

September 8, 1998

REPORT

of

ADDITIONAL SOIL AND GROUNDWATER ASSESSMENT SEPTEMBER 2 & 3, 1998 ASE JOB NO. 3231

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Oliver Rubber Company Plant I 1200 65th Street Oakland, California

Submitted by:
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1.0 INTRODUCTION

This report outlines the methods and findings of Aqua Science Engineers, Inc. (ASE)'s additional soil and groundwater assessment conducted on September 2 and 3, 1998 at the Oliver Rubber Company (Oliver) property located at 1200 65th Street in Oakland, California (Figures 1 and 2). The site assessment activities were conducted to investigate for the presence of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in soil and groundwater beneath the site building. This issue was raised during a meeting conducted on August 26, 1998 between Ms. Susan Hugo of the Alameda County Health Care Services Agency (ACHCSA), Mr. Tom Palmer of Standard Products, Mr. Dave Kuhre of Oliver, and Mr. David Allen of ASE. This meeting was conducted to identify and determine the remaining issues at the site, if any, that required further assessment prior to gaining a No Further Action Letter from the ACHCSA that would enable the ACHCSA to allow the site to be developed for live-work residential usage.

2.0 SITE HISTORY

The site has been used since the 1950's primarily as a rubber tire tread manufacturing plant. Virgin materials were combined and processed using various mixing machines, milling machines, and conveyors. product was then either extruded into strip form or molded into tire treads at Oliver's Plant II across Vallejo Street. The entire floor of the production area is reportedly a minimum of 12-inches thick. In areas surrounding large milling machines, the concrete is reportedly up to 24 to 36-inches thick. The milling machines and conveyor system sat on pedestals above shallow concrete pits. A cooling water system was incorporated within the production area to keep the machines operating This cooling water was then recycled and reused. Chemicals were added to the cooling water to reduce the levels of scaling in the cooling tower, to reduce algae, and to control the pH.

The compound of interest used during the production of the rubber for tire treads is a heavy petroleum hydrocarbon, much like liquid tar at elevated temperatures. The product most commonly used by Oliver was RAFFEX 120. The RAFFEX 120 was stored outside the plant in a subgrade concrete vault, which was heated with steam to maintain the liquid consistency of the product. The RAFFEX was then pumped inside the building to the process area. Zinc Stearate was also used during the extrusion of the rubber product to inhibit the product from adhering to itself as it was stacked onto pallets. Various lubricating oils and greases were used in the

milling and mixing machines. Spent lubricating oils and greases were drummed, profiled, and shipped off-site for recycling. Safety solvent cleaning stations were used at the facility during maintenance activities.

Beginning in January 1998 and completed during the week of March 16, 1998, the plant was decommissioned and cleaned by Mid-American Machine, Inc. and DECON Environmental Services, respectively. All plant manufacturing equipment was removed and either shipped to various Oliver plants on the east coast or scrapped as metal salvage. Pressure washing liquids used to clean the building were collected and disposed of off-site. The scope of work for this plant closure was discussed and agreed upon by members of Oliver staff and Mr. Amir Gholami of the ACHCSA during his visit to the plant on November 20, 1997.

As the decommissioning and cleaning processes were taking place, ASE was on-site to inspect for potential integrity failures in the concrete floor and pits. Pits without obvious cracks were filled with concrete. Pits that had exit pipes or cracks near the edges of the pit were earmarked for future assessment activities to be conducted adjacent to the pits.

In April 1998, nine (9) soil borings were drilled inside the building to depths ranging from 2.5-feet below ground surface (bgs) to 6-feet bgs. Selected soil samples were analyzed for RAFFEX, oil & grease (O&G), and zinc. Low levels of RAFFEX were identified in the soil samples ranging from 3.1 parts per million (ppm) to 40 ppm. 260 ppm O&G was identified in one soil boring; O&G was not detected in the remaining borings at concentrations greater than the detection limit. 18 ppm zinc was identified in the only soil boring for which zinc was analyzed. Three (3) soil borings were drilled outside the building in respect to the former RAFFEX tank One of these borings (BH-10) was drilled to 3-feet bgs near the piping manifold; only 7.5 ppm RAFFEX was identified in this soil sample. The other two borings were drilled outside approximately 8-feet west (downgradient) of the former vault (BH-11 & BH-12), near the railroad tracks/spurs. These borings were drilled to a total depth of approximately 12-feet bgs in order to collect grab groundwater samples. Soil samples collected from these two borings contained 74 ppm and 20 ppm RAFFEX. The grab groundwater samples contained 1.2 ppm and 4.6 ppm RAFFEX in the water. Complete details of the pit inspections and sampling activities conducted in April 1998 can be found in the ASE report titled "Report of Soil and Groundwater Assessment, ASE Job No. 3231," dated April 30, 1998.

In July 1998, ASE drilled five soil borings in the railroad tracks/spur downgradient of the former RAFFEX tank vault. The only VOC concentration detected in the soil during this assessment was 0.0076 ppm 1,1-dichloroethene in the soil sample collected from 15.5-feet bgs in boring BH-14. No SVOCs were detected in any of the soil samples analyzed. Only very low concentrations of VOCs, below California Department of Toxic Control (DTSC) maximum contaminant levels (MCLs) for drinking water, were detected in the groundwater samples collected during this assessment. The highest phenol concentration was 11 ppb which exceeded the DTSC recommended action level of 5 ppb. However, the DTSC MCL is based on an odor and taste threshold in chlorinated tap water systems, not risk to human health. The US EPA health advisory concentration for phenol in drinking water is 4,000 ppb, which is well above the highest concentration of phenol detected. Complete details of the afore-mentioned assessment activities can be found in the ASE report titled "Report of Additional Soil and Groundwater Assessment, ASE Job No. 3231," dated July 20, 1998.

3.0 SCOPE OF WORK (SOW)

OLIVER, ASE, and the ACHCSA reviewed detailed architectural drawings for a proposed Live-Work residential development at the subject site on August 26, 1998. The drawings were supplied by a potential buyer of the Due to the potential for a modification in the use of the property, from industrial to residential, Ms. Susan Hugo requested the following additional assessment activities within the on-site building in order to assess the potential for exposure of contaminated soil and/or by future construction workers groundwater and residents on the The boring locations proposed for this assessment strategically placed to assess (a) the area beneath the proposed "reflecting pool" as detailed in the potential buyer's drawings, (b) an area near the former RAFFEX tank vault, and (c) in areas where proposed support columns will be installed for the future live-work building. Based on the afore-mentioned information, ASE's SOW was as follows:

- 1) Obtain a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA).
- Using a Geoprobe hydraulic sampling rig, drill four (4) soil borings at the site, one inside the building near the location of the proposed reflecting pool, one outside in the future parking lot near the former RAFFEX tank vault, and two inside the building in approximate areas

of footings. Collect soil and groundwater samples from the borings for analysis.

- Analyze one soil and one groundwater sample from each soil boring at a CAL-EPA certified environmental laboratory for VOCs by EPA Method 8240 and SVOCs by EPA Method 8270.
- 4) Backfill the borings with neat cement.
- 5) Prepare a report detailing the methods and findings of the assessment.

Details of the assessment are presented below.

4.0 DRILL SOIL BORINGS AND COLLECT SAMPLES

Prior to drilling, ASE obtained drilling permit #98WR367 from ACPWA. A copy of this permit is presented in Appendix A.

On September 2 and 3, 1998, Kvilhaug Well Drilling of Concord, California drilled soil borings BH-18 through BH-21 at the site using a Geoprobe hydraulic sampling rig (Figure 2). Borings BH-18 and BH-19 were started on September 2, 1998 but had to be completed on September 3, 1998 due to a ruptured hydraulic oil seal on the drill rig which had to be repaired prior to continuing drilling operations. Boring BH-21 was located in the location of the reflecting pool. Boring BH-20 was located near the former RAFFEX tank vault. Borings BH-18 and BH-19 were placed in locations near footings. The drilling was directed by ASE senior geologist Robert E. Kitay, R.G.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for possible chemical analysis. The samples were collected by driving a sampler lined with acetate tubes using hydraulic direct push methods. samples were immediately trimmed, sealed with Teflon tape, plastic end caps and duct tape, labeled, sealed in plastic bags and stored on ice for transport to Chromalab, Inc. of Pleasanton, California (ELAP #1094) under chain of custody. Soil from the remaining tubes was described by the site geologist using the Unified Soil Classification System and was screened for volatile compounds using an Organic Vapor Meter (OVM). Since borings BH-18 and BH-19 had to be advanced deeper than the initial stopping point in these borings in order to obtain the required

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groundwater for analysis, soil samples were not collected from the deeper portions of these borings.

A temporary PVC well casing was driven into place in each boring for the collection of groundwater samples. Groundwater samples were removed from the borings using a pre-cleaned stainless steel bailer. The groundwater samples were contained in 40-ml volatile organic analysis (VOA) vials (pre-preserved with hydrochloric acid) without headspace and unpreserved 1-liter amber glass containers. The samples were labeled, placed in protective foam sleeves, and stored in coolers with wet ice for transport to Chromalab under appropriate chain of custody documentation.

Upon completion of the soil and groundwater sampling, the borings were backfilled with neat cement to the ground surface.

Drilling equipment was cleaned with a TSP solution between sampling intervals and between borings to prevent potential cross-contamination.

5.0 HYDROGEOLOGY

Boring logs for borings BH-18 through BH-21 are presented in Appendix B. Although sediments appeared to be wet at 4-feet bgs in each boring, the sediments were not sufficiently permeable to produce water until a depth of 20-feet bgs was reached. This hydrogeologic condition is generally consistent with hydrogeologic conditions found in previous borings at the site.

6.0 ANALYTICAL RESULTS FOR SOIL

The soil sample collected from what appeared to be the capillary zone in borings BH-18 through BH-20 (3.5-feet bgs in borings BH-18 and BH-19 and 7.5-feet bgs in boring BH-20) were analyzed by the analytical laboratory. The soil sample collected from 9.5-feet bgs in boring BH-21 was selected for analysis although it was below the water table because it was odorous and had the highest OVM readings of any of the soil in the boring. All of these samples were analyzed by Chromalab for VOCs by EPA Method 8240 and SVOCs by EPA Method 8270. The analytical results are tabulated in Table Eight, and the certified analytical report and chain of custody documentation are included in Appendix C.

The only VOC detected in any of the soil samples analyzed was 0.0065 ppm ethylbenzene in the soil sample collected from 3.5-feet bgs in boring BH-18. No VOCs were detected in any other soil sample analyzed during

this assessment. The only SVOC detected during this assessment was 0.29 ppm phenol in the soil sample collected from 9.5-feet bgs in boring BH-21. No SVOCs were detected in any of the remaining soil samples analyzed.

7.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples collected from each of the borings were analyzed by Chromalab for VOCs by EPA Method 8240 and SVOCs by EPA Method 8270. The analytical results are tabulated in Tables Nine and Ten, and the certified analytical report and chain of custody documentation are included in Appendix C.

Groundwater samples collected from boring BH-20, outside the building where the future parking lot is proposed, contained 260 ppb 1,1-dichlorobenzene, 99 ppb 1,1,1-trichloroethane, 11 ppb 1,1-dichloroethane and 9.4 ppb butyl benzyl phthalate. No other VOCs or SVOCs were detected in groundwater samples collected from boring BH-20, and no VOCs or SVOCs were detected in groundwater samples collected from borings BH-18, BH-19 and BH-21.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The only VOC detected in any of the soil samples analyzed was 0.0065 ppm ethylbenzene in the soil sample collected from 3.5-feet bgs in boring BH-18. No VOCs were detected in any other soil sample analyzed during this assessment. The only SVOC detected during this assessment was 0.29 ppm phenol in the soil sample collected from 9.5-feet bgs in boring BH-21. No SVOCs were detected in any of the remaining soil samples analyzed. Neither the ethylbenzene nor the phenol concentration detected exceeded the United States Environmental Protection Agency (US EPA) Region IX preliminary remediation goal (PRG) for residential soil. Therefore, ASE does not feel that these concentrations will present a concern to residential development at these locations.

Groundwater samples collected from boring BH-20, outside the building where the future parking lot is proposed, contained 260 ppb 1,1-dichlorobenzene, 99 ppb 1,1,1-trichloroethane, 11 ppb 1,1-dichloroethane and 9.4 ppb butyl benzyl phthalate. No other VOCs or SVOCs were detected in groundwater samples collected from boring BH-20, and no VOCs or SVOCs were detected in groundwater samples collected from borings BH-18, BH-19 and BH-21. Based on these concentrations identified in the groundwater in borehole BH-20, the location where these compounds were detected (outside the building in an area proposed to be

parking), the low permeability clay-rich subsurface sediments, and the presence of a thick cap on the surface at this location on the property, ASE does not believe that the concentrations of these compounds pose an unacceptable health risk to residents in the live-work development proposed for the site.

ASE further concludes/recommends the following:

- No further assessment activities are warranted at the site for either plume definition or plant closure activities.
- Based on the analytical results collected during the various assessments at this site, it appears that the subsurface soil has not been impacted by significant levels of TPH-RAFFEX.
- Elevated concentrations of TPH-RAFFEX were only identified in a limited area of the property; the location of the former RAFFEX tank vault; levels of TPH-RAFFEX dropped dramatically downgradient of the vault.
- Should it become necessary to excavate in the area of the former RAFFEX tank vault for development purposes, ASE recommends the preparation of a risk management prevention plan which will identify safe working procedures for field personnel, and detail materials handling procedures. If the concrete vault is disturbed during construction and/or development activities, some form of remediation such as soil excavation and/or groundwater removal may be necessary.

ASE recommends that this case be closed. Provided the integrity of the concrete surfaces of the vault and its cover remain intact, and the redevelopment occurs as proposed on the drawings viewed on August 26, 1998, the site appears to be suitable for development as live/work and residential usage.

9.0 REPORT LIMITATIONS

The results of this assessment 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.

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

No. REA-06211 Expires: 6-99

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

David Allen, R.E.A.

Roll C. Ketay

Senior Project Manager

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

Senior Geologist

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TABLE ONE

Soil Analytical Results TPH-RAFFEX

Soil Samples Collected March 11 and April 8, 1998 All results are in parts per million

SAMPLE) (A CODING	TPH
ID.	MATRIX	RAFFEX
GRAB-A @ 3.5'	SOIL	380
TRENCH-A	SOIL	3.8
TRENCH-B	SOIL	3 5
TRENCH-C	SOIL	9.6
EPA METHOD		8015M

Notes:

Detectable concentrations are in bold

TABLE TWO

Soil Analytical Results
TPH-RAFFEX, Oil & Grease, Zinc, and VOCs
Soil Borings Drilled April 8, 1998
All results are in parts per million

SAMPLE ID.	TPH RAFFEX	OIL & GREASE	ZINC	All VOCs
BH-1 @ 3'	10	< 50	18	< 5.0 - < 50
BH-2 @ 2.5'	6.4	< 50		< 5.0 - < 50
BH-3 @ 3'	3.1	< 50		< 5.0 - < 50
BH-4 @ 2'	4 0	< 50		< 5.0 - < 50
BH-5 @ 5'	3 6	< 50		< 5.0 - < 50
BH-6 @ 6'	10	< 50		< 5.0 - < 50
BH-7 @ 5.5'	4.7	< 50		< 5.0 ~ < 50
BH-8 @ 4'	1 4	260		< 5.0 - < 50
BH-9 @ 4'	5.1	< 50		< 5.0 - < 50
BH-10 @ 3'	7.5			< 5.0 - < 50
BH-11 @ 6'	7 4			< 5.0 - < 50
BH-12 @ 5.5'	2 0			< 5.0 - < 50
EPA METHOD	8015M	5520 EF	6010	8010

Notes:

Detectable concentrations are in bold.

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

TABLE THREE

Groundwater Analytical Results TPH-RAFFEX

Soil Borings Drilled April 8, 1998 All results are in parts per million

SAMPLE ID.	LOCATION	TPH RAFFEX
GRAB-A	INSIDE VAULT	8
GRAB-B	INSIDE VAULT	28
BH-11	DOWNGRADIENT OF VAULT	1.2
BH-12	DOWNGRADIENT OF VAULT	4.6
EPA METHOD		8015M

Note: Detectable concentrations are in bold

TABLE FOUR

Soil Analytical Results TPH-Raffex, VOCs & SVOCs Soil Borings Drilled July 1, 1998 All results are in parts per million

			REMAINING	ALL
~			VOLATILE	SEMI-VOLATILE
SAMPLE	TPH		ORGANIC	ORGANIC
ID.	RAFFEX	1,1-DICHLOROETHENE	COMPOUNDS	COMPOUNDS
*				
BH-13 @ 3.5'	5 6	< 0.005	< 0.005 - < 0.050	< 0.10 - < 0.50
BH-14 @ 15.5'	< 1.0	0.0076	< 0.005 - < 0.050	< 0.10 - < 0.50
BH-15 @ 15.0'	1.8	< 0.005	< 0.005 - < 0.050	< 0.10 - < 0.50
EPA METHOD	8015M	8240	8240	8270

Notes:

Detectable concentrations are in bold.

Non-detectable concentrations are noted by the less than sign (<) followed

by the laboratory detection limit.

TABLE FIVE

Groundwater Analytical Results
TPH-RAFFEX

Soil Borings Drilled July 1, 1998 All results are in parts per billion

SAMPLE	TPH
ID.	RAFFEX
BH-13 WATER	140
BH-14 WATER	270
BH-15 WATER	96
BH-16 WATER	6 3
BH-17 WATER	< 50
EPA METHOD	8015M

Note:

Detectable concentrations are in bold.

Non-detectable concentrations are noted by the less than sign (<) followed

by the laboratory detection limit.

TABLE SIX

Groundwater Analytical Results Semi-Volatile Organic Compounds Soil Borings Drilled July 1, 1998 All results are in parts per billion

SAMPLE ID.	PHENOL	REMAINING SEMI-VOLATILE ORGANIC COMPOUNDS
		COM COMES
BH-13 WATER	11	< 2.0 - < 10.0
BH-14 WATER	< 3.3	< 3.3 - < 17.0
BH-15 WATER	3.7	< 2.0 - < 10.0
BH-16 WATER	< 2.5	< 2.5 - < 12.0
BH-17 WATER	< 2.0	< 2.0 - < 10.0
EPA METHOD	8270	8270

Notes:

Detectable concentrations are in bold.

Non-detectable concentrations are noted by the less than sign (<) followed

by the laboratory detection limit.

TABLE SEVEN

Groundwater Analytical Results
Volatile Organic Compounds
Soil Borings Drilled July 1, 1998
All results are in parts per billion

SAMPLE ID.	BENZENE	TOLUENE	1,1-DCA	1,1-DCE	1,1,1-TCA	REMAINING VOLATILE ORGANIC COMPOUNDS
BH-13 WATER	< 0.5	0.66	< 0.5	< 0.5	< 0.5	< 0.5 - < 50.0
BH-14 WATER	< 0.5	0.68	0.63	3.2	0.90	< 0.5 - < 50.0
BH-15 WATER	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 - < 50.0
BH-16 WATER	< 0.5	1.3	< 0.5	< 0.5	< 0.5	< 0.5 - < 50.0
BH-17 WATER	0.56	1.0	< 0.5	< 0.5	< 0.5	< 0.5 - < 50.0
EPA METHOD	8240	8240	8240	8240	8240	8240

Notes: Detectable concentrations are in bold.

Non-detectable concentrations are noted by the less than sign (<) followed

by the laboratory detection limit. 1,1-DCA is 1,1-Dichloroethane.

1,1-DCE is 1,1-Dichloroethene.

1,1,1-TCA is 1,1,1-Trichloroethane.

TABLE EIGHT

Soil Analytical Results VOCs & SVOCs

Soil Borings Drilled September 2 & 3, 1998 All results are in parts per million

SAMPLE ID.	ETHYLBENZENE	PHENOL	REMAINING VOLATILE ORGANIC COMPOUNDS	ALL SEMI-VOLATILE ORGANIC COMPOUNDS
BH-18 @ 3.5'	0.0065	< 0.1	< 0.005 - < 0.050	< 0.050 - < 2.0
BH-19 @ 3.5'	< 0.005	< 0.1	< 0.005 - < 0.050	< 0.050 - < 2.0
BH-20 @ 7.5'	< 0.005	< 0.1	< 0.005 - < 0.050	< 0.050 - < 2.0
BH-21 @ 9.5'	< 0.005	0.29	< 0.005 - < 0.050	< 0.050 - < 2.0
EPA METHOD	8240	8270	8240	8270

Notes:

Detectable concentrations are in bold.

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

TABLE NINE

Groundwater Analytical Results
Volatile Organic Compounds
Soil Borings Drilled September 2 & 3, 1998
All results are in parts per billion

				REMAINING
				VOLATILE
SAMPLE				ORGANIC
ID.	1,1-DCA	1,1-DCE	1,1,1-TCA	COMPOUNDS
BH-18 WATER	< 2.0	< 2.0	< 2.0	< 2.0 - < 50
BH-19 WATER	< 2.0	< 2.0	×2.0	< 2.0 - < 50
BH-20 WATER	11	(260	/99	< 2.0 - < 50
BH-21 WATER	< 2.0	< 2.0	2.0	< 2.0 - < 50
EPA METHOD	8240	8240	8240	8240

Notes:

Detectable concentrations are in bold.

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

1,1-DCA is 1,1-Dichloroethane. 1,1-DCE is 1,1-Dichloroethene.

1,1,1-TCA is 1,1,1-Trichloroethane.

TABLE TEN

Groundwater Analytical Results
Semi-Volatile Organic Compounds
Soil Borings Drilled September 2 & 3, 1998
All results are in parts per billion

SAMPLE ID.	BUTYL BENZYL PHTHALATE	REMAINING SEMI-VOLATILE ORGANIC COMPOUNDS
BH-18 WATER	< 14	< 2.3 - < 27.0
BH-19 WATER	< 12	< 2.3 - < 27.0
BH-20 WATER	9.4	< 2.3 - < 27.0
BH-21 WATER	< 5.8	< 2.3 - < 27.0
EPA METHOD	8270	8270

Notes: Detectable concentrations are in bold.

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

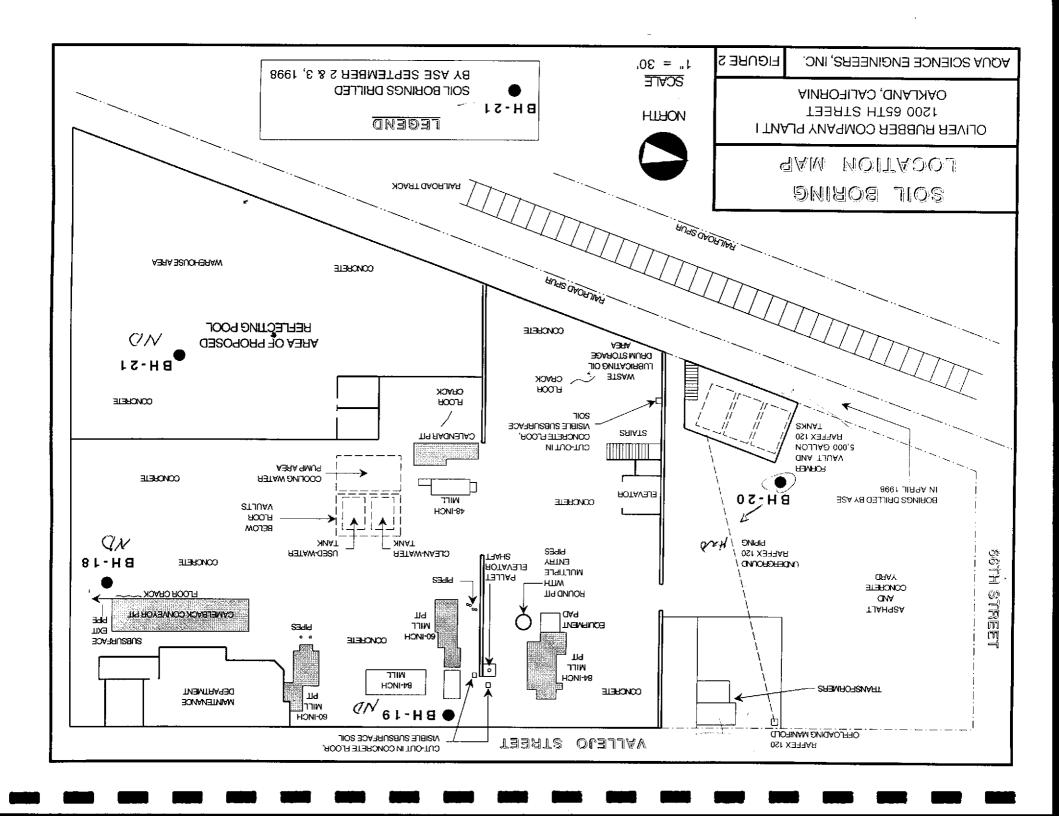


SITE LOCATION MAP

OLIVER RUBBER COMPANY PLANT I 1200 65TH STREET OAKLAND, CALIFORNIA

Aqua Science Engineers

Figure 1



APPENDIX A

Drilling Permit



APPLICANT'S MONATURE

의 6 27 : 998 17:1**3** 1

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 951 TURNER COURT, SUITE 306, HAYWARD, CA 94545-2651 PHONE (\$10) 670-5575 ANDREAS GODFREY FAX (\$10) 670-5262 (\$10) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

for applicant to complete	for office use
LOCATION OF PROJECT 1200 65th Street	PERMIT NUMBER 98WR367
- Cakland Cit	WELL NUMBER
	APN
California Coordinates Source fi. Accuracy # fi.	PERMIT CONDITIONS
CCN R. CCB R.	
CLIENT	Circled Permit Requirements Apply
Name Oliver Rubber Congres	(A) GENERAL
Address 1200 65th Street Phone	A permit application should be submitted so as to
City oakland ch Zip	arrive at the ACPWA office five days prior to
	proposed starting date.
APPLICANT	2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water
Name Agua Science Engineers Inc.	Resources Water Well Drillers Report or equivalent (e
Atto: Kebert Kitage For 725-437-4853	well projects, or drilling logs and location shouth for
Address Will and Crown Confee WT Phone 925 820-934/	geolechnical projecu.
City Sea Romes, CA 21p 94583	Permit is void if project not begun within 90 days of
TYPE OF PROJECT	4 proval date.
	B. WATER SUPPLY WELLS
Cathodic Pentagion B	1. Minimum surface seal thickness is two inches of
Warer Supply	coment grout placed by tramia.
Monitorita	2. Minimum seal depth is 50 feet for municipal and
Mell Destruction	industrial wells or 20 feet for domestic and irrigation
proposed water supply well use	Wells unless a lessor death is ungrially accomend
New Domestic O Replacement Domestic	C. CROUNDWATER MONITORING WELLS
Afunctional M	including piezometers
industrial management	1. Minimum surface scal thickness is two inches of
nieskinds a Other	coment grout placed by tremie.
PRILLING METHOD:	Minimum seal depth for monitoring wells is the
Med Rousy D Air Rotary D Auget U	maximum depth practicable or 20 feet.
Cable D Other & Cuproba-	(D) GEOTECHNICAL
•	Backfill bore hole with compacted cuttings or heavy
DRILLER'S LICENSE NO. 657 482 390 (Kuilhang)	benionite and upper two feet with compacted material.
, ,	In areas of known or suspected contamination, tromicd
WELL PROJECTS	cement grout shall be used in place of compacted cuttings
Drill Hole Diameterm. Maximum	Fill hale above anode zone with concrete placed by tromi-
Casing Diameter in. Depth ft.	F. WELL DESTRUCTION
Surface Seal Depth	See husched.
EOTECHNICAL PROJECTS	G. SPECIAL CONDITIONS
Market and the second of the s	
Role Diameter 2 in. Depth 5 0.	1
	Λ Λ Λ
STIMATED STARTING DATE 9-2 -98	/\\\/
STIMATED COMPLETION DATE 7-2-78	APPROVEDDATE 8/31
The second secon	DATE
horselve action to animals, with all a saids	
hereby agree to comply with all requirements of this permit and	
PRESCANT'S R. D. E. Ketar DATE 8-27-98	
PRLICANT'S R. D. E. Kitry DATE 8-27-98	

APPENDIX B

Boring Logs

Driller: Kvilhaug Logged By: Robert E. Kitay, R.G. Date Drilled: September 2 & 3, 1998 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 4.0" Static Depth of Water First Encountered: 4.0" Total Depth of Boring: 24' Total Depth of Boring: 24' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation O Concrete Clayey Silt. (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Sandy CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 30% coarse angular sand, low plasticity; no odor No soil samples collected below 16'	SOIL BORING LOG AND COMP			•	g BH-18
Logged By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 4.0' Well Screen Type and Diameter: NA Well Screen Slot Size: NA Total Depth of Boring: 24' Total Depth of Water in Boring: 24' Total Depth of Water in Boring: 24' Total Depth of Well Screen Type and Diameter: NA Well Screen Slot Size: NA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation Clayey SiLT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp, 80% clay; 20% silt; high plasticity; very low estimated K; no odor No soil samples collected below 16' No soil samples collected below 16'	Project Name: Oliver Rubber	Project Locati	on: 1200 65th Stre	eet, Oakland, CA	Page 1 of 1
Total Depth of Water First Encountered: 4.0' Well Screen Type and Diameter: NA Well Screen Stot Size: NA Total Depth of Boring: 24' Total Depth of Water in Boring: 4.0' Well Screen Type and Diameter: NA Well Screen Stot Size: NA DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation O Concrete Clayey SILT (MH); black; soft: moist; 85% silt; 15% clay; 10% estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor 10 Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor No soil samples collected below 16' Page 10 Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor No soil samples collected below 16'	Driller: Kvilhaug	Type of Rig. G	Geoprobe	Size of Drill: 2.0" Diame	eter Direct Push
Depth of Water First Encountered: 4.0' Well Screen Type and Diameter: NA Static Depth of Water in Boring: 4.0' Total Depth of Boring: 24' Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler Total Depth of Boring: 24' Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation O Concrete Clayer SILT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor No soil samples collected below 16' Page 10 10 10 10 10 10 10 10 10 10 10 10 10	Logged By: Robert E. Kitay, R.G.	Date Drilled:	September 2 & 3	, 1998 Checked By: Rob	ert E. Kitay, R.G.
Static Depth of Water in Boring: 4.0' Total Depth of Boring: 24' Total Depth of Boring: 24' SOIL/ROCK SAMPLE DATA BORING DETAIL D	WATER AND WELL DATA		Total Depth of W	ell Completed: NA	
Total Depth of Boring: 24' Type and Size of Soil Sampler: 2.0' I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture density, stiffness, odor-staining, USCS designation O Concrete Clayey SILT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor No soil samples collected below 16' Page 10 10 10 10 10 10 10 10 10 10 10 10 10	Depth of Water First Encountered: 4	0†	Well Screen Type	e and Diameter: NA	
BORING DETAIL Clays stiffness, odor-staining, USCS designation Clays SILT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor No soil samples collected below 16'	Static Depth of Water in Boring: 4.0'		Well Screen Slot	Size: NA	
BORING DETAIL BORING			·	f Soil Sampler: 2.0" I.D. M	acrocore Sampler
Concrete Clayey SILT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor No soil samples collected below 16'	, e - - - - - - - - -	0	J m	<u> </u>	
Clayey SiLT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor No soil samples collected below 16' Page 10 Page 11 Page 12 Page 12 Page 12 Page 13 Page 14 Page 14 Page 15 Pa	Descr Interv	OVM (ppmv Grapt Log	density density	, stiffness, odor-staining,	USCS designation
 	5 Class "H" Portland Cemer	0	Clayey S clay; high wet at 4' Silty CLA clay; 209 no odor 10 Sandy Cl clay; 30% odor No soil si	AY (CH); black; soft; mon n plasticity; low estimated AY (CH); dark yellow brown 6 silt; high plasticity; very 6 coarse angular sand; low amples collected below 16	K; no odor n; stiff; damp; 80% low estimated K; ard; moist; 70% v plasticity; no

Project Name: Oliver Rubber Driller: Kvilhaug Type of Rig: Geoprobe Logged By: Robert E. Kitay, R.G. Date Drilled: September 2 & 3, 1998 Checked By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 4.0° Static Depth of Water in Boring: 4.0° Total Depth of Boring: 24' Type and Size of Soil Sampler: 2.0° I.D. Macrocore Sampler Type and Size of Soil Sampler: 2.0° I.D. Macrocore Sampler DESCRIPTION OF LITHCLOGY Samdy CLAY (CH); dark yellow brown; stiff; damp; 60% clay; 40% silt; high plasticity; very low estimated K; no odor Project Location: 1200 65th Street, Oakland, CA Page 1 of 1	SOIL BORING LOG AND COMPLETION DETAILS Boring							3H-19	
Logged By: Robert E. Kitay, R.G. WATER AND WELL DATA Depth of Water First Encountered: 4.0' Static Depth of Water in Boring: 4.0' Total Depth of Boring: 24' Type and Size of Soil Sampler: 2.0" LD. Macrocore Sampler BORING DETAIL BORING DET	Project Name: Oliver Rubber	Project Location	on: 1200 65th Street, Oakland, CA Page 1 of 1					Page 1 of 1	
Water And Well Data Depth of Water First Encountered: 4.0' Well Screen Type and Diameter: NA Well Screen Stot Size: NA Total Depth of Boring: 24' Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler BORING DETAIL BORING	Driller: Kvilhaug	Type of Rig: G	ieoprobe		Size o	f Drill: 2.0	0" Diameter	Direct Push	
Depth of Water First Encountered: 4.0' Static Depth of Water in Boring: 4.0' Total Depth of Boring: 24' BORING DETAIL BORI	Logged By: Robert E. Kitay, R.G.	Date Drilled:	Septembe	r 2 & 3,	1998	Checked	By: Robert	E. Kitay, R.G.	
Static Depth of Water in Boring: 4.0' Total Depth of Boring: 24' SOL/ROCK SAMPLE DATA For a purply of BORING DETAIL SOL/ROCK SAMPLE DATA For a purply of BORING DETAIL SOL/ROCK SAMPLE DATA For a purply of BORING DETAIL SOL/ROCK SAMPLE DATA For a purply of BORING DETAIL SOL/ROCK SAMPLE DATA For a purply of BORING DETAIL For a pur	WATER AND WELL DATA		Total Depth of Well Completed: NA						
Total Depth of Boring: 24' Type and Size of Soil Sampler: 2.0* I.D. Macrocore Sampler DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation. O Concrete Clayey SILT (MH): black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp; 60% clay; 20% coarse angular sand; 10% silt; low plasticity over low estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 20% coarse angular sand; 10% silt; low plasticity over low estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 20% coarse angular sand; 10% silt; low plasticity over low estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 20% coarse angular sand; 10% silt; low plasticity over low estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 20% coarse angular sand; 10% silt; low plasticity over low estimated K; no odor Population of the property of the plant of th	Depth of Water First Encountered: 4	.0'	Well Scre	Well Screen Type and Diameter: NA					
BORING DETAIL Solity CLAY (CH); dark yellow brown; stiff; damp; 60% clay; 40% estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 20% coarse angular sand; 10% silt; low plasticity very low estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 20% coarse angular sand; 10% silt; low plasticity very low estimated K; no odor No soil samples collected below 16'	Static Depth of Water in Boring: 4.0'		Well Scre	en Slot	Size: N	NA .			
BORING DETAIL Second Part Part	Total Depth of Boring: 24'		Type and	Size of	Soil Sa	ampler: 2.0	" I.D. Macr	ocore Sampler	
SORING DETAIL The part of the	. • - <u> </u>	K SAMPLE DATA	eet		DESC	CRIPTION	OF LITHOLO	OGY	
Clayey SILT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4' Silty CLAY (CH); dark yellow brown; stiff; damp; 60% clay; 40% silt; high plasticity; very low estimated K; no odor Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 20% coarse angular sand; 10% silt; low plasticity very low estimated K; no odor No soil samples collected below 16' Page 10 Page 10 Page 11 Page 12 Page 12 Page 12 Page 12 Page 14 Page 14 Page 14 Page 15	Depth in Interval	OVM (ppmv) Graphic Log	Depth in F						
aqua science engineers. Inc.	Class "H" Portland Cemer	0	5 S C N S C	layey Si lay; high et at 4' illty CLA lay; 40% o odor andy CL lay; 20% ery low	Y (CH) S silt; h	dark yellow to angular ed K; no collected to	ow brown; hard sand; 10% odor	stiff; damp; 60% bw estimated K; d; moist; 70% silt; low plasticity	

	E. Kitay, R.G. DATA Encountered: 8 r in Boring: 8.0 1: 22' SOIL/ROC 5	Type of Rig: (Date Drilled:	Geoprobe Size of Drill: 2.0" Diameter Direct Push September 3, 1998 Checked By: Robert E. Kitay, R.G. Total Depth of Well Completed: NA Well Screen Type and Diameter: NA Well Screen Slot Size: NA				
Logged By: Robert E. WATER AND WELL Depth of Water First E Static Depth of Water Total Depth of Boring: BORING BORING DETAIL	DATA Encountered: 8 r in Boring: 8.0 p: 22' SOIL/ROC	Date Drilled:	September 3, 1998 Checked By: Robert E. Kitay, R.G. Total Depth of Well Completed: NA Well Screen Type and Diameter: NA				
WATER AND WELL Depth of Water First E Static Depth of Water Total Depth of Boring: BORING BORING DETAIL	DATA Encountered: 8 r in Boring: 8.0 p: 22' SOIL/ROC	1.0'	Total Depth of Well Completed: NA Well Screen Type and Diameter: NA				
Depth of Water First E Static Depth of Water Total Depth of Boring: ### BORING #### DETAIL	Encountered: 8 or in Boring: 8.0		Well Screen Type and Diameter: NA				
Static Depth of Water Total Depth of Boring: ### BORING ####################################	r in Boring: 8.0						
Total Depth of Boring:	SOIL/ROC		Well Screen Slot Size: NA				
pt boring DETAIL	SOIL/ROC						
.드 BORING 맞면 DETAIL	_		Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler				
.드 BORING 맞여 DETAIL	val Leve	K SAMPLE DATA	DESCRIPTION OF LITHOLOGY				
5	Descripti Interval Water Lev	OVM (ppmv) Graphic Log	E standard classification toyture relative mainture				
-10 - - - - - - - - - - - - - - - - - -	Class "H" Portland Cement I I I I I I I I I I I I I I I I I I I	0	Asphaltic concrete Silty SAND (SM); yellow brown; medium dense; moi 70% medium to coarse sand; 20% silt; 10% angular pebbles to 0.5" diameter; non-plastic; high estimate K: no odor Clayey SILT (MH); black; soft; moist; 70% silt; 30% clay; high plasticity; very low estimated K; no odor Silty CLAY (CH); dark yellow brown; stiff; damp; 80 clay; 20% silt; high plasticity; very low estimated k no odor wet at 8' Sandy CLAY (CH); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor Silty SAND (SM); yellow brown; dense; wet; 80% medium to coarse sand; 20% silt; non-plastic; high estimated K; no odor End of boring at 22'				

	t E. Kitay, R.C L DATA st Encountere ter in Boring: ng: 24'	ed: 8.6	Type Date	of Rig: G	eoprob			- 	Page 1 of 1		
Logged By: Robert WATER AND WEL Depth of Water First Static Depth of Water Total Depth of Borin	L DATA st Encountere ter in Boring:	ed: 8.6	Date		•		Size of	Drill: 2.0" Diameter			
WATER AND WELL Depth of Water First Static Depth of Water Total Depth of Borin	L DATA st Encountere ter in Boring:	ed: 8.6		Drilled:	Septe	mhor 3 100	eoprobe Size of Drill: 2.0" Diameter Direct Push				
Depth of Water First Static Depth of Water Total Depth of Borin	st Encountere ter in Boring: ng: 24'		0'		September 3, 1998 Checked By: Robert E. Kitay, R.G.						
Static Depth of Water	ter in Boring:		0'	WATER AND WELL DATA				leted: NA			
Total Depth of Borin	ng: 24'	· 8 0'	Depth of Water First Encountered: 8.0'				Well Screen Type and Diameter: NA				
Feet		. 0.0			Well Screen Slot Size: NA						
DETAIL DETAIL					Туре	and Size of	Soil Sai	mpler: 2.0" I.D. Macro	ocore Sampler		
	Description Interval □	Water Level ON	SAMP (nudd)	Graphic DA T Log	Depth in Feet	standar density,	d class	RIPTION OF LITHOLO ification, texture, ress, odor-staining, US	lative moisture,		
-0 -5 -10 -15 15 20 25 30	Class "H" Portland Cement	¥.	0 28 198 0		- 0 5 10 15 20 25 30	CLAY (Chigh plast unidentifia Sandy CL clay; 30% odor	LT (MH plastici	yellow brown; dense sand; 20% silt; non	no odor 00% clay; slight ; moist; 70% lasticity; no		

APPENDIX C

Certified Analytical Report and Chain of Custody Documentation

Environmental Services (SDB)

September 4, 1998

Submission #: 9809020

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY Project#: 3231

Received: September 2, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-18 3.5'

Spl#: 204115 Matrix: SOIL

Sampled: September 2, 1998 Run#: 14715 Analyzed: September 3, 1998

bampioa, sepecimen 2, 1990	ically.	11113	maryzcu	epcember	3, 1330
	RESULT	REPORTING LIMIT	BLANK RESULT	SPIKE	DILUTION FACTOR
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)	
ACETONE	N.D.	50	N.D.		1
BENZENE	N.D.	5.0	N.D.	87.6	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.		1
BROMOFORM	N.D.	5.0	N.D.		1
BROMOMETHANE	N.D.	10	N.D.		1
2-BUTANONE (MEK)	N.D.	100	N.D.		1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.		
CHLOROBENZENE	N.D.	5.0	N.D.	99.6	1 1 1
CHLOROETHANE	N.D.	5.0	N.D.		1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.		1
CHLOROFORM	N.D.	5.0	N.D.		1 1
CHLOROMETHANE	N.D.	10	N.D.	~ -	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.		1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.		1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	~ ←	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.		1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.		1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.		1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	98.3	1 1
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.		1
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.		1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.		1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.		1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.		ī
ETHYLBENZENE	6.5	5.0	N.D.		1 1
2-HEXANONE	N.D.	50	N.D.		1
METHYLENE CHLORIDE	N.D.	5.0	N.D.		1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.		1
STYRENE	N.D.	5.0	N.D.		1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.		1
TETRACHLOROETHENE	N.D.	5.0	N.D.		1
TOLUENE	N.D.	5.0	N.D.	88.1	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.		1.
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.		1.
TRICHLOROETHENE	N.D.	5.0	N.D.	85.3	1
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.		1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.		1
VINYL ACETATE	N.D.	50	N.D.		1
VINYL CHLORIDE	N.D.	5.0	N.D.		1
TOTAL XYLENES	N.D.	5.0	N.D.		1.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809020

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Received: September 2, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-18 3.5'

Spl#: 204115

Matrix: SOIL

Sampled: September 2, 1998

Run#: 14715

Analyzed: September 3, 1998

RESULT

LIMIT

REPORTING

Project#:

BLANK RESULT BLANK DILUTION SPIKE FACTOR

(ug/Kg) (ug/Kg) (ug/Kg) (%)

ANALYTE

WZ

Alex Tam Analyst Michael Verona Operations Manager

Environmental Services (SDB)

September 4, 1998

Submission #: 9809020

3231

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Received: September 2, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-19 3.5'

Spl#: 204116 Matrix: SOIL

Sampled: September 2, 1998 Run#: 14715 Analyzed: September 3, 1998

Project#:

bampioa. Depositioni 2, 1990	2002277			<u>.</u>	-,
		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		(ug/Kg)	(ug/Kg)	(%)	PACION
ANALYTE ACETONE	(ug/Kg) N.D.	50	N.D.	1.2)	1
BENZENE	N.D.	5.0	N.D.	87.6	ĺ
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	07.0	1
BROMOFORM	N.D.	5.0	N.D.		1
BROMOMETHANE	N.D.	10	N.D.		
2-BUTANONE (MEK)	N.D.	100	N.D.		1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.		1 1 1 1
CHLOROBENZENE	N.D.	5.0	N.D.	99.6	1
CHLOROETHANE	N.D.	5.0	N.D.		1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.		i
CHLOROFORM	N.D.	5.0	N.D.		î
CHLOROMETHANE	N.D.	10	N.D.		i
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.		i
1,1-DICHLOROETHANE	N.D.	5.0	N.D.		i
1,2-DICHLOROETHANE	N.D.	5.0	N.D.		ī
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.		ī
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.		ī
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.		ī
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	98.3	1 1 1
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.		ī
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	- -	ī
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.		1 1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.		1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.		1
ETHYLBENZENE	N.D.	5.0	N.D.		i
2-HEXANONE	N.D.	50	N.D.		1
METHYLENE CHLORIDE	N.D.	5.0	N.D.		ī
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	- -	1
STYRENE	N.D.	5.0	N.D.		1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.		1
TETRACHLOROETHENE	N.D.	5.0	N.D.		1
TOLUENE	N.D.	5.0	N.D.	88.1	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.		1 1 1 1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.		1
TRICHLOROETHENE	N.D.	5.0	N.D.	85.3	1
TRICHLOROFLUOROMETHANE	Ν.D.	5.0	N.D.		1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.		
VINYL ACETATE	N.D.	50	N.D.		1
VINYL CHLORIDE	N.D.	5.0	N.D.		1
TOTAL XYLENES	N.D.	5.0	N.D.		1.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809020

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-19 3.5'

Spl#: 204116

Matrix: SOIL

Sampled: September 2, 1998

14715 Run#:

Analyzed: September 3, 1998

REPORTING LIMIT

BLANK RESULT BLANK DILUTION

(ug/Kg)

SPIKE

ANALYTE

RESULT (uq/Kq)

(ug/Kg)

(왕)

FACTOR

Alex Tam Analyst

Michael Verona

Operations Manager

Environmental Services (SDB)

September 4, 1998

Submission #: 9809040

3231

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen
Project: OLIVER RUBBER
Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Project#:

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-20 7.5'

Analyzed: September 4, 1998

· ·			4	1	-, 2350
		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)	1110101
ACETONE	N.D.	50	N.D.		1
BENZENE	N.D.	5.0	N.D.	105	ī
BROMODICHLOROMETHANE	N.D.	5.0	N.D.		ว้
BROMOFORM	ND.	5.0	N.D.		1 1
BROMOMETHANE	N.D.	10	N.D.		ī
2-BUTANONE (MEK)	N.D.	100	N.D.		ī
CARBON TETRACHLORIDE	N.D.	5.0	N.D.		ī
CHLOROBENZENE	N.D.	5.0	N.D.	95.5	ī
CHLOROETHANE	N.D.	5.0	N.D.		1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.		1
CHLOROFORM	N.D.	5.0	N.D.		1
CHLOROMETHANE	N.D.	10	N.D.		1 1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.		1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.		1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.		1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.		1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.		1
1,4-DICHLOROBENZENE	Ŋ.D.	5.0	N.D.		1
1,1-DICHLOROETHENE 1,2-DICHLOROETHENE (CIS)	Ŋ.D.	5.0	N.D.	107	1
1,2-DICHLOROETHENE (CIS) 1,2-DICHLOROETHENE (TRANS)	Ŋ.D.	5.0	N.D.		1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.		, 1
CIS-1,3-DICHLOROPROPENE	и.D.	5.0	N.D.		´ <u>1</u>
TRANS-1,3-DICHLOROPROPENE	N.D. N.D.	5.0	и.р.	= =	1
ETHYLBENZENE	N.D.	5.0	N.D.		1
2-HEXANONE	N.D.	5.0 50	N.D.		1 1 1
METHYLENE CHLORIDE	N.D.	5.0	N.D. N.D.		
4-METHYL-2-PENTANONE (MIBK)	N.D.	5.0	N.D.		1 1
STYRENE	N.D.	5.0	N.D.		i
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.		1
TETRACHLOROETHENE	N.D.	5.0	N.D.		i
TOLUENE	N.D.	5.0	N.D.	92.6	i
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	JZ.0	i
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.		i
TRICHLOROETHENE	N.D.	5.0	N.D.	94.0	ī
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.		· ī
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.		ī
VINYL ACETATE	N.D.	50	N.D.		ī
VINYL CHLORIDE	N.D.	5.0	N.D.		1
TOTAL XYLENES	N.D.	5.0	N.D.	-	1

Environmental Services (SDB)

September 4, 1998

Submission #: 9809040

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AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-20 7.5'

Spl#: 204391

Matrix: SOIL

Run#: 14720 Analyzed: September 4, 1998

Sampled: September 3, 1998

RESULT

REPORTING LIMIT

BLANK RESULT BLANK DILUTION

SPIKE

ANALYTE

(ug/Kg)

(ug/Kg)

(ug/Kg)

(%)

FACTOR

June Zhao Analyst

Michael Verona

Operations Manager

Environmental Services (SDB)

September 4, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-21 9.5'

Spl#: 204392 Matrix: SOIL

Sampled: September 3, 1998 Run#: 14720 Analyzed: September 4, 1998

Sampled: September 3, 1996	Kull#:	14720 A	naiyzea. o	CPCCIIDCI	T, 1000
	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE	DILUTION FACTOR
ANALYTE	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)	
ACETONE	N.D.	50	N.D.		1
BENZENE	N.D.	5.0	N.D.	105	ī
BROMODICHLOROMETHANE	N.D.	5.0	N.D.		1
BROMOFORM	N.D.	5.0	N.D.		1
BROMOMETHANE	N.D.	10	N.D.		1
2-BUTANONE (MEK)	N.D.	100	N.D.		1 1 1 1 1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.		1
CHLOROBENZENE	N.D.	5.0	N.D.	95.5	1
CHLOROETHANE	N.D.	5.0	N.D.		1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.		
CHLOROFORM	N.D.	5.0	N.D.		1 1 1 1 1 1 1 1 1 1 1
CHLOROMETHANE	N.D.	10	N.D.		1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.		1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.		1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.		<u></u>
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.		<u> </u>
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.		1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	107	1 1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	107	یل. م
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.		<u>+</u> 1
1,2-DICHLOROETHENE (TRANS) 1,2-DICHLOROPROPANE	N.D. N.D.	5.0	N.D. N.D.		٦ ٦
CIS-1,3-DICHLOROPROPENE	N.D. N.D.	5.0 5.0	N.D.		1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.		1
ETHYLBENZENE	N.D.	5.0	N.D.		1
2-HEXANONE	N.D.	50	N.D.		1
METHYLENE CHLORIDE	N.D.	5.0	N.D.		1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.		1
STYRENE	N.D.	5.0	N.D.	- -	ī
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.		j
TÉTRACHLOROETHENE	N.D.	5.0	N.D.	-	1
TOLUENE	N.D.	5.0	N.D.	92.6	1.
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.		1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.		1.
TRICHLOROETHENE	N.D.	5.0	N.D.	94.0	
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.		1.
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.		1
VINYL ACETATE	N.D.	50	N.D.		1
VINYL CHLORIDE	$N \cdot D$.	5.0	N.D.		3
TOTAL XYLENES	N.D.	5.0	N.D.		1

Environmental Services (SDB)

September 4, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Received: September 3, 1998

Project#: 3231

<u>(ug/Kg)</u>

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-21 9.5'

Spl#: 204392

Matrix: SOIL

Sampled: September 3, 1998

Run#: 14720

Analyzed: September 4, 1998

SPIKE

(왕)

BLANK DILUTION

FACTOR

REPORTING BLANK RESULT LIMIT RESULT

(ug/Kg)

June Zhao Analyst

ANALYTE

Michael Verona Operations Manager

(ug/Kg)

Environmental Services (SDB)

September 8, 1998

Submission #: 9809020

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-18 3.5'

Spl#: 204115 Matrix: SOIL

Extracted: September 3, 1998

Sampled: September 2, 1998 Run#: 14739 Analyzed: September 4, 1998

ANALYTE	RESULT (mq/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	(%)	ACTOR
PHENOL	N.D.	0.10	N.D.	67.5	1
BIS (2-CHLOROETHYL) ETHER	N.D.	0.10	Ŋ.D.		1 1 1 1
2-CHLOROPHENOL	N.D.	0.10	N.D.	72.0	1
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.		1
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	72.5	1
BÉNZYL ALCOHOL	N.D.	0.20	N.D.		
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.		1
2-METHYLPHENOL	N.D.	0.10	N.D.		1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.10	N.D.		1
4-METHYLPHENOL	N.D.	0.20	N.D.		1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	59.0	1
HEXACHLOROETHANE	N.D.	0.10	N.D.		1
NITROBENZENE	N.D.	0.10	N.D.		1.
TOODUODONE	N.D.	0.10	N.D.	- +	1
2-NITROPHENOL	N.D.	0.10	N.D.		1
2-NITROPHENOL 2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.		1
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.10	N.D.		1
	N.D.	0.10	N.D.		1
2,4-DICHLOROPHENOL 1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	70.3	1
NÁPHTH ALENE	N.D.	0.10	N.D.		1
4-CHLOROANILINE	N.D.	0.20	N.D.		1
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.		1
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	72.0	1
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	- -	1
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.		1
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.		1
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.		1
2-CHLORONAPHTHALENE	N.D.	0.10	N.D.		1.
2-NITROANILINE	N.D.	0.50	Ν.D.		1
DIMETHYL PHTHALATE	N.D.	0.50	N.D.		1
ACENAPHTHYLENE	N.D.	0.10	N.D.		1
3-NITROANILINE	N.D.	0.10	N.D.		1
ACENAPHTHENE	N.D.	0.10	N.D.	71.9	1
2,4-DINITROPHENOL	N.D.	0.50	N.D.		1
4-NITROPHENOL	N.D.	0.50	N.D.	73.0	1
DIBENZOFURAN	N.D.	0.10	N.D.		111111111111111111111111111111111111111
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	81.8	1
2,6-DINITROTOLUENE	N.D.	0.20	N.D.		1
DIETHYL PHTHALATE	N.D.	0.50	N.D.		1 1
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.		1

Environmental Services (SDB)

September 8, 1998

Submission #: 9809020

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AOUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-18 3.5

Matrix: SOIL Spl#: 204115 Sampled: September 2, 1998 Run#: 14739 Extracted: September 3, 1998 Analyzed: September 4, 1998

		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)	
FLUORENE	N.D.	0.10	N.D.		1
4-NITROANILINE	N.D.	0.50	N.D.		1
2-METHYL-4,6-DINITROPHENOL	N.D.	0.50	Ŋ.D.		1
n-NITROSOD IPHENYLAMINE	N.D.	0.10	Ŋ.D.	- -	1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.		Ţ
HEXACHLOROB ENZENE	N.D.	0.10	N.D.		1
PENTACHLOROPHENOL	N.D.	0.50	N.D.	63.0	Ţ
PHENANTHRENE	N.D.	0.10	N.D.		Ţ
ANTHRACENE	N.D.	0.10	Ŋ.D.		1
DI-N-BUTYL PHTHALATE	N.D.	2.0	N.D.		1
FLUORANTHENE	N.D.	0.10	N.D.	A	1. 1
PYRENE	N.D.	0.10	N.D.	79.4	1 1
BUTYL BENZYL PHTHALATE	N.D.	0.50	Ŋ.D.		<u> </u>
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.		1
BENZO (A) ANTHRACENE	N.D.	0.10	N.D.		1
BIS(2-ETHYLHEXYL)PHTHALATE	$N \cdot D$.	0.50	Ŋ.D.		± 1
CHRYSENE	N.D.	0.10	N.D.		1
DI-N-OCTYL PHTHALATE	Ŋ.D.	0.50	N.D.		
BENZO (B) FLUORANTHENE	N.D.	0.10	N.D.		1
BENZO (K) FLUORANTHENE	N.D.	0.20	N.D.		1
BENZO (A) PYRENE	Ŋ.D.	0.050	N.D.		1
INDENO(1,2,3 C,D) PYRENE	N.D.	0.20	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	0.20	N.D.	<u></u>	⊥ 1
BENZO (G, H, I) PERYLENE	N.D.	0.20	N.D.		1
BENZOIC ACID	N.D.	0.50	N.D.	- -	_

Michael Lee

Operations Manager

Analyst

Environmental Services (SDB)

September 8, 1998

Submission #: 9809020

AOUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-19 3.5'

Matrix: SOIL Spl#: 204116

Extracted: September 3, 1998

Analyzed: September 4, 1998 Sampled: September 2, 1998 Run#: 14739

bumpica. Septembol 2, 200		REPORTING	BLANK		DILUTION FACTOR
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	<u>(mg/Kg)</u>	(%) 67.5	1
PHENOL	N.D.	0.10	N.D.	67.5	1
BIS (2-CHLOROETHYL) ETHER	N.D.	0.10	N.D.	72.0	$\overset{\scriptscriptstyle\perp}{1}$
2-CHLOROPHENOL	N.D.	0.10	N.D.	72.0	1
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	72.5	i
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.		1
BÉNZYL ALCOHOL	N.D.	0.20	N.D.		<u> </u>
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	 	1 1 1
2-METHYLPHENOL	N.D.	0.10	N.D.		1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.10	N.D.		1
4-METHYLPHENOL	N.D.	0.20	И.D.		1 1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	59.0	Ţ
HEXACHLOROETHANE	N.D.	0.10	N.D.		1
NITROBENZENE	N.D.	0.10	N.D.		1
ISOPHORONE	N.D.	0.10	Ŋ.D.		1
2-NITROPHENOL	N.D.	0.10	N.D.		1
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.		1
BİS(2-CHLOROETHOXY)ME THANE	N.D.	0.10	N.D.		1
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.		. 1
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	70.3	1 1
NÁPHTHALENE	N.D.	0.10	N.D.		1
4-CHLOROANILINE	N.D.	0.20	N.D.		1
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.		1
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	72.0	1
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.		1
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.		1
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.		1
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.		1
2-CHLORONAPHTHALENE	N.D.	0.10	N.D.		1
2-NITROANILINE	N.D.	0.50	N.D.		1
DIMETHYL PHTHALATE	N.D.	0.50	N.D.		1
ACENAPHTHYLENE	N.D.	0.10	N.D.		1
3-NITROANILINE	N.D.	0.10	N.D.		1
ACENAPHTHENE	N.D.	0.10	N.D.	71.9	1
2,4-DINITROPHENOL	N.D.	0.50	N.D.		1
4-NITROPHENOL	N.D.	0.50	N.D.	73.0	1
DIBENZOFURAN	N.D.	0.10	N.D.		1
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	81.8	1 1 1 1 1 1 1 1 1 1
2,6-DINITROTOLUENE	N.D.	0.20	N.D.		
DIETHYL PHTHALATE	N.D.	0.50	N.D.		1
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.		1
I OHLONGIHERE PHINE	2	~ - ~ ~	•		

Environmental Services (SDB)

September 8, 1998

Submission #: 9809020

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AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-19 3.5'

Spl#: 204116 Matrix: SOIL

Extracted: September 3, 1998

Sampled: September 2, 1998 Run#: 14739 Analyzed: September 4, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	SPIKE	DILUTION FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)	
FLUORENE	N.D.	0.10	N.D.		1
4-NITROANILINE	N.D.	0.50	N.D.		1
2-METHYL-4,6-DINITROPHENOL	N.D.	0.50	N.D.		1
n-NITROSODIPHENYLAMINE	N.D.	0.10	N.D.		1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.		1
HEXACHLOROBENZENE	N.D.	0.10	N.D.		1
PENTACHLOROPHENOL	N.D.	0.50	N.D.	63.0	1
PHENANTHRENE	N.D.	0.10	N.D.		1
ANTHRACENE	N.D.	0.10	N.D.		1
DI-N-BUTYL PHTHALATE	N.D.	2.0	N.D.		Ť
FLUORANTHENE	N.D.	0.10	Ŋ.D.		<u>_</u>
PYRENE	N.D.	0.10	N.D.	79.4	1
BUTYL BENZYL PHTHALATE	N.D.	0.50	${\tt N}$. ${\tt D}$.		Ţ
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.		Ť
BÉNZO (A) ANTHRACENE	N.D.	0.10	N . D .		Ť
BIS(2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.		Ţ
CHRYSENE	N.D.	0.10	N.D.		1
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.		· 1
BENZO (B) FLUORANTHENE	N.D.	0.10	N.D.		Ţ
BENZO (K) FLUORANTHENE	N.D.	0.20	N.D.		1
BENZO (A) PYRENE	N.D.	0.050	N.D.		Ţ
INDENO(1,2,3 C,D) PYRENE	N.D.	0.20	N.D.		
DIBENZO (A, H) ANTHRACENE	N.D.	0.20	N.D.		1 1 1
BENZO (G, H, I) PERYLENE	N.D.	0.20	N.D.		Ţ
BENZOIC ACID	N.D.	0.50	N.D.		1

Michael Lee

Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-20 7.5'

Spl#: 204391 Matrix: SOIL Extracted: September 4, 1998 Sampled: September 3, 1998 Run#: 14723 Analyzed: September 8, 1998

REPORTING BLANK BLANK DILUTION SPIKE LIMIT RESULT FACTOR RESULT ANALYTE (mg/Kg) (mg/Kg) (mg/Kg) (왕) PHENOL 0.10 N.D. BIS (2-CHLOROETHYL) ETHER 0.10 N.D. N.D. N.D. 0.10 2-CHLOROPHENOL N.D. 78.5 1,3-DICHLOROBENZENE N.D. 0.10 N.D. 1,4-DICHLOROBENZENE 0.10 76.8 N.D. N.D. BÉNZYL ALCOHOL 1,2-DICHLOROBENZENE N.D. 0.20 N.D. N.D. 0.10 2-METHYLPHENOL N.D. 0.10 N.D. BIS (2-CHLOROISOPROPYL) ETHER 0.10 N.D. N.D. 4-METHYLPHENOL N.D. 0.20 N.D. N-NITROSO-DI-N-PROPYLAMINE N.D. 0.10 74.8 N.D. HEXACHLOROETHANE N.D. 0.10 - -NITROBENZENE N.D. 0.10 N.D. - -ISOPHORONE N.D. N.D. 0.10 2-NITROPHENOL N.D. 0.10 N.D. 2,4-DIMETHYLPHENOL N.D. 0.10 N.D. BIS (2-CHLOROETHOXY) METHANE N.D. 0.10 N.D. - -2,4-DICHLOROPHENOL N.D. 0.10 N.D. 1,2,4-TRICHLOROBENZENE N.D. 0.10 72.9 N.D. NAPHTHALENE N.D. 0.10 N.D. - -4-CHLOROANILINE N.D. 0.20 N.D. **HEXACHLOROBUTADIENE** N.D. 0.10 N.D. 4 - CHLORO - 3 - METHYLPHENOL N.D. 0.20 79.5 N.D. 2-METHYLNAPHTHALENE N.D. 0.10 N.D. **HEXACHLOROCYCLOPENTADIENE** N.D. 0.10 N.D. 2,4,6-TRICHLOROPHENOL N.D. 0.10 N.D. 2,4,5-TRICHLOROPHENOL 0.10 N.D. 2-CHLORONAPHTHALENE N.D. N.D. 0.10 2-NITROANILINE N.D. 0.50 N.D. DIMETHYL PHTHALATE N.D. 0.50 N.D. **ACENAPHTHYLENE** N.D. 0.10 N.D. 3-NITROANILINE 0.10 N.D. N.D. **ACENAPHTHENE** 76.9 N.D. 0.10 N.D. 2,4-DINITROPHENOL N.D. 0.50 N.D. 4-NITROPHENOL N.D. 0.50 N.D. 68.0 DIBENZOFURAN 2,4-DINITROTOLUENE 0.10 N.D. N.D. N.D. 0.10 N.D. 83.5 2,6-DINITROTOLUENE N.D. 0.20 N.D. DIETHYL PHTHALATE N.D. 0.50 N.D. 4-CHLOROPHENYL PHENYL ETHER N.D. N.D. 0.10

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-20 7.5'

Spl#: 204391

Matrix: SOIL

Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14723 Analyzed: September 8, 1998

		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(mq/Kq)	(mg/Kg)	(mg/Kg)	(%)	
FLUORENE	N.D.	0.10	N.D.		1
4-NITROANILINE	N.D.	0.50	N.D.		1
2-METHYL-4,6-DINITROPHENOL	N.D.	0.50	N.D.		1
n-NITROSODIPHE NYLAMINE	N.D.	0.10	N.D.		1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.		1
HEXACHLOROBENZENE	N.D.	0.10	N.D.		1
PENTACHLOROPHENOL	N.D.	0.50	N.D.	52.0	1
PHENANTHRENE	N.D.	0.10	N.D.		1
ANTHRACENE	N.D.	0.10	N.D.		1
DI-N-BUTYL PHTHALATE	N.D.	2.0	N.D.		1
FLUORANTHENE	N.D.	0.10	N.D.	_ =	1
PYRENE	Ŋ.D.	0.10	N.D.	75.4	1
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.		1
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.		1
BENZO (A) ANTHRACENE	N.D.	0.10	N.D.		1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.		1
CHRYSENE	N.D.	0.10	N.D.		1.
DI-N-OCTYL PHTHALATE	Ŋ.D.	0.50	N.D.		1
BENZO (B) FLUORANTHENE	N.D.	0.10	N.D.		1
BENZO(K) FLUORANTHENE	Ŋ.D.	0.20	N.D.		1
BENZO(A) PYRENE	Ŋ.D.	0.050	N.D.		1
INDENO(1,2,3 C,D) PYRENE	Ŋ.D.	0.20	N.D.		Ţ
DIBENZO(A, H) ANTHRACENE	Ŋ.D.	0.20	N.D.		1
BENZO(G,H,I)PERYLENE BENZOIC—ACID	N.D.	0.20	N.D.		1
DENACTO	N.D.	0.50	N.D.		1

Michael Lee

Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-21 9.5'

Spl#: 204392 Matrix: SOIL Sampled: September 3, 1998 Run#: 14723 Extracted: September 4, 1998
Analyzed: September 4, 1998

	,,,		4	T	-,
		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	(mq/Kq)	(%)	11101010
PHENOL	0.29	0.10	N.D.	77.5	1
BIS (2-CHLOROETHYL) ETHER	N.D.	0.10	N.D.		i
2-CHLOROPHENOL	N.D.	0.10	N.D.	78.5	1
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	, 0.5	1
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	76.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
BÉNZYL ALCOHOL	N.D.	0.20	N.D.	, 0 . 0	ī
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.		1
2-METHYLPHENOL	N.D.	0.10	N.D.		า์
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.10	N.D.		ī
4-METHYLPHENOL	N.D.	0.20	N.D.		ī
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	74.8	ī
HEXACHLOROETHANE	N.D.	0.10	N.D.		ī
NITROBENZENE	N.D.	0.10	N.D.		Ť
ISOPHORONE	N.D.	0.10	N.D.		ī
2-NITROPHENOL	N.D.	0.10	N.D.		ī
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.		ī
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.10	N.D.		1 1
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.		· ī
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	72.9	ī
NAPHTHALENE	N.D.	0.10	N.D.		1 1
4-CHLOROANILINE	N.D.	0.20	N.D.		$\bar{\mathtt{1}}$
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.		ī
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	79.5	ī
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.		ī
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.		ī
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.		ī
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.		ï
2-CHLORONAPHTHALENE	N.D.	0.10	N.D.		ī
2-NITROANILINE	N.D.	0.50	N.D.		ī
DIMETHYL PHTHALATE	N.D.	0.50	N.D.		ī
ACENAPHTHYLENE	N.D.	0.10	N.D.		ī
3-NITROANILINE	N.D.	0.10	N.D.		1
ACENAPHTHENE	N.D.	0.10	N.D.	76.9	ī
2,4-DINITROPHENOL	N.D.	0.50	N.D.		ī
4-NITROPHENOL	N.D.	0.50	N.D.	68.0	ī
DIBENZOFURAN	N.D.	0.10	N.D.		ī
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	83.5	1
2,6-DINITROTOLUENE	N.D.	0.20	N.D.		1 1 1 1 1 1 1 1 1 1 1
DIETHYL PHTHALATE	N.D.	0.50	N.D.		ī
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.		1

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040 page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-21 9.5'

Spl#: 204392

Matrix: SOIL

Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14723 Analyzed: September 4, 1998

		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)	
FLUORENE	N.D.	0.10	N.D.		1
4-NITROANILINE	N.D.	0.50	N.D.		ī
2-METHYL-4,6-DINITROPHENOL	N.D.	0.50	N.D.	~ -	ī
n-NITROSODIPHENYLAMINE	N.D.	0.10	N.D.		1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.		1
HEXACHLOROBENZENE	N.D.	0.10	N.D.		1
PENTACHLOROPHENOL	N.D.	0.50	N.D.	52.0	1
PHENANTHRENE	N.D.	0.10	N.D.		1
ANTHRACENE	N.D.	0.10	N.D.		1
DI-N-BUTYL PHTHALATE	N.D.	2.0	N.D.		1
FLUORANTHENE	N.D.	0.10	N.D.		1
PYRENE	Ŋ.D.	0.10	N.D.	75.4	1
BUTYL BENZYL PHTHALATE	N.D.	0.50	Ŋ.D.		1
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.		1
BENZO (A) ANTHRACENE	N.D.	0.10	N.D.		1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.		1
CHRYSENE DI-N-OCTYL PHTHALATE	Ν.Д.	0.10	N.D.		1
BENZO (B) FLUORANTHENE	N.D.	0.50	N.D.		1
BENZO(B) FLUORANTHENE BENZO(K) FLUORANTHENE	Ŋ.D.	0.10	N.D.		1
BENZO(A) PYRENE	Ŋ.D.	0.20	N.D.		1
INDENO(1,2,3 C,D) PYRENE	N.D.	0.050	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	0.20	N.D.		1
BENZO (G, H, I) PERYLENE	N.D.	0.20	N.D.		1
BENZOIC ACID	N.D.	0.20	N.D.		1
philore wern	N.D.	0.50	N.D.		1

- Calle Michael Lee

Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AOUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-18 WATER

Spl#: 204387 Matrix: WATER

Sampled: September 3, 1998 Run#: 14742 Analyzed: September 4, 1998

bampioa. Depectment 3, 1330	icuii,	11,12	maryzea. S	-p-c-mocr	T, 1330
	RESULT	REPORTING LIMIT	BLANK RESULT	SPIKE	DILUTION FACTOR
ANALYTE	<u>(ug/L)</u>	(ug/L)	(ug/L)	(%)	
ACETONE	N.D.	50	N.D.		1
BENZENE	N.D.	2.0	N.D.	98.4	1
BROMODICHLOROMETHANE	Ŋ.D.	2.0	N.D.		1.
BROMOFORM	N.D.	2.0	Ŋ.D.		1 1
BROMOMETHANE	N.D.	5.0	N.D.		1
2-BUTANONE (MEK)	N.D.	100	N.D.		1 1 1 1 1
CARBON TETRACHLORIDE	N.D.	2.0	Ŋ.D.		1
CHLOROBENZENE	Ŋ.D.	2.0	N.D.	103	1
CHLOROETHANE	Ŋ.D.	2.0	N.D.		1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.	- -	1
CHLOROFORM	N.D.	3.0	N.D.		1
CHLOROMETHANE	Ŋ.D.	5.0	N.D.		1.
DIBROMOCHLOROMETHANE	Ŋ.D.	2.0	N.D.		1 1 1 1
1,1-DICHLOROETHANE 1,2-DICHLOROETHANE	Ŋ.D.	2.0	N.D.		<u>]</u> .
1,2 DICHLOROEINANE	N.D.	2.0	N.D.		<u>]</u> .
1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE	Ŋ.D.	2.0	N.D.		1. 1
1,4-DICHLOROBENZENE	N.D.	2.0	Ŋ.D.		1
1,1-DICHLOROETHENE	N.D.	2.0	N.D.		1
1,2-DICHLOROETHENE (CIS)	N.D.	2.0	N.D.	106	1
1,2-DICHLOROETHENE (CIS)	N.D.	2.0	Ŋ.D.		1.
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.].
CIS-1,3-DICHLOROPROPENE	N.D. N.D.	2.0	N.D.		1
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0 2.0	N.D.		1
ETHYLBENZENE	N.D.	2.0	N.D. N.D.		
2-HEXANONE	N.D.				1
METHYLENE CHLORIDE	N.D.	50 5.0	N.D.]
4-METHYL-2-PENTANONE (MIBK)	N.D.	5.0 50	N.D. N.D.]
STYRENE	N.D.	2.0	N.D.		<u>+</u>
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.		1 1 1
TETRACHLOROETHENE	N.D.	2.0	N.D.		
TOLUENE	N.D.	2.0	N.D.	105	J. 1
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	105	J.
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.		i. 1
TRICHLOROETHENE	N.D.	2.0	N.D.	95.0	± -
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	95.0	3. 3.
TRICHLOROTRIFLUOROETHANE	N.D.	2.0	N.D.		1. 1. 1. 1. 1.
VINYL ACETATE	N.D.	20	N.D.		.∔. 1
VINYL CHLORIDE	N.D.	5.0	N.D.		1
TOTAL XYLENES	N.D.	2.0	N.D.		4. 1
	44.42.	2 0	14.0.		.غ

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-18 WATER

Spl#: 204387

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742 Analyzed: September 4, 1998

RESULT

REPORTING LIMIT

BLANK RESULT BLANK DILUTION

SPIKE

ANALYTE

(ug/L)

(ug/L)

(uq/L)

(왕)

FACTOR

Oleg Nemtsov

Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen
Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-19 WATER

 Spl#:
 204388
 Matrix:
 WATER

 Sampled:
 September 3, 1998
 Run#:
 14742

ember 3, 1998 Run#: 14742 Analyzed: September 4, 1998

bampida. Depeember 3, 1990	itαiiη ,	11/12 11	mayaca. oc	.p.c.c.m.c.r	±, 1990
	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE	DILUTION FACTOR
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)	
ACETONE	N.D.	50	N.D.		1
BENZENE	N.D.	2.0	N.D.	98.4	ī
BROMODICHLOROMETHANE	N.D.	2.0	N.D.		ī
BROMOFORM	N.D.	2.0	N.D.		ī
BROMOMETHANE	N.D.	5.0	N.D.		ī
2-BUTANONE (MEK)	N.D.	100	N.D.		ī
CARBON TETRACHLORIDE	N.D.	2.0	N.D.		1
CHLOROBENZENE	N.D.	2.0	N.D.	103	1
CHLOROETHANE	N.D.	2.0	N.D.		1 1 1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.		1
CHLOROFORM	N.D.	3.0	N.D.		
CHLOROMETHANE	N.D.	5.0	N.D.		1 1
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.		1
1,1-DICHLOROETHANE	N.D.	2.0	N.D.		1
1,2-DICHLOROETHANE	N.D.	2.0	N.D.		1
1,2-DICHLOROBENZENE	N.D.	2.0	Ŋ.D.		1
1,3-DICHLOROBENZENE	N.D.	2.0	Ŋ.D.		1
1,4-DICHLOROBENZENE	Ŋ.D.	2.0	N.D.	200	1
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	106	1
1,2-DICHLOROETHENE (CIS) 1,2-DICHLOROETHENE (TRANS)	N.D.	2.0	N.D.		1
1,2-DICHLOROPROPANE	N.D. N.D.	2.0 2.0	N.D.		1 1
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D. N.D.		i 1
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.		
ETHYLBENZENE	N.D.	2.0	N.D. N.D.		1 1
2-HEXANONE	N.D.	50	N.D.		1
METHYLENE CHLORIDE	N.D.	5.0	N.D.		1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.		1
STYRENE	N.D.	2.0	N.D.		ī
1,1,2,2-TETRACHLOROETHANE	N.D.	$\frac{5.0}{2.0}$	N.D.	- -	1
TETRACHLOROETHENE	N.D.	2.0	N.D.		1 1 1
TOLUENE	N.D.	2.0	N.D.	105	ī
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.		ī
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.		1
TRICHLOROETHENE	N.D.	2.0	N.D.	95.0	1
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.		1
TRICHLOROTRIFLUOROETHANE	N.D.	2.0	N.D.		1
VINYL ACETATE	N.D.	20	N.D.		1
VINYL CHLORIDE	N.D.	5.0	N.D.		1
TOTAL XYLENES	N.D.	2.0	N.D.		1

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Received: September 3, 1998

Project#: 3231

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-19 WATER

Sp1#: 204388

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742

re: One sample for Volatile Organics by GC/MS analysis, continued.

Analyzed: September 4, 1998

RESULT

REPORTING LIMIT

BLANK RESULT BLANK DILUTION

SPIKE

<u>ANALYT</u>E

<u>(ug/L)</u>

(ug/L)

(ug/L)

(왕)

FACTOR

Oleg Nemtsov Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-20 WATER

Spl#: 204389 *Matrix:* WATER

Sampled: September 3, 1998 Run#: 14742 Analyzed: September 4, 1998

bampied: September 3, 1990	Kun#:	14/42 A	naryzeu. Se	bremmer	4, 1330
3 2 7 7 7 7 7 T T T T T T T T T T T T T T	RESULT	REPORTING LIMIT	BLANK RESULT	SPIKE	DILUTION FACTOR
ANALYTE	(ug/L)	(<u>ug/L)</u>	(<u>ug/L)</u>	(왕)	
ACETONE	N.D.	50	N.D.		1
BENZENE	N.D.	2.0	N.D.	98.4	1
BROMODICHLOROMETHANE	Ŋ.D.	2.0	N.D.		1
BROMOFORM	Ŋ.D.	2.0	И. D.		1 1
BROMOMETHANE	Ŋ.D.	5.0	и.р.		1
2-BUTANONE (MEK)	N.D.	100	N.D.		1
CARBON TETRACHLORIDE	N.D.	2.0	N.D.		1
CHLOROBENZENE	N.D.	2.0	N.D.	103	1
CHLOROETHANE	N.D.	2.0	N.D.		l
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.		1
CHLOROFORM	N.D.	3.0	N.D.		1
CHLOROMETHANE	N.D.	5.0	N.D.		1 1 1.
DIBROMOCHLOROMETHANE	$N-\mathbb{Q}$.	2.0	N.D.		1_
1,1-DICHLOROETHANE	(11)	2.0	N.D.		1
1,2-DICHLOROETHANE	M.D.	2.0	N.D.		1
1,2-DICHLOROBENZENE	N.D.	2.0	N.D.		1
1,3-DICHLOROBENZENE	N.D.	2.0	N.D.		1
1,4-DICHLOROBENZENE	$\mathbf{N} \cdot \mathbf{D}$	2.0	N.D.		1
1,1-DICHLOROETHENE	/ 260 ノ	2.0	N.D.	106	1.
1,2-DICHLOROETHENE (CIS)	N.D.	2.0	N.D.		1
1,2-DICHLOROETHENE (TRANS)	N.D.	2.0	N.D.		1
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.		1
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.		1
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.		1
ETHYLBENZENE	N.D.	2.0	N.D.		1
2-HEXANONE	N.D.	50	N.D.		1.
METHYLENE CHLORIDE	N.D.	5.0	N.D.	- -	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.		1
STYRENE	N.D.	2.0	N.D.		1
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.		1
TETRACHLOROETHENE	N.D.	2.0	N.D.		1
TOLUENE	N.D.	2.0	N.D.	105	1
1,1,1-TRICHLOROETHANE	/99 ` .	2.0	N.D.		1.
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.		1
TRICHLOROETHENE	N.D.	2.0	N.D.	95.0]
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	- -	1
TRICHLOROTRIFLUOROETHANE	N.D.	2.0	N.D.		1
VINYL ACETATE	N.D.	20	И.Д.		1
VINYL CHLORIDE	N.D.	5.0	N.D.		1
TOTAL XYLENES	N.D.	2.0	N.D.	- ···	l.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

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AOUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#:

3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-20 WATER

Spl#: 204389

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742 Analyzed: September 4, 1998

REPORTING LIMIT

BLANK RESULT BLANK DILUTION

SPIKE FACTOR

ANALYTE

RESULT (ug/L)

(ug/L)

(uq/L)

(%)

Oleg Némtsov

Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER Project#: 3231

Received: September 3, 1998

re: One sample for TCLP Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-21 WATER

Spl#: 204390 Matrix: WATER

Sampled: September 3, 1998 Run#: 14742 Analyzed: September 4, 1998

,					
		REPORTING	BLANK		DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(uq/L)	(ug/L)	(ug/L)	(%)	
ACETONE	N.D.	50	N.D.	·	1
BENZENE	N.D.	2.0	N.D.	98.4	1
BROMODICHLOROMETHANE	N.D.	2.0	N.D.		1
BROMOFORM	N.D.	2.0	N.D.		1
BROMOMETHANE	N.D.	5.0	N.D.		. 1
2-BUTANONE (MEK)	N.D.	100	N.D.		1 1 1 1 1 1
CARBON TETRACHLORIDE	N.D.	2.0	N.D.		1
CHLOROBENZENE	N.D.	2.0	Ŋ.D.	103	1
CHLOROETHANE	N.D.	2.0	N.D.		1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.		1
CHLOROFORM	N.D.	3.0	N.D.		1
CHLOROMETHANE	N.D.	5.0	N.D.		1
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.		$\bar{1}$
1,1-DICHLOROETHANE	N.D.	2.0	N.D.		1
1,2-DICHLOROETHANE	N.D.	2.0	N.D.		1 1 1 1 1
1,2-DICHLOROBENZENE	N.D.	2.0	N.D.		1
1,3-DICHLOROBENZENE	N.D.	2.0	N.D.		1
1,4-DICHLOROBENZENE	N.D.	2.0	N.D.		1
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	106	1
1,2-DICHLOROETHENE (CIS)	N.D.	2.0	N.D.		
1,2-DICHLOROETHENE (TRANS)	N.D.	2.0	N.D.		1 1 1
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.		1
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	Ŋ.D.	- -	
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.		1 1 1
ETHYLBENZENE	N.D.	2.0	N.D.		1
2-HEXANONE	N.D.	50	N.D.		<u>_</u>
METHYLENE CHLORIDE	N.D.	5.0	N.D.		1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.		1
STYRENE	N.D.	2.0	N.D.		1
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.		1
TETRACHLOROETHENE	N.D.	2.0	N.D.		1
TOLUENE	N.D.	2.0	N.D.	105	1 1 1
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.		1
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.		1 1 1
TRICHLOROETHENE	N.D.	2.0	N.D.	95.0	1
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.		1
TRICHLOROTRIFLUOROETHANE	N.D.	2.0	N.D.		1.
VINYL ACETATE	N.D.	20	N.D.		1
VINYL CHLORIDE	N.D.	5.0	N.D.		1
TOTAL XYLENES	N.D.	2.0	N.D.		1

Note: SURROGATE RECOVERIES DEMONSTRATE MATRIX INTERFERENCE

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

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AOUA SCIENCE ENGINEERS INC

Atten: Dave Allen Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for TCLP Volatile Organics by GC/MS analysis,

continued.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-21 WATER

Spl#: 204390

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742 Analyzed: September 4, 1998

REPORTING

BLANK

BLANK DILUTION

RESULT

LIMIT

RESULT

SPIKE FACTOR

(ug/L)

(ug/L) (ug/L)

Oleg 'Nemtsov

Analyst

ANALYTE

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-18 WATER

Spl#: 204387 Matrix: WATER Ext

Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14716 Analyzed: September 4, 1998

Samplea: September 3, 1998	Rull#:	14/10 A	naryzea. od	pecmoer	±, ±,,
	RESULT	REPORTING LIMIT	BLANK RESULT	SPIKE	DILUTION FACTOR
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)	
PHENOL	N.D.	5.4	N.D.	32.5	1
BIS(2-CHLOROETHYL)ETHER	N.D.	5.4	N.D.		1
2-CHLOROPHENOL	N.D.	5.4	N.D.	65.8	1 1
1,3-DICHLOROBENZENE	N.D.	5.4	N.D.		<u>_</u>
1,4-DICHLOROBENZENE	N.D.	5.4	N.D.	75.3	1
BÉNZYL ALCOHOL	N.D.	14	N.D.		1
1,2-DICHLOROBENZENE	N.D.	5.4	N.D.		1
2-METHYLPHENOL	N.D.	5.4	N.D.		1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	5.4	N.D.		1
4-METHYLPHENOL	N.D.	5.4	N.D.	- -	$\overline{1}$
N-NITROSO-DI-N-PROPYLAMINE	N.D.	5.4	N.D.	76.0	1
HEXACHLOROETHANE	N.D.	5.4	N.D.		1
NITROBENZENE	N.D.	5.4 5.4	N.D.		1
ISOPHORONE	N.D.	5.4	N.D.		1
2-NITROPHENOL	N.D.	5.4	N.D.		1
2,4-DIMETHYLPHENOL	N.D.	5.4	N.D.		1
BIS (2-CHLOROETHOXY) METHANE	N.D.	14	N.D.		1
2,4-DICHLOROPHENOL	N.D.	5.4	N.D.		1
1,2,4-TRICHLOROBENZENE	N.D.	5.4	N.D.	70.3	ī
NAPHTHALENE	N.D.	5.4	N.D.		1
4-CHLOROANILINE	N.D.	5.4	N.D.		1
HEXACHLOROBUTADIENE	N.D.	5.4	N.D.		1
4-CHLORO-3-METHYLPHENOL	N.D.	14	N.D.	72.5	1
2-METHYLNAPHTHALENE	N.D.	5.4	N.D.		1 1
HEXACHLOROCYCLOPENTADIENE	N.D.	5.4	N.D.		1
2,4,6-TRICHLOROPHENOL	N.D.	5.4	N.D.		1
2,4,5-TRICHLOROPHENOL	N.D.	5.4	N.D.		1 1
2-CHLORONAPHTHALENE	N.D.	5.4	N.D.		1
2-NITROANILINE	N.D.	27	N.D.		1
DIMETHYL PHTHALATE	N.D.	14	N.D.		1 1 1
ACENAPHTHYLENE	${\tt N.D.}$	5.4	N.D.		<u> </u>
3-NITROANILINE	N.D.	27	N.D.		1
ACENAPHTHENE	N.D.	5.4	N.D.	86.0	1 1
2,4-DINITROPHENOL	N.D.	27	N.D.		<u> </u>
4-NITROPHENOL	N.D.	27	N.D.	25.3	Ţ
DIBENZOFURAN	N.D.	5.4	$\mathtt{N}.\mathtt{D}$.		Ţ
2,4-DINITROTOLUENE	N.D.	5.4	Ν. D.	71.3	1 1 1
2,6-DINITROTOLUENE	N.D.	14	Ŋ.D.		
DIETHYL PHTHALATE	N.D.	14	Ŋ.D.		1
4-CHLOROPHENYL PHENYL ETHER	N.D.	5.4	N.D.		1

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-18 WATER

Spl#: 204387 Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14716 Analyzed: September 4, 1998

		REPORTING	BLANK RESULT	BLANK SPIKE	DILUTION FACTOR
	RESULT	LIMIT		(%)	FACIOR
ANALYTE	(ug/L)	(ug/L)	<u>(ug/L)</u>	(%)	
FLUORENE	N.D.	14	N.D.		⊥ 1
4-NITROANILINE	N.D.	27	N.D.		1 1
2-METHYL-4,6-DINITROPHENOL	N.D.	27	N.D.		<u> </u>
n-NITROSODIPHENYLAMINE	N.D.	5.4	N.D.		1
4-BROMOPHENYL PHENYL ETHER	N.D.	14	N.D.		1
HEXACHLOROBENZENE	N.D.	5.4	N.D.	4 = 0	
PENTACHLOROPHENOL	N.D.	27	N.D.	45.8	1
PHENANTHRENE	N.D.	5.4	N.D.		Ţ
ANTHRACENE	N.D.	5.4	N.D.		Ţ
DI-N-BUTYL PHTHALATE	N.D.	14	Ŋ.D.		
FLUORANTHENE	N.D.	5.4	N.D.		
PYRENE	N.D.	5.4	N.D.	73.0	1
BUTYL BENZYL PHTHALATE	N.D.	14	N.D.		1
3,3'-DICHLOROBENZIDINE	N.D.	14	N.D.		1
BÉNZO (A) ANTHRACENE	N.D.	5.4	N.D.		1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	14	N.D.		1
CHRYSENE	N.D.	5.4	N.D.		1
DI-N-OCTYL PHTHALATE	N.D.	14	N.D.		1
BENZO (B) FLUORANTHENE	N.D.	5.4	N.D.		1
BENZO (K) FLUORANTHENE	N.D.	5.4	N.D.		1
BENZO (A) PYRENE	N.D.	5.4	N.D.		1
INDENO(1,2,3 C,D) PYRENE	N.D.	5.4	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	5.4	N.D.		1
BENZO (G, H, I) PERYLENE	N.D.	5.4	N.D.		1
BENZOIC ACID	N.D.	27	N.D.		1

Note: Reporting limits raised due to limited sample size.

Michael Lee

Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-19 WATER

Spl#: 204388 Matrix: WATER Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14716 Analyzed: September 4, 1998

	RESULT	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK I SPIKE (%)	FACTOR
ANALYTE		5.0	N.D.	32.5	1
PHENOL	N.D.	5.0	N.D.	22.3	
BIS (2-CHLOROETHYL) ETHER	N.D. N.D.	5.0	N.D.	65.8	1
2-CHLOROPHENOL	N.D.	5.0	N.D.		1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	75.3	i
1,4-DICHLOROBENZENE BENZYL ALCOHOL	N.D.	12	N.D.	75.5	า้
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.		1 1 1 1 1
2-METHYLPHENOL	N.D.	5.0	N.D.		า๋
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	5.0	N.D.		î
4-METHYLPHENOL	N.D.	5.0	N.D.		1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	5.0	N.D.	76.0	ī
HEXACHLOROETHANE	N.D.	5.0	N.D.		1
NITROBENZENE	N.D.	5.0	N.D.		1
ISOPHORONE	N.D.	5.0	N.D.		ī
2-NITROPHENOL	N.D.	5.0	N.D.		ī
2,4-DIMETHYLPHENOL	N.D.	5.0	N.D.		ī
BIS (2-CHLOROETHOXY) METHANE	N.D.	12	N.D.		ī
2,4-DICHLOROPHENOL	N.D.	5.0	N.D.		1
1,2,4-TRICHLOROBENZENE	N.D.	5.ŏ	N.D.	70.3	1
NAPHTHALENE	N.D.	5.0	N.D.	 -	1
4-CHLOROANILINE	N.D.	5.0	N.D.		1
HEXACHLOROBUTADIENE	N.D.	5.0	N.D.		1
4-CHLORO-3-METHYLPHENOL	N.D.	12	N.D.	72.5	1
2-METHYLNAPHTHALENE	N.D.	5.0	N.D.		1
HEXACHLOROCYCLOPENTADIENE	N.D.	5.0	N.D.		1
2,4,6-TRICHLOROPHENOL	N.D.	5.0 5.0	N.D.		1
2,4,5-TRICHLOROPHENOL	N.D.	5.0	N.D.		1
2-CHLORONAPHTHALENE	N.D.	5.0 5.0	N.D.		1
2-NITROANILINE	N.D.	25	N.D.		1
DIMETHYL PHTHALATE	N.D.	12	N.D.		1
ACENAPHTHYLENE	N.D.	5.0	N.D.		1.
3-NITROANILINE	N.D.	25	N.D.		3
ACENAPHTHENE	N.D.	5.0	N.D.	86.0	1
2,4-DINITROPH ENOL	N.D.	25	N.D.	- -	1
4-NITROPHENOL	N.D.	25	N.D.	25.3	1.
DIBENZOFURAN	N.D.	5.0	Ν.D.		1
2,4-DINITROTOLUENE	N.D.	5.0	N.D.	71.3	1
2,6-DINITROTOLUENE	N.D.	12	N.D.		1
DIETHYL PHTHALATE	N.D.	12	N.D.	<u></u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4-CHLOROPHENYL PHENYL ETHER	N.D.	5.0	N.D.		1

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued. Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-19 WATER

Spl#: 204388 Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14716 Analyzed: September 4, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT		ILUTION FACTOR
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)	
FLUORENE	N.D.	12	N.D.		Ţ
4-NITROANILINE	N.D.	25	N.D.		Ţ
2-METHYL-4,6-DINITROPHENOL	N.D.	25	N.D.		1
${f n}$ -NITROSODIPHENYLAMINE	N.D.	5.0	N.D.		Ţ
4-BROMOPHENYL PHENYL ETHER	N.D.	12	N.D.		Ŧ
HEXACHLOROBENZENE	N.D.	5.0	N.D.	45.0	1
PENTACHLOROPHENOL	N.D.	25	N.D.	45.8	Ţ
PHENANTHRENE	N.D.	5.0	N.D.		Ţ
ANTHRACENE	N.D.	5.0	N.D.		1
DI-N-BUTYL PHTHALATE	N.D.	12	N.D.		. <u>†</u>
FLUORANTHENE	N.D.	5.0	N.D.		Ţ
PYRENE	N.D.	5.0	Ŋ.D.	73.0	Ţ
BUTYL BENZYL PHTHALATE	N.D.	12	Ŋ.D.		Ţ
3,3'-DICHLOROBENZIDINE	N.D.	12	N.D.		1
BENZO (A) ANTHRACENE	N.D.	5.0	N.D.		1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	12	N.D.		1
CHRYSENE	N.D.	5.0	N.D.		1
DI-N-OCTYL PHTHALATE	N.D.	12	N.D.		1
B ENZO (B) FLUORAN THENE	N.D.	5.0	N.D.		1
BENZO (K) FLUORANTHENE	N.D.	5.0	N.D.		1
BENZO (A) PYRENE	N.D.	5.0	N.D.		1
INDENO(1,2,3 C,D)PYRENE	N.D.	5.0	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	5.0	N.D.		1
BENZO (G, H, I) PERYLENE	N.D.	5.0	N.D.		1
BENZOIC ACID	N.D.	25	N.D.		1

Note: Reporting limits raised due to limited sample size.

Michael Lee G. M. Ce.

Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Received: September 3, 1998

Project#: 3231

3

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-20 WATER

Spl#: 204389 Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14716 Analyzed: September 4, 1998

bampical bopdomaci o, is		DEPARMING.	BLANK	יים א אודער די א אודער	DILUTION
		REPORTING	RESULT	SPIKE	FACTOR
	RESULT	LIMIT			PACION
ANALYTE	<u>(ug/L)</u>	<u>(na/r)</u>	<u>(ug/L)</u>	(%) 32.5	1
PHENOL	Ŋ.D.	3.6	N.D.	⊋∠.∋ 	1
BIS (2-CHLOROETHYL) ETHER	Ŋ.D.	3.6	N.D.	65.8	1
2-CHLOROPHENOL	Ŋ.D.	3.6	N.D.	65.0	1
1,3-DICHLOROBENZENE	N.D.	3.6	N.D. N.D.	75.3	1 1
1,4-DICHLOROBENZENE	N.D.	3.6		75.5	i
BENZYL ALCOHOL	N.D.	8.9	N.D.		i
1,2-DICHLOROBENZENE	N.D.	3.6	N.D.		1
2-METHYLPHENOL	N.D.	3.6	N.D.		1
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	3.6	N.D.	- -	1
4-METHYLPHENOL	N.D.	3.6	N.D.	76.0	1 1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	3.6	N.D.	76.0	ĺ
HEXACHLOROETHANE	Ŋ.D.	3.6	N.D.		1
NITROBENZENE	N.D.	3.6	N.D.		1 1
ISOPHORONE	N.D.	3.6	N. D.		ĺ
2-NITROPHENOL	${\tt N}$. ${\tt D}$.	3.6	Ŋ.D.		<u> </u>
2,4-DIMETHYLPHENOL	N.D.	3.6	N.D.		1
BIS (2-CHLOROETHOXY) METHANE	N.D.	8.9	Ŋ.D.		<u> </u>
2,4-DICHLOROPHENOL	N.D.	3.6	N.D.	70 7	<u>.</u>
1,2,4-TRICHLOROBENZENE	N.D.	3.6	N.D.	70.3	1 1 1 1 1
NAPHTHALENE	N.D.	3.6	N.D.		1
4-CHLORO ANILINE	N.D.	3.6	Ŋ.D.		1
HEXACHLOROBUTAD I ENE	N.D.	3.6	Ŋ.D.	 	Ţ
4-CHLORO-3-METHYLPHENOL	N.D.	8.9	N.D.	72.5	1
2-METHYLNAPHTHALENE	N.D.	3.6	N.D.		1 1 1 1 1
HEXACHLOROCYCLOPENTADIENE	N.D.	3.6	N.D.		1
2,4,6-TRICHLOROPHENOL	N.D.	3.6	N.D.		1
2,4,5-TRICHLOROPHENOL	N.D.	3.6	N.D.		1
2-CHLORONAPHTHALENE	N.D.	3.6	N.D.	_ =	7
2-NITRO ANILINE	N.D.	18	N.D.		1 1 1
DIMETHYL PHTHALATE	N.D.	8.9	N.D.		1
ACENAPHTHYLENE	N.D.	3.6	N.D.		1
3-NITRO ANILINE	Ν.D.	18	N.D.	-	1 1 1 1 1
ACENAPHT HENE	N.D.	3.6	N.D.	86.0	1
2,4-DINITROPHENOL	N.D.	18	N.D.		1
4-NITROP HENOL	Ν.D.	18	N.D.	25.3	1
DIBENZOFURAN	N.D.	3.6	N.D.	=	1
2,4-DINITROTOLUENE	N.D.	3.6	N.D.	71.3	1.
2,6-DINITROTOLUENE	N , D ,	8.9	N.D.		1
DIETHYL PHTHALATE	N.D.	8.9	N.D.		1
4-CHLOROPHENYL PHENYL ETHER	N.D.	3.6	N.D.		1

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-20 WATER

Spl#: 204389 Matrix: WATER

atrix: WATER Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14716 Analyzed: September 4, 1998

ANALYTE	RESULT	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK D SPIKE (%)	ILUTION FACTOR
FLUORENE	N.D.	8.9	N.D.	• • •	1
4-NITROANILINE	N.D.	18	N.D.		1
2-METHYL-4,6-DINITROPHENOL	N.D.	18	N.D.		1
n-NITROSODIPHENYLAMINE	N.D.	3.6	N.D.		1
4-BROMOPHENYL PHENYL ETHER	N.D.	8.9	N.D.		1
HEXACHLOROBENZENE	N.D.	3.6	N.D.		1
PENTACHLOROPHENOL	N.D.	18	N.D.	45.8	1
PHENANTHRENE	N.D.		N.D.		1
ANTHRACENE	N.D.	3.6	N.D.		1
DI-N-BUTYL PHTHALATE	N.D.	8.9	N.D.		1
FLUORANTHENE	N.D.	3.6	N.D.		1.
PYRENE	N.D.	3.6	N.D.	73.0	1
BUTYL B ENZYL PHTHALATE	9.4	8.9	N.D.		1
3,3'-DICHLOROBENZIDINE	N.D.	8.9	N.D.		1
BÉNZO (A) ANTHRACENE	N.D.	3.6	N.D.		1
BIS(2-ETHYLHEXYL)PHTHALATE		8.9	N.D.		1
CHRYSENE	N.D.	3.6	N.D.		1
DI-N-OCTYL PHTHALATE	N.D.	8.9	N.D.		1
BENZO (B) FLUORANTHENE	N.D.		N.D.		1
BENZO (K) FL UORANTHENE	N.D.	3.6	N.D.		1
BENZO (A) PYRENE	N.D.	3.6	N.D.	~ ←	1
INDENO(1,2,3 C,D)PYRENE	N.D.	3.6	N.D.		1
DIBENZO(A, H) ANTHRACENE	N.D.	3.6	N.D.		<u>.</u>
BENZO(G,H,I) PERYLENE	N.D.	3.6	N.D.		1
BENZOIC ACID	N.D.	18	N.D.		1

Note: Reporting limits raised due to limited sample size.

Michael Lee

a colle

Analyst

Michael Verona

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-21 WATER

Spl#: 204390 Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14716 Analyzed: September 4, 1998

bumprout popeonmer of root	21002277			_	-,
		REPORTING	BLANK	BLANK	DILUTION
	RESULT	LIMIT	RESULT	SPIKE	FACTOR
ANALYTE	(ug/L)	(ug/L)	(uq/L)	(%)	
PHENOL	N.D.	2.3	N.D.	32.5	1
BIS (2-CHLOROETHYL) ETHER	N.D.	2.3	N.D.		1
2-CHLOROPHENOL	N.D.	2.3	N.D.	65.8	1
1,3-DICHLOROBENZENE	N.D.	2.3	N.D.		1 1 1 1 1 1 1 1 1 1
1,4-DICHLOROBENZENE	N.D.	2.3	N.D.	75.3	1
BÉNZYL ALCOHOL	N.D.	5.8 2.3	N.D.		1
1,2-DICHLOROBENZENE	N.D.	2.3	N.D.		1
2-METHYLPHENOL	N.D.	2.3	N.D.		1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	2.3	N.D.	 .	1
4-METHYLPHENOL	N.D.	$\frac{1}{2}.\frac{1}{3}$	N.D.		1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	2.3	N.D.	76.0	1
HEXACHLOROETHANE	N.D.	2.3	N.D.		1
NITROBENZENE	N.D.	2.3 2.3	N.D.		1
ISOPHORONE	N.D.	2.3	N.D.		.1
2-NITROPHENOL	N.D.	2.3	N.D.		1
2,4-DIMETHYLPHENOL	N.D.	2.3	N.D.		1
BIS (2-CHLOROETHOXY) METHANE	N.D.	5.8	N.D.		1
2,4-DICHLOROPHENOL	N.D.	2.3	N.D.		1
1,2,4-TRICHLOROBENZENE	N.D.	2.3	N.D.	70.3	1
NAPHTHALENE	N.D.	2.3	N.D.		1
4-CHLOROANILINE	N.D.	2.3	N.D.		1
HEXACHL OROBUTADIENE	N.D.	2.3	N.D.		1
4-CHLORO-3-METHYLPHENOL	N.D.	5.8 2.3 2.3 2.3	N.D.	72.5	1
2-METHYLNAPHTHALENE	N.D.	2.3	N.D.		1
HEXACHLO ROCYCLOPENTADIENE	N.D.	2.3	N.D.		1
2,4,6-TRICHLOROPHENOL	N.D.	2.3	N.D.		1.
2,4,5-TRICHLOROPHENOL	N.D.	2.3	N.D.		1
2-CHLORONAPHTHALENE	N.D.	2.3	N.D.		1
2-NITROANILINE	N.D.	12	N.D.		1
DIMETHYL PHTHALATE	N.D.	5.8	N.D.		1
ACENAPHTHYLENE	N.D.	2.3	N.D.	- -	1
3-NITROANILINE	N.D.	12	N.D.		1
ACENAPHTHENE	N.D.	2.3	N.D.	86.0	1
2,4-DINITROPHENOL	N.D.	12	N.D.		1
4-NITROPHENOL	N.D.	12	Ν. D.	25.3	
DIBENZOFURAN	N.D.	2.3	N.D.		1
2,4-DINITROTOLUENE	N.D.	2.3	Ν. D.	71.3	111111111111111111111111111111111111111
2,6-DINITROTOLUENE	N.D.	5.8	N.D.	 -	1
DIETHYL PHTHALATE	N.D.	5.8 2.3	N.D.	- -	
4-CHLOROPHENYL PHENYL ETHER	N.D.	2.3	N.D.		1.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-21 WATER

Spl#: 204390

Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998 Run#: 14716

Analyzed: September 4, 1998

	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE	DILUTION FACTOR
ANALYTE	(ug/L)	(ug/L)	(ug/L)	(%)	PACION
FLUORENE	N.D.	5.8	N.D.		1
4-NITROANILINE	N.D.	12	N.D.		1
2-METHYL-4,6-DINITROPHENOL	N.D.	12	N.D.		1
n-NITROSODIPHENYLAMINE	N.D.	2.3	N.D.		1
4-BROMOPHENYL PHENYL ETHER	N.D.	5.8	N.D.		1
HEXACHLOROBENZENE	N.D.	2.3	N.D.		1
PENTACHLOROPHENOL	N.D.	12	N.D.	45.8	1
PHENANTHRENE	N.D.	2.3	N.D.		1
ANTHRACENE	N.D.	2.3	N.D.		1
DI-N-BUTYL PHTHALATE	N.D.	5.8	N.D.		1
FLUOR ANTHENE	N.D.	2.3	N.D.		1
PYRENE	N.D.	2.3	N.D.	73.0	1
BUTYL BENZYL PHTHALATE	N.D.	5.8	N.D.		1
3,3'-DICHLOROBENZIDINE	N.D.	5.8	N.D.		1
BÉNZO (A) ANTHRACENE	N.D.	2.3	N.D.		1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	5.8	N.D.	~ ~	1
CHRYSENE	N.D.	2.3	N.D.		1.
DI-N-OCTYL PHTHALATE	N.D.	5.8	N.D.		1
BENZO (B) FLUORANTHENE	N.D.	2.3	N.D.		1
BENZO (K) FLUORANTHENE	N.D.	2.3	N.D.		1
BENZO (A) PYRENE	N.D.	2.3 2.3	N.D.		1
INDENO(1,2,3 C,D)PYRENE	N.D.	2.3	N.D.		1
DIBENZO (A, H) ANTHRACENE	N.D.	2.3	N.D.		1
BENZO (G, H, I) PERYLENE	N.D.	2.3	N.D.		1
BENZOIC ACID	N.D.	12	N.D.		1
Note: Reporting limits ra	ised due to	limited sample	size		

Reporting limits raised due to limited sample size.

Michael Lee

Analyst

Michael Verona

41747

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Road, #4, San Ramon, CA 94583 (925) 820-9391

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SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-G (EPA 5	TPH-G (EPA 5	TPH-E (EPA;	PURG (EPA 6	PURG (EPA 6	VOLA (EPA 6	SEMI-	OIL & ((EPA 5	LUFT (EPA (CAM 1 (EPA (PCBs (EPA	ORG, PEST	ORG/ HERE	FUEL (EPA				Õ O
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