30 - 130
N-Nitrosodi-n-propylamine	N/A	50	N/A	N/A	N/A	113	115	1.58	N/A	30 - 130
Pentachlorophenol	N/A	100	N/A	N/A	N/A	78.6	74.9	4.87	N/A	30 - 130
Phenol	N/A	100	N/A	N/A	N/A	86	87.8	2.09	N/A	30 - 130
Pyrene	N/A	50	N/A	N/A	N/A	80.8	80.9	0.210	N/A	30 - 130
1,2,4-Trichlorobenzene	N/A	50	N/A	N/A	N/A	78.3	78.4	0.166	N/A	30 - 130
%SS1:	N/A	5000	N/A	N/A	N/A	81	81	0	N/A	30 - 130
%SS2:	N/A	5000	N/A	N/A	N/A	99	93	5.35	N/A	30 - 130
%SS3:	N/A	5000	N/A	N/A	N/A	82	84	1.88	N/A	30 - 130
%SS4:	N/A	5000	N/A	N/A	N/A	92	92	0	N/A	30 - 130
%SS5:	N/A	5000	N/A	N/A	N/A	88	88	0	N/A	30 - 130
%SS6:	N/A	5000	N/A	N/A	N/A	80	80	0	N/A	30 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0501421

EPA Method: 6020A Extraction: SW3050B BatchID: 14836 Spiked Sample ID: 0501366-024A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Antimony	ND	50	106	108	2.65	96.9	99.4	2.51	75 - 125	85 - 115
Arsenic	6.0	50	95.9	97.9	1.82	94.8	96.8	2.07	75 - 125	85 - 115
Barium	130	50	NR	NR	NR	99	102	2.75	75 - 125	85 - 115
Beryllium	ND	50	104	109	4.59	99.1	99.1	0	75 - 125	85 - 115
Cadmium	ND	50	105	107	2.56	97.4	100	2.89	75 - 125	85 - 115
Chromium	110	50	NR	NR	NR	99.8	101	1.33	75 - 125	85 - 115
Cobalt	13	50	98.7	101	2.13	101	101	0	75 - 125	85 - 115
Copper	19	50	93.4	96	1.94	94.5	96	1.57	75 - 125	85 - 115
Lead	3.7	50	105	106	1.65	97.5	98	0.491	75 - 125	85 - 115
Mercury	0.21	0.25	84	88	2.35	88	88	0	75 - 125	85 - 115
Molybdenum	ND	50	95.7	98.4	2.82	94.4	96.1	1.81	75 - 125	85 - 115
Nickel	130	50	NR	NR	NR	95.7	97.5	1.88	75 - 125	85 - 115
Selenium	ND	50	100	109	8.59	104	105	0.860	75 - 125	85 - 115
Silver	ND	5	86.6	88.6	2.28	94	96.8	2.94	75 - 125	85 - 115
Thallium	ND	50	102	106	3.54	100	102	1.76	75 - 125	85 - 115
Vanadium	57	50	NR	NR	NR	98.2	99.2	1.01	75 - 125	85 - 115
Zinc	59	50	NR	NR	NR	95.1	97.2	2.16	75 - 125	85 - 115
%SS:	112	250	111	113	1.32	102	106	3.47	80 - 120	80 - 120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0501421

EPA Method: E200.8 Extraction: E200.8 BatchID: 14859 Spiked Sample ID: 0501411-007C

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Antimony	0.060	50	105	105	0	104	103	1.24	75 - 125	85 - 115
Arsenic	2.0	50	101	102	0.360	98.5	99.6	1.07	75 - 125	85 - 115
Barium	700	50	NR	NR	NR	104	104	0	75 - 125	85 - 115
Beryllium	0.40	50	104	112	7.09	103	104	0.386	75 - 125	85 - 115
Cadmium	0.39	50	103	105	2.60	104	103	0.580	75 - 125	85 - 115
Chromium	17	50	95.9	108	8.64	104	106	1.81	75 - 125	85 - 115
Cobalt	2.4	50	96.3	99.8	3.42	104	104	0	75 - 125	85 - 115
Copper	6.0	50	98.1	98.6	0.435	99.5	100	0.761	75 - 125	85 - 115
Lead	2.3	50	103	106	2.09	102	101	0.335	75 - 125	85 - 115
Mercury	0.16	0.25	96	92	2.53	92	92	0	75 - 125	85 - 115
Molybdenum	0.020	50	103	102	0.508	99	98.5	0.466	75 - 125	85 - 115
Nickel	52	50	91.9	96.2	2.17	100	101	0.716	75 - 125	85 - 115
Selenium	0.15	50	103	105	2.02	107	112	5.06	75 - 125	85 - 115
Silver	0.010	5	77.8	79	1.53	101	101	0	75 - 125	85 - 115
Thallium	ND	50	104	108	3.42	101	103	1.47	75 - 125	85 - 115
Vanadium	16	50	98.5	103	3.67	103	104	1.20	75 - 125	85 - 115
Zinc	44	50	102	106	2.24	103	102	0.527	75 - 125	85 - 115

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.
110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0501421 **ClientID: ASED**

Report to:
Robert Kitay
Aqua Science Engineers, Inc.
208 West El Pintado Road
Danville, CA 94526
TEL: (925) 820-9391
FAX: (925) 837-4853
ProjectNo: Hall Property
PO:

Bill to:
Accounts Payable
Aqua Science Engineers, Inc.
208 West El Pintado Road
Danville, CA 94526

Requested TAT: 5 days
Date Received: 01/31/2005
Date Printed: 01/31/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0501421-003	BH-A 11.5'	Soil	1/31/05 9:51:00 AM	☐		A	A		A			A	A						
0501421-006	BH-B 11.5'	Soil	1/31/05 11:00:00	☐		A	A		A			A	A						
0501421-009	BH-C 10.0'	Soil	1/31/05 12:05:00	☐		A	A		A			A	A						
0501421-012	BH-D 10.0'	Soil	1/31/05 1:15:00 PM	☐		A	A		A			A	A						
0501421-013	BH-A	Water	1/31/05 10:20:00	☐	C			A		B	E			D					
0501421-014	BH-B	Water	1/31/05 11:25:00	☐	C			A		B	E			D					
0501421-015	BH-C	Water	1/31/05 12:30:00	☐	C			A		B	E			D					
0501421-016	BH-D	Water	1/31/05 1:46:00 PM	☐	C			A		B	E			D					

Test Legend:

1	5520B_SG_W	2	5520E_SG_S	3	8260B_S	4	8260B_W	5	8270D_S
6	8270D_W	7	CAM17(D)MS_W	8	CAM17MS_S	9	G-MBTEX_S	10	G-MBTEX_W
11		12		13		14		15	

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

aseet

Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

0501421

PAGE 1 OF 2

SAMPLER (SIGNATURE): Robert C. Kitty

PROJECT NAME: Hall Property — JOB NO.:

ADDRESS: 1455 5th Street, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS: Filter on preserved water for dissolved metals upon receipt

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240 (8260))	SEMI-VOLATILE ORGANICS (EPA 625 (8270))	OIL & GREASE (EPA 5520) w/ Silica gel cleanup	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	Multi-Range w/ Hydrocarbons			HOLD
BH-A 4.0'	1-31-05	9:40	Soil	1																	
BH-A 7.5'		9:45																			X
BH-A 11.5'		9:51							X	X	X		X								X
BH-B 4.0'		10:47																X			
BH-B 7.5'		10:51																			X
BH-B 11.5'		11:00																			X
BH-C 5.0'		11:55							X	X	X		X					X			
BH-C 7.5'		11:58																			X
BH-C 10.0'		12:03																			X
BH-D 4.0'		13:10							X	X	X		X					X			
BH-D 7.5'	↓	13:15	↓	↓																	X

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
(signature) Robert C. Kitty 16:40 (time)	(signature) MCValles 16:40 (time)	(signature) (time)	(signature) (time)	
(printed name) Robert E. Kitty 1-31-05 (date)	(printed name) Mel Valles 1/31 (date)	(printed name) (date)	(printed name) (date)	
Company- ASE	Company- MA.	Company-	Company-	

ICE/
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
PRESERVATION

APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

VOAS	O&G	METALS	OTHER

TURN AROUND TIME

STANDARD | 24Hr | 48Hr | 72Hr

OTHER:

asec

Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

0501421

Chain of Custody

PAGE 2 OF 2

SAMPLER (SIGNATURE)

PROJECT NAME Hall Property JOB NO.

ADDRESS 1455 5th Street, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
Filter and preserve water for dissolved metals upon receipt

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520) w/Silica gel cleanup	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	Multi-Range hydrocarbons	Dissolved CAM-17 Metals		HOLD
BH-D 10.0'	1-31-05	13:15	Soil	1					X	X	X		X					X			
+5 BH-A	1-31-05	10:20	Water	8					X	X	X							X	X		
+50 BH-B	↓	11:25	↓	8					X	X	X							X	X		
+30 BH-C		12:30		8					X	X	X							X	X		
+15 BH-D		13:45		8					X	X	X							X	X		

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
(signature) (time) 16:46	(signature) (time) 16:40	(signature) (time)	(signature) (time)	
(printed name) (date) 1-31-05	(printed name) (date) Meli Valles 1/31	(printed name) (date)	(printed name) (date)	
Company- ASE	Company- NAI	Company-	Company-	TURN AROUND TIME: STANDARD 24Hr 48Hr 72Hr OTHER: