CO-114

aqua science engineers inc.

September 13, 2002

REPORT
of
SOIL AND GROUNDWATER ASSESSMENT
ASE JOB NO. 3515
at
J&A Truck Repair Property
2221 Union Street
Oakland, California

Submitted by:
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1.0 INTRODUCTION

This report presents Aqua Science Engineers, Inc. (ASE)'s methods and findings for a soil and groundwater assessment at 2221 Union Street in Oakland, California (Figure 1). The site assessment activities were designed to further delineate the area of volatile organic compound (VOC) contamination in soil and groundwater previously identified in soil borings and monitoring wells at the site (Figure 2). This report was prepared on behalf of our client and the current property owner, J&A Truck Repair, in response to the Alameda County Health Care Services Agency (ACHCSA) letter dated May 6, 2002 (Appendix A).

2.0 BACKGROUND INFORMATION

The site is comprised of two buildings, a concrete-surfaced yard and a dirt lot. It is currently owned by J&A Truck Repair for truck parts warehousing and repair. Previously, the site was the home of California Brake and Clutch. A Phase I Environmental Site Assessment prepared for the site identified a surface water drain located in the exterior yard area (Figure 2). The Phase I suggested drilling a soil boring near the drain for the collection of soil samples.

2.1 June 1999 Hand Auger Drilling

On June 22, 1999, ASE removed the dirt and debris from the bottom of the drain, cored through the concrete bottom of the drain, and using a hand auger, drilled soil boring BH-A to a depth of 3-feet below the bottom of the drain (Figure 2). Soil samples BH-A @ 1' and BH-A @ 3' were collected from the boring. Soil sample BH-A @ 1' was analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D) by EPA Method 8015M, benzene, toluene, ethylbenzene, and total xylenes (collectively known as BTEX) by EPA Method 8020, methyl tertiary butyl ether (MTBE) by EPA Method 8020, oil and grease by Standard Method 5520E, halogenated volatile organic compounds (HVOCs) by EPA Method 8010, and the LUFT five metals by EPA Method 6010. The only compound identified in the soil above action levels was tetrachloroethene (PCE) at 390 parts per million (ppm). Soil sample BH-A @ 3' was placed on hold at the laboratory. It was not subsequently analyzed because it was saturated, and had the same appearance and odor as the 1' sample.

2.2 July 1999 Geoprobe Assessment

On July 12, 1999, ASE drilled six (6) soil borings at the site using a Geoprobe in an effort to delineate the extent of HVOCs in soil and groundwater. Four of the borings were placed near the outdoor drain. Two of the borings were drilled inside one of the buildings at the location of two former parts cleaning bins that used methyl-ethyl-ketone (MEK) as a cleaning solvent (Figure 2). Up to 53 parts per billion (ppb) PCE were identified in soil samples collected from borings BH-B and BH-C, near the former outdoor drain. Up to 230 ppb trichloroethene (TCE) and 17 ppb cis-1,2-dichloroethene (cis-1,2-DCE) were detected in soil samples collected from boring BH-C. None of the samples collected from the remaining soil borings contained detectable concentrations of any of the VOCs analyzed.

Grab water samples were collected from all seven of the borings. Detectable HVOC concentrations were identified in all water samples except from boring BH-G. Water samples from boring BH-A had the most significant concentrations: 1,300 ppb PCE, 1,500 ppb TCE, and 190 ppb cis-1,2-DCE. The remaining compounds and concentrations were as follows: 42 ppb PCE in boring BH-E; 170 ppb TCE in boring BH-B; 130 ppb cis-1,2-DCE in boring BH-B; 21 ppb trans-1,2-DCE in boring BH-B; and 11 ppb 1,1-DCE in boring BH-F. For complete details regarding the Geoprobe assessment activities, see the ASE report dated July 28, 1999.

2.3 August 1999 Oil/Water Separator Identification

An unidentified underground pipe was noted exiting the outdoor drain. A request was made by Ms. Eva Chu of the ACHCSA to identify the endpoint of this pipe. On August 13, 1999, ASE subcontracted Subtronic Corporation to identify the pipe's path underground. An oil/water separator was identified approximately 15-feet northwest of the outdoor drain. The separator measured 4-feet square and approximately 3-feet deep. The underground piping connected the two units. An exit pipe was noted leaving the separator to the west and exiting the property underground, likely into a storm sewer pipe.

2.4 August 1999 Soil Borings and Well Installation

On August 27, 1999, ASE drilled soil borings MW-1, MW-2, and MW-3 at the site (Figure 2). Groundwater monitoring wells MW-1, MW-2, and MW-3 were subsequently constructed in their respective borings.

The soil sample collected from soil boring MW-1 contained 18 ppb TCE and 180 ppb PCE. The soil sample collected from soil boring MW-2 contained 31 ppb PCE. The soil sample collected from soil boring MW-3 contained no HVOCs above the laboratory reporting limits.

The groundwater sample collected from monitoring well MW-1 contained 3.9 ppb cis-1,2-DCE, 58 ppb 1,1-DCA, 3.2 ppb TCE, and 9.9 ppb PCE. The groundwater sample collected from monitoring well MW-2 contained 1.7 ppb cis-1,2-DCE, 4.5 ppb TCE, and 48 ppb PCE. The groundwater sample collected from monitoring well MW-3 contained 34 ppb cis-1,2-DCE, 22 ppb 1,2-DCA, 21 ppb TCE, and 38 ppb PCE. No other HVOCs were detected in any of the groundwater samples analyzed above the laboratory reporting limits. For complete details regarding the monitoring well installation activities, see the ASE report dated September 27, 1999.

2.5 October 1999 Soil Boring and Well Installation

Using the three monitoring wells described in Section 2.4 above, the groundwater flow direction was found to have a flow component toward the west. Because there was no monitoring well installed west of the outdoor drain, a fourth well was required. On October 27, 1999, ASE installed groundwater monitoring well MW-4 at the site. No HVOCs were detected in the soil sample collected from boring MW-4. The groundwater sample collected from monitoring well MW-4 contained 0.68 ppb PCE, 0.74 ppb TCE, 14 ppb 1,1-DCA, 21 ppb cis-1,2-DCE, 2.7 ppb 1,1-DCE, 2.1 ppb 1,2-DCA, 12 ppb chloroethane, and 6.4 ppb vinyl chloride. For complete details regarding the installation of monitoring well MW-4, see the ASE report dated November 22, 1999.

2.6 November 1999 Soil Excavation, Backfilling and Offhaul

On November 15, 1999, ASE removed a 10-foot by 10-foot by 6.5-foot deep section of contaminated soil from below and around the yard drain (Figure 2). An organic vapor meter (OVM) was used to delineate the excavation boundaries. Approximately 24 cubic yards of soil were excavated and stockpiled on site.

Four confirmation soil samples were collected from the sidewall bottom interface of the four-sided excavation. A composite soil sample was collected from the stockpiled soil. No HVOC concentrations were detected in any of the confirmation soil samples. The stockpiled soil sample contained 180 ppb PCE and 14 ppb TCE.

On November 18, 1999, the excavation was backfilled with imported material and resurfaced with concrete to match the existing surface.

On December 10, 1999, the stockpiled soil was removed from the site and deposited at the Forward, Inc. Landfill in Manteca, California. The stockpile contained 36.90 tons of soil.

For complete details regarding this portion of the project, see the ASE report dated November 30, 1999 and the Soil Off-haul letter dated December 15, 1999.

2.7 Groundwater Monitoring Well Sampling Events

Since their installation, monitoring wells MW-1, MW-2 and MW-3 were sampled six times between September 1999 and November 2000. Monitoring well MW-4 was sampled five times since November 1999 and November 2000. The depth to groundwater data and analytical results for these sampling events are tabulated in Tables One and Two.

No activities have been conducted at the site since November 2000.

3.0 SCOPE OF WORK (SOW)

ASE prepared the following original scope of work (SOW) to delineate the extent of VOC contamination in soil and groundwater on site and to determine if a regional VOC problem exists. ASE's specific SOW was as follows:

1) Prepare a workplan and site specific health and safety plan for approval by Ms. Eva Chu of the ACHCSA.

2) Obtain a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA). Obtain an excavation permit from the City of Oakland to allow for drilling in a public right-of-way. Call Underground Service Alert (USA) to have all public utilities in the area marked prior to drilling.

3) Using a Geoprobe hydraulic sampling rig, drill nine (9) soil borings to a depth of 10-feet below ground surface (bgs).

4) Collect soil samples continuously from each boring as drilling progresses for chemical analysis and hydrogeologic description. Screen the soil samples with a photoionization detector (PID) to

determine the depth of highest VOC concentrations in soil. Collect a grab groundwater sample from each boring.

5) Analyze one (1) soil and one (1) water sample from each soil boring at a CAL-EPA certified environmental laboratory for HVOCs by EPA Method 8010.

6) Backfill the borings with neat cement.

7) Prepare a report detailing the methods and findings of the investigation. The report will be submitted under the seal of a registered geologist or professional engineer.

Details of the assessment are presented below.

4.0 DRILL SOIL BORINGS AND COLLECT SAMPLES

4.1 Workplan Approval

ASE prepared a workplan for this project, dated June 26, 2002, which was subsequently approved by the ACHCSA in their letter dated July 2, 2002 (Appendix A). The approval letter requested that additional soil and groundwater samples be collected, and that an additional boring be drilled in Poplar Street, north of monitoring well MW-1. ASE discussed the scope of work with Ms. Eva Chu of the ACHCSA and added the additional boring and collected additional discrete depth soil and groundwater samples when possible.

4.2 Permits

Prior to drilling, ASE obtained a drilling permit from the ACPWA. ASE also obtained an excavation permit from the City of Oakland to allow for drilling in the city's right-of-way. Copies of these permits are presented in Appendix B. ASE also notified Underground Service Alert (USA) at least 48-hours prior to drilling to have underground utility lines marked in the site vicinity.

4.3 Drilling and Soil Sample Collection

On August 7 and 8, 2002, Vironex, Inc. of San Leandro, California drilled soil borings BH-H through BH-Q at the site using a Geoprobe hydraulic sampling rig (Figure 2). The drilling was directed by ASE associate geologist Erik Paddleford.

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 Severn Trent Laboratory (STL San Francisco) of Pleasanton, California (CA DHS ELAP #2496) 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 C.

4.4 Groundwater Sample Collection

Groundwater samples were collected from the borings using a Hydropunch. The Hydropunch was driven to the desired sample depth and the screen was opened to allow for groundwater to enter. Groundwater samples were collected from the first water encountered, and also from 20-feet bgs if water was encountered above this depth. The groundwater samples were contained in 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, and sealed without headspace. The samples were then labeled and chilled with ice for transport to STL San Francisco under chain of custody.

4.5 Decontamination and Borehole Backfilling

Drilling equipment was cleaned with a TSP 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.

4.6 Subsurface Lithology and Hydrogeology

Sediments encountered in off-site borings BH-H through BH-J, west of the site, consisted predominantly of silty sand and sandy silt from beneath the asphalt surface to the total depth explored of 20-feet bgs. In the on-site borings, lower permeability silty clay and clayey silt were prevalent below 6-feet bgs. Groundwater was encountered at approximately 14 to 17-feet bgs, although groundwater was encountered at much shallower depths (as shallow as 3-feet bgs) in borings BH-J, BH-L and BH-P. Boring logs are presented as Appendix C.

5.0 MONITORING WELL SAMPLING

On August 8, 2002, ASE geologist Erik Paddleford collected groundwater samples from all four site monitoring wells.

Prior to sampling, ASE measured and recorded the depth to groundwater in each monitoring well. Each groundwater monitoring well was then prepared for sampling by purging at least three well casing volumes of groundwater using a pre-cleaned, dedicated polyethylene bailer. The pH, temperature and conductivity of the purge water were monitored during evacuation, and samples were not collected until these parameters stabilized. Groundwater samples were collected from the wells using dedicated polyethylene bailers. Groundwater samples were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid, and capped without headspace. The samples were then labeled and placed in a cooler with wet ice for transport to STL San Francisco under appropriate chain-of-custody documentation. Well sampling field logs are presented in Appendix D.

Monitoring well purge water was placed in a 55-gallon steel drum and will be transported for disposal at a later date.

6.0 POTENTIOMETRIC SURFACE CONTOURS

On August 8, 2002, ASE measured and recorded the depth to groundwater in each monitoring well prior to purging water from any of the wells. Groundwater elevation data is tabulated in Table One, and groundwater elevation (potentiometric surface) contours are shown on Figure 3.

The groundwater flow direction on August 8, 2002 was to the north-northwest at a gradient of 0.036-feet/foot. The groundwater flow direction and gradient at this site has been highly variable.

7.0 ANALYTICAL RESULTS FOR SOIL

Where groundwater was encountered at depths deeper than 10-feet bgs, two soil samples collected from each boring were analyzed. When groundwater was encountered at depths less than 10-feet bgs, one soil sample was analyzed. The soil samples from each boring that appeared to be the most contaminated based on odors, staining, and/or PID readings were selected for analysis. All analyses were performed by STL San Francisco of Pleasanton, California, and all samples were analyzed for HVOCs by EPA Method 8021B. The analytical results are tabulated in Table Two, and the certified analytical report and chain of custody forms are included in Appendix E.

8.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples were analyzed by STL San Francisco for HVOCs by EPA Method 8021B. The analytical results are tabulated in Table Three, and the certified analytical report and chain of custody forms are included in Appendix E. Isoconcentration contour maps for 1,1-DCA, PCE and TCE are presented as Figures 4 through 6, respectively.

9.0 CONCLUSIONS

The only HVOC concentrations detected in soil samples collected from the borings were relatively low cis-1,2-DCE, TCE and PCE concentrations detected in soil samples collected from 4-feet bgs in borings BH-M, BH-N, BH-O and BH-Q. All of the concentrations detected were below Risk-Based Screening Levels (RBSLs) as presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated August 2000.

Groundwater concentrations may be compared to two different regulatory RBSLs, one for sites where groundwater is a current or potential source of drinking water and the other for sites where groundwater is not a potential source of drinking water. The RBSL for sites where groundwater is a current or potential source of drinking water takes into account all possible risks such as consumption of groundwater, direct exposure to contaminated soil or groundwater, nuisance odors, volatilization of contamination into buildings, etc. The RBSL for sites where groundwater is not a current or potential source of drinking water uses these same

criteria, except it eliminates the drinking water consumption parameter. Since groundwater is not used for drinking water in the City of Oakland, the RBSL for sites where groundwater is not current or potential source for drinking water is a better measure of risk, and this is the RBSL that will likely be used to determine whether remediation is necessary at the site. It is also the RBSL that would be used to determine whether a building can be placed over areas containing contamination. Although the RBSL for sites where groundwater is not a current or potential source of drinking water is a better gauge as to the actual risk that contamination may present to a site, the RWQCB will not currently close cases for sites with HVOC concentrations over the RBSL for sites where groundwater is a potential source of drinking water without long term monitoring data showing a decreasing trend in HVOC concentrations.

Detectable HVOC concentrations were detected in groundwater samples collected from all borings except BH-M. Concentrations of 1,1-DCA and/or 1,2-DCA were detected in water samples collected from borings BH-H, BH-I, BH-J, MW-3, and MW-4. All of these locations are on the west side of the property. The distribution of DCA compounds does not match the distribution of PCE, TCE and DCE, which extends from the former oil/water separator to the east. This suggests that the 1,1-DCA and 1,2-DCA compounds may be related to an off-site source, especially since the highest 1,1-DCA concentration detected, and the only 1,2-DCA concentration detected, were in off-site boring BH-I. The 1,1-DCA concentration in groundwater samples collected from boring BH-I exceeded the RBSL for sites where groundwater is not a current or potential source of drinking water. The 1,1-DCA concentrations in groundwater samples collected from boring BH-H and monitoring wells MW-3 and MW-4 exceeded the RBSL for sites where groundwater is a current or potential source of drinking water, but not for sites where groundwater is not a potential source of drinking water.

The only PCE concentration that exceeded the RBSL for sites where groundwater is not a current or potential source of drinking water was in the sample collected from 8-feet bgs in boring BH-O. However, the PCE concentration detected in the groundwater samples collected from 20-feet bgs in this boring did not exceed the RBSL for sites where groundwater is not a current or potential source of drinking water. Groundwater from several other borings contained PCE, TCE, cis-1,2-DCA and vinyl chloride at concentrations above RBSLs for sites where groundwater is a current or potential source of drinking water, but these concentrations were below the RBSLs for sites where groundwater is not a current or potential source of drinking water.

All of the HVOC concentrations in groundwater samples collected in borings to the east and northeast were below all RBSLs, indicating that the extent of HVOCs have been defined in that direction. In addition, no PCE, TCE , cis-1,2-DCE and vinyl chloride concentrations were detected in the borings to the west, suggesting that the extent of VOCs detected off-site to the west is limited and that the 1,1-DCA and 1,2-DCA detected off-site to the west are likely related to an off-site source. The extent of HVOCs has not been completely defined to the north or south; however, it will not be possible to further define the extent of HVOCs in these directions without drilling on neighboring private property. Given the HVOC concentrations near these property lines, it does not appear that any HVOC concentrations that may have traveled off-site would present a threat to human health or the environment.

10.0 RECOMMENDATIONS

Only two HVOC concentrations detected exceeded RBSLs for sites where groundwater is not a current or potential source of drinking water. One of these concentrations was 1,1-DCA in off-site boring BH-I, and based on the distribution of HVOCs at the site, it appears likely that this concentration is related to an off-site source.

The other HVOC concentration that exceeded RBSLs for sites where groundwater is not a current or potential source of drinking water was PCE in the groundwater sample collected from 8-feet bgs in boring BH-O. However, much lower concentrations were detected in groundwater samples collected from 20-feet bgs in this boring, indicating that the groundwater at 8-feet bgs is perched (likely in fill material) and will not present a significant threat to human health or the environment.

All of the remaining HVOC concentrations detected were below RBSLs for sites where groundwater is not a current or potential source of drinking water. This indicates that it is unlikely that any remediation will be required at the site. However, it is likely that continued groundwater monitoring will be required in order to establish a decreasing trend in HVOC concentrations or until the HVOC concentrations decrease to below the drinking water RBSL. The ACHCSA may also require an additional groundwater monitoring well near the location of boring BH-O.

11.0 REPORT LIMITATIONS

The results presented in 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-EPA 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 through 6
Tables One through Four
Appendices A through E

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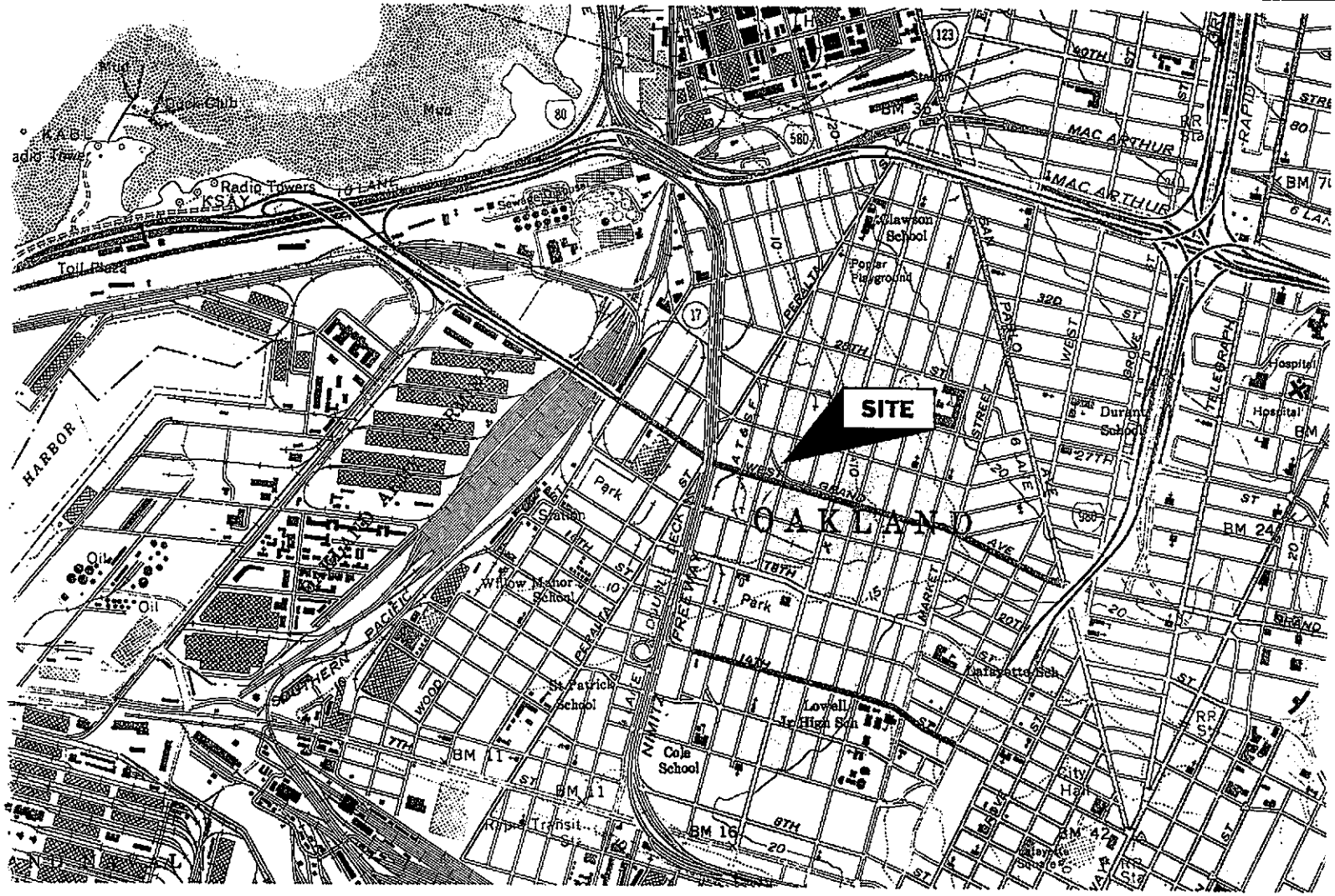
Ms. Eva Chu, Alameda County Health Care Services Agency, 1113 Harbor Bay Parkway, Suite 250, Alameda, CA, 94502

Mr. Chuck Headlee, California Regional Water Quality Control Board, San Francisco Bay Region, 1515 Clay St., Suite 1400, Oakland, CA 94612



LOCATION MAP

2221 Union Street
Oakland, California

AQUA SCIENCE ENGINEERS, INC. | Figure 1

NEIGHBORING PROPERTY

FENCED-IN,
DIRT SURFACE
YARD

BH-P

BH-Q

FENCE

BH-O

BUILDING

SIDEWALK

BH-H

OIL / WATER SEPARATOR

BH-N

BH-K

MW-1

BH-B

OUTDOOR DRAIN

BH-I

BH-G

BH-A

BH-C

MW-2

MW-4

BH-L

FENCE

BH-D

BH-M

POPLAR STREET

BH-J

MEZZANINE

BUILDING

SIDEWALK

UNION STREET

BH-F

MW-3

BH-E

PARTS CLEANING BINS

NEIGHBORING PROPERTY

SIDEWALK

LEGEND

BH-G ● Soil Boring

MW-4 ⊕ Monitoring Well

0 30 60 90

SCALE IN FEET

NORTH

BORING LOCATION MAP

J & A TRUCKING FACILITY
2221 UNION STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | FIGURE 2

NEIGHBORING PROPERTY

FENCED-IN, DIRT SURFACE YARD

BH-P

BH-Q

FENCE

10'

BH-O

BUILDING

SIDEWALK

BH-H

OIL / WATER SEPARATOR

BH-N

BH-K

MW-1 (9.06')

BH-B

BH-I

OUTDOOR DRAIN

BH-G

BH-C

MW-4 (8.88')

BH-A

MW-2 (9.34')

9'

BH-L

FENCE

BH-M

BH-P

ESTIMATED GROUNDWATER FLOW DIRECTION

BH-J

10'

MEZZANINE

BUILDING

11'

SIDEWALK

BH-K

MW-3 (11.64')

BH-E

PARTS CLEANING BING

POPLAR STREET

UNION STREET

NEIGHBORING PROPERTY

SIDEWALK

LEGEND

BH-G — Soil Boring

MW-4 — Monitoring Well

(8.88') — Groundwater elevation

Groundwater elevation contour

0 30 60 90

SCALE IN FEET

NORTH

POTENTIOMETRIC SURFACE MAP - AUGUST 8, 2002

J & A TRUCKING FACILITY
2221 UNION STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | FIGURE 3

NEIGHBORING PROPERTY

FENCED-IN,
DIRT SURFACE
YARD

BH-P
(0.76)

BH-Q
(0.99)

SIDEWALK

FENCE

1'

10'

BH-O
(< 2.5 @ 8')
(0.52 @ 20')

BUILDING

OIL / WATER SEPARATOR

BH-H
(30)

BH-N
(< 0.5)

BH-K
(< 0.5)

SIDEWALK

1'

MW-1
(< 5.0)

BH-B

OUTDOOR DRAIN

BH-I
(55)

BH-G

BH-A

BH-C

MW-4
(28)

MW-2
(< 0.5)

BH-L
(< 0.5 @ 4')
(< 0.5 @ 20')

FENCE

BH-M
(< 0.5)

BH-D

BH-J
(0.79)

MEZZANINE

BUILDING

1'

10'

BH-F

MW-3

BH-E (17)

PARTS CLEANING BINS

POPLAR STREET

UNION STREET

NEIGHBORING PROPERTY

SIDEWALK

LEGEND

BH-G — Soil Boring

MW-4 — Monitoring Well

(55) — 1,1-DCA concentration in ppb

1,1-DCA isoconcentration contour

0 30 60 90

SCALE IN FEET

NORTH

1,1-DCA ISOCONCENTRATION MAP - AUGUST 2002

J & A TRUCKING FACILITY
2221 UNION STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | FIGURE 4

NEIGHBORING PROPERTY

FENCED-IN, DIRT SURFACE YARD

BH-P (< 0.5)

BH-Q (2.5)

FENCE

1'

10'

100'

10'

1'

BH-O (150 @ 8') (29 @ 20')

BUILDING

SIDEWALK

OIL / WATER SEPARATOR

BH-H (< 0.5)

BH-N (42)

BH-K (< 0.5)

1'

MW-1 (78)

BH-B

OUTDOOR DRAIN

BH-I (< 0.5)

BH-G

BH-A

BH-C

MW-4 (19)

MW-2 (< 0.5)

BH-L (26 @ 4') (< 0.5 @ 20')

FENCE

BH-D

BH-M (< 0.5)

BH-J (< 0.5)

MEZZANINE

BUILDING

SIDEWALK

UNION STREET

POPLAR STREET

BH-F

MW-3 (58)

BH-E

1'

10'

10'

1'

PARTS CLEANING BINS

NEIGHBORING PROPERTY

SIDEWALK

LEGEND

BH-G ● Soil Boring

MW-4 ⊕ Monitoring Well

(58) PCE concentration in ppb

PCE isoconcentration contour

0 30 60 90

SCALE IN FEET

NORTH

PCE ISOCONCENTRATION MAP - AUGUST 2002

J & A TRUCKING FACILITY
2221 UNION STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | FIGURE 5

NEIGHBORING PROPERTY

FENCED-IN,
DIRT SURFACE
YARD

BH-P
(0.59)

BH-Q
(0.98)

SIDEWALK

FENCE

1'

10'

100'

10'

1'

BH-O
(230 @ 8')
(42 @ 20')

BUILDING

OIL / WATER SEPARATOR

BH-H
(< 0.5)

BH-N
(32)

BH-K
(< 0.5)

MW-1
(49)

BH-B

OUTDOOR DRAIN

BH-I
(< 0.5)

BH-G

BH-A

BH-C

MW-4
(12)

MW-2
(< 0.5)

BH-L
(3.9 @ 4')
(< 0.5 @ 20')

FENCE

BH-D

BH-M
(< 0.5)

BH-J
(< 0.5)

MEZZANINE

BUILDING

SIDEWALK

POPLAR STREET

UNION STREET

BH-F

MW-3
(19)

BH-E

1'

10'

PARTS CLEANING BINS

10'

1'

NEIGHBORING PROPERTY

SIDEWALK

LEGEND

BH-G ● Soil Boring

MW-4 ⊕ Monitoring Well

(12) TCE concentration in ppb

TCE isoconcentration contour

0 30 60 90

SCALE IN FEET

NORTH

TCE ISOCONCENTRATION MAP - AUGUST 2002

J & A TRUCKING FACILITY
2221 UNION STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | FIGURE 6

TABLE ONE

Groundwater Elevation Data

2221 Union Street, Oakland, California

WELL ID	DATE OF MEASUREMENT	TOP OF CASING ELEVATION IN FEET (MSL)	DEPTH TO WATER (feet)	GROUNDWATER ELEVATION IN FEET (MSL)
MW-1	9/2/99	15.00	8.81	6.19
	11/2/99		5.94	9.06
	11/4/99		7.15	7.85
	11/9/99		4.72	10.28
	2/7/00		3.55	11.45
	5/16/00		3.88	11.12
	8/8/00		5.79	9.21
	11/30/00		4.14	10.86
	8/8/02		**5.94**	**9.06**
MW-2	9/2/99	15.29	6.29	9.00
	11/2/99	15.24	6.01	9.23
	11/4/99		5.94	9.30
	11/9/99		5.28	9.96
	2/7/00		4.12	11.12
	5/16/00		4.24	11.00
	8/8/00		5.68	9.56
	11/30/00		4.78	10.46
	8/8/02		**5.90**	**9.34**
MW-3	9/2/99	15.15	6.26	8.89
	11/2/99	15.17	5.74	9.43
	11/4/99		6.09	9.08
	11/9/99		5.64	9.53
	2/7/00		3.06	12.11
	5/16/00		3.80	11.37
	8/8/00		3.54	11.63
	11/30/00		3.56	11.61
	8/8/02		**3.53**	**11.64**
MW-4	11/2/99	15.21	5.86	9.35
	11/4/99		5.85	9.36
	11/9/99		4.56	10.65
	2/7/00		3.66	11.55
	5/16/00		3.89	11.32
	8/8/00		5.77	9.44
	11/30/00		4.15	11.06
	8/8/02		**6.33**	**8.88**

TABLE TWO

Summary of Chemical Analysis of **Water Samples**
Volatile Organic Compounds
All results are in **parts per billion**

SAMPLE NAME	DATE	PCE	TCE	CIS 1,2-DCE	TRANS 1,2-DCE	1,1-DCA	1,1-DCE	1,2-DCA	CHLORO-ETHANE	VC	REMAINING VOCs
MW-1	9/2/99	9.9	3.2	3.9	< 1	58	< 1	< 1	< 1	< 1	< 1 - < 10
	11/2/99	100	15	17	3.4	1.7	< 1	< 1	< 1	< 1	< 1 - < 10
	2/7/00	510	160	8	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 - < 20
	5/16/00	260	73	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 - < 20
	8/8/00	38	19	21	8.7	1.2	< 0.5	< 0.5	< 0.5	17	< 0.5 - < 5.0
	11/30/00	110	45	9.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	4.2	< 2.5 - < 25
	8/8/02	**78**	**49**	**18**	**6.3**	**< 5.0**	**< 5.0**	**< 5.0**	**< 5.0**	**130**	**< 5.0 - < 50**
MW-2	9/2/99	48	4.5	1.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1 - < 10
	11/2/99	110	9.5	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1 - < 10
	2/7/00	200	21	6.6	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5 - < 10
	5/16/00	820	220	74	< 10	< 10	< 10	< 10	< 10	< 10	< 10 - < 40
	8/8/00	280	82	33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 - < 20
	11/30/00	660	360	130	< 10	< 10	< 10	< 10	< 10	< 10	< 10 - < 100
	8/8/02	**< 0.5**	**< 0.5**	**31**	**< 0.5**	**< 0.5**	**< 0.5**	**< 0.5**	**< 0.5**	**2.5**	**< 0.5 - < 5.0**
MW-3	9/2/99	38	21	34	< 0.5	22	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 5
	11/2/99	59	21	35	< 0.5	22	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 5
	2/7/00	56	13	22	< 0.5	8.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 5
	5/16/00	54	8.7	< 1	< 1	5.3	< 1	< 1	< 1	< 1	< 1 - < 10
	8/8/00	74	11	17	< 1.0	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 - < 4.0
	11/30/00	63	14	25	< 1.0	14	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 - < 10
	8/8/02	**58**	**19**	**25**	**< 2.5**	**17**	**< 2.5**	**< 2.5**	**< 2.5**	**< 2.5**	**< 2.5 - < 25**
MW-4	11/2/99	0.68	0.74	21	< 0.5	14	2.7	2.1	12	6.3	< 0.5 - < 5
	2/7/00	14	4.1	18	< 0.5	8.1	0.64	< 0.5	0.71	6	< 0.5 - < 5
	5/16/00	24	13	12	< 0.5	19	< 0.5	< 0.5	< 0.5	0.75	< 0.5 - < 5
	8/8/00	2.1	7.4	17	< 0.5	8.3	1.8	1.9	3.1	9.6	< 0.5 - < 5.0
	11/30/00	30	6.9	2.8	< 0.5	8.3	< 0.5	< 0.5	< 0.5	< 0.5	4.6*
	8/8/02	**19**	**12**	**13**	**< 0.5**	**28**	**< 0.5**	**< 0.5**	**< 0.5**	**0.89**	**< 0.5 - < 5.0**
RBSL GW		5	5	6	10	5	6	0.5	NA	0.5	VARIES
RBSL NGW		120	360	590	590	47	25	910.0	NA	782	VARIES
NOTES: Indoor Air		130	530	6200	6700	1000	6300	200		4	

Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

RBSL = Risk Based Screening Levels presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated August 2000.

The DHS MCLs are the California Department of Health Services maximum contaminant levels for drinking water

GW = Groundwater IS a current of potential Source of Drinking Water.

NGW = Groundwater IS NOT a current of potential Source of Drinking Water.

TABLE THREE

Summary of Analytical Results of SOIL Samples
Halogenated Volatile Organic Compounds (HVOCs) by EPA Method 8021B
J&A Truck Repair, 2221 Union Street, Oakland, CA
Results are in parts per million (ppm)

Well or Boring	Sample Depth	Vinyl Chloride	1,1-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1-DCA	1,2-DCA	TCE	PCE	1,1,1-TCA	Chloroform	Other HVOCs
BH-H	4'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
	12'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
BH-I	8'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
	12'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
BH-J	4'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
	12'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
BH-K	4'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
	12'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
BH-L	3'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
BH-M	4'	< 0.005	< 0.005	< 0.005	**0.017**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
	12'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
BH-N	4'	< 0.005	< 0.005	< 0.005	**0.017**	< 0.005	< 0.005	**0.089**	**0.016**	< 0.005	< 0.005	< 0.005 - < 0.010
	12'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
BH-O	4'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.013**	**0.02**	< 0.005	< 0.005	< 0.005 - < 0.010
BH-P	4'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
	12'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
BH-Q	4'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0072**	< 0.005	< 0.005	< 0.005 - < 0.010
	12'	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005 - < 0.010
RBSL GW		0.04	0.12	0.65	0.19	0.22	0.006	0.4	0.8	8	0.88	varies
RBSL NGW		0.04	0.12	36	15	2.1	3	9.3	19	8	0.88	varies

Notes:

Non-detectable concentrations are denoted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in **bold**.

RBSL = Risk Based Screening Levels for Subsurface Soil as presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated August 2000.

GW = Groundwater IS a current of potential Source of Drinking Water.

NGW = Groundwater IS NOT a current of potential Source of Drinking Water.

DCA - dichloroethane
TCA - trichloroethane
TCE - trichloroethene
DCE - dichloroethene
PCE - tetrachloroethene

TABLE FOUR

Summary of Analytical Results of WATER Samples
Halogenated Volatile Organic Compounds (HVOCs) by EPA Method 8021B
J&A Truck Repair, 2221 Union Street, Oakland, CA
Results are in parts per billion (ppb)

Well or Boring	Sample Depth	Vinyl Chloride	1,1-DCE	trans-1,2-DCE	cis-1,2-DCE	1,1-DCA	1,2-DCA	TCE	PCE	1,1,1-TCA	Chloroform	Other HVOCs
BH-H	20'	< 0.5	**0.77**	< 0.5	**1.2**	**30**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 5.0
BH-I	20'	< 0.5	**3.0**	< 0.5	**3.2**	**55**	**0.92**	< 0.5	< 0.5	< 0.5	**1.7**	< 0.5 - < 5.0
BH-J	20'	< 0.5	< 0.5	< 0.5	< 0.5	**0.79**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 5.0
BH-K	20'	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.54**	< 0.5 - < 5.0
BH-L	4'	< 0.5	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	**3.9**	**26**	< 0.5	< 0.5	< 0.5 - < 5.0
	20'	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 5.0
BH-M	20'	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 5.0
BH-N	15'	< 0.5	< 0.5	< 0.5	**16**	< 0.5	< 0.5	**32**	**42**	< 0.5	< 0.5	< 0.5 - < 5.0
BH-O	8'	< 2.5	< 2.5	< 2.5	**62**	< 2.5	< 2.5	**230**	**150**	< 2.5	< 2.5	< 2.5 - < 25
	20'	< 0.5	< 0.5	< 0.5	**13**	**0.52**	< 0.5	**42**	**29**	< 0.5	< 0.5	< 0.5 - < 5.0
BH-P	15'	< 0.5	< 0.5	< 0.5	< 0.5	**0.76**	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5 - < 5.0
BH-Q	20'	< 0.5	< 0.5	< 0.5	< 0.5	**0.99**	< 0.5	**0.98**	**2.5**	< 0.5	< 0.5	< 0.5 - < 5.0
MW-1		**130**	< 5.0	**6.3**	**18**	< 5.0	< 5.0	**49**	**78**	< 5.0	< 5.0	< 5.0 - < 50
MW-2		**2.5**	< 0.5	< 0.5	**31**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 5.0
MW-3		< 2.5	< 2.5	< 2.5	**25**	**17**	< 2.5	**19**	**58**	< 2.5	< 2.5	< 2.5 - < 25
MW-4		**0.89**	< 0.5	< 0.5	**13**	**28**	< 0.5	**12**	**19**	**0.54**	< 0.5	< 0.5 - < 5.0
RBSL GW		0.5	6	10	6	5	0.5	5	5	62	28	varies
RBSL NGW		782	25	590	590	47	910	360	120	62	28	varies

Notes:

Detectable concentrations are in bold.

Non-detectable concentrations are denoted by the less than symbol (<) followed by the detection limit.

RBSL = Risk Based Screening Levels presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) dated August 2000.

GW = Groundwater IS a current of potential Source of Drinking Water.

NGW = Groundwater IS NOT a current of potential Source of Drinking Water.

Concentrations in box exceed RBSL where groundwater is a current or potential source of drinking water

Concentrations in shaded box exceed RBSL where groundwater is not a current or potential source of drinking water

DCA - dichloroethane
TCA - trichloroethane
TCE - trichloroethene
DCE - dichloroethene
PCE - tetrachloroethene

APPENDIX A

Workplan Approval Letter

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway
Alameda, CA 94502
(510) 567-6700
Fax (510) 337-9335

CO0000114

May 6, 2002

Mr. Alejandro Aquilar
829 Cayuga Avenue
San Francisco, CA 94112

RE: Plume Delineation at 2221 Union Street, Oakland, CA

Dear Mr. Aquilar:

It has come to my attention that you are now the current property owner of the above referenced site. And, that you are now ready to resume with work for the delineation of the solvent plume beneath the site.

Quarterly groundwater monitoring at the site commenced in September 1999. Groundwater has flowed predominantly to the northeast. Well MW-2 exhibits the highest concentration of chlorinated solvents. In November 2000, groundwater samples from well MW-2 contained 660 parts per billion (ppb) tetrachloroethene or PCE, 360ppb trichloroethene (TCE), and 130ppb 1,2-cis-dichloroethene (1,2-cis-DCE).

At this time, additional investigations are required to delineate the extent of the solvent plume to the northeast. Soil borings should be advanced for the collection of grab groundwater samples. Borings should be sited downgradient of well MW-2 and at locations where it will help to determine if the solvent plume is limited to the site, or whether it is a regional problem. A workplan for the investigation is due within 60 days of the date of this letter, **or by July 8, 2002.**
Furthermore, quarterly groundwater monitoring should be reinstated at the site. Groundwater should be analyzed for chlorinated hydrocarbons.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

email: Dave Allen, Aqua Science

ca brake & clutch-8

CO0000114

July 2, 2002

Mr. Alejandro Aguilar
J & A Trucking
1370 7th Street
Oakland, CA 94607

RE: Work Plan Approval for 2221 Union Street, Oakland, CA

Dear Mr. Aguilar:

I have completed review of Aqua Science Engineers, Inc's June 2002 *Workplan for a Soil and Groundwater Assessment* prepared for the above referenced site. The proposal to assess the solvent plume up- and down-gradient of the former drain by advancing soil borings at the site is acceptable with the following additions/changes:

- soil boring should be advanced to at least 20 feet bgs;
- discrete soil samples should be collected at 5 foot interval or at changes in lithology;
- discrete grab groundwater samples should be collected at 5 foot interval or at changes in lithology;
- select soil and groundwater samples, based on field observation and best professional judgment, should be analyzed for VOCs so that data will delineate both the vertical and lateral extent of the contaminant plume; and,
- an additional soil boring is recommended along Poplar Street, approximately 20 feet north of well MW-1.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

email: Dave Allen (Aqua Science)

CA brake & clutch-9

APPENDIX B

Drilling and Excavation Permits

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) ~~670-5551~~ 510-670-6633 James YOO
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2221 Union Street
Oakland, CA

CLIENT
Name J. A Trucking
Address 1370 7th Street Phone
City Oakland, CA Zip 94607

APPLICANT
Name Aqua Science Engineers Fax 925-337-4853
Address 208 W. El Pintado Phone 925-820-9391
City Danville, CA Zip 94526

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☒
Monitoring	☐	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☐
Cable	☐	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 10 Maximum
Hole Diameter 2 in. Depth 20 ft.

ESTIMATED STARTING DATE 7-31-02
ESTIMATED COMPLETION DATE 8-13-02

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

APPLICANT'S SIGNATURE Robert E. Kitay DATE 7-29-02

PLEASE PRINT NAME Robert E. Kitay

Rev.5-13-00

FOR OFFICE USE

PERMIT NUMBER 02-0764
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
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

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 7-29-02

CITY OF OAKLAND • Community and Economic Development Agency

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 2221 UNION ST Parcel# 005 -0424-003-00 Appl# X0200770

Descr TWO SOIL BORINGS FOR ENVIRONMENTAL INVESTIGATION ON POPLAR ST BEHIND ABOVE ADDRESS

Permit Issued 07/26/02

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job #

Util Fund #:

Acctg#:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	AGUILAR ALEJANDRO C				
Contractor	AQUA SCIENCE ENGINEERS, INC.	X	(925) 820-9391	487000 A	C57
Arch/Engr					
Agent					

Applic Addr 208 WEST EL PINTADO, DANVILLE, CA., 94526

$252.00	TOTAL FEES PAID AT ISSUANCE		
$47.00	Applic	$205.00	Permit
$.00	Process	$.00	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other		

ADDRESS:

DIST:

Date: 07/26/02 Amt Paid: $252.00
By: ESL Register R02 Receipt# 041429

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERIN

PERMIT NUMBER	SITE ADDRESS/LOCATION
X020 0770	Poplar St behind 2221 Union St.
APPROX. START DATE: 7-31-02 / APPROX. END DATE: 8-1-02	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number): 925-820-9391
CONTRACTOR'S LICENSE # AND CLASS: 487000 C-57, HAZ	CITY BUSINESS TAX #

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____

2- **48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.**

3- **48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).**

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

☐ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # _____ Company Name _____

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

Signature of Permittee: Rachel E. Kirby ☐ Agent for ☒ Contractor ☐ Owner — Date: 7-26-02

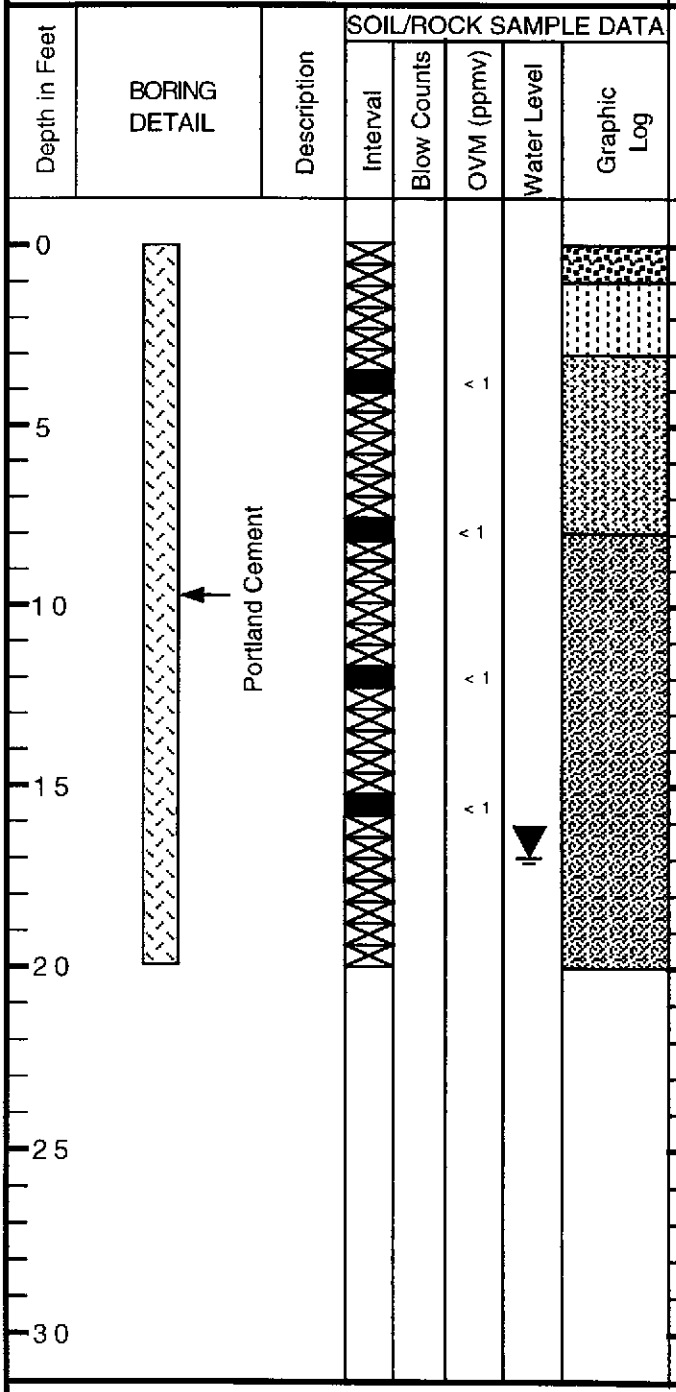
DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? NOV 1 - JAN 1) ☐ YES ☒ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☒ NO
ISSUED BY		DATE ISSUED: 7-26-02	

APPENDIX C

Boring Logs

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		Boring: BH-H
Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 7, 2002	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 17'	Total Depth of Well Completed: NA
Static Depth of Water in Well: NA	Well Screen Type and Diameter: NA
Total Depth of Boring: 20'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler

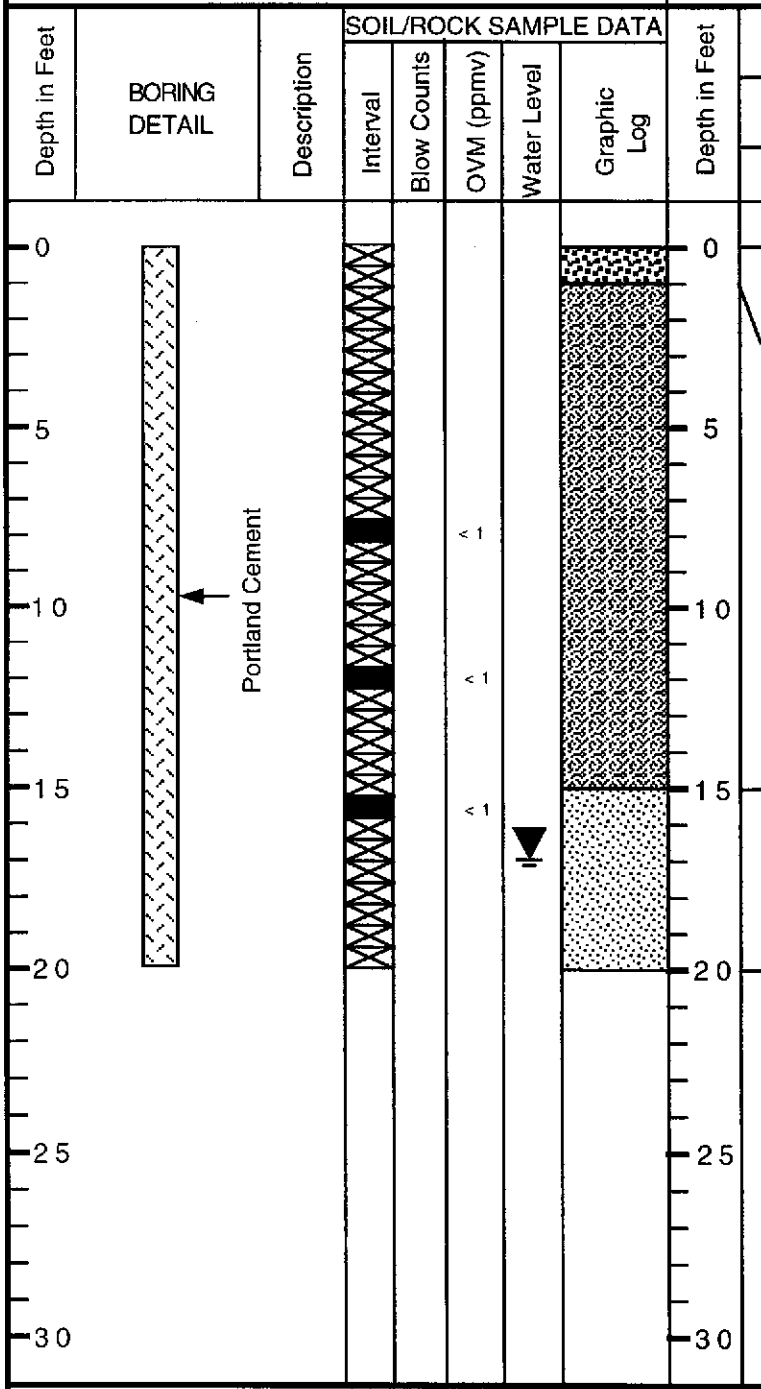


Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Asphalt
	Sandy GRAVEL (GW); light to dark brown; medium dense; dry; 60% angular gravel to 0.75" diameter; 30% sand; 10% silt; non-plastic; high estimated K; no odor
5	Gravelly SAND (SW); dark brown; damp; 70% sand; 30% angular gravel to 0.75" diameter; non-plastic; high estimated K; no odor
	Silty SAND (SM); yellow brown; moist; 80% fine sand; 15% silt; 5% angular gravel to 0.5" diameter; low plasticity; medium estimated K; no odor
10	Sandy SILT (ML); brown to gray; medium dense; moist; 60% silt; 35% fine sand; 5% clay; low plasticity; medium estimated K; no odor
15	60% silt; 25% fine sand; 10% subangular gravel to 0.5" diameter; 5% clay;
20	End of Boring at 20'
25	
30	

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		Boring: BH-I
Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 7, 2002	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 17'	Total Depth of Well Completed: NA
	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 20'	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler

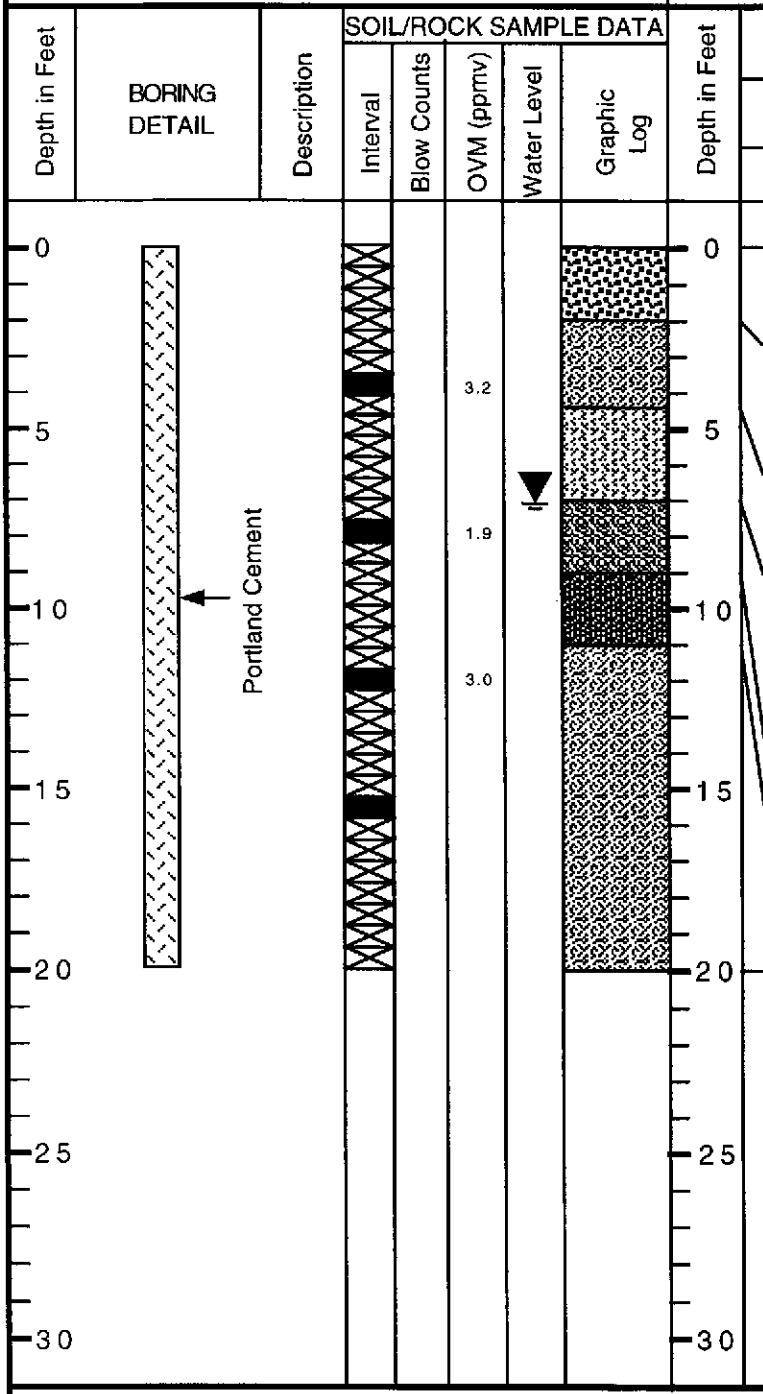


Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Asphalt
	Sandy GRAVEL (GW); light to dark brown; medium dense; dry; 60% angular gravel to 0.75" diameter; 30% sand; 10% silt; non-plastic; high estimated K; no odor
	Sandy SILT (ML); black; medium dense; moist; 60% silt; 20% sand; 10% subrounded gravel to 0.5" diameter; 10% clay; medium plasticity; medium estimated K; no odor
5	gray to brown; 80% silt; 15% fine sand; 5% clay
10	yellow brown; 70% silt; 25% fine sand; 5% clay
15	Silty SAND/Clayey SAND (SM-SC); 70% fine sand; 15% silt; 15% clay; medium to high plasticity; low estimated K; no odor
20	End of Boring at 20'
25	
30	

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		Boring: BH-J
Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 7, 2002	Checked By: Robert E. Kitay, R.G.

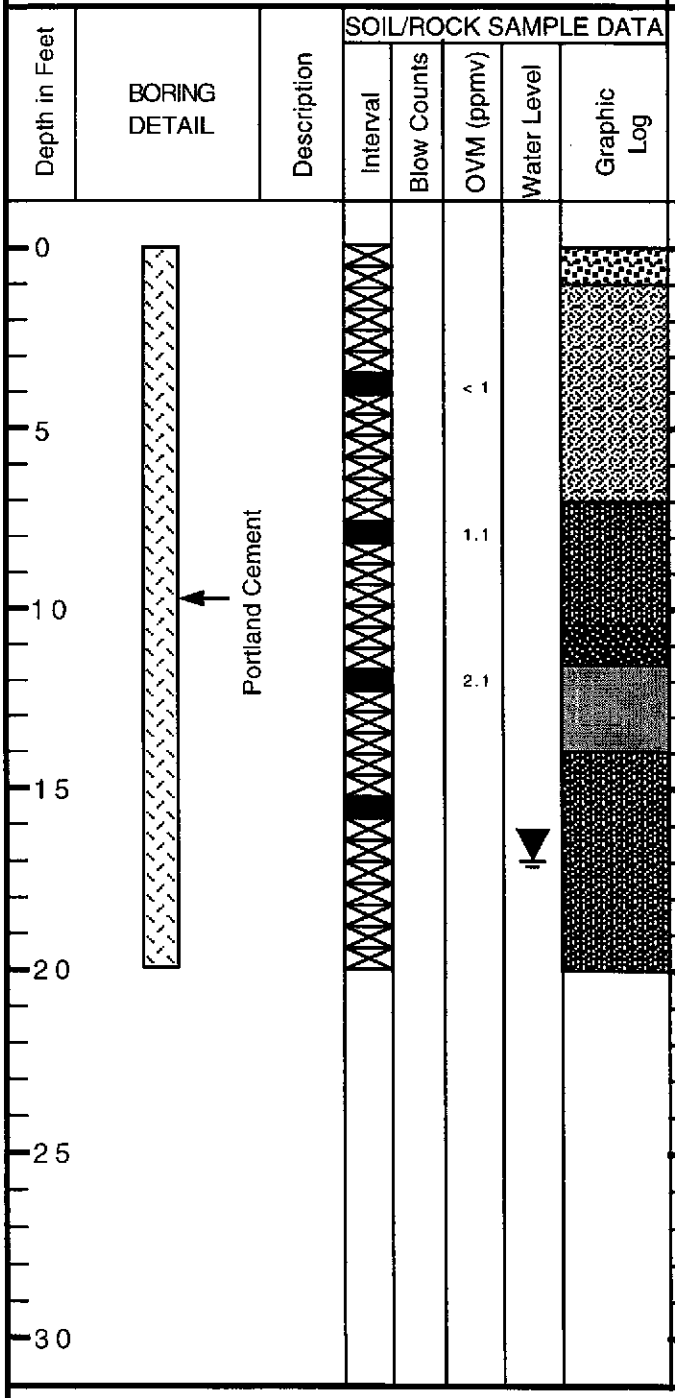
WATER AND WELL DATA	
Depth of Water First Encountered: 7'	Total Depth of Well Completed: NA
Static Depth of Water in Well: NA	Well Screen Type and Diameter: NA
Total Depth of Boring: 20'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler



Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Asphalt
	Sandy GRAVEL (GW); light to dark brown; medium dense; dry; 60% angular gravel to 0.75" diameter; 30% sand; 10% silt; non-plastic; high estimated K; no odor
5	Sandy SILT (ML); brown to gray; medium dense; moist; 60% silt; 20% fine sand; 10% subrounded gravel to 0.5" diameter; 10% clay; medium plasticity; low estimated K; no odor
	Silty SAND (SM); brown; medium dense; moist; 95% fine sand; 5% silt; non-plastic; high estimated K; no odor
10	Clayey SAND (SC); gray; medium dense; wet; 75% fine sand; 15% clay; 10% silt; low plasticity; low estimated K; no odor 1" thick angular gravel layer at 7.5 feet black
15	Silty CLAY (CH); gray; soft; moist; 60% clay; 40% silt; high plasticity; very low estimated K; no odor
	Sandy SILT (ML); yellow-brown to gray; medium dense; moist; 60% silt; 30% fine sand; 10% clay; low plasticity; medium estimated K; no odor
20	End of Boring at 20'
25	
30	

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		Boring: BH-K
Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 7, 2002	Checked By: Robert E. Kitay, R.G.

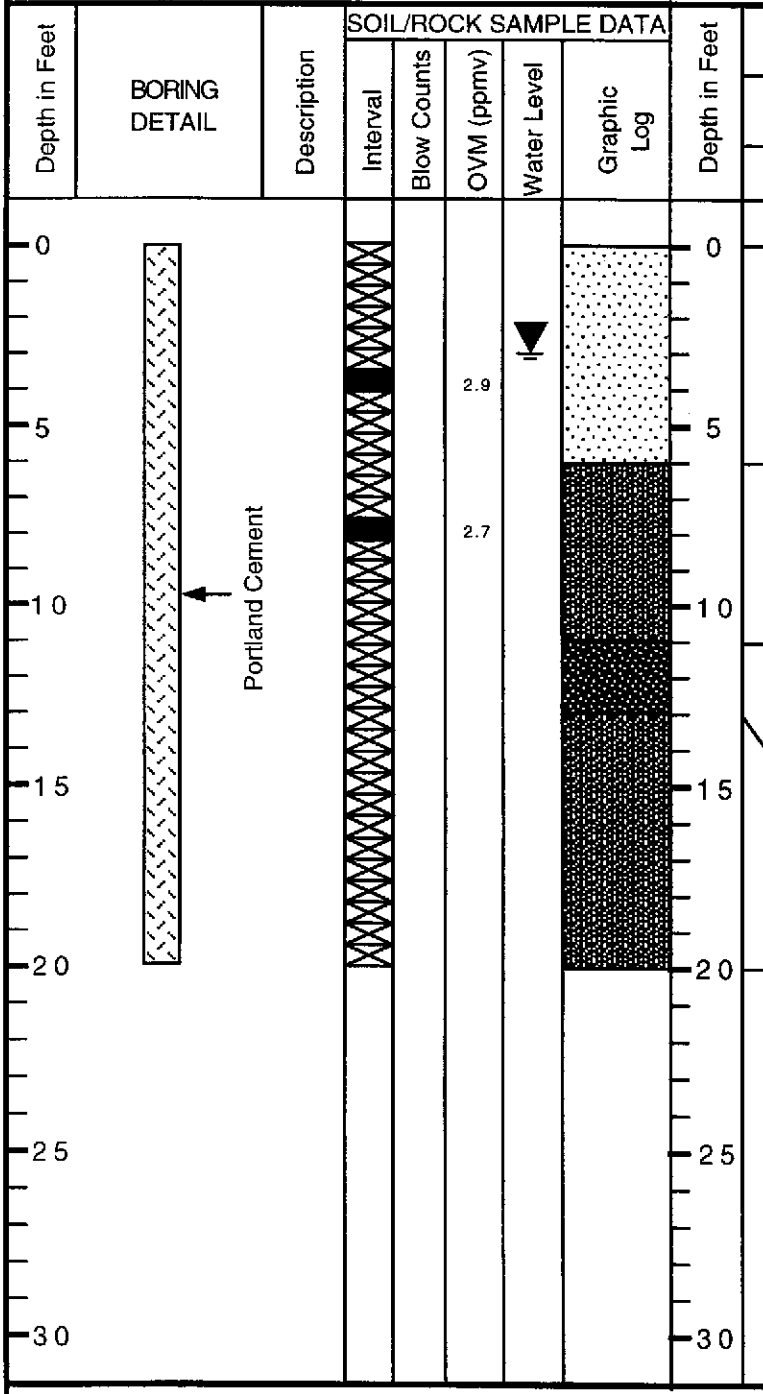
WATER AND WELL DATA	
Depth of Water First Encountered: 17'	Total Depth of Well Completed: NA
Static Depth of Water in Well: NA	Well Screen Type and Diameter: NA
Total Depth of Boring: 20'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler



Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Concrete
	Sandy GRAVEL (GW); light to dark brown; medium dense; dry; 60% angular gravel to 0.75" diameter; 30% sand; 10% silt; non-plastic; high estimated K; no odor; brick pieces and a nail also noted in sample
5	Silty SAND (SM); dark brown; medium dense; moist; 80% fine sand; 15% silt; 5% clay; non-plastic; high estimated K; no odor Yellow-brown to gray
10	Silty CLAY (CH); gray; medium stiff; moist; 70% clay; 25% silt; 5% fine sand; high plasticity; very low estimated K; no odor
	Gravelly CLAY (CL); gray; medium stiff; moist; 70% clay; 15% gravel to 0.75" diameter; 10% sand; 5% silt; medium plasticity; low estimated K; no odor
15	Clayey SILT (ML); brown; medium dense; moist; 55% silt; 20% clay; 15% fine sand; 10% subangular gravel to 0.5" diameter; medium plasticity; low estimated K; no odor
	Silty CLAY (CH); light gray to brown; medium stiff; moist; 60% clay; 30% silt; 10% subangular gravel to 0.5" diameter; high plasticity; low estimated K; no odor
20	End of Boring at 20'
25	
30	

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		Boring: BH-L
Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 7, 2002	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 3'	Total Depth of Well Completed: NA
Static Depth of Water in Well: NA	Well Screen Type and Diameter: NA
Total Depth of Boring: 20'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler



DESCRIPTION OF LITHOLOGY

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

Concrete

SAND (SP); brown; medium dense; moist; 100% fine sand; non-plastic; high estimated K; no odor

Wet

Silty CLAY (CL); gray; medium stiff; moist; 80% clay; 20% silt; high plasticity; very low estimated K; no odor
Broken pieces of red brick

Gravelly SILT (ML); gray to brown; medium dense; moist; 70% silt; 20% gravel to 1" diameter; 10% clay; low plasticity; high estimated K; no odor

Silty CLAY (CH); yellow-brown to gray; medium stiff; moist; 60% clay; 30% silt; 10% subangular gravel to 0.5" diameter; low plasticity; low estimated K; no odor

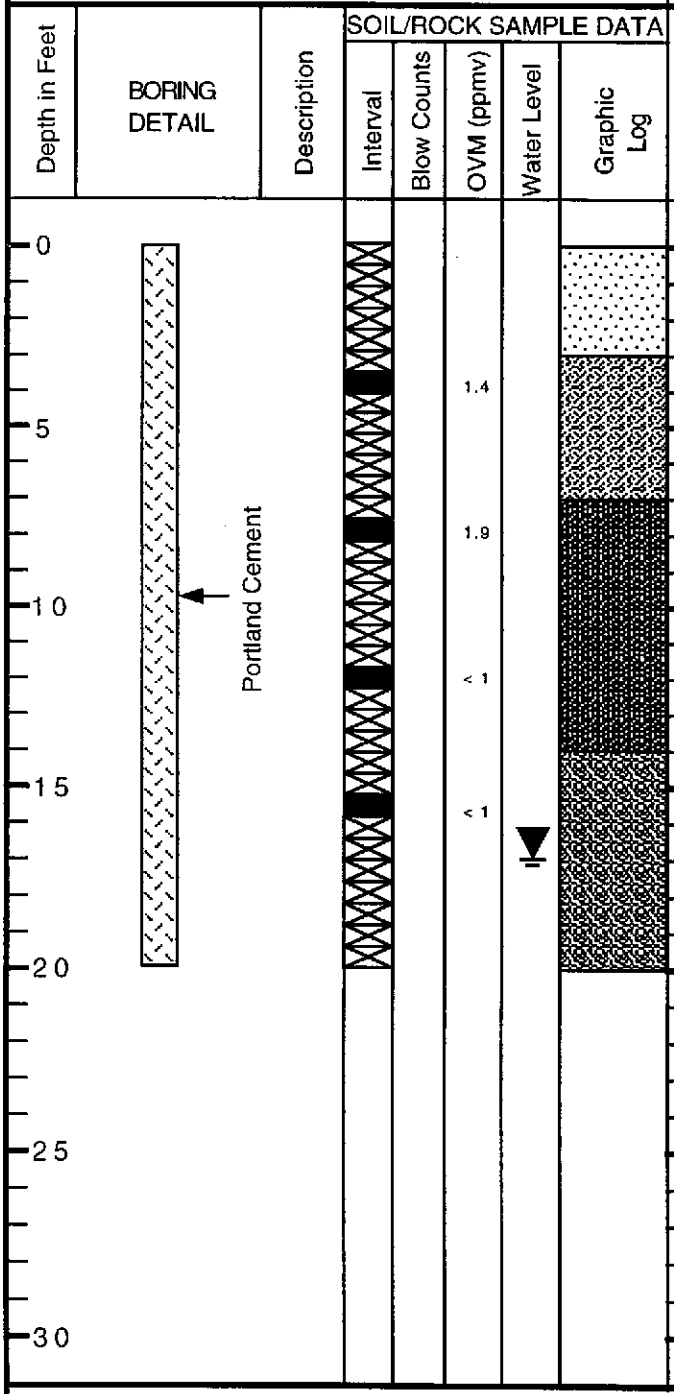
End of Boring at 20'

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		Boring: BH-M
Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 7, 2002	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 17'	Total Depth of Well Completed: NA
Static Depth of Water in Well: NA	Well Screen Type and Diameter: NA
Total Depth of Boring: 20'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler



Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Concrete
0	SAND (SP); brown; medium dense; moist; 100% fine sand; non-plastic; high estimated K; no odor
5	Clayey SAND (SC); gray-green; medium dense; moist; 75% fine sand; 25% clay; high plasticity; low estimated K; no odor
10	Silty CLAY (CH); black; stiff; damp; 80% clay; 20% silt; high plasticity; low estimated K; no odor gray; 60% clay; 30% silt; 5% fine sand; 5% gravel to 0.5" diameter
15	Clayey SILT (MH); yellow-brown; medium dense; moist; 55% silt; 35% clay; 10% fine sand; high plasticity; low estimated K; no odor
20	End of Boring at 20'
25	
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AQUA SCIENCE ENGINEERS, INC.

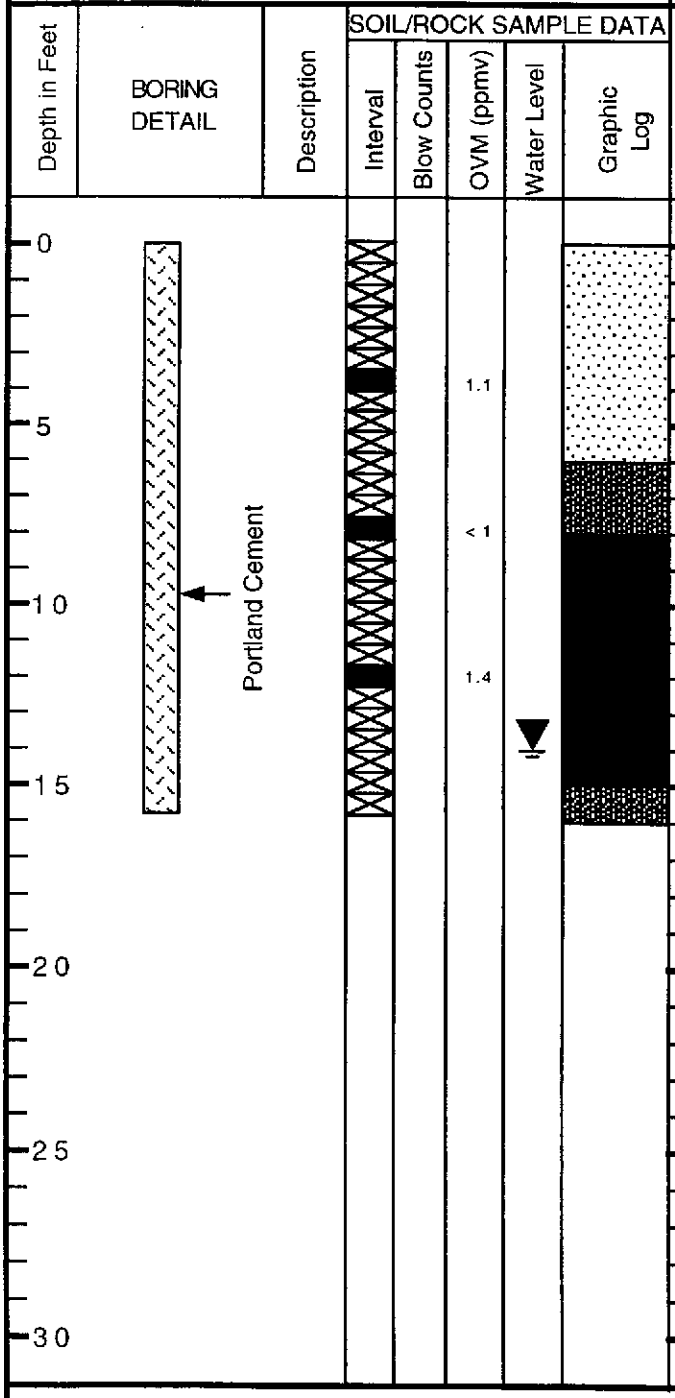
SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

Boring: BH-N

Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 8, 2002	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 14'	Total Depth of Well Completed: NA
	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 16'	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler



Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Concrete
	SAND (SP); dark brown; medium dense; moist; 100% fine sand; non-plastic; high estimated K; no odor
5	Silty CLAY (CH); black; medium stiff; damp; 80% clay; 20% silt; high plasticity; low estimated K; no odor
10	Gravelly SILT/Sandy SILT (ML); brown to gray; medium dense; moist; 60% silt; 15% angular gravel to 0.75" diameter; 15% fine sand; 10% clay; very low plasticity; medium estimated K; no odor
	wet
15	Silty CLAY (CH); brown; soft; wet; 60% clay; 40% silt; high plasticity; low estimated K; no odor
	End of Boring at 16'
20	
25	
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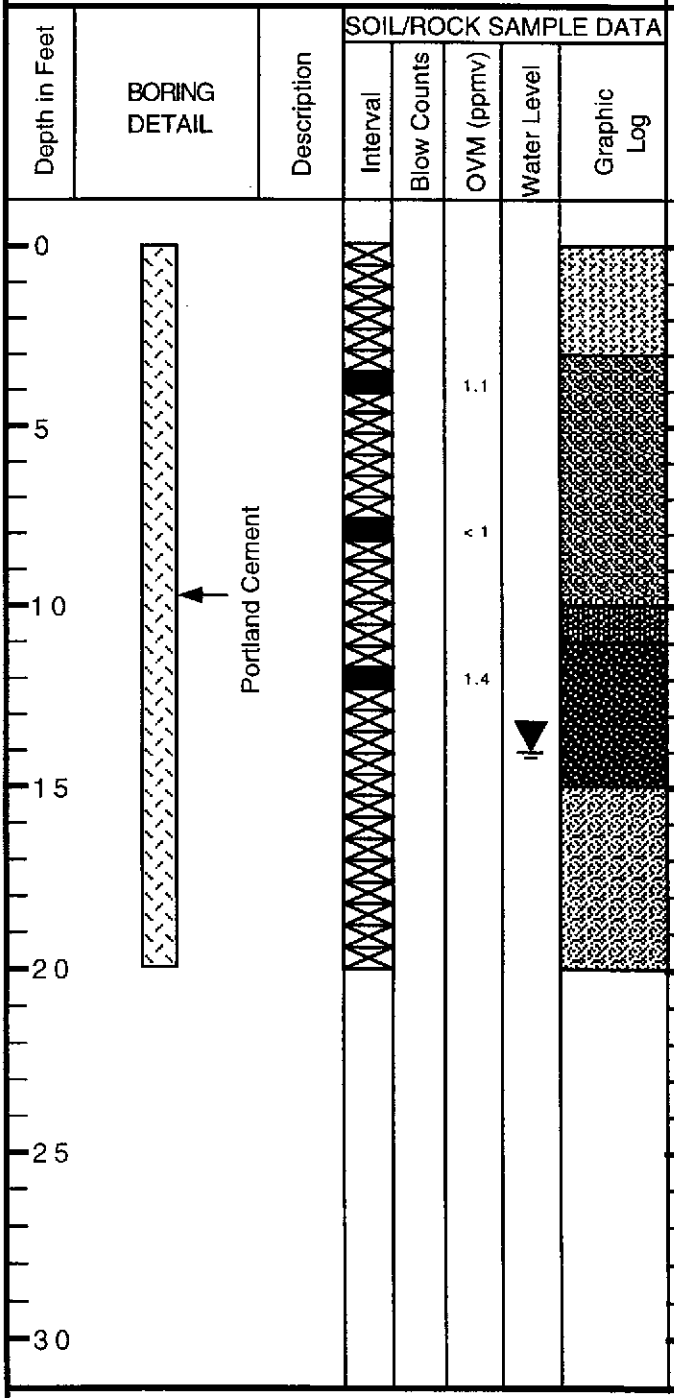
AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		Boring: BH-O
Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 8, 2002	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 14'	Total Depth of Well Completed: NA
Static Depth of Water in Well: NA	Well Screen Type and Diameter: NA
Total Depth of Boring: 20'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler



Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Asphalt
	Silty SAND (SM); brown; medium dense; moist; 90% fine sand; 10% silt; non-plastic; high estimated K; no odor
5	Clayey SILT (ML); brown; medium dense; wet; 70% silt; 20% clay; 10% fine sand; medium plasticity; medium estimated K; no odor
10	Silty CLAY (CL); gray-green; soft; moist; 70% clay; 30% silt; high plasticity; low estimated K; no odor
	Gravelly SILT (ML); brown to gray; 65% silt; 15% gravel; 10% fine sand; 10% clay; low plasticity; medium estimated K; no odor
15	Sandy SILT (ML); brown; medium dense; moist; 60% silt; 25% fine sand; 10% gravel to 0.75" diameter; 5% clay; low plasticity; low estimated K; no odor
20	End of Boring at 20'
25	
30	

AQUA SCIENCE ENGINEERS, INC.

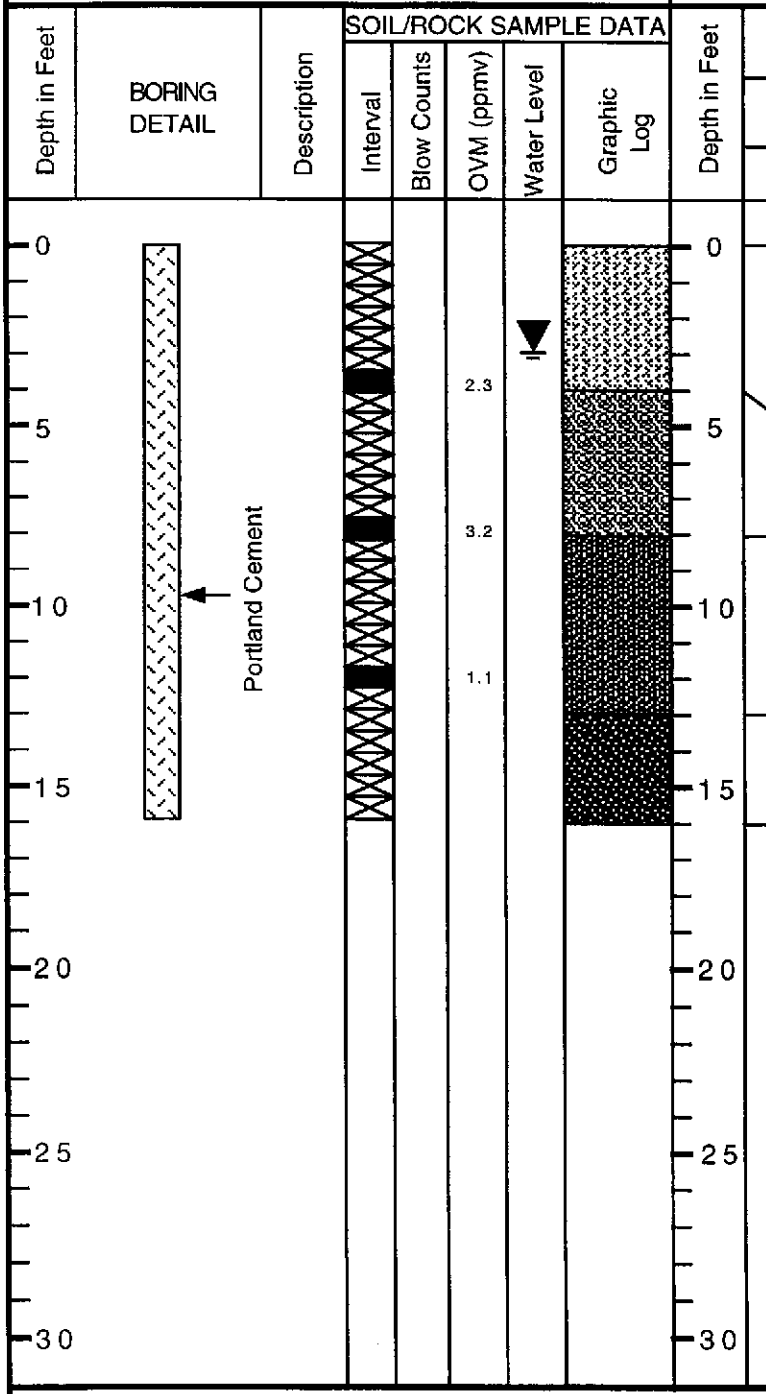
SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

Boring: BH-P

Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 8, 2002	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 3'	Total Depth of Well Completed: NA
	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 16'	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler



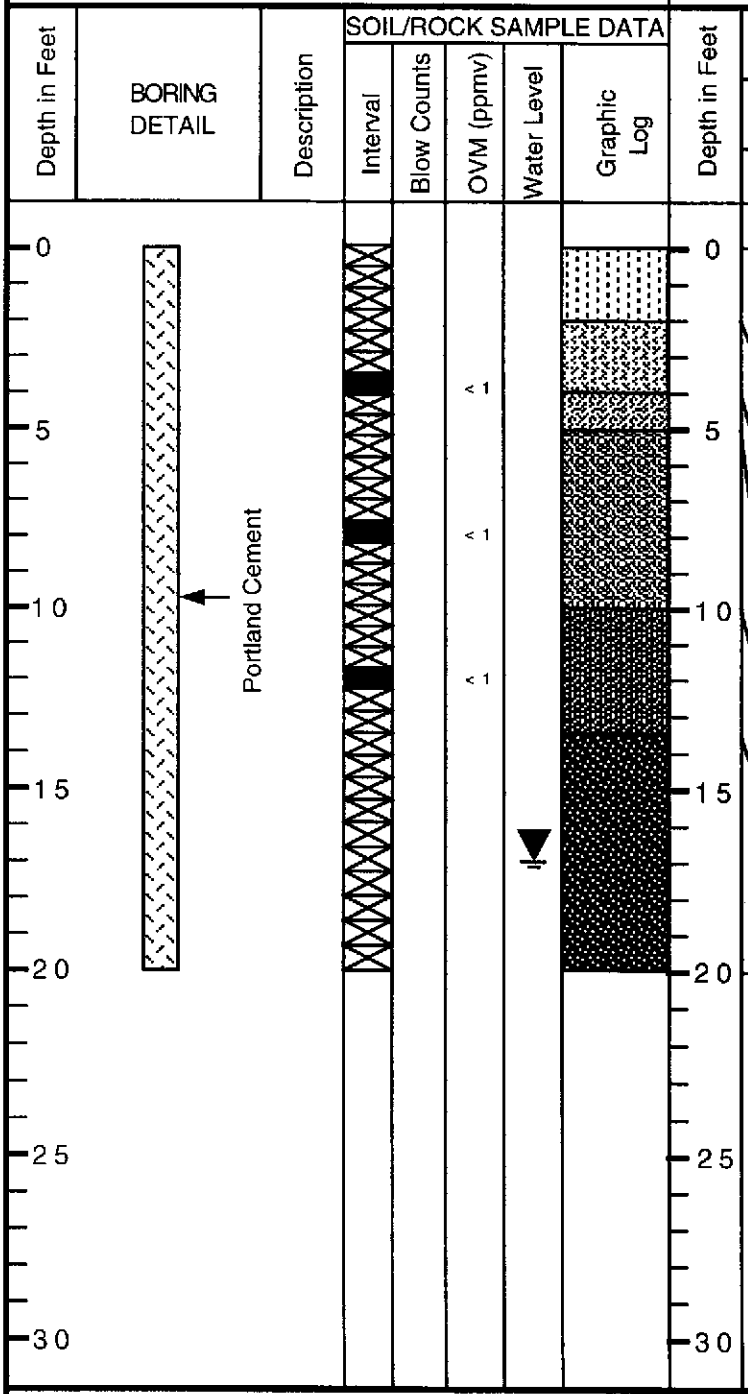
Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Sandy SILT (ML); dark brown; medium dense; damp; 60% silt; 25% fine to medium sand; 10% gravel; 5% clay; low plasticity; medium estimated K; no odor; brick fragments
	wet at 3 feet
5	Clayey SILT (ML); brown to gray; medium dense; moist; 75% silt; 15% clay; 10% fine sand; medium plasticity; low estimated K; no odor
10	Silty CLAY (CH); gray; soft; moist; 70% clay; 20% silt; 5% fine sand; 5% subangular gravel to 0.25"; high plasticity; very low estimated K; no odor
15	Gravelly SILT (ML); brown to gray; 60% clay; 30% gravel; 5% silt; 5% fine sand; moderate plasticity; medium; estimated K; no odor
	End of Boring at 16'
20	
25	
30	

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		Boring: BH-Q
Project Name: J&A Truck Repair	Project Location: 2221 Union Street, Oakland, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Erik H. Paddleford	Date Drilled: August 8, 2002	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 17'	Total Depth of Well Completed: NA
Static Depth of Water in Well: NA	Well Screen Type and Diameter: NA
Total Depth of Boring: 20'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: 2.0" I.D. Macro Core Sampler



DESCRIPTION OF LITHOLOGY

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

Sandy GRAVEL (GW); dark brown; medium dense; damp; 70% subangular gravel 0.75" diameter; 25% sand; 5% silt; non-plastic; high estimated K; no odor; brick fragments; nails

Silty SAND (SM); light to dark brown; loose; moist; 80% fine sand; 15% silt; 5% gravel to 0.5" diameter; non-plastic; high estimated K; no odor

Sandy SILT (ML); black to brown; medium dense; moist; 70% silt; 20% fine sand; 5% clay; 5% subangular gravel to 0.25"; medium plasticity; medium estimated K; no odor

Silty CLAY (CH); gray; medium stiff; moist; 70% clay; 30% silt; high plasticity; low estimated K; no odor; shell fragments

Clayey SILT (ML); light brown; medium stiff; moist; 60% silt; 30% clay; 10% gravel; medium plasticity; low estimated K; no odor

Gravelly CLAY (CL); gray; medium stiff; moist; 70% clay; 15% subangular gravel to 0.75" diameter; 10% sand; 5% silt; medium plasticity; medium estimated K; no odor

End of Boring at 20'

AQUA SCIENCE ENGINEERS, INC.

APPENDIX D

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

Submission#: 2002-08-0288

August 23, 2002

Aqua Science Engineers, Inc.
208 West El Pintado
Danville, CA 94526
Attn.: Erik Paddleford
Project: J & A Truck Repair

SEVERN TRENT LABORATORY

STL San Francisco
1220 Quarry Ln
Pleasanton CA 94566

Tel.: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#:2496

Attached is our report for your samples received on 08/13/2002 14:00
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/27/2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil
Project Manager

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford
208 West El Pintado
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: J & A Truck Repair

Received: 08/13/2002 14:00

SEVERN TRENT LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
BH-H	08/07/2002 09:15	Water	34
BH-I	08/07/2002 09:56	Water	35
BH-J	08/07/2002 11:10	Water	36
BH-K	08/07/2002 12:27	Water	37
BH-L-4`	08/07/2002 13:09	Water	38
BH-L-20`	08/07/2002 13:40	Water	39
BH-M-	08/07/2002 14:36	Water	40
BH-N	08/08/2002 08:37	Water	41
BH-O-8`	08/08/2002 09:09	Water	42
BH-O-20`	08/08/2002 10:18	Water	43
BH-P	08/08/2002 10:57	Water	44
BH-Q	08/08/2002 11:55	Water	45
MW-1	08/08/2002 14:55	Water	46
MW-2	08/08/2002 13:40	Water	47
MW-4	08/08/2002 14:15	Water	49

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

Aqua Science Engineers, Inc.
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Received: 08/13/2002 14:00

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**BH-H**	Lab ID:	2002-08-0288 - 34
Sampled:	08/07/2002 09:15	Extracted:	8/19/2002 17:33
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/19/2002 17:33	
Vinyl chloride	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Chloroethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
1,1-Dichloroethene	0.77	0.50	ug/L	1.00	08/19/2002 17:33	
Methylene chloride	ND	5.0	ug/L	1.00	08/19/2002 17:33	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
cis-1,2-Dichloroethene	1.2	0.50	ug/L	1.00	08/19/2002 17:33	
1,1-Dichloroethane	30	0.50	ug/L	1.00	08/19/2002 17:33	
Chloroform	ND	0.50	ug/L	1.00	08/19/2002 17:33	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/19/2002 17:33	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Trichloroethene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/19/2002 17:33	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Chlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Bromoform	ND	2.0	ug/L	1.00	08/19/2002 17:33	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/19/2002 17:33	
Chloromethane	ND	1.0	ug/L	1.00	08/19/2002 17:33	
Bromomethane	ND	1.0	ug/L	1.00	08/19/2002 17:33	
Surrogates(s)						
1-Chloro-2-fluorobenzene	99.3	70-130	%	1.00	08/19/2002 17:33	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**BH-I**	Lab ID:	2002-08-0288 - 35
Sampled:	08/07/2002 09:56	Extracted:	8/19/2002 18:22
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/19/2002 18:22	
Vinyl chloride	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Chloroethane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
1,1-Dichloroethene	3.0	0.50	ug/L	1.00	08/19/2002 18:22	
Methylene chloride	ND	5.0	ug/L	1.00	08/19/2002 18:22	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
cis-1,2-Dichloroethene	3.2	0.50	ug/L	1.00	08/19/2002 18:22	
1,1-Dichloroethane	55	0.50	ug/L	1.00	08/19/2002 18:22	
Chloroform	1.7	0.50	ug/L	1.00	08/19/2002 18:22	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/19/2002 18:22	
1,2-Dichloroethane	0.92	0.50	ug/L	1.00	08/19/2002 18:22	
Trichloroethene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/19/2002 18:22	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Chlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Bromoform	ND	2.0	ug/L	1.00	08/19/2002 18:22	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/19/2002 18:22	
Chloromethane	ND	1.0	ug/L	1.00	08/19/2002 18:22	
Bromomethane	ND	1.0	ug/L	1.00	08/19/2002 18:22	
Surrogates(s)						
1-Chloro-2-fluorobenzene	98.9	70-130	%	1.00	08/19/2002 18:22	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	BH-J	Lab ID:	2002-08-0288 - 36
Sampled:	08/07/2002 11:10	Extracted:	8/19/2002 19:11
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/19/2002 19:11	
Vinyl chloride	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Chloroethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Methylene chloride	ND	5.0	ug/L	1.00	08/19/2002 19:11	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,1-Dichloroethane	0.79	0.50	ug/L	1.00	08/19/2002 19:11	
Chloroform	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Trichloroethene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/19/2002 19:11	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Chlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Bromoform	ND	2.0	ug/L	1.00	08/19/2002 19:11	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/19/2002 19:11	
Chloromethane	ND	1.0	ug/L	1.00	08/19/2002 19:11	
Bromomethane	ND	1.0	ug/L	1.00	08/19/2002 19:11	
Surrogates(s)						
1-Chloro-2-fluorobenzene	92.6	70-130	%	1.00	08/19/2002 19:11	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	BH-K	Lab ID:	2002-08-0288 - 37
Sampled:	08/07/2002 12:27	Extracted:	8/19/2002 20:02
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/19/2002 20:02	
Vinyl chloride	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Chloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Methylene chloride	ND	5.0	ug/L	1.00	08/19/2002 20:02	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Chloroform	0.54	0.50	ug/L	1.00	08/19/2002 20:02	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/19/2002 20:02	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Trichloroethene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/19/2002 20:02	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Chlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Bromoform	ND	2.0	ug/L	1.00	08/19/2002 20:02	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/19/2002 20:02	
Chloromethane	ND	1.0	ug/L	1.00	08/19/2002 20:02	
Bromomethane	ND	1.0	ug/L	1.00	08/19/2002 20:02	
Surrogates(s)						
1-Chloro-2-fluorobenzene	92.4	70-130	%	1.00	08/19/2002 20:02	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	BH-L-4	Lab ID:	2002-08-0288 - 38
Sampled:	08/07/2002 13:09	Extracted:	8/19/2002 20:53
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/19/2002 20:53	
Vinyl chloride	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Chloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Methylene chloride	ND	5.0	ug/L	1.00	08/19/2002 20:53	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 20:53	
cis-1,2-Dichloroethene	1.4	0.50	ug/L	1.00	08/19/2002 20:53	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Chloroform	ND	0.50	ug/L	1.00	08/19/2002 20:53	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/19/2002 20:53	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Trichloroethene	3.9	0.50	ug/L	1.00	08/19/2002 20:53	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/19/2002 20:53	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 20:53	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 20:53	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Tetrachloroethene	26	0.50	ug/L	1.00	08/19/2002 20:53	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Chlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Bromoform	ND	2.0	ug/L	1.00	08/19/2002 20:53	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 20:53	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 20:53	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/19/2002 20:53	
Chloromethane	ND	1.0	ug/L	1.00	08/19/2002 20:53	
Bromomethane	ND	1.0	ug/L	1.00	08/19/2002 20:53	
Surrogates(s)						
1-Chloro-2-fluorobenzene	96.7	70-130	%	1.00	08/19/2002 20:53	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**BH-L-20'**	Lab ID:	2002-08-0288 - 39
Sampled:	08/07/2002 13:40	Extracted:	8/19/2002 21:45
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/19/2002 21:45	
Vinyl chloride	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Chloroethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Methylene chloride	ND	5.0	ug/L	1.00	08/19/2002 21:45	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Chloroform	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Trichloroethene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/19/2002 21:45	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Chlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Bromoform	ND	2.0	ug/L	1.00	08/19/2002 21:45	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/19/2002 21:45	
Chloromethane	ND	1.0	ug/L	1.00	08/19/2002 21:45	
Bromomethane	ND	1.0	ug/L	1.00	08/19/2002 21:45	
Surrogates(s)						
1-Chloro-2-fluorobenzene	89.8	70-130	%	1.00	08/19/2002 21:45	

Submission #: 2002-08-0288

SEVERN TRENT LABORATORY

Halogenated Volatile Organic Compounds by 8021

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	BH-M-	Lab ID:	2002-08-0288 - 40
Sampled:	08/07/2002 14:36	Extracted:	8/19/2002 22:38
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/19/2002 22:38	
Vinyl chloride	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Chloroethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Methylene chloride	ND	5.0	ug/L	1.00	08/19/2002 22:38	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Chloroform	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Trichloroethene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/19/2002 22:38	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Chlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Bromoform	ND	2.0	ug/L	1.00	08/19/2002 22:38	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/19/2002 22:38	
Chloromethane	ND	1.0	ug/L	1.00	08/19/2002 22:38	
Bromomethane	ND	1.0	ug/L	1.00	08/19/2002 22:38	
Surrogates(s)						
1-Chloro-2-fluorobenzene	93.7	70-130	%	1.00	08/19/2002 22:38	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	BH-N	Lab ID:	2002-08-0288 - 41
Sampled:	08/08/2002 08:37	Extracted:	8/19/2002 23:36
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/19/2002 23:36	
Vinyl chloride	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Chloroethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Methylene chloride	ND	5.0	ug/L	1.00	08/19/2002 23:36	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/19/2002 23:36	
cis-1,2-Dichloroethene	16	0.50	ug/L	1.00	08/19/2002 23:36	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Chloroform	ND	0.50	ug/L	1.00	08/19/2002 23:36	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/19/2002 23:36	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Trichloroethene	32	0.50	ug/L	1.00	08/19/2002 23:36	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/19/2002 23:36	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 23:36	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/19/2002 23:36	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Tetrachloroethene	42	0.50	ug/L	1.00	08/19/2002 23:36	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Chlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Bromoform	ND	2.0	ug/L	1.00	08/19/2002 23:36	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 23:36	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 23:36	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/19/2002 23:36	
Chloromethane	ND	1.0	ug/L	1.00	08/19/2002 23:36	
Bromomethane	ND	1.0	ug/L	1.00	08/19/2002 23:36	
Surrogates(s)						
1-Chloro-2-fluorobenzene	105.3	70-130	%	1.00	08/19/2002 23:36	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**BH-O-8'**	Lab ID:	2002-08-0288 - 42
Sampled:	08/08/2002 09:09	Extracted:	8/20/2002 20:40
Matrix:	Water	QC Batch#:	2002/08/20-01.25

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	5.0	ug/L	5.00	08/20/2002 20:40	
Vinyl chloride	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Chloroethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Trichlorofluoromethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
1,1-Dichloroethene	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Methylene chloride	ND	25	ug/L	5.00	08/20/2002 20:40	
trans-1,2-Dichloroethene	ND	2.5	ug/L	5.00	08/20/2002 20:40	
cis-1,2-Dichloroethene	62	2.5	ug/L	5.00	08/20/2002 20:40	
1,1-Dichloroethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Chloroform	ND	2.5	ug/L	5.00	08/20/2002 20:40	
1,1,1-Trichloroethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Carbon tetrachloride	ND	2.5	ug/L	5.00	08/20/2002 20:40	
1,2-Dichloroethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Trichloroethene	230	2.5	ug/L	5.00	08/20/2002 20:40	
1,2-Dichloropropane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Bromodichloromethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
2-Chloroethylvinyl ether	ND	2.5	ug/L	5.00	08/20/2002 20:40	
trans-1,3-Dichloropropene	ND	2.5	ug/L	5.00	08/20/2002 20:40	
cis-1,3-Dichloropropene	ND	2.5	ug/L	5.00	08/20/2002 20:40	
1,1,2-Trichloroethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Tetrachloroethene	150	2.5	ug/L	5.00	08/20/2002 20:40	
Dibromochloromethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Chlorobenzene	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Bromoform	ND	10	ug/L	5.00	08/20/2002 20:40	
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
1,3-Dichlorobenzene	ND	2.5	ug/L	5.00	08/20/2002 20:40	
1,4-Dichlorobenzene	ND	2.5	ug/L	5.00	08/20/2002 20:40	
1,2-Dichlorobenzene	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Trichlorotrifluoroethane	ND	2.5	ug/L	5.00	08/20/2002 20:40	
Chloromethane	ND	5.0	ug/L	5.00	08/20/2002 20:40	
Bromomethane	ND	5.0	ug/L	5.00	08/20/2002 20:40	
Surrogates(s)						
1-Chloro-2-fluorobenzene	99.7	70-130	%	5.00	08/20/2002 20:40	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**BH-O-20**	Lab ID:	2002-08-0288 - 43
Sampled:	08/08/2002 10:18	Extracted:	8/20/2002 04:21
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/20/2002 04:21	
Vinyl chloride	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Chloroethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Methylene chloride	ND	5.0	ug/L	1.00	08/20/2002 04:21	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 04:21	
cis-1,2-Dichloroethene	13	0.50	ug/L	1.00	08/20/2002 04:21	
1,1-Dichloroethane	0.52	0.50	ug/L	1.00	08/20/2002 04:21	
Chloroform	ND	0.50	ug/L	1.00	08/20/2002 04:21	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/20/2002 04:21	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Trichloroethene	42	0.50	ug/L	1.00	08/20/2002 04:21	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/20/2002 04:21	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/20/2002 04:21	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/20/2002 04:21	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Tetrachloroethene	29	0.50	ug/L	1.00	08/20/2002 04:21	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Chlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Bromoform	ND	2.0	ug/L	1.00	08/20/2002 04:21	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 04:21	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 04:21	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/20/2002 04:21	
Chloromethane	ND	1.0	ug/L	1.00	08/20/2002 04:21	
Bromomethane	ND	1.0	ug/L	1.00	08/20/2002 04:21	
Surrogates(s)						
1-Chloro-2-fluorobenzene	84.8	70-130	%	1.00	08/20/2002 04:21	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	BH-P	Lab ID:	2002-08-0288 - 44
Sampled:	08/08/2002 10:57	Extracted:	8/20/2002 05:16
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/20/2002 05:16	
Vinyl chloride	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Chloroethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Methylene chloride	ND	5.0	ug/L	1.00	08/20/2002 05:16	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
1,1-Dichloroethane	0.76	0.50	ug/L	1.00	08/20/2002 05:16	
Chloroform	ND	0.50	ug/L	1.00	08/20/2002 05:16	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/20/2002 05:16	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Trichloroethene	0.59	0.50	ug/L	1.00	08/20/2002 05:16	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/20/2002 05:16	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Chlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Bromoform	ND	2.0	ug/L	1.00	08/20/2002 05:16	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/20/2002 05:16	
Chloromethane	ND	1.0	ug/L	1.00	08/20/2002 05:16	
Bromomethane	ND	1.0	ug/L	1.00	08/20/2002 05:16	
Surrogates(s)						
1-Chloro-2-fluorobenzene	73.3	70-130	%	1.00	08/20/2002 05:16	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**BH-Q**	Lab ID:	2002-08-0288 - 45
Sampled:	08/08/2002 11:55	Extracted:	8/20/2002 06:11
Matrix:	Water	QC Batch#:	2002/08/19-01.25

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/20/2002 06:11	
Vinyl chloride	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Chloroethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Methylene chloride	ND	5.0	ug/L	1.00	08/20/2002 06:11	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
1,1-Dichloroethane	0.99	0.50	ug/L	1.00	08/20/2002 06:11	
Chloroform	ND	0.50	ug/L	1.00	08/20/2002 06:11	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/20/2002 06:11	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Trichloroethene	0.98	0.50	ug/L	1.00	08/20/2002 06:11	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/20/2002 06:11	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Tetrachloroethene	2.5	0.50	ug/L	1.00	08/20/2002 06:11	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Chlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Bromoform	ND	2.0	ug/L	1.00	08/20/2002 06:11	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/20/2002 06:11	
Chloromethane	ND	1.0	ug/L	1.00	08/20/2002 06:11	
Bromomethane	ND	1.0	ug/L	1.00	08/20/2002 06:11	
Surrogates(s)						
1-Chloro-2-fluorobenzene	79.0	70-130	%	1.00	08/20/2002 06:11	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

Aqua Science Engineers, Inc.
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Project: J & A Truck Repair

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**MW-1**	Lab ID:	2002-08-0288 - 46
Sampled:	08/08/2002 14:55	Extracted:	8/21/2002 12:54
Matrix:	Water	QC Batch#:	2002/08/21-01.25

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/L	10.00	08/21/2002 12:54	
Vinyl chloride	130	5.0	ug/L	10.00	08/21/2002 12:54	
Chloroethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Trichlorofluoromethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Methylene chloride	ND	50	ug/L	10.00	08/21/2002 12:54	
trans-1,2-Dichloroethene	6.3	5.0	ug/L	10.00	08/21/2002 12:54	
cis-1,2-Dichloroethene	18	5.0	ug/L	10.00	08/21/2002 12:54	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Chloroform	ND	5.0	ug/L	10.00	08/21/2002 12:54	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Carbon tetrachloride	ND	5.0	ug/L	10.00	08/21/2002 12:54	
1,2-Dichloroethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Trichloroethene	49	5.0	ug/L	10.00	08/21/2002 12:54	
1,2-Dichloropropane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Bromodichloromethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
2-Chloroethylvinyl ether	ND	5.0	ug/L	10.00	08/21/2002 12:54	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	08/21/2002 12:54	
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	08/21/2002 12:54	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Tetrachloroethene	78	5.0	ug/L	10.00	08/21/2002 12:54	
Dibromochloromethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Chlorobenzene	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Bromoform	ND	20	ug/L	10.00	08/21/2002 12:54	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	08/21/2002 12:54	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	08/21/2002 12:54	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	08/21/2002 12:54	
Chloromethane	ND	10	ug/L	10.00	08/21/2002 12:54	
Bromomethane	ND	10	ug/L	10.00	08/21/2002 12:54	
Surrogates(s)						
1-Chloro-2-fluorobenzene	104.8	70-130	%	10.00	08/21/2002 12:54	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	MW-2	Lab ID:	2002-08-0288 - 47
Sampled:	08/08/2002 13:40	Extracted:	8/20/2002 22:35
Matrix:	Water	QC Batch#:	2002/08/20-01.26

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/20/2002 22:35	
Vinyl chloride	2.5	0.50	ug/L	1.00	08/20/2002 22:35	
Chloroethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Methylene chloride	ND	5.0	ug/L	1.00	08/20/2002 22:35	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
cis-1,2-Dichloroethene	31	0.50	ug/L	1.00	08/20/2002 22:35	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Chloroform	ND	0.50	ug/L	1.00	08/20/2002 22:35	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/20/2002 22:35	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Trichloroethene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/20/2002 22:35	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Tetrachloroethene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Chlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Bromoform	ND	2.0	ug/L	1.00	08/20/2002 22:35	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/20/2002 22:35	
Chloromethane	ND	1.0	ug/L	1.00	08/20/2002 22:35	
Bromomethane	ND	1.0	ug/L	1.00	08/20/2002 22:35	
Surrogates(s)						
1,4-Dichlorobutane	74.0	70-130	%	1.00	08/20/2002 22:35	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**MW-4**	Lab ID:	2002-08-0288 - 49
Sampled:	08/08/2002 14:15	Extracted:	8/21/2002 00:06
Matrix:	Water	QC Batch#:	2002/08/20-01.26

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/21/2002 00:06	
Vinyl chloride	0.89	0.50	ug/L	1.00	08/21/2002 00:06	
Chloroethane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Methylene chloride	ND	5.0	ug/L	1.00	08/21/2002 00:06	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/21/2002 00:06	
cis-1,2-Dichloroethene	13	0.50	ug/L	1.00	08/21/2002 00:06	
1,1-Dichloroethane	28	0.50	ug/L	1.00	08/21/2002 00:06	
Chloroform	ND	0.50	ug/L	1.00	08/21/2002 00:06	
1,1,1-Trichloroethane	0.54	0.50	ug/L	1.00	08/21/2002 00:06	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/21/2002 00:06	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Trichloroethene	12	0.50	ug/L	1.00	08/21/2002 00:06	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/21/2002 00:06	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/21/2002 00:06	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/21/2002 00:06	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Tetrachloroethene	19	0.50	ug/L	1.00	08/21/2002 00:06	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Chlorobenzene	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Bromoform	ND	2.0	ug/L	1.00	08/21/2002 00:06	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/21/2002 00:06	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/21/2002 00:06	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/21/2002 00:06	
Chloromethane	ND	1.0	ug/L	1.00	08/21/2002 00:06	
Bromomethane	ND	1.0	ug/L	1.00	08/21/2002 00:06	
Surrogates(s)						
1,4-Dichlorobutane	76.0	70-130	%	1.00	08/21/2002 00:06	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B | Test(s): 8021B

Method Blank | **Water** | **QC Batch # 2002/08/19-01.25**

MB: 2002/08/19-01.25-004 | Date Extracted: 08/19/2002 12:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	08/19/2002 12:24	
Vinyl chloride	ND	0.5	ug/L	08/19/2002 12:24	
Chloroethane	ND	0.5	ug/L	08/19/2002 12:24	
Trichlorofluoromethane	ND	0.5	ug/L	08/19/2002 12:24	
1,1-Dichloroethene	ND	0.5	ug/L	08/19/2002 12:24	
Methylene chloride	ND	5.0	ug/L	08/19/2002 12:24	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/19/2002 12:24	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/19/2002 12:24	
1,1-Dichloroethane	ND	0.5	ug/L	08/19/2002 12:24	
Chloroform	ND	0.5	ug/L	08/19/2002 12:24	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/19/2002 12:24	
Carbon tetrachloride	ND	0.5	ug/L	08/19/2002 12:24	
1,2-Dichloroethane	ND	0.5	ug/L	08/19/2002 12:24	
Trichloroethene	ND	0.5	ug/L	08/19/2002 12:24	
1,2-Dichloropropane	ND	0.5	ug/L	08/19/2002 12:24	
Bromodichloromethane	ND	0.5	ug/L	08/19/2002 12:24	
2-Chloroethylvinyl ether	ND	0.5	ug/L	08/19/2002 12:24	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/19/2002 12:24	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/19/2002 12:24	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/19/2002 12:24	
Tetrachloroethene	ND	0.5	ug/L	08/19/2002 12:24	
Dibromochloromethane	ND	0.5	ug/L	08/19/2002 12:24	
Chlorobenzene	ND	0.5	ug/L	08/19/2002 12:24	
Bromoform	ND	2.0	ug/L	08/19/2002 12:24	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/19/2002 12:24	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/19/2002 12:24	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/19/2002 12:24	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/19/2002 12:24	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/19/2002 12:24	
Chloromethane	ND	1.0	ug/L	08/19/2002 12:24	
Bromomethane	ND	1.0	ug/L	08/19/2002 12:24	
Surrogates(s)					
1-Chloro-2-fluorobenzene	96.0	70-130	%	08/19/2002 12:24	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B | Test(s): 8021B

Method Blank | **Water** | **QC Batch # 2002/08/20-01.25**

MB: 2002/08/20-01.25-004 | Date Extracted: 08/20/2002 13:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	08/20/2002 13:20	
Vinyl chloride	ND	0.5	ug/L	08/20/2002 13:20	
Chloroethane	ND	0.5	ug/L	08/20/2002 13:20	
Trichlorofluoromethane	ND	0.5	ug/L	08/20/2002 13:20	
1,1-Dichloroethene	ND	0.5	ug/L	08/20/2002 13:20	
Methylene chloride	ND	5.0	ug/L	08/20/2002 13:20	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/20/2002 13:20	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/20/2002 13:20	
1,1-Dichloroethane	ND	0.5	ug/L	08/20/2002 13:20	
Chloroform	ND	0.5	ug/L	08/20/2002 13:20	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/20/2002 13:20	
Carbon tetrachloride	ND	0.5	ug/L	08/20/2002 13:20	
1,2-Dichloroethane	ND	0.5	ug/L	08/20/2002 13:20	
Trichloroethene	ND	0.5	ug/L	08/20/2002 13:20	
1,2-Dichloropropane	ND	0.5	ug/L	08/20/2002 13:20	
Bromodichloromethane	ND	0.5	ug/L	08/20/2002 13:20	
2-Chloroethylvinyl ether	ND	0.5	ug/L	08/20/2002 13:20	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/20/2002 13:20	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/20/2002 13:20	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/20/2002 13:20	
Tetrachloroethene	ND	0.5	ug/L	08/20/2002 13:20	
Dibromochloromethane	ND	0.5	ug/L	08/20/2002 13:20	
Chlorobenzene	ND	0.5	ug/L	08/20/2002 13:20	
Bromoform	ND	2.0	ug/L	08/20/2002 13:20	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/20/2002 13:20	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/20/2002 13:20	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/20/2002 13:20	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/20/2002 13:20	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/20/2002 13:20	
Chloromethane	ND	1.0	ug/L	08/20/2002 13:20	
Bromomethane	ND	1.0	ug/L	08/20/2002 13:20	
Surrogates(s)					
1-Chloro-2-fluorobenzene	91.0	70-130	%	08/20/2002 13:20	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B — Test(s): 8021B
Method Blank — **Water** — **QC Batch # 2002/08/20-01.26**
MB: 2002/08/20-01.26-009 — Date Extracted: 08/20/2002 16:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	08/20/2002 16:21	
Vinyl chloride	ND	0.5	ug/L	08/20/2002 16:21	
Chloroethane	ND	0.5	ug/L	08/20/2002 16:21	
Trichlorofluoromethane	ND	0.5	ug/L	08/20/2002 16:21	
1,1-Dichloroethene	ND	0.5	ug/L	08/20/2002 16:21	
Methylene chloride	ND	5.0	ug/L	08/20/2002 16:21	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/20/2002 16:21	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/20/2002 16:21	
1,1-Dichloroethane	ND	0.5	ug/L	08/20/2002 16:21	
Chloroform	ND	0.5	ug/L	08/20/2002 16:21	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/20/2002 16:21	
Carbon tetrachloride	ND	0.5	ug/L	08/20/2002 16:21	
1,2-Dichloroethane	ND	0.5	ug/L	08/20/2002 16:21	
Trichloroethene	ND	0.5	ug/L	08/20/2002 16:21	
1,2-Dichloropropane	ND	0.5	ug/L	08/20/2002 16:21	
Bromodichloromethane	ND	0.5	ug/L	08/20/2002 16:21	
2-Chloroethylvinyl ether	ND	0.5	ug/L	08/20/2002 16:21	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/20/2002 16:21	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/20/2002 16:21	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/20/2002 16:21	
Tetrachloroethene	ND	0.5	ug/L	08/20/2002 16:21	
Dibromochloromethane	ND	0.5	ug/L	08/20/2002 16:21	
Chlorobenzene	ND	0.5	ug/L	08/20/2002 16:21	
Bromoform	ND	2.0	ug/L	08/20/2002 16:21	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/20/2002 16:21	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/20/2002 16:21	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/20/2002 16:21	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/20/2002 16:21	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/20/2002 16:21	
Chloromethane	ND	1.0	ug/L	08/20/2002 16:21	
Bromomethane	ND	1.0	ug/L	08/20/2002 16:21	
Surrogates(s)					
1,4-Dichlorobutane	80.0	70-130	%	08/20/2002 16:21	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

Aqua Science Engineers, Inc.
Attn.: Erik Paddleford
208 West El Pintado
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: J & A Truck Repair

Received: 08/13/2002 14:00

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B | Water | Test(s): 8021B
Method Blank | **QC Batch # 2002/08/21-01.25**
MB: 2002/08/21-01.25-005 | Date Extracted: 08/21/2002 12:03

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	08/21/2002 12:03	
Vinyl chloride	ND	0.5	ug/L	08/21/2002 12:03	
Chloroethane	ND	0.5	ug/L	08/21/2002 12:03	
Trichlorofluoromethane	ND	0.5	ug/L	08/21/2002 12:03	
1,1-Dichloroethene	ND	0.5	ug/L	08/21/2002 12:03	
Methylene chloride	ND	5.0	ug/L	08/21/2002 12:03	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/21/2002 12:03	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/21/2002 12:03	
1,1-Dichloroethane	ND	0.5	ug/L	08/21/2002 12:03	
Chloroform	ND	0.5	ug/L	08/21/2002 12:03	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/21/2002 12:03	
Carbon tetrachloride	ND	0.5	ug/L	08/21/2002 12:03	
1,2-Dichloroethane	ND	0.5	ug/L	08/21/2002 12:03	
Trichloroethene	ND	0.5	ug/L	08/21/2002 12:03	
1,2-Dichloropropane	ND	0.5	ug/L	08/21/2002 12:03	
Bromodichloromethane	ND	0.5	ug/L	08/21/2002 12:03	
2-Chloroethylvinyl ether	ND	0.5	ug/L	08/21/2002 12:03	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/21/2002 12:03	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/21/2002 12:03	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/21/2002 12:03	
Tetrachloroethene	ND	0.5	ug/L	08/21/2002 12:03	
Dibromochloromethane	ND	0.5	ug/L	08/21/2002 12:03	
Chlorobenzene	ND	0.5	ug/L	08/21/2002 12:03	
Bromoform	ND	2.0	ug/L	08/21/2002 12:03	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/21/2002 12:03	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/21/2002 12:03	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/21/2002 12:03	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/21/2002 12:03	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/21/2002 12:03	
Chloromethane	ND	1.0	ug/L	08/21/2002 12:03	
Bromomethane	ND	1.0	ug/L	08/21/2002 12:03	
Surrogates(s)					
1-Chloro-2-fluorobenzene	95.5	70-130	%	08/21/2002 12:03	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Laboratory Control Spike | **Water** | **QC Batch # 2002/08/19-01.25**

LCS 2002/08/19-01.25-002 Extracted: 08/19/2002 Analyzed: 08/19/2002 10:55

LCSD 2002/08/19-01.25-003 Extracted: 08/19/2002 Analyzed: 08/19/2002 11:40

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
1,1-Dichloroethene	18.9	19.2	20.0	94.5	96.0	1.6	70-130	20		
Trichloroethene	20.0	20.6	20.0	100.0	103.0	3.0	70-130	20		
Chlorobenzene	19.6	20.8	20.0	98.0	104.0	5.9	70-130	20		
Surrogates(s)										
1-Chloro-2-fluorobenzene	20.3	22.0	20	101.5	110.0		70-130			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Laboratory Control Spike **Water** **QC Batch # 2002/08/20-01.25**

LCS 2002/08/20-01.25-002 Extracted: 08/20/2002 Analyzed: 08/20/2002 10:30

LCSD 2002/08/20-01.25-003 Extracted: 08/20/2002 Analyzed: 08/20/2002 11:25

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
1,1-Dichloroethene	19.7	19.2	20.0	98.5	96.0	2.6	70-130	20		
Trichloroethene	21.3	20.6	20.0	106.5	103.0	3.3	70-130	20		
Chlorobenzene	21.8	21.1	20.0	109.0	105.5	3.3	70-130	20		
Surrogates(s)										
1-Chloro-2-fluorobenzene	22.4	22.6	20	112.0	113.0		70-130			

Submission #: 2002-08-0288

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Laboratory Control Spike **Water** **QC Batch # 2002/08/20-01.26**

LCS 2002/08/20-01.26-010 Extracted: 08/20/2002 Analyzed: 08/20/2002 17:16

LCSD 2002/08/20-01.26-011 Extracted: 08/20/2002 Analyzed: 08/20/2002 18:01

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
1,1-Dichloroethene	23.3	24.7	20.0	116.5	123.5	5.8	70-130	20		
Trichloroethene	22.4	20.2	20.0	112.0	101.0	10.3	70-130	20		
Chlorobenzene	20.3	19.9	20.0	101.5	99.5	2.0	70-130	20		
Surrogates(s)										
1,4-Dichlorobutane	23.3	23.0	30	77.7	76.7		70-130			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8021B

Laboratory Control Spike | **Water** | **QC Batch # 2002/08/21-01.25**

LCS 2002/08/21-01.25-002 Extracted: 08/21/2002 Analyzed: 08/21/2002 09:08

LCSD 2002/08/21-01.25-003 Extracted: 08/21/2002 Analyzed: 08/21/2002 09:56

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
1,1-Dichloroethene	19.7	19.7	20.0	98.5	98.5	0.0	70-130	20		
Trichloroethene	21.4	21.8	20.0	107.0	109.0	1.9	70-130	20		
Chlorobenzene	22.0	22.9	20.0	110.0	114.5	4.0	70-130	20		
Surrogates(s)										
1-Chloro-2-fluorobenzene	23.7	23.7	20	118.5	118.5		70-130			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B — Test(s): 8021B

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2002/08/19-01.25**

BH-O-8 >> MS — Lab ID: 2002-08-0288 - 042

MS: 2002/08/19-01.25-019 — Extracted: 08/20/2002 — Analyzed: 08/20/2002 01:31 — Dilution: 1.00

MSD: 2002/08/19-01.25-020 — Extracted: 08/20/2002 — Analyzed: 08/20/2002 02:29 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
1,1-Dichloroethene	16.9	20.0	ND	20.0	84.5	100.0	16.8	70-130	20		
Trichloroethene	61.8	63.4	62.1	20.0	-1.5	6.5	320.	70-130	20	msl	msl
Chlorobenzene	19.7	22.3	ND	20.0	98.5	111.5	12.4	70-130	20		
Surrogate(s)											
1-Chloro-2-fluorobenzene	20.2	23.5		20	101.0	117.6		70-130			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B — Test(s): 8021B

Matrix Spike (MS / MSD) — **Water** — **QC Batch # 2002/08/20-01.26**

MW-4 >> MS — Lab ID: 2002-08-0288 - 049

MS: 2002/08/20-01.26-023 — Extracted: 08/21/2002 — Analyzed: 08/21/2002 03:09 — Dilution: 1.00

MSD: 2002/08/20-01.26-024 — Extracted: 08/21/2002 — Analyzed: 08/21/2002 03:54 — Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
1,1-Dichloroethene	24.7	23.2	ND	20.0	123.5	116.0	6.3	70-130	20		
Trichloroethene	32.9	32.2	11.9	20.0	105.0	101.5	3.4	70-130	20		
Chlorobenzene	19.0	19.6	ND	20.0	95.0	98.0	3.1	70-130	20		
Surrogate(s)											
1,4-Dichlorobutane	22.7	24.5		30	75.7	81.7		70-130			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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Project: J & A Truck Repair

Received: 08/13/2002 14:00

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CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

msl

Analyte MS/MSD recoveries were out of QC limits due to Parent sample target analyte concentration exceeding the spiked amount by greater than 4X.

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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Project: J & A Truck Repair

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	08/08/2002 13:10	Water	48

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

Aqua Science Engineers, Inc.
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CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8021B
Sample ID:	**MW-3**	Lab ID:	2002-08-0288 - 48
Sampled:	08/08/2002 13:10	Extracted:	8/22/2002 17:10
Matrix:	Water	QC Batch#:	2002/08/22-01.26

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	5.0	ug/L	5.00	08/22/2002 17:10	
Vinyl chloride	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Chloroethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Trichlorofluoromethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
1,1-Dichloroethene	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Methylene chloride	ND	25	ug/L	5.00	08/22/2002 17:10	
trans-1,2-Dichloroethene	ND	2.5	ug/L	5.00	08/22/2002 17:10	
cis-1,2-Dichloroethene	25	2.5	ug/L	5.00	08/22/2002 17:10	
1,1-Dichloroethane	17	2.5	ug/L	5.00	08/22/2002 17:10	
Chloroform	ND	2.5	ug/L	5.00	08/22/2002 17:10	
1,1,1-Trichloroethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Carbon tetrachloride	ND	2.5	ug/L	5.00	08/22/2002 17:10	
1,2-Dichloroethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Trichloroethene	19	2.5	ug/L	5.00	08/22/2002 17:10	
1,2-Dichloropropane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Bromodichloromethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
2-Chloroethylvinyl ether	ND	2.5	ug/L	5.00	08/22/2002 17:10	
trans-1,3-Dichloropropene	ND	2.5	ug/L	5.00	08/22/2002 17:10	
cis-1,3-Dichloropropene	ND	2.5	ug/L	5.00	08/22/2002 17:10	
1,1,2-Trichloroethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Tetrachloroethene	58	2.5	ug/L	5.00	08/22/2002 17:10	
Dibromochloromethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Chlorobenzene	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Bromoform	ND	10	ug/L	5.00	08/22/2002 17:10	
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
1,3-Dichlorobenzene	ND	2.5	ug/L	5.00	08/22/2002 17:10	
1,4-Dichlorobenzene	ND	2.5	ug/L	5.00	08/22/2002 17:10	
1,2-Dichlorobenzene	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Trichlorotrifluoroethane	ND	2.5	ug/L	5.00	08/22/2002 17:10	
Chloromethane	ND	5.0	ug/L	5.00	08/22/2002 17:10	
Bromomethane	ND	5.0	ug/L	5.00	08/22/2002 17:10	
Surrogates(s)						
2-Bromochlorobenzene	84.6	70-130	%	5.00	08/22/2002 17:10	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B — Test(s): 8021B
Method Blank — **Water** — **QC Batch # 2002/08/22-01.26**
MB: 2002/08/22-01.26-004 — Date Extracted: 08/22/2002 12:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	08/22/2002 12:00	
Vinyl chloride	ND	0.5	ug/L	08/22/2002 12:00	
Chloroethane	ND	0.5	ug/L	08/22/2002 12:00	
Trichlorofluoromethane	ND	0.5	ug/L	08/22/2002 12:00	
1,1-Dichloroethene	ND	0.5	ug/L	08/22/2002 12:00	
Methylene chloride	ND	5.0	ug/L	08/22/2002 12:00	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/22/2002 12:00	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/22/2002 12:00	
1,1-Dichloroethane	ND	0.5	ug/L	08/22/2002 12:00	
Chloroform	ND	0.5	ug/L	08/22/2002 12:00	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/22/2002 12:00	
Carbon tetrachloride	ND	0.5	ug/L	08/22/2002 12:00	
1,2-Dichloroethane	ND	0.5	ug/L	08/22/2002 12:00	
Trichloroethene	ND	0.5	ug/L	08/22/2002 12:00	
1,2-Dichloropropane	ND	0.5	ug/L	08/22/2002 12:00	
Bromodichloromethane	ND	0.5	ug/L	08/22/2002 12:00	
2-Chloroethylvinyl ether	ND	0.5	ug/L	08/22/2002 12:00	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/22/2002 12:00	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/22/2002 12:00	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/22/2002 12:00	
Tetrachloroethene	ND	0.5	ug/L	08/22/2002 12:00	
Dibromochloromethane	ND	0.5	ug/L	08/22/2002 12:00	
Chlorobenzene	ND	0.5	ug/L	08/22/2002 12:00	
Bromoform	ND	2.0	ug/L	08/22/2002 12:00	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/22/2002 12:00	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/22/2002 12:00	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/22/2002 12:00	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/22/2002 12:00	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/22/2002 12:00	
Chloromethane	ND	1.0	ug/L	08/22/2002 12:00	
Bromomethane	ND	1.0	ug/L	08/22/2002 12:00	
Surrogates(s)					
1,4-Dichlorobutane	78.0	70-130	%	08/22/2002 12:00	
2-Bromochlorobenzene	86.3	70-130	%	08/22/2002 12:00	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021

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Project: J & A Truck Repair

Received: 08/13/2002 14:00

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B — Test(s): 8021B

Laboratory Control Spike — **Water** — **QC Batch # 2002/08/22-01.26**

LCS 2002/08/22-01.26-002 — Extracted: 08/22/2002 — Analyzed: 08/22/2002 10:33
LCSD 2002/08/22-01.26-003 — Extracted: 08/22/2002 — Analyzed: 08/22/2002 11:17

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
1,1-Dichloroethene	23.4	23.3	20.0	117.0	116.5	0.4	70-130	20		
Trichloroethene	19.4	19.4	20.0	97.0	97.0	0.0	70-130	20		
Chlorobenzene	19.4	19.4	20.0	97.0	97.0	0.0	70-130	20		
Surrogates(s)										
2-Bromochlorobenzene	22.1	22.6	30	73.7	75.3		70-130			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford
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Project: J & A Truck Repair

Received: 08/13/2002 14:00

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
BH-H-4`	08/07/2002 08:26	Soil	1
BH-H-12`	08/07/2002 08:49	Soil	3
BH-I-8`	08/07/2002 09:36	Soil	5
BH-I-12`	08/07/2002 09:39	Soil	6
BH-J-4`	08/07/2002 10:14	Soil	8
BH-J-12`	08/07/2002 10:27	Soil	10
BH-K-4`	08/07/2002 11:53	Soil	12
BH-K-12`	08/07/2002 12:03	Soil	14
BH-L-3`	08/07/2002 13:12	Soil	16
BH-M-4`	08/07/2002 14:03	Soil	18
BH-M-12`	08/07/2002 14:13	Soil	20
BH-N-4`	08/08/2002 08:13	Soil	22
BH-N-12`	08/08/2002 08:22	Soil	24
BH-O-4`	08/08/2002 08:33	Soil	25
BH-P-4`	08/08/2002 10:33	Soil	28
BH-P-12`	08/08/2002 10:44	Soil	30
BH-Q-4`	08/08/2002 11:10	Soil	31
BH-Q-12`	08/08/2002 11:21	Soil	33

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	BH-H-4	Lab ID:	2002-08-0288 - 1
Sampled:	08/07/2002 08:26	Extracted:	8/16/2002 12:55
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 12:55	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 12:55	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 12:55	
Surrogates(s)						
4-Bromofluorobenzene	86.9	74-121	%	1.00	08/16/2002 12:55	
1,2-Dichloroethane-d4	94.0	70-121	%	1.00	08/16/2002 12:55	
Toluene-d8	95.5	81-117	%	1.00	08/16/2002 12:55	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

Aqua Science Engineers, Inc.
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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	BH-H-12'	Lab ID:	2002-08-0288 - 3
Sampled:	08/07/2002 08:49	Extracted:	8/16/2002 13:22
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 13:22	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 13:22	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:22	
Surrogates(s)						
4-Bromofluorobenzene	95.5	74-121	%	1.00	08/16/2002 13:22	
1,2-Dichloroethane-d4	98.4	70-121	%	1.00	08/16/2002 13:22	
Toluene-d8	96.6	81-117	%	1.00	08/16/2002 13:22	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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Received: 08/13/2002 14:00

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-I-8'**	Lab ID:	2002-08-0288 - 5
Sampled:	08/07/2002 09:36	Extracted:	8/16/2002 13:50
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 13:50	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 13:50	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 13:50	
Surrogates(s)						
4-Bromofluorobenzene	87.3	74-121	%	1.00	08/16/2002 13:50	
1,2-Dichloroethane-d4	100.8	70-121	%	1.00	08/16/2002 13:50	
Toluene-d8	101.4	81-117	%	1.00	08/16/2002 13:50	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-I-12'**	Lab ID:	2002-08-0288 - 6
Sampled:	08/07/2002 09:39	Extracted:	8/16/2002 14:17
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 14:17	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 14:17	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:17	
Surrogates(s)						
4-Bromofluorobenzene	95.2	74-121	%	1.00	08/16/2002 14:17	
1,2-Dichloroethane-d4	102.5	70-121	%	1.00	08/16/2002 14:17	
Toluene-d8	98.1	81-117	%	1.00	08/16/2002 14:17	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	BH-J-4'	Lab ID:	2002-08-0288 - 8
Sampled:	08/07/2002 10:14	Extracted:	8/16/2002 14:45
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 14:45	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 14:45	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 14:45	
Surrogates(s)						
4-Bromofluorobenzene	88.5	74-121	%	1.00	08/16/2002 14:45	
1,2-Dichloroethane-d4	96.7	70-121	%	1.00	08/16/2002 14:45	
Toluene-d8	99.6	81-117	%	1.00	08/16/2002 14:45	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

Aqua Science Engineers, Inc.
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Received: 08/13/2002 14:00

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-J-12'**	Lab ID:	2002-08-0288 - 10
Sampled:	08/07/2002 10:27	Extracted:	8/16/2002 16:09
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 16:09	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 16:09	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:09	
Surrogates(s)						
4-Bromofluorobenzene	96.5	74-121	%	1.00	08/16/2002 16:09	
1,2-Dichloroethane-d4	109.6	70-121	%	1.00	08/16/2002 16:09	
Toluene-d8	98.8	81-117	%	1.00	08/16/2002 16:09	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	BH-K-4'	Lab ID:	2002-08-0288 - 12
Sampled:	08/07/2002 11:53	Extracted:	8/16/2002 16:38
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 16:38	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 16:38	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 16:38	
Surrogates(s)						
4-Bromofluorobenzene	88.4	74-121	%	1.00	08/16/2002 16:38	
1,2-Dichloroethane-d4	92.8	70-121	%	1.00	08/16/2002 16:38	
Toluene-d8	100.6	81-117	%	1.00	08/16/2002 16:38	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-K-12'**	Lab ID:	2002-08-0288 - 14
Sampled:	08/07/2002 12:03	Extracted:	8/16/2002 17:06
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 17:06	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 17:06	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:06	
Surrogates(s)						
4-Bromofluorobenzene	90.6	74-121	%	1.00	08/16/2002 17:06	
1,2-Dichloroethane-d4	101.0	70-121	%	1.00	08/16/2002 17:06	
Toluene-d8	100.1	81-117	%	1.00	08/16/2002 17:06	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	BH-L-3'	Lab ID:	2002-08-0288 - 16
Sampled:	08/07/2002 13:12	Extracted:	8/16/2002 17:35
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 17:35	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 17:35	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 17:35	
Surrogates(s)						
4-Bromofluorobenzene	94.4	74-121	%	1.00	08/16/2002 17:35	
1,2-Dichloroethane-d4	94.8	70-121	%	1.00	08/16/2002 17:35	
Toluene-d8	97.4	81-117	%	1.00	08/16/2002 17:35	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

Aqua Science Engineers, Inc.

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	BH-M-4'	Lab ID:	2002-08-0288 - 18
Sampled:	08/07/2002 14:03	Extracted:	8/16/2002 18:03
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 18:03	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 18:03	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
cis-1,2-Dichloroethene	17	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:03	
Surrogates(s)						
4-Bromofluorobenzene	86.4	74-121	%	1.00	08/16/2002 18:03	
1,2-Dichloroethane-d4	93.9	70-121	%	1.00	08/16/2002 18:03	
Toluene-d8	97.2	81-117	%	1.00	08/16/2002 18:03	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-M-12'**	Lab ID:	2002-08-0288 - 20
Sampled:	08/07/2002 14:13	Extracted:	8/16/2002 18:31
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 18:31	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 18:31	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:31	
Surrogates(s)						
4-Bromofluorobenzene	91.7	74-121	%	1.00	08/16/2002 18:31	
1,2-Dichloroethane-d4	100.6	70-121	%	1.00	08/16/2002 18:31	
Toluene-d8	102.7	81-117	%	1.00	08/16/2002 18:31	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-N-4**	Lab ID:	2002-08-0288 - 22
Sampled:	08/08/2002 08:13	Extracted:	8/16/2002 18:59
Matrix:	Soil	QC Batch#:	2002/08/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/16/2002 18:59	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Chloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Methylene chloride	ND	10	ug/Kg	1.00	08/16/2002 18:59	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
cis-1,2-Dichloroethene	17	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Chloroform	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Trichloroethene	89	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Tetrachloroethene	16	5.0	ug/Kg	1.00	08/16/2002 18:59	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Bromoform	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Chloromethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Bromomethane	ND	5.0	ug/Kg	1.00	08/16/2002 18:59	
Surrogates(s)						
4-Bromofluorobenzene	88.2	74-121	%	1.00	08/16/2002 18:59	
1,2-Dichloroethane-d4	93.5	70-121	%	1.00	08/16/2002 18:59	
Toluene-d8	97.1	81-117	%	1.00	08/16/2002 18:59	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	BH-N-12'	Lab ID:	2002-08-0288 - 24
Sampled:	08/08/2002 08:22	Extracted:	8/20/2002 11:31
Matrix:	Soil	QC Batch#:	2002/08/20-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/20/2002 11:31	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Chloroethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Methylene chloride	ND	10	ug/Kg	1.00	08/20/2002 11:31	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Chloroform	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Bromoform	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Chloromethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Bromomethane	ND	5.0	ug/Kg	1.00	08/20/2002 11:31	
Surrogates(s)						
4-Bromofluorobenzene	94.1	74-121	%	1.00	08/20/2002 11:31	
1,2-Dichloroethane-d4	87.3	70-121	%	1.00	08/20/2002 11:31	
Toluene-d8	99.5	81-117	%	1.00	08/20/2002 11:31	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-O-4'**	Lab ID:	2002-08-0288 - 25
Sampled:	08/08/2002 08:33	Extracted:	8/19/2002 15:28
Matrix:	Soil	QC Batch#:	2002/08/19-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/19/2002 15:28	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Chloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Methylene chloride	ND	10	ug/Kg	1.00	08/19/2002 15:28	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Chloroform	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Trichloroethene	13	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Tetrachloroethene	20	5.0	ug/Kg	1.00	08/19/2002 15:28	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Bromoform	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Chloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Bromomethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:28	
Surrogates(s)						
4-Bromofluorobenzene	86.4	74-121	%	1.00	08/19/2002 15:28	
1,2-Dichloroethane-d4	83.6	70-121	%	1.00	08/19/2002 15:28	
Toluene-d8	92.0	81-117	%	1.00	08/19/2002 15:28	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-P-4**	Lab ID:	2002-08-0288 - 28
Sampled:	08/08/2002 10:33	Extracted:	8/19/2002 15:55
Matrix:	Soil	QC Batch#:	2002/08/19-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/19/2002 15:55	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Chloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Methylene chloride	ND	10	ug/Kg	1.00	08/19/2002 15:55	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Chloroform	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Bromoform	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Chloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Bromomethane	ND	5.0	ug/Kg	1.00	08/19/2002 15:55	
Surrogates(s)						
4-Bromofluorobenzene	91.4	74-121	%	1.00	08/19/2002 15:55	
1,2-Dichloroethane-d4	91.5	70-121	%	1.00	08/19/2002 15:55	
Toluene-d8	95.4	81-117	%	1.00	08/19/2002 15:55	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	BH-P-12'	Lab ID:	2002-08-0288 - 30
Sampled:	08/08/2002 10:44	Extracted:	8/19/2002 16:22
Matrix:	Soil	QC Batch#:	2002/08/19-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/19/2002 16:22	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Chloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Methylene chloride	ND	10	ug/Kg	1.00	08/19/2002 16:22	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Chloroform	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Bromoform	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Chloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Bromomethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:22	
Surrogates(s)						
4-Bromofluorobenzene	90.8	74-121	%	1.00	08/19/2002 16:22	
1,2-Dichloroethane-d4	97.5	70-121	%	1.00	08/19/2002 16:22	
Toluene-d8	93.9	81-117	%	1.00	08/19/2002 16:22	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

Aqua Science Engineers, Inc.

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Project: J & A Truck Repair

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-Q-4'**	Lab ID:	2002-08-0288 - 31
Sampled:	08/08/2002 11:10	Extracted:	8/19/2002 16:49
Matrix:	Soil	QC Batch#:	2002/08/19-01.09

Analysis Flag: is (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/19/2002 16:49	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Chloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Methylene chloride	ND	10	ug/Kg	1.00	08/19/2002 16:49	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Chloroform	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Tetrachloroethene	7.2	5.0	ug/Kg	1.00	08/19/2002 16:49	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Bromoform	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Chloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Bromomethane	ND	5.0	ug/Kg	1.00	08/19/2002 16:49	
Surrogates(s)						
4-Bromofluorobenzene	72.1	74-121	%	1.00	08/19/2002 16:49	sl
1,2-Dichloroethane-d4	107.7	70-121	%	1.00	08/19/2002 16:49	
Toluene-d8	95.0	81-117	%	1.00	08/19/2002 16:49	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Prep(s):	5030B/5035	Test(s):	8260B
Sample ID:	**BH-Q-12'**	Lab ID:	2002-08-0288 - 33
Sampled:	08/08/2002 11:21	Extracted:	8/19/2002 17:16
Matrix:	Soil	QC Batch#:	2002/08/19-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	08/19/2002 17:16	
Vinyl chloride	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Chloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Methylene chloride	ND	10	ug/Kg	1.00	08/19/2002 17:16	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Chloroform	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Trichloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
2-Chloroethylvinyl ether	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Chlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Bromoform	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Chloromethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Bromomethane	ND	5.0	ug/Kg	1.00	08/19/2002 17:16	
Surrogates(s)						
4-Bromofluorobenzene	88.8	74-121	%	1.00	08/19/2002 17:16	
1,2-Dichloroethane-d4	93.3	70-121	%	1.00	08/19/2002 17:16	
Toluene-d8	97.0	81-117	%	1.00	08/19/2002 17:16	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Method Blank **Soil** **QC Batch # 2002/08/16-01.09**

MB: 2002/08/16-01.09-004 Date Extracted: 08/16/2002 11:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromodichloromethane	ND	5.0	ug/Kg	08/16/2002 11:27	
Bromoform	ND	5.0	ug/Kg	08/16/2002 11:27	
Bromomethane	ND	10	ug/Kg	08/16/2002 11:27	
Carbon tetrachloride	ND	5.0	ug/Kg	08/16/2002 11:27	
Chlorobenzene	ND	5.0	ug/Kg	08/16/2002 11:27	
Chloroethane	ND	10	ug/Kg	08/16/2002 11:27	
2-Chloroethylvinyl ether	ND	50	ug/Kg	08/16/2002 11:27	
Chloroform	ND	5.0	ug/Kg	08/16/2002 11:27	
Chloromethane	ND	10	ug/Kg	08/16/2002 11:27	
Dibromochloromethane	ND	5.0	ug/Kg	08/16/2002 11:27	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	08/16/2002 11:27	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	08/16/2002 11:27	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	08/16/2002 11:27	
Dichlorodifluoromethane	ND	10	ug/Kg	08/16/2002 11:27	
1,1-Dichloroethane	ND	5.0	ug/Kg	08/16/2002 11:27	
1,2-Dichloroethane	ND	5.0	ug/Kg	08/16/2002 11:27	
1,1-Dichloroethene	ND	5.0	ug/Kg	08/16/2002 11:27	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	08/16/2002 11:27	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	08/16/2002 11:27	
1,2-Dichloropropane	ND	5.0	ug/Kg	08/16/2002 11:27	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	08/16/2002 11:27	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	08/16/2002 11:27	
Methylene chloride	ND	10.0	ug/Kg	08/16/2002 11:27	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	08/16/2002 11:27	
Tetrachloroethene	ND	5.0	ug/Kg	08/16/2002 11:27	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	08/16/2002 11:27	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	08/16/2002 11:27	
Trichloroethene	ND	5.0	ug/Kg	08/16/2002 11:27	
Trichlorofluoromethane	ND	5.0	ug/Kg	08/16/2002 11:27	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	08/16/2002 11:27	
Vinyl chloride	ND	5.0	ug/Kg	08/16/2002 11:27	
Surrogates(s)					
4-Bromofluorobenzene	91.1	74-121	%	08/16/2002 11:27	
1,2-Dichloroethane-d4	79.8	70-121	%	08/16/2002 11:27	
Toluene-d8	88.3	81-117	%	08/16/2002 11:27	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035 Test(s): 8260B
Method Blank **Soil** **QC Batch # 2002/08/19-01.09**
MB: 2002/08/19-01 09-007 Date Extracted: 08/19/2002 13:38

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromodichloromethane	ND	5.0	ug/Kg	08/19/2002 13:38	
Bromoform	ND	5.0	ug/Kg	08/19/2002 13:38	
Bromomethane	ND	10	ug/Kg	08/19/2002 13:38	
Carbon tetrachloride	ND	5.0	ug/Kg	08/19/2002 13:38	
Chlorobenzene	ND	5.0	ug/Kg	08/19/2002 13:38	
Chloroethane	ND	10	ug/Kg	08/19/2002 13:38	
2-Chloroethylvinyl ether	ND	50	ug/Kg	08/19/2002 13:38	
Chloroform	ND	5.0	ug/Kg	08/19/2002 13:38	
Chloromethane	ND	10	ug/Kg	08/19/2002 13:38	
Dibromochloromethane	ND	5.0	ug/Kg	08/19/2002 13:38	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	08/19/2002 13:38	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	08/19/2002 13:38	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	08/19/2002 13:38	
Dichlorodifluoromethane	ND	10	ug/Kg	08/19/2002 13:38	
1,1-Dichloroethane	ND	5.0	ug/Kg	08/19/2002 13:38	
1,2-Dichloroethane	ND	5.0	ug/Kg	08/19/2002 13:38	
1,1-Dichloroethene	ND	5.0	ug/Kg	08/19/2002 13:38	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	08/19/2002 13:38	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	08/19/2002 13:38	
1,2-Dichloropropane	ND	5.0	ug/Kg	08/19/2002 13:38	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	08/19/2002 13:38	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	08/19/2002 13:38	
Methylene chloride	ND	10.0	ug/Kg	08/19/2002 13:38	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	08/19/2002 13:38	
Tetrachloroethene	ND	5.0	ug/Kg	08/19/2002 13:38	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	08/19/2002 13:38	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	08/19/2002 13:38	
Trichloroethene	ND	5.0	ug/Kg	08/19/2002 13:38	
Trichlorofluoromethane	ND	5.0	ug/Kg	08/19/2002 13:38	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	08/19/2002 13:38	
Vinyl chloride	ND	5.0	ug/Kg	08/19/2002 13:38	
Surrogates(s)					
4-Bromofluorobenzene	94.7	74-121	%	08/19/2002 13:38	
1,2-Dichloroethane-d4	86.0	70-121	%	08/19/2002 13:38	
Toluene-d8	96.1	81-117	%	08/19/2002 13:38	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Method Blank **Soil** **QC Batch # 2002/08/20-01.09**

MB: 2002/08/20-01.09-004 Date Extracted: 08/20/2002 11:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromodichloromethane	ND	5.0	ug/Kg	08/20/2002 11:05	
Bromoform	ND	5.0	ug/Kg	08/20/2002 11:05	
Bromomethane	ND	10	ug/Kg	08/20/2002 11:05	
Carbon tetrachloride	ND	5.0	ug/Kg	08/20/2002 11:05	
Chlorobenzene	ND	5.0	ug/Kg	08/20/2002 11:05	
Chloroethane	ND	10	ug/Kg	08/20/2002 11:05	
2-Chloroethylvinyl ether	ND	50	ug/Kg	08/20/2002 11:05	
Chloroform	ND	5.0	ug/Kg	08/20/2002 11:05	
Chloromethane	ND	10	ug/Kg	08/20/2002 11:05	
Dibromochloromethane	ND	5.0	ug/Kg	08/20/2002 11:05	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	08/20/2002 11:05	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	08/20/2002 11:05	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	08/20/2002 11:05	
Dichlorodifluoromethane	ND	10	ug/Kg	08/20/2002 11:05	
1,1-Dichloroethane	ND	5.0	ug/Kg	08/20/2002 11:05	
1,2-Dichloroethane	ND	5.0	ug/Kg	08/20/2002 11:05	
1,1-Dichloroethene	ND	5.0	ug/Kg	08/20/2002 11:05	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	08/20/2002 11:05	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	08/20/2002 11:05	
1,2-Dichloropropane	ND	5.0	ug/Kg	08/20/2002 11:05	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	08/20/2002 11:05	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	08/20/2002 11:05	
Methylene chloride	ND	10.0	ug/Kg	08/20/2002 11:05	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	08/20/2002 11:05	
Tetrachloroethene	ND	5.0	ug/Kg	08/20/2002 11:05	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	08/20/2002 11:05	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	08/20/2002 11:05	
Trichloroethene	ND	5.0	ug/Kg	08/20/2002 11:05	
Trichlorofluoromethane	ND	5.0	ug/Kg	08/20/2002 11:05	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	08/20/2002 11:05	
Vinyl chloride	ND	5.0	ug/Kg	08/20/2002 11:05	
Surrogates(s)					
4-Bromofluorobenzene	91.3	74-121	%	08/20/2002 11:05	
1,2-Dichloroethane-d4	84.1	70-121	%	08/20/2002 11:05	
Toluene-d8	96.7	81-117	%	08/20/2002 11:05	

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2002/08/16-01.09**

LCS 2002/08/16-01.09-002 Extracted: 08/16/2002 Analyzed: 08/16/2002 10:27
LCSD 2002/08/16-01.09-003 Extracted: 08/16/2002 Analyzed: 08/16/2002 11:01

Compound	Conc. ug/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chlorobenzene	95.4	101	100.0	95.4	101.0	5.7	61-121	20		
1,1-Dichloroethene	89.0	91.7	100.0	89.0	91.7	3.0	65-125	20		
Trichloroethene	99.1	92.8	100.0	99.1	92.8	6.6	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	462	473	500	92.4	94.6		74-121			
1,2-Dichloroethane-d4	424	410	500	84.8	82.0		70-121			
Toluene-d8	477	455	500	95.4	91.0		81-117			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2002/08/19-01.09**

LCS 2002/08/19-01.09-005 Extracted: 08/19/2002 Analyzed: 08/19/2002 12:39
LCSD 2002/08/19-01.09-006 Extracted: 08/19/2002 Analyzed: 08/19/2002 13:11

Compound	Conc. ug/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chlorobenzene	98.3	93.5	100.0	98.3	93.5	5.0	61-121	20		
1,1-Dichloroethene	88.6	83.0	100.0	88.6	83.0	6.5	65-125	20		
Trichloroethene	99.1	104	100.0	99.1	104.0	4.8	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	480	459	500	96.0	91.8		74-121			
1,2-Dichloroethane-d4	413	432	500	82.6	86.4		70-121			
Toluene-d8	480	504	500	96.0	100.8		81-117			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

Aqua Science Engineers, Inc.
Attn.: Erik Paddleford
208 West El Pintado
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: J & A Truck Repair

Received: 08/13/2002 14:00

SEVERN TRENT LABORATORY
STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2002/08/20-01.09**

LCS 2002/08/20-01.09-002 Extracted: 08/20/2002 Analyzed: 08/20/2002 10:06
LCSD 2002/08/20-01.09-003 Extracted: 08/20/2002 Analyzed: 08/20/2002 10:39

Compound	Conc. ug/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Chlorobenzene	101	96.9	100.0	101.0	96.9	4.1	61-121	20		
1,1-Dichloroethene	85.8	84.9	100.0	85.8	84.9	1.1	65-125	20		
Trichloroethene	99.4	97.5	100.0	99.4	97.5	1.9	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	475	464	500	95.0	92.8		74-121			
1,2-Dichloroethane-d4	407	410	500	81.4	82.0		70-121			
Toluene-d8	485	465	500	97.0	93.0		81-117			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford
208 West El Pintado
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: J & A Truck Repair

Received: 08/13/2002 14:00

SEVERN TRENT LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5035 Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/08/16-01.09**

BH-J-4 >> MS Lab ID: 2002-08-0288 - 008

MS: 2002/08/16-01.09-012 Extracted: 08/16/2002 Analyzed: 08/16/2002 15:13
Dilution: 1.00

MSD: 2002/08/16-01.09-013 Extracted: 08/16/2002 Analyzed: 08/16/2002 15:41
Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Chlorobenzene	92.1	100	ND	96.7	95.2	101.4	6.3	61-121	20		
1,1-Dichloroethene	95.6	99.6	ND	96.7	98.9	101.0	2.1	65-125	20		
Trichloroethene	96.2	101	ND	96.7	99.5	102.4	2.9	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	452	476		500	90.4	95.1		74-121			
1,2-Dichloroethane-d4	446	460		500	89.1	92.1		70-121			
Toluene-d8	487	491		500	97.5	98.2		81-117			

Submission #: 2002-08-0288

Halogenated Volatile Organic Compounds by 8021B/8260B

Aqua Science Engineers, Inc.

Attn.: Erik Paddleford
208 West El Pintado
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: J & A Truck Repair

Received: 08/13/2002 14:00

SEVERN TRENT LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel: (925) 484-1919
Fax: (925) 484-1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

is

Internal standard out of range due to matrix interference.

Result Flag

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirmed by reanalysis.

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromelab.com

2002-08-0288

Reference #: 08126

Date 8/7/02 Page 1 of 5

Report To

Attn: E Paddleford / Robert Kitay

Company: ASE

Address: 208 W El Pintado, Danville, CA

Phone: 925-820-9391 Email:

Bill To: Sampled By:

Attn: Phone:

Analysis Request

	Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	VOCs 8010	HOLD			Number of Containers
1	BH-H-4'	8/7/02	826	S	—																	X				1
2	BH-H-8'		836																				X			
3	BH-H-12'		849																			X				
4	BH-H-16'		906																				X			
5	BH-I-8'		936																			X				
6	BH-I-12'		939																			X				
7	BH-I-16'		944																				X			
8	BH-J-4'		1014																			X				
9	BH-J-8'		1021																				X			
10	BH-J-12		1027																			X				

Project Info.

Project Name: J+A Truck Repair

Project#:

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp: 5.4

Conforms to record:

TAT: Std 5 Day | 72h | 48h | 24h

Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID ___

Special Instructions / Comments:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
E Paddleford		
Signature Time	Signature Time	Signature Time
E Paddleford	Mona 1400	
Printed Name Date	Printed Name Date	Printed Name Date
ASE	08/13/02	
Company	Company STL S.F	Company

1) Received by:	2) Received by:	3) Received by:
		Denise Harrington
Signature Time	Signature Time	Signature Time
Mona 1010		D Harrington 1400
Printed Name Date	Printed Name Date	Printed Name Date
08/13/02		STL-SF 8/13/02
Company STL S.F	Company	Company

Rev 01/02

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

2002-08-0288

Reference #: _____

Date 8/7/02 Page 2 of 5

Report To

Attn: E Paddleford / R Kitay
Company: ASE
Address: Danville, CA
Phone: 925-820-9391 Email:
Bill To: Sampled By:
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	VOCs 8010	HOLD			Number of Containers
11 BH-J-16'	8/7/02	1034	S	-																			X				1
12 BH-K-4'		1153																					X				
13 BH-K-8'		1155																					X				
14 BH-K-12'		1203																					X				
15 BH-K-16'		1205																					X				
16 BH-L-3'		1312																					X				
17 BH-L-8'		1313																					X				
18 BH-M-4'		1403																					X				
19 BH-M-8'		1406																					X				
20 BH-M-12'		1413																					X				

Project Info.

Project Name: J-14 Truck Repair
Project#:
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:

TAT: (Std 5 Day) 72h 48h 24h
Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____
Special Instructions / Comments:

1) Relinquished by: E Paddleford — Signature — Time
E Paddleford — Printed Name — Date
ASE — Company

2) Relinquished by: [signature] — Signature — Time
Mark — 1400 — Printed Name — Date
08/13/02 — Company STL S.F

3) Relinquished by: — Signature — Time
Printed Name — Date
Company

1) Received by: [signature] — Signature — Time
Mark — 1010 — Printed Name — Date
08/13/02 — Company STL S.F

2) Received by: — Signature — Time
Printed Name — Date
Company

3) Received by: Denise Harrington — Signature — Time
D. Harrington — 1400 — Printed Name — Date
STL-SF — 8/13/02 — Company

Rev 01/02

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

2002-08-0288

Reference #: _____

Date 8/8/02 Page 3 of 5

Report To

Attn: E Paddleford / R Kitay
Company: ASE
Address: Danville, CA
Phone: 925-820-9391 Email:
Bill To: Sampled By:
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Pres	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	VOCs 8010	HOLD			Number of Containers
21 BH-M-16'	8/7/02	1419	S	—																			X				1
22 BH-N-4'	8/8/02	813																					X				
23 BH-N-8'		817																					X				
24 BH-N-12'		822																					X				
25 BH-O-4'		853																					X				
26 BH-O-8'		859																					X				
27 BH-O-12'		918																					X				
28 BH-P-4		1033																					X				
29 BH-P-8		1039																					X				
30 BH-P-12		1044																					X				

Project Info.

Project Name: U+A Truck Repair
Project#:
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:

TAT: Std 5 Day | 72h | 48h | 24h
Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____
Special Instructions / Comments:

1) Relinquished by: E Paddleford
Signature Time
E Paddleford
Printed Name Date
ASE
Company

2) Relinquished by:
Signature Time
M/USA 1400
Printed Name Date
08/13/02
Company STL S.F

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by:
Signature Time
M/USA 1010
Printed Name Date
08/13/02
Company STL S.F

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by: Denise Harrington
Signature Time
D Harrington 1400
Printed Name Date
STL-SF 8/13/02
Company

Rev 01/02

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: [illegible]@chromalab.com

2002-08-0288

Reference #: _____

Date 8/8/02 Page 4 of 5

Report To

Attn: E Paddleford / R. Kitral
Company: ASE
Address: Danville CA
Phone: 925 820 9391 Email:
Bill To: Sampled By:
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Pres.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond ☐ Alkalinity ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	VOCs 8010	HOLD			Number of Containers
31 BH-Q-4'	8/8/02	1110	S	—																		X					1
32 BH-Q-8'	↓	1115	↓	↓																			X				↓
33 BH-Q 12'	↓	1121	↓	↓																		X					
34 BH-H	8/7/02	915	W	HCl																		X					3
35 BH-I	↓	956	↓	↓																		X					4
36 BH-J		1110																				X					
37 BH-K		1227																				X					
38 BH-L-4'		1309																				X					
39 BH-L-20'		1340																				X					
40 BH-M-	↓	1436	↓	↓																		X					↓

Project Info.

Project Name: J+A Truck Repair
Project#:
PO#:
Credit Card#:

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____

Special Instructions / Comments:

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:
Other:

1) Relinquished by: E Paddleford — Signature — Time
E Paddleford — Printed Name — Date
ASE — Company

2) Relinquished by: [signature] — Signature — Time: 1400
Mike — Printed Name — Date: 08/13/02
Company: STL SF

3) Relinquished by: Signature — Time
Printed Name — Date
Company

1) Received by: [signature] — Signature — Time: 1010
Mike — Printed Name — Date: 08/13/02
Company: STL SF

2) Received by: Signature — Time
Printed Name — Date
Company

3) Received by: Denise Harrington — Signature — Time
D. Harrington — Printed Name — Date: 8/13/02 1400
STL-SF — Company

Rev 01/02

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: 2002-08-0288

Date 8/9/02 Page 5 of 5

Report To

Attn: E Paddleford / R. Kitay
Company: ASE
Address: Danville, CA
Phone: 925-820-9391 Email:
Bill To:
Sampled By:
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxyenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	VOCs 8010				Number of Containers
11 BH-N	8/9/01	837	W	HCl																		X					4
12 BH-O-8'		909																				X					3
13 BH-O-20'		1018																				X					3
14 BH-P		1057																				X					4
15 BH-Q		1155																				X					4
1 MW-1		1455																				X					3
2 MW-2		1340																				X					3
8 MW-3		1310																				X					3
9 MW-4		1415																				X					3

Project Info.

Project Name: J+A Truck Repair
Project#:
PO#:
Credit Card#:

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:
Other:

1) Relinquished by:
Signature Time
E Paddleford
Printed Name Date
ASE
Company

2) Relinquished by:
Signature Time
Mona 1400
Printed Name Date
08/13/02
Company STL S.F

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by:
Signature Time
Mona A 1010
Printed Name Date
08/13/02
Company STL S.F

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Denise Harrington
Signature Time
D Harrington 1400
Printed Name Date
STL-SF 8/13/02
Company

Rev 01/02