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911 Fifth Avenue, Suite 100
Kirkland, Washington 98033
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June 27, 1997
Project VB99711A

Ms. Mary O'Herron
Washington State Department of Ecology NWRO
3190 160th Avenue SE
Bellevue, WA 98008-5452

**Subject: PRELIMINARY REPORT OF PHASE II ENVIRONMENTAL SITE
ASSESSMENT ACTIVITIES**
Former Chuck Olson Chevrolet Facility
17545 Aurora North
Shoreline, Washington

Dear Ms. O'Herron:

On behalf of Chuck Olson Chevrolet, Associated Earth Sciences, Inc. (AESI) is submitting this report to fulfill the reporting requirements under WAC 173-340-300(2). This report provides a summary of the results of the recent Phase II Environmental Site Assessment (ESA) conducted by AESI at the Chuck Olson Chevrolet Facility, located at 17545 Aurora Avenue North in Shoreline, Washington.

Please do not hesitate to contact us at (206) 780-9370 if you have any questions, or if you should require additional information.

Sincerely,
ASSOCIATED EARTH SCIENCES, INC.
Bainbridge Island, Washington



William V. (Chip) Goodhue, RPG
Senior Project Hydrogeologist

cc w/o attachments: Chuck Olson - Chuck Olson Chevrolet
Gary Stratton - Chuck Olson Chevrolet

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911 Fifth Avenue, Suite 100
Kirkland, Washington 98033
(425) 827-7701
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Project VB99711AMessrs. Chuck Olson and Gary Stratton
Chuck Olson Chevrolet
17545 Aurora North
Shoreline, Washington 98133**Subject: PRELIMINARY REPORT OF PHASE II ENVIRONMENTAL SITE
ASSESSMENT ACTIVITIES**
Former Chuck Olson Chevrolet Facility
17545 Aurora North
Shoreline, Washington

Dear Sirs:

This letter report provides a summary of the results of the recent Phase II Environmental Site Assessment (ESA) conducted by Associated Earth Sciences, Inc. (AESI) at the Chuck Olson Chevrolet Facility, located at 17545 Aurora Avenue North in Shoreline, Washington. The site location is shown on the attached Figure 1.

SUMMARY OF WORK CONDUCTED TO DATE*Soil Boring Installation and Soil Sampling*

Soil borings were installed at the site between April 14 and May 13, 1997. A total of twelve soil borings were installed, two by hand auger and ten using a Geoprobe® drilling rig and Geoprobe® two-inch macrobore samplers with acetate sleeves. Target areas included the hydraulic lifts, the area of the former underground storage tank (UST), the former parts storage area at the southwest corner of the main service shop building, and the service shop sump. The location of the soil borings are shown on the attached Figures 2 and 3.

Soil samples were collected directly from the hand auger or by splitting the acetate liners of the Geoprobe® two-inch macrobore sampler. Each sample was field screened using visual, olfactory, and sheen testing methods. In addition, each sample was also screened for volatile organic compounds using a photoionization detector (PID) calibrated to isobutylene.

Soils encountered consisted of brown, loose to medium dense, moist silty sandy gravel (fill and decomposed glacial till) overlying gray, very dense, dry to moist silty sandy gravel (glacial till). The depth to till ranged from five feet in the former UST area to generally seven feet adjacent to the hydraulic lifts. Refusal was met in the till at depths of from seven to 14 feet. No evidence of saturated soils or ground water was noted in any of the borings.

Based on the results of field screening, selected samples were placed in laboratory supplied glass jars, sealed, labeled, and placed in a cooler on ice. The samples were delivered under industry-standard chain-of-custody protocols to North Creek Analytical in Bothell, Washington.

All downhole drilling and sampling equipment was cleaned prior to the drilling of each boring to minimize the potential for cross contamination. The soil cuttings generated during soil boring installation were used as backfill in the respective borings.

Initial laboratory analyses included qualitative hydrocarbon identification by Washington State Method WTPH-HCID on eleven samples, and a volatile organic scan by EPA Method 8260 on two samples. Follow up hydrocarbon quantitation analyses were conducted based on the results of the WTPH-HCID hydrocarbon analyses. An additional volatile organic scan was also conducted based on field screening observations. The results of the laboratory analyses are shown in Tables 1 and 2. Laboratory-reported analytical testing results and chain-of-custody forms are provided in the attached Appendix A.

The following is a description of sampling activities and analytical results by area:

Service Shop Bays

Eight soil samples were successfully collected around seven of the ten hydraulic lifts in the service shop bays. The results of the WTPH-HCID analyses indicated seven samples contained diesel- and heavy oil-range hydrocarbons, and six contained gasoline-range hydrocarbons. Follow-up quantitative analyses revealed high concentrations of diesel and heavy oil-range hydrocarbons in seven samples, and moderate concentrations of gasoline in three samples.

The sample collected from adjacent to the hydraulic lift in Bay #12 contained visible hydrocarbons and a moderate solvent-like odor. In addition to hydrocarbons, several volatile organic compounds including tetrachloroethene (a common industrial and dry cleaning solvent) were detected in this sample.

Service Shop Sump

One soil sample was collected from adjacent to the service shop sump. Field screening indicators were negative, and no hydrocarbons were detected in the soil sample. Trace concentrations of two volatile organic compounds (tetrachloroethene and 1,1,1 trichloroethane) were present in the soil sample. However, the concentrations of both compounds were below currently applicable Model Toxics Control Act Method A residential soil cleanup standards.

Former Parts Storage Area

One soil sample was collected from the former parts storage area outside the southwest corner of the service shop. Field screening indicators were negative, and no volatile organic compounds were detected in this sample. Due to the lack of field screening indicators, a WTPH-HCID hydrocarbon screen was not run on this sample.

Former UST Area

A utility locating contractor was unable to locate the former gasoline UST, which reportedly was removed in the 1980's. Two soil samples were collected from the general area of the reported UST location. No field evidence of hydrocarbons were noted in either soil sample. Laboratory analyses indicated moderate concentrations of diesel- and heavy oil-range hydrocarbons in one soil sample. These oil-range hydrocarbons are likely related to the long-term storage of scrap metal from the body shop in this area.

RECOMMENDATIONS

Additional Site Investigation and Cleanup

Additional investigations will need to be conducted to evaluate the extent of hydrocarbons and other contaminants detected in soil during this Phase II assessment. The primary area of concern is within the footprint of the main service shop building. Unfortunately, the limited overhead clearance in this area, coupled with the presence of dense glacial till soil, preclude additional drilling within the building footprint. Additional borings could be installed outside of the building footprint, but would need to be angled beneath the building. This type of drilling is expensive, and collection of discrete soil samples is difficult using angled drilling methods.

Cleanup of contaminants from beneath the building will be very difficult and costly if the main service shop building remains in place. As we understand, future plans for the property may include demolition or modification of this building. Since future investigation and cleanup of the site will be more practical and less costly to conduct if this structure is removed, we recommend that you delay consideration of any additional investigation or cleanup activities until the status of the main service shop building is resolved.

Evaluation of cleanup standards that may apply to any future cleanup is premature at the present time. Additional future sampling and analysis activities should be conducted so as to permit evaluation of hydrocarbon cleanup standards using the Washington Department of Ecology (Ecology) Interim Policy for development of site-specific cleanup levels for hydrocarbons.

Regulatory Approach

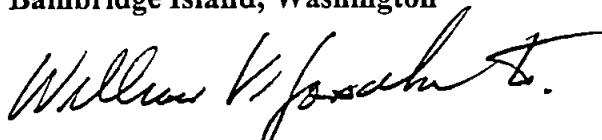
The most common approach to investigation and clean up of contaminated sites in Washington State is through the Independent Remedial Action Program (IRAP). Under this program, investigation and cleanup is conducted by the responsible party in accordance applicable regulations and guidance, but without oversight. After cleanup is complete, formal Ecology review and acceptance of IRAP cleanups is available for a fee. The IRAP process is likely to be the most efficient and cost-effective approach to investigation and cleanup at this facility, and we recommend you adopt this approach.

Reporting Requirements

A release of hazardous substances at the facility has been confirmed by laboratory analysis and will need to be reported to Ecology within 90 days of discovery. AESI will report the release by forwarding a copy of this report to the Ecology information officer prior to July 28, 1997.

Feel free to call us with any questions. Once the future status of the main service shop has been resolved, we will be happy to provide you with recommendations regarding additional site investigation and cleanup options.

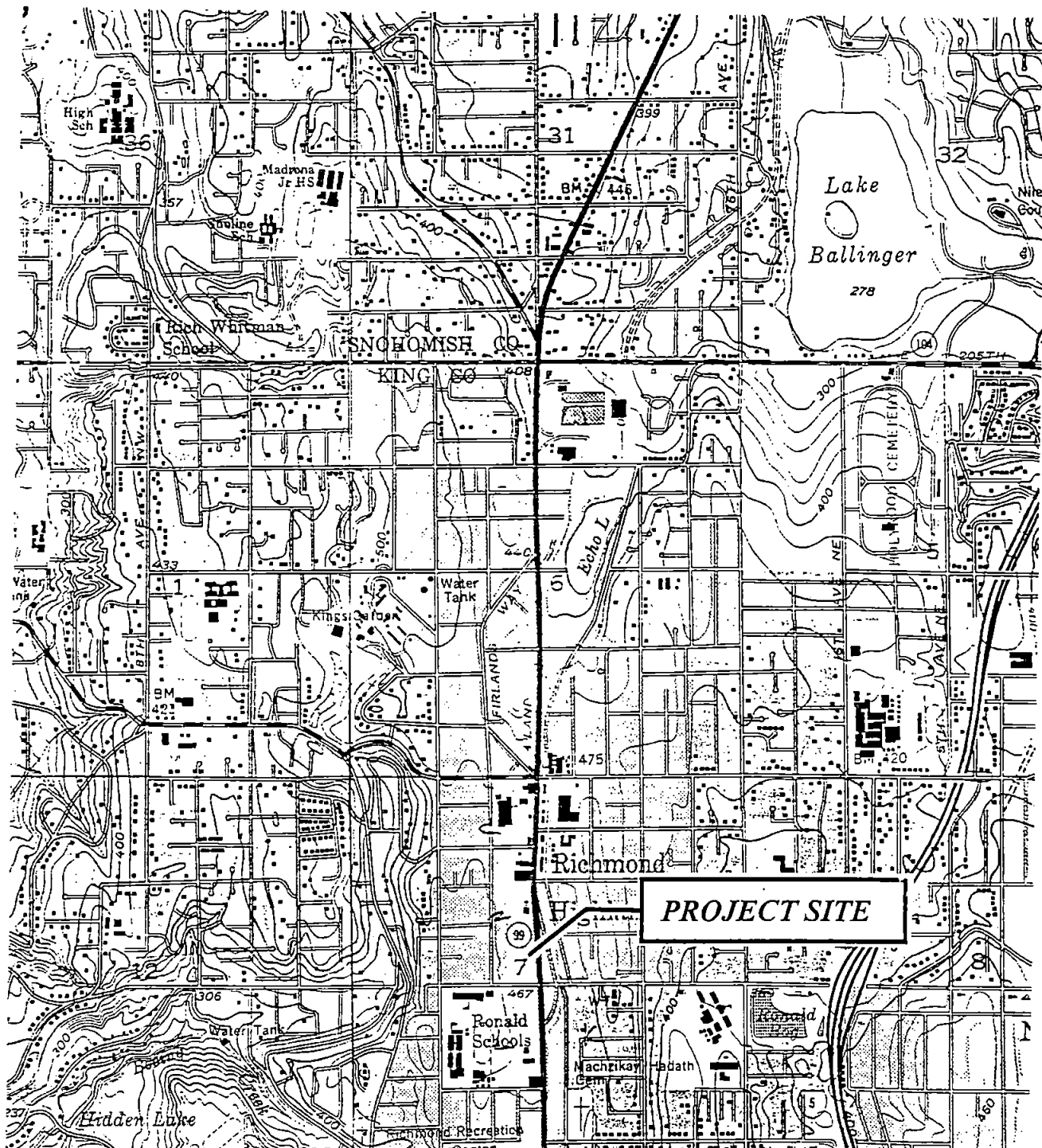
Sincerely,
ASSOCIATED EARTH SCIENCES, INC.
Bainbridge Island, Washington



William V. (Chip) Goodhue, RPG
Senior Project Hydrogeologist

Attachments: Figure 1 - Vicinity Map
Figure 2 - Site Plan - Main Service Shop
Figure 3 - Site Plan - Former UST Area
Table 1 - Soil Sample Analytical Results - Hydrocarbon Analyses
Table 2 - Soil Sample Analytical Results - Volatile Organic Analyses
Appendix A - Laboratory-Reported Analytical Testing Results


cc w/ attachments: Mary O'Herron - Washington State Department of Ecology NWRO



Reference: USGS 7-1/2' Edmonds East, WA quadrangle.

Scale: 1" = 2000'

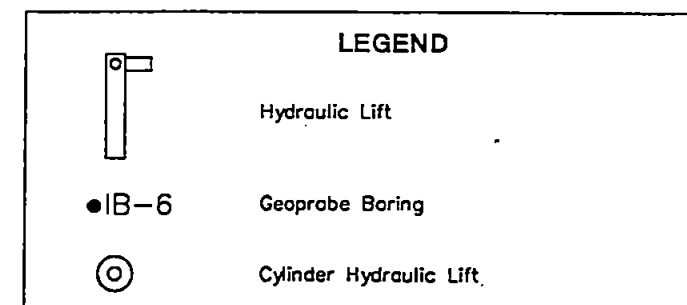
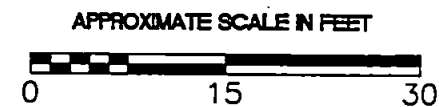
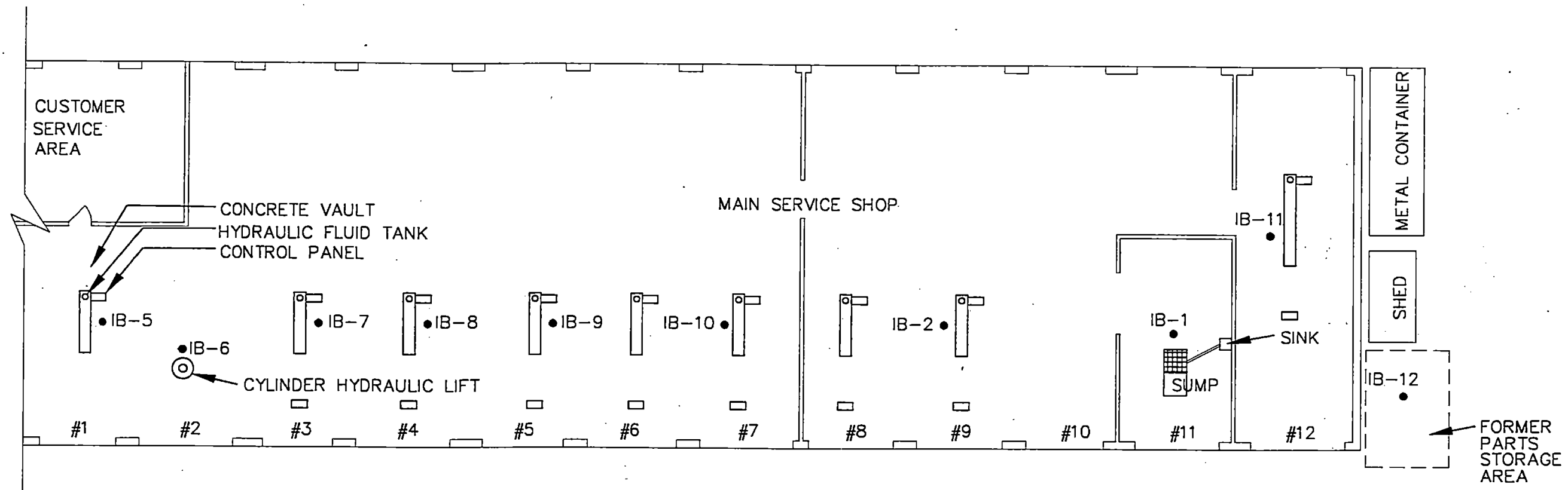


SITE VICINITY MAP CHUCK OLSON CHEVROLET 17545 AURORA NORTH, SHORELINE, WA	DESIGNED BB	PROJECT NO.
	DRAWN DJ	VB9711
	CHECKED BB	FIGURE NO.
	APPROVED BB	1
 ASSOCIATED EARTH SCIENCES, INC	179 Madrona Lane North Shoreline, WA 98110 911 5th Avenue, Suite 100 Kirkland, WA 98033	
	FAX: (206) 780-0370 (206) 780-0438 (206) 827-7701 FAX: (206) 827-5424	

HIGHWAY 99



PARKING



ASSOCIATED
EARTH
SCIENCES, INC

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(206) 827-5424

DESIGNED BB
DRAWN DJ
CHECKED BB
DATE 5/28/97

SITE PLAN-MAIN SERVICE SHOP
CHUCK OLSON CHEVROLET

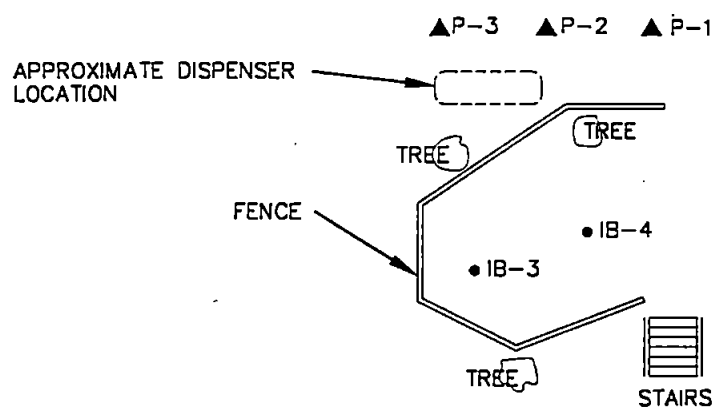
17545 AURORA NORTH, SHORELINE, WA

PROJECT NO.
VB9711
FIGURE NO.

2

MAIN SERVICE BLDG.

PARKING

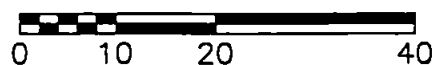


BODY
SHOP
BLDG.

LEGEND

- IB-5 Geoprobe Boring
- ▲ Probe

APPROXIMATE SCALE IN FEET



**SITE PLAN-FORMER UST AREA
CHUCK OLSON CHEVROLET**
17545 AURORA NORTH, SHORELINE, WA

DESIGNED BB
DRAWN DJ
CHECKED BB
APPROVED BB

PROJECT NO.
VB9711
FIGURE NO.
3

AS ASSOCIATED
EARTH
SCIENCES, INC

170 Meadway Lane North
Bedford, MA 01109
911 5th Avenue, Suite 100
Bedford, MA 01103

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TEL: (208) 827-7701
FAX: (208) 827-9424

Table 1
Soil Sample Analytical Results - Hydrocarbon Analyses
Chuck Olson Chevrolet
Shoreline, Washington

Sample Information					Analyses, mg/kg (ppm)									
Sample Location	Sample Identification	Sample Date	Sample Depth, feet	Field Screening (Odors)	WTPH-HCID			WTPH-D (extended)		WTPH-G	Method 8020A or 8260A			
					Gasoline	Diesel	Heavy Oil	Diesel Range	Heavy Oil Range		Benzene	Toluene	Ethyl-Benzene	Total Xylenes
Sump	IB-1	4/14/97	2.5-3	ND	< 20.0	DET	DET	< 10.0	< 25.0	NA	NA	NA	NA	NA
Bay #9	IB-2	4/14/97	8	ND	DET	DET	DET	5,050	17,400	< 10.0	< 0.100	< 0.100	< 0.100	< 0.200
Former UST Area	IB-3.1	5/13/97	8	ND	< 20.0	< 50.0	< 100.0	NA	NA	NA	NA	NA	NA	NA
Former UST Area	IB-4.1	5/13/97	7	ND	< 20.0	< 50.0	DET	116	253	NA	NA	NA	NA	NA
Bay #1	IB-5.1	5/13/97	8	M/S	DET	DET	DET	18,300	52,400	30.6	< 0.0500	< 0.0500	< 0.0500	0.113
Bay #3	IB-7.1	5/13/97	8	ND	< 20.0	< 50.0	< 100.0	NA	NA	NA	NA	NA	NA	NA
Bay #4	IB-8.1	5/13/97	7	ND	< 20.0	DET	DET	3,260	5,820	NA	NA	NA	NA	NA
Bay #5	IB-9.1	5/13/97	7.5	S/M	DET	DET	DET	13,800	34,300	NA	NA	NA	NA	NA
Bay #5	IB-9.3	5/13/97	13.5	S/M	DET	DET	DET	5,150	20,900	NA	NA	NA	NA	NA
Bay #7	IB-10.1	5/13/97	7	M/S	DET	DET	DET	16,900	44,800	419	< 0.500	0.582	1.03	10.5
Bay #12	IB-11.1	5/13/97	5	S/M-solvent	DET	DET	DET	9,080	20,400	567	< 0.500	< 0.500	0.618	7.00
Former Parts Area	IB-12.1	5/13/97	2.5	ND	NA	NA	NA	NA	NA	NA	< 0.200	< 0.200	< 0.200	< 0.200

NOTES:

S/M = slight to moderate odor
M/S = moderate to strong odor
ND = Not Detected
NA = Not Analyzed
DET = Detected

TOTAL
DIESEL/RATIO
22,400

Table 2
Soil Sample Analytical Results
EPA Method 8260A
Chuck Olson Chevrolet
Shoreline, Washington
(all results reported as mg/kg)

	Sump Area	Southern Lift	Parts Area
Sample Identification:	IB-1	IB-11.1	IB-12.1
Sample Depth, feet:	3.0	5.0	8
Sample Date:	4/14/97	5/13/97	5/13/97
Field Screening (Odors):	ND	S/M	ND
n-Butylbenzene	< 0.200	0.91	< 0.200
sec-Butylbenzene	< 0.200	0.429	< 0.200
Ethylbenzene	< 0.200	0.259	< 0.200
Isopropylbenzene	< 0.200	0.323	< 0.200
p-Isopropyltoluene	< 0.200	1.2	< 0.200
Naphthalene	< 0.200	1.56	< 0.200
n-Propylbenzene	< 0.200	0.723	< 0.200
Tetrachloroethene	0.488	3.19	< 0.200
Toluene	< 0.200	0.293	< 0.200
1,1,1-Trichloroethane	0.317	2.74	< 0.200
1,2,4-Trimethylbenzene	< 0.200	7.04	< 0.200
1,3,5-Trimethylbenzene	< 0.200	2.02	< 0.200
o-Xylene	< 0.200	1.16	< 0.200
m,p-Xylene	< 0.200	1.94	< 0.200

NOTES:

S/M = Slight to moderate odor

ND = No detectable odors

Results reported only for compounds detected in one or more samples

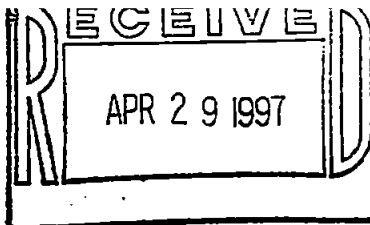
APPENDIX A

LABORATORY-REPORTED ANALYTICAL TESTING RESULTS



NORTH CREEK ANALYTICAL

Environmental Laboratory Services



BOTHELL ■ (206) 481-9200 ■ FAX 485-2992
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 97100
Project Manager: Chip Goodhue

Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
IB-1	B704326-01	Soil	4/14/97
IB-2	B704326-02	Soil	4/14/97

North Creek Analytical, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.*


Kirk Gendron, Project Manager

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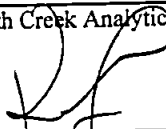
Associated Earth Sciences	Project: Chuck Olson Chevrolet	Sampled: 4/14/97
179 Madrone Lane N.	Project Number: VB 97100	Received: 4/16/97
Bainbridge Island, WA 98110	Project Manager: Chip Goodhue	Reported: 4/28/97 14:38

Hydrocarbon Identification by Washington DOE Method WTPH-HCID North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-1				B704326-01			Soil	
Gasoline Range Hydrocarbons	0470461	4/17/97	4/18/97		20.0	ND	mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	DET	"	
Heavy Oil Range Hydrocarbons	"	"	"		100	DET	"	
Surrogate: 2-FBP	"	"	"	50.0-150		108	%	
IB-2				B704326-02			Soil	
Gasoline Range Hydrocarbons	0470461	4/17/97	4/18/97		20.0	DET	mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	DET	"	
Heavy Oil Range Hydrocarbons	"	"	"		100	DET	"	
Surrogate: 2-FBP	"	"	"	50.0-150		92.1	%	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.


Kirk Gendron, Project Manager

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NORTH CREEK ANALYTICAL

Environmental Laboratory Services

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PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Associated Earth Sciences	Project: Chuck Olson Chevrolet	Sampled: 4/14/97
179 Madrone Lane N.	Project Number: VB 97100	Received: 4/16/97
Bainbridge Island, WA 98110	Project Manager: Chip Goodhue	Reported: 4/28/97 14:38

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A
North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-2				B704326-02			Soil	
Gasoline Range Hydrocarbons	0470602	4/23/97	4/23/97		10.0	ND	mg/kg dry	
Benzene	"	"	"		0.100	ND	"	
Toluene	"	"	"		0.100	ND	"	
Ethylbenzene	"	"	"		0.100	ND	"	
Xylenes (total)	"	"	"		0.200	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		76.0	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		81.6	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 97100
Project Manager: Chip Goodhue

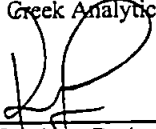
Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-1								
				<u>B704326-01</u>		<u>Soil</u>		
Diesel Range Hydrocarbons	0470610	4/24/97	4/24/97		10.0	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	"	"	"		25.0	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		99.2	%	
IB-2								
				<u>B704326-02</u>		<u>Soil</u>		
Diesel Range Hydrocarbons	0470610	4/24/97	4/25/97		1010	5050	mg/kg dry	1
Heavy Oil Range Hydrocarbons	"	"	"		2530	17400	"	
Surrogate: 2-FBP	"	"	"	50.0-150		61.9	%	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.


Kirk Gendron, Project Manager

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Page 4 of 14



NORTH CREEK ANALYTICAL

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Associated Earth Sciences
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Project: Chuck Olson Chevrolet
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Project Manager: Chip Goodhue

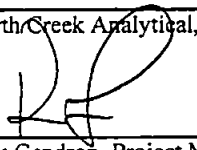
Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Volatile Organic Compounds by EPA Method 8260A North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-1				B704326-01			Soil	
Acetone	0470571	4/22/97	4/23/97		2.00	ND	mg/kg dry	
Benzene	"	"	"		0.200	ND	"	
Bromobenzene	"	"	"		0.200	ND	"	
Bromochloromethane	"	"	"		0.200	ND	"	
Bromodichloromethane	"	"	"		0.200	ND	"	
Bromoform	"	"	"		0.200	ND	"	
Bromomethane	"	"	"		0.200	ND	"	
2-Butanone	"	"	"		2.00	ND	"	
n-Butylbenzene	"	"	"		0.200	ND	"	
sec-Butylbenzene	"	"	"		0.200	ND	"	
tert-Butylbenzene	"	"	"		0.200	ND	"	
Carbon disulfide	"	"	"		0.200	ND	"	
Carbon tetrachloride	"	"	"		0.200	ND	"	
Chlorobenzene	"	"	"		0.200	ND	"	
Chloroethane	"	"	"		0.200	ND	"	
Chloroform	"	"	"		0.200	ND	"	
Chloromethane	"	"	"		0.200	ND	"	
2-Chlorotoluene	"	"	"		0.200	ND	"	
4-Chlorotoluene	"	"	"		0.200	ND	"	
Dibromochloromethane	"	"	"		0.200	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		1.00	ND	"	
1,2-Dibromoethane	"	"	"		0.200	ND	"	
Dibromomethane	"	"	"		0.200	ND	"	
1,2-Dichlorobenzene	"	"	"		0.200	ND	"	
1,3-Dichlorobenzene	"	"	"		0.200	ND	"	
1,4-Dichlorobenzene	"	"	"		0.200	ND	"	
Dichlorodifluoromethane	"	"	"		0.200	ND	"	
1,1-Dichloroethane	"	"	"		0.200	ND	"	
1,2-Dichloroethane	"	"	"		0.200	ND	"	
1,1-Dichloroethene	"	"	"		0.200	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.200	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.200	ND	"	
1,2-Dichloropropane	"	"	"		0.200	ND	"	
1,3-Dichloropropane	"	"	"		0.200	ND	"	
2,2-Dichloropropane	"	"	"		0.200	ND	"	
1,1-Dichloropropene	"	"	"		0.200	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.200	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.200	ND	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.


Kirk Gendron, Project Manager

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NORTH CREEK ANALYTICAL

Environmental Laboratory Services

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PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 97100
Project Manager: Chip Goodhue

Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Volatile Organic Compounds by EPA Method 8260A North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-1 (continued)				B704326-01			Soil	
Ethylbenzene	0470571	4/22/97	4/23/97		0.200	ND	mg/kg dry	
Hexachlorobutadiene	"	"	"		0.200	ND	"	
2-Hexanone	"	"	"		2.00	ND	"	
Isopropylbenzene	"	"	"		0.200	ND	"	
p-Isopropyltoluene	"	"	"		0.200	ND	"	
Methylene chloride	"	"	"		1.00	ND	"	
4-Methyl-2-pentanone	"	"	"		2.00	ND	"	
Naphthalene	"	"	"		0.200	ND	"	
n-Propylbenzene	"	"	"		0.200	ND	"	
Styrene	"	"	"		0.200	ND	"	
1,1,1,2-Tetrachloroethane	"	"	"		0.200	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.200	0.488	"	
Tetrachloroethene	"	"	"		0.200	ND	"	
Toluene	"	"	"		0.200	ND	"	
1,2,3-Trichlorobenzene	"	"	"		0.200	ND	"	
1,2,4-Trichlorobenzene	"	"	"		0.200	0.317	"	
1,1,1-Trichloroethane	"	"	"		0.200	ND	"	
1,1,2-Trichloroethane	"	"	"		0.200	ND	"	
Trichloroethene	"	"	"		0.200	ND	"	
Trichlorofluoromethane	"	"	"		0.200	ND	"	
1,2,3-Trichloropropane	"	"	"		0.200	ND	"	
1,2,4-Trimethylbenzene	"	"	"		0.200	ND	"	
1,3,5-Trimethylbenzene	"	"	"		0.200	ND	"	
Vinyl chloride	"	"	"		0.200	ND	"	
o-Xylene	"	"	"		0.200	ND	"	
m,p-Xylene	"	"	"		0.200	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	70.0-130		78.2	%	
Surrogate: Toluene-d8	"	"	"	70.0-130		92.1	"	
Surrogate: 4-BFB	"	"	"	70.0-130		79.0	"	

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*Refer to end of report for text of notes and definitions.

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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

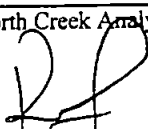
Project: Chuck Olson Chevrolet
Project Number: VB 97100
Project Manager: Chip Goodhue

Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Dry Weight Determination North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
IB-1	B704326-01	Soil	87.5	%
IB-2	B704326-02	Soil	88.8	%

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179 Madrone Lane N.
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Project: Chuck Olson Chevrolet
Project Number: VB 97100
Project Manager: Chip Goodhue

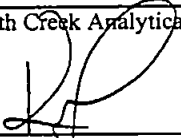
Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Hydrocarbon Identification by Washington DOE Method WTPH-HCID/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<u>Batch: 0470461</u>		<u>Date Prepared: 4/17/97</u>		<u>Extraction Method: HCID (WA)</u>						
<u>Blank</u>		<u>0470461-BLK1</u>								
Gasoline Range Hydrocarbons	4/18/97			ND	mg/kg dry		20.0			
Diesel Range Hydrocarbons	"			ND	"		50.0			
Heavy Oil Range Hydrocarbons	"			ND	"		100			
Surrogate: 2-FBP	"	DET		DET	"	50.0-150	91.7			

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*Refer to end of report for text of notes and definitions.


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Associated Earth Sciences	Project: Chuck Olson Chevrolet	Sampled: 4/14/97
179 Madrone Lane N.	Project Number: VB 97100	Received: 4/16/97
Bainbridge Island, WA 98110	Project Manager: Chip Goodhue	Reported: 4/28/97 14:38

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A/Quality Control

North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0470602										
Blank										
0470602-BLK1										
Gasoline Range Hydrocarbons	4/23/97			ND	mg/kg dry	5.00				
Benzene	"			ND	"	0.0500				
Toluene	"			ND	"	0.0500				
Ethylbenzene	"			ND	"	0.0500				
Xylenes (total)	"			ND	"	0.100				
Surrogate: 4-BFB (FID)	"	4.00		3.53	"	50.0-150	88.2			
Surrogate: 4-BFB (PID)	"	4.00		3.61	"	50.0-150	90.2			
LCS										
0470602-BS1										
Gasoline Range Hydrocarbons	4/23/97	25.0		23.7	mg/kg dry	75.0-125	94.8			
Surrogate: 4-BFB (FID)	"	4.00		3.77	"	50.0-150	94.2			
Duplicate										
0470602-DUP1 B704464-04										
Gasoline Range Hydrocarbons	4/23/97		ND	ND	mg/kg dry			50.0		2
Surrogate: 4-BFB (FID)	"	5.35		3.11	"	50.0-150	58.1			
Matrix Spike										
0470602-MS1 B704366-01										
Benzene	4/23/97	0.612	ND	0.465	mg/kg dry	60.0-140	76.0			
Toluene	"	0.612	ND	0.495	"	60.0-140	80.9			
Ethylbenzene	"	0.612	ND	0.507	"	60.0-140	82.8			
Xylenes (total)	"	1.84	ND	1.50	"	60.0-140	81.5			
Surrogate: 4-BFB (PID)	"	4.90		3.91	"	50.0-150	79.8			
Matrix Spike Dup										
0470602-MSD1 B704366-01										
Benzene	4/23/97	0.612	ND	0.469	mg/kg dry	60.0-140	76.6	20.0	0.786	
Toluene	"	0.612	ND	0.495	"	60.0-140	80.9	20.0	0	
Ethylbenzene	"	0.612	ND	0.504	"	60.0-140	82.4	20.0	0.484	
Xylenes (total)	"	1.84	ND	1.51	"	60.0-140	82.1	20.0	0.733	
Surrogate: 4-BFB (PID)	"	4.90		3.98	"	50.0-150	81.2			

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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 97100
Project Manager: Chip Goodhue

Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) with Silica Gel Clean-up/Quality Control

North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0470610										
Blank										
Date Prepared: 4/24/97										
0470610-BLK1										
Diesel Range Hydrocarbons	4/24/97			ND	mg/kg dry	10.0				
Heavy Oil Range Hydrocarbons	"			ND	"	25.0				
Surrogate: 2-FBP	"	11.7		12.0	"	50.0-150	103			
LCS										
0470610-BS1										
Diesel Range Hydrocarbons	4/24/97	68.0		72.1	mg/kg dry	59.0-119	106			
Surrogate: 2-FBP	"	11.7		11.3	"	50.0-150	96.6			
Duplicate										
0470610-DUP1 B704326-01										
Diesel Range Hydrocarbons	4/24/97		ND	ND	mg/kg dry			56.0		
Surrogate: 2-FBP	"	13.3		14.3	"	50.0-150	108			

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Associated Earth Sciences
 179 Madrone Lane N.
 Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
 Project Number: VB 97100
 Project Manager: Chip Goodhue

Sampled: 4/14/97
 Received: 4/16/97
 Reported: 4/28/97 14:38

Volatile Organic Compounds by EPA Method 8260A/Quality Control

North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0470571		Date Prepared: 4/22/97		Extraction Method: MeOH Extraction						
Blank		0470571-BLK1								
Acetone	4/23/97			ND	mg/kg dry	2.00				
Benzene	"			ND	"	0.200				
Bromobenzene	"			ND	"	0.200				
Bromochloromethane	"			ND	"	0.200				
Bromodichloromethane	"			ND	"	0.200				
Bromoform	"			ND	"	0.200				
Bromomethane	"			ND	"	0.200				
2-Butanone	"			ND	"	2.00				
n-Butylbenzene	"			ND	"	0.200				
sec-Butylbenzene	"			ND	"	0.200				
tert-Butylbenzene	"			ND	"	0.200				
Carbon disulfide	"			ND	"	0.200				
Carbon tetrachloride	"			ND	"	0.200				
Chlorobenzene	"			ND	"	0.200				
Chloroethane	"			ND	"	0.200				
Chloroform	"			ND	"	0.200				
Chloromethane	"			ND	"	0.200				
2-Chlorotoluene	"			ND	"	0.200				
4-Chlorotoluene	"			ND	"	0.200				
Dibromochloromethane	"			ND	"	0.200				
1,2-Dibromo-3-chloropropane	"			ND	"	1.00				
1,2-Dibromoethane	"			ND	"	0.200				
Dibromomethane	"			ND	"	0.200				
1,2-Dichlorobenzene	"			ND	"	0.200				
1,3-Dichlorobenzene	"			ND	"	0.200				
1,4-Dichlorobenzene	"			ND	"	0.200				
Dichlorodifluoromethane	"			ND	"	0.200				
1,1-Dichloroethane	"			ND	"	0.200				
1,2-Dichloroethane	"			ND	"	0.200				
1,1-Dichloroethene	"			ND	"	0.200				
cis-1,2-Dichloroethene	"			ND	"	0.200				
trans-1,2-Dichloroethene	"			ND	"	0.200				
1,2-Dichloropropane	"			ND	"	0.200				
1,3-Dichloropropane	"			ND	"	0.200				
2,2-Dichloropropane	"			ND	"	0.200				
1,1-Dichloropropene	"			ND	"	0.200				
cis-1,3-Dichloropropene	"			ND	"	0.200				

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Project Manager: Chip Goodhue

Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Volatile Organic Compounds by EPA Method 8260A/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)										
0470571-BLK1										
trans-1,3-Dichloropropene	4/23/97			ND	mg/kg dry	0.200				
Ethylbenzene	"			ND	"	0.200				
Hexachlorobutadiene	"			ND	"	0.200				
2-Hexanone	"			ND	"	2.00				
Isopropylbenzene	"			ND	"	0.200				
p-Isopropyltoluene	"			ND	"	0.200				
Methylene chloride	"			ND	"	1.00				
4-Methyl-2-pentanone	"			ND	"	2.00				
Naphthalene	"			ND	"	0.200				
n-Propylbenzene	"			ND	"	0.200				
Styrene	"			ND	"	0.200				
1,1,1,2-Tetrachloroethane	"			ND	"	0.200				
1,1,2,2-Tetrachloroethane	"			ND	"	0.200				
Tetrachloroethene	"			ND	"	0.200				
Toluene	"			ND	"	0.200				
1,2,3-Trichlorobenzene	"			ND	"	0.200				
1,2,4-Trichlorobenzene	"			ND	"	0.200				
1,1,1-Trichloroethane	"			ND	"	0.200				
1,1,2-Trichloroethane	"			ND	"	0.200				
Trichloroethene	"			ND	"	0.200				
Trichlorofluoromethane	"			ND	"	0.200				
1,2,3-Trichloropropane	"			ND	"	0.200				
1,2,4-Trimethylbenzene	"			ND	"	0.200				
1,3,5-Trimethylbenzene	"			ND	"	0.200				
Vinyl chloride	"			ND	"	0.200				
o-Xylene	"			ND	"	0.200				
m,p-Xylene	"			ND	"	0.200				
Surrogate: 1,2-DCA-d4	"	2.00		1.70	"	70.0-130	85.0			
Surrogate: Toluene-d8	"	2.00		2.04	"	70.0-130	102			
Surrogate: 4-BFB	"	2.00		1.74	"	70.0-130	87.0			
Matrix Spike										
0470571-MS1 B704326-01										
Benzene	4/23/97	1.14	ND	1.12	mg/kg dry	70.0-130	98.2			
Chlorobenzene	"	1.14	ND	0.995	"	70.0-130	87.3			
1,1-Dichloroethene	"	1.14	ND	0.782	"	70.0-130	68.6			
Toluene	"	1.14	ND	1.03	"	70.0-130	90.4			
Trichloroethene	"	1.14	ND	0.930	"	70.0-130	81.6			
Surrogate: 1,2-DCA-d4	"	2.29		1.82	"	70.0-130	79.5			

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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 97100
Project Manager: Chip Goodhue

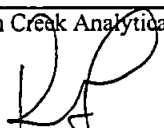
Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Volatile Organic Compounds by EPA Method 8260A/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)		0470571-MS1	B704326-01							
Surrogate: Toluene-d8	4/23/97	2.29		2.13	mg/kg dry	70.0-130	93.0			
Surrogate: 4-BFB	"	2.29		1.82	"	70.0-130	79.5			
Matrix Spike Dup		0470571-MSD1	B704326-01							
Benzene	4/23/97	1.14	ND	1.12	mg/kg dry	70.0-130	98.2	15.0	0	
Chlorobenzene	"	1.14	ND	0.980	"	70.0-130	86.0	15.0	1.50	
1,1-Dichloroethene	"	1.14	ND	0.788	"	70.0-130	69.1	15.0	0.726	3
Toluene	"	1.14	ND	1.02	"	70.0-130	89.5	15.0	1.00	
Trichloroethene	"	1.14	ND	0.923	"	70.0-130	81.0	15.0	0.738	
Surrogate: 1,2-DCA-d4	"	2.29		1.80	"	70.0-130	78.6			
Surrogate: Toluene-d8	"	2.29		2.13	"	70.0-130	93.0			
Surrogate: 4-BFB	"	2.29		1.80	"	70.0-130	78.6			

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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 97100
Project Manager: Chip Goodhue

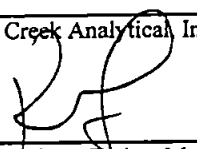
Sampled: 4/14/97
Received: 4/16/97
Reported: 4/28/97 14:38

Notes and Definitions

#	Note
---	------

- | | |
|--------|---|
| 1 | The diesel range organics present are due to hydrocarbons eluting primarily in the heavy oil range. |
| 2 | Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. |
| 3 | The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch. |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| Recov. | Recovery |
| RPD | Relative Percent Difference |

North Creek Analytical, Inc.


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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

CHAIN OF CUSTODY REPORT

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

Work Order # **B704326**

REPORT TO:			INVOICE TO:																																			
ATTENTION: CHIP GOODHUE			ATTENTION: SAME																																			
ADDRESS: 179 MADRAW LN. BAINBRIDGE ISLAND, WA 98110			ADDRESS:																																			
PHONE: (206) 780-7370 FAX: (206) 780-7438			P.O. NUMBER:																																			
PROJECT NAME: CHUCK OLSON CHEVROLET			<div style="text-align: center;"> <p>Analysis Request:</p> <p><i>WTPH-ACID</i> <i>8260 (VOCs)</i> <i>WTPH-Det</i> <i>WTPH-6/BTEX</i></p> <p><i>PERC</i> <i>ON</i> <i>STD</i> <i>CHP4/13</i></p> </div>																																			
PROJECT NUMBER: RB97609 VB 9711																																						
SAMPLED BY: Bob Bogar (Bob Bogar)																																						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>CLIENT SAMPLE IDENTIFICATION</th> <th>SAMPLING DATE/TIME</th> <th>NCA SAMPLE ID (Laboratory Use Only)</th> </tr> <tr> <td>1. IB-1</td> <td>4/14</td> <td>B704326-01</td> </tr> <tr> <td>2. IB-2</td> <td>4/14</td> <td>-02</td> </tr> <tr><td>3.</td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td></tr> <tr><td>6.</td><td></td><td></td></tr> <tr><td>7.</td><td></td><td></td></tr> <tr><td>8.</td><td></td><td></td></tr> <tr><td>9.</td><td></td><td></td></tr> <tr><td>10.</td><td></td><td></td></tr> </table>						CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	1. IB-1	4/14	B704326-01	2. IB-2	4/14	-02	3.			4.			5.			6.			7.			8.			9.			10.		
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10.																																						
			<div style="text-align: center;"> <p>TURNAROUND REQUEST in Business Days *</p> <p>Organic & Inorganic Analyses</p> <p>Standard <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 Same Day</p> <p>Fuels & Hydrocarbon Analyses</p> <p>Standard <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 3-4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 Same Day</p> <p>OTHER Specify:</p> <p>* Turnaround Requests less than standard may incur Rush Charges.</p> </div>																																			
			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>MATRIX (W, S, A, O)</th> <th># OF CONTAINERS</th> <th>COMMENTS</th> </tr> <tr> <td>Soil</td> <td>2</td> <td></td> </tr> <tr> <td>Soil</td> <td>2</td> <td></td> </tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </table>			MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS	Soil	2		Soil	2																									
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Soil	2																																					
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RELINQUISHED BY (Signature): Bob Bogar DATE: 4/15/92			RECEIVED BY (Signature): Colette Weaver DATE: 4.16.92																																			
PRINT NAME: Bob Bogar FIRM: AESI TIME: 3:00 p			PRINT NAME: Colette weaver FIRM: NCA TIME: 1115																																			
RELINQUISHED BY (Signature):			RECEIVED BY (Signature):																																			
DATE:			DATE:																																			
PRINT NAME:			PRINT NAME:																																			
FIRM:			FIRM:																																			
TIME:			TIME:																																			
ADDITIONAL REMARKS:																																						



NORTH CREEK ANALYTICAL

Environmental Laboratory Services

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SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

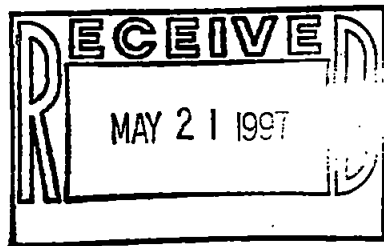
Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 5/20/97 16:44

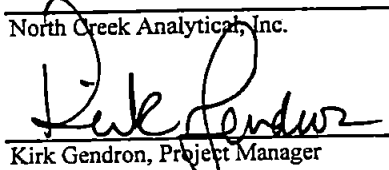
ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
IB-3.1 (8')	B705225-01	Soil	5/13/97
IB-4.1 (7')	B705225-02	Soil	5/13/97
IB-5.1 (8')	B705225-03	Soil	5/13/97
IB-7.1 (8')	B705225-04	Soil	5/13/97
IB-8.1 (7')	B705225-05	Soil	5/13/97
IB-9.1 (7.5')	B705225-06	Soil	5/13/97
IB-9.3 (13.5')	B705225-08	Soil	5/13/97
IB-10.1 (7')	B705225-09	Soil	5/13/97
IB-11.1 (5')	B705225-10	Soil	5/13/97
IB-12.1 (2.5')	B705225-12	Soil	5/13/97



North Creek Analytical, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.*


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Associated Earth Sciences 179 Madrone Lane N. Bainbridge Island, WA 98110	Project: Chuck Olson Chevrolet Project Number: VB 9711 Project Manager: Chip Goodhue	Sampled: 5/13/97 Received: 5/13/97 Reported: 5/20/97 16:44
---	--	--

Hydrocarbon Identification by Washington DOE Method WTPH-HCID North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-3.1 (8') <u>B705225-01</u>								
Gasoline Range Hydrocarbons	0570363	5/14/97	5/15/97		20.0	ND	Soil mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	ND	"	
Heavy Oil Range Hydrocarbons	"	"	"		100	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		119	%	
IB-4.1 (7') <u>B705225-02</u>								
Gasoline Range Hydrocarbons	0570363	5/14/97	5/15/97		20.0	ND	Soil mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	ND	"	
Heavy Oil Range Hydrocarbons	"	"	"		100	DET	"	
Surrogate: 2-FBP	"	"	"	50.0-150		110	%	
IB-5.1 (8') <u>B705225-03</u>								
Gasoline Range Hydrocarbons	0570363	5/14/97	5/15/97		20.0	DET	Soil mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	DET	"	1
Heavy Oil Range Hydrocarbons	"	"	"		100	DET	"	
Surrogate: 2-FBP	"	"	"	50.0-150		105	%	
IB-7.1 (8') <u>B705225-04</u>								
Gasoline Range Hydrocarbons	0570363	5/14/97	5/15/97		20.0	ND	Soil mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	ND	"	
Heavy Oil Range Hydrocarbons	"	"	"		100	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		113	%	
IB-8.1 (7') <u>B705225-05</u>								
Gasoline Range Hydrocarbons	0570363	5/14/97	5/15/97		20.0	ND	Soil mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	DET	"	1
Heavy Oil Range Hydrocarbons	"	"	"		100	DET	"	
Surrogate: 2-FBP	"	"	"	50.0-150		100	%	
IB-9.1 (7.5') <u>B705225-06</u>								
Gasoline Range Hydrocarbons	0570363	5/14/97	5/16/97		20.0	DET	Soil mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	DET	"	1
Heavy Oil Range Hydrocarbons	"	"	"		100	DET	"	
Surrogate: 2-FBP	"	"	"	50.0-150		104	%	
IB-9.3 (13.5') <u>B705225-08</u>								
Gasoline Range Hydrocarbons	0570363	5/14/97	5/16/97		20.0	DET	Soil mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	DET	"	1

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*Refer to end of report for text of notes and definitions.

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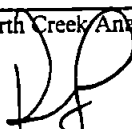
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Hydrocarbon Identification by Washington DOE Method WTPH-HCID North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-9.3 (13.5') (continued)								
				<u>B705225-08</u>			<u>Soil</u>	
Heavy Oil Range Hydrocarbons	0570363	5/14/97	5/16/97		100	DET	mg/kg dry	
Surrogate: 2-FBP	"	"	"	50.0-150		107	%	
IB-10.1 (7')								
				<u>B705225-09</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0570363	5/14/97	5/16/97		20.0	DET	mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	DET	"	1
Heavy Oil Range Hydrocarbons	"	"	"		100	DET	"	
Surrogate: 2-FBP	"	"	"	50.0-150		108	%	
IB-11.1 (5')								
				<u>B705225-10</u>			<u>Soil</u>	
Gasoline Range Hydrocarbons	0570401	5/14/97	5/15/97		20.0	DET	mg/kg dry	
Diesel Range Hydrocarbons	"	"	"		50.0	DET	"	1
Heavy Oil Range Hydrocarbons	"	"	"		100	DET	"	
Surrogate: 2-FBP	"	"	"	50.0-150		101	%	

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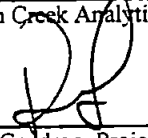
Sampled: 5/13/97
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Reported: 5/20/97 16:44

Volatile Organic Compounds by EPA Method 8260A North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-11.1 (5')				B705225-10			Soil	
Acetone	0570470	5/16/97	5/16/97		2.00	ND	mg/kg dry	
Benzene	"	"	"		0.200	ND	"	
Bromobenzene	"	"	"		0.200	ND	"	
Bromochloromethane	"	"	"		0.200	ND	"	
Bromodichloromethane	"	"	"		0.200	ND	"	
Bromoform	"	"	"		0.200	ND	"	
Bromomethane	"	"	"		0.200	ND	"	
2-Butanone	"	"	"		2.00	ND	"	
n-Butylbenzene	"	"	"		0.200	0.910	"	
sec-Butylbenzene	"	"	"		0.200	0.429	"	
tert-Butylbenzene	"	"	"		0.200	ND	"	
Carbon disulfide	"	"	"		0.200	ND	"	
Carbon tetrachloride	"	"	"		0.200	ND	"	
Chlorobenzene	"	"	"		0.200	ND	"	
Chloroethane	"	"	"		0.200	ND	"	
Chloroform	"	"	"		0.200	ND	"	
Chloromethane	"	"	"		0.200	ND	"	
2-Chlorotoluene	"	"	"		0.200	ND	"	
4-Chlorotoluene	"	"	"		0.200	ND	"	
Dibromochloromethane	"	"	"		0.200	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		1.00	ND	"	
1,2-Dibromoethane	"	"	"		0.200	ND	"	
Dibromomethane	"	"	"		0.200	ND	"	
1,2-Dichlorobenzene	"	"	"		0.200	ND	"	
1,3-Dichlorobenzene	"	"	"		0.200	ND	"	
1,4-Dichlorobenzene	"	"	"		0.200	ND	"	
Dichlorodifluoromethane	"	"	"		0.200	ND	"	
1,1-Dichloroethane	"	"	"		0.200	ND	"	
1,2-Dichloroethane	"	"	"		0.200	ND	"	
1,1-Dichloroethene	"	"	"		0.200	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.200	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.200	ND	"	
1,2-Dichloropropane	"	"	"		0.200	ND	"	
1,3-Dichloropropane	"	"	"		0.200	ND	"	
2,2-Dichloropropane	"	"	"		0.200	ND	"	
1,1-Dichloropropene	"	"	"		0.200	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.200	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.200	ND	"	

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*Refer to end of report for text of notes and definitions.


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Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
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Volatile Organic Compounds by EPA Method 8260A North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-11.1 (5') (continued)		B705225-10			Soil			
Ethylbenzene	0570470	5/16/97	5/16/97		0.200	0.259	mg/kg dry	
Hexachlorobutadiene	"	"	"		0.200	ND	"	
2-Hexanone	"	"	"		2.00	ND	"	
Isopropylbenzene	"	"	"		0.200	0.323	"	
p-Isopropyltoluene	"	"	"		0.200	1.20	"	
Methylene chloride	"	"	"		1.00	ND	"	
4-Methyl-2-pentanone	"	"	"		2.00	ND	"	
Naphthalene	"	"	"		0.200	1.56	"	
n-Propylbenzene	"	"	"		0.200	0.723	"	
Styrene	"	"	"		0.200	ND	"	
1,1,1,2-Tetrachloroethane	"	"	"		0.200	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.200	ND	"	
Tetrachloroethene	"	"	"		0.200	3.19	"	
Toluene	"	"	"		0.200	0.293	"	
1,2,3-Trichlorobenzene	"	"	"		0.200	ND	"	
1,2,4-Trichlorobenzene	"	"	"		0.200	ND	"	
1,1,1-Trichloroethane	"	"	"		0.200	2.74	"	
1,1,2-Trichloroethane	"	"	"		0.200	ND	"	
Trichloroethene	"	"	"		0.200	ND	"	
Trichlorofluoromethane	"	"	"		0.200	ND	"	
1,2,3-Trichloropropane	"	"	"		0.200	ND	"	
1,2,4-Trimethylbenzene	"	"	"		0.200	7.04	"	
1,3,5-Trimethylbenzene	"	"	"		0.200	2.02	"	
Vinyl chloride	"	"	"		0.200	ND	"	
o-Xylene	"	"	"		0.200	1.16	"	
m,p-Xylene	"	"	"		0.200	1.94	"	
Surrogate: 1,2-DCA-d4	"	"	"	70.0-130		94.8	%	
Surrogate: Toluene-d8	"	"	"	70.0-130		98.1	"	
Surrogate: 4-BFB	"	"	"	70.0-130		90.1	"	

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Volatile Organic Compounds by EPA Method 8260A North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-12.1 (2.5')				B705225-12			Soil	
Acetone	0570470	5/16/97	5/16/97		2.00	ND	mg/kg dry	
Benzene	"	"	"		0.200	ND	"	
Bromobenzene	"	"	"		0.200	ND	"	
Bromochloromethane	"	"	"		0.200	ND	"	
Bromodichloromethane	"	"	"		0.200	ND	"	
Bromoform	"	"	"		0.200	ND	"	
Bromomethane	"	"	"		0.200	ND	"	
2-Butanone	"	"	"		2.00	ND	"	
n-Butylbenzene	"	"	"		0.200	ND	"	
sec-Butylbenzene	"	"	"		0.200	ND	"	
tert-Butylbenzene	"	"	"		0.200	ND	"	
Carbon disulfide	"	"	"		0.200	ND	"	
Carbon tetrachloride	"	"	"		0.200	ND	"	
Chlorobenzene	"	"	"		0.200	ND	"	
Chloroethane	"	"	"		0.200	ND	"	
Chloroform	"	"	"		0.200	ND	"	
Chloromethane	"	"	"		0.200	ND	"	
2-Chlorotoluene	"	"	"		0.200	ND	"	
4-Chlorotoluene	"	"	"		0.200	ND	"	
Dibromochloromethane	"	"	"		0.200	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		1.00	ND	"	
1,2-Dibromoethane	"	"	"		0.200	ND	"	
Dibromomethane	"	"	"		0.200	ND	"	
1,2-Dichlorobenzene	"	"	"		0.200	ND	"	
1,3-Dichlorobenzene	"	"	"		0.200	ND	"	
1,4-Dichlorobenzene	"	"	"		0.200	ND	"	
Dichlorodifluoromethane	"	"	"		0.200	ND	"	
1,1-Dichloroethane	"	"	"		0.200	ND	"	
1,2-Dichloroethane	"	"	"		0.200	ND	"	
1,1-Dichloroethene	"	"	"		0.200	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.200	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.200	ND	"	
1,2-Dichloropropane	"	"	"		0.200	ND	"	
1,3-Dichloropropane	"	"	"		0.200	ND	"	
2,2-Dichloropropane	"	"	"		0.200	ND	"	
1,1-Dichloropropene	"	"	"		0.200	ND	"	
cis-1,3-Dichloropropene	"	"	"		0.200	ND	"	
trans-1,3-Dichloropropene	"	"	"		0.200	ND	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



NORTH CREEK ANALYTICAL

Environmental Laboratory Services

BOTHELL ■ (425) 481-9200 ■ FAX 485-2992
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

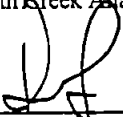
Sampled: 5/13/97
Received: 5/13/97
Reported: 5/20/97 16:44

Volatile Organic Compounds by EPA Method 8260A North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>IB-12.1 (2.5') (continued)</u>				<u>B705225-12</u>			<u>Soil</u>	
Ethylbenzene	0570470	5/16/97	5/16/97		0.200	ND	mg/kg dry	
Hexachlorobutadiene	"	"	"		0.200	ND	"	
2-Hexanone	"	"	"		2.00	ND	"	
Isopropylbenzene	"	"	"		0.200	ND	"	
p-Isopropyltoluene	"	"	"		0.200	ND	"	
Methylene chloride	"	"	"		1.00	ND	"	
4-Methyl-2-pentanone	"	"	"		2.00	ND	"	
Naphthalene	"	"	"		0.200	ND	"	
n-Propylbenzene	"	"	"		0.200	ND	"	
Styrene	"	"	"		0.200	ND	"	
1,1,1,2-Tetrachloroethane	"	"	"		0.200	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.200	ND	"	
Tetrachloroethene	"	"	"		0.200	ND	"	
Toluene	"	"	"		0.200	ND	"	
1,2,3-Trichlorobenzene	"	"	"		0.200	ND	"	
1,2,4-Trichlorobenzene	"	"	"		0.200	ND	"	
1,1,1-Trichloroethane	"	"	"		0.200	ND	"	
1,1,2-Trichloroethane	"	"	"		0.200	ND	"	
Trichloroethene	"	"	"		0.200	ND	"	
Trichlorofluoromethane	"	"	"		0.200	ND	"	
1,2,3-Trichloropropane	"	"	"		0.200	ND	"	
1,2,4-Trimethylbenzene	"	"	"		0.200	ND	"	
1,3,5-Trimethylbenzene	"	"	"		0.200	ND	"	
Vinyl chloride	"	"	"		0.200	ND	"	
o-Xylene	"	"	"		0.200	ND	"	
m,p-Xylene	"	"	"		0.200	ND	"	
Surrogate: 1,2-DCA-d4	"	"	"	70.0-130		89.7	%	
Surrogate: Toluene-d8	"	"	"	70.0-130		84.8	"	
Surrogate: 4-BFB	"	"	"	70.0-130		81.1	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.


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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 5/20/97 16:44

Dry Weight Determination North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
IB-3.1 (8')	B705225-01	Soil	90.1	%
IB-4.1 (7')	B705225-02	Soil	89.3	%
IB-5.1 (8')	B705225-03	Soil	93.3	%
IB-7.1 (8')	B705225-04	Soil	89.9	%
IB-8.1 (7')	B705225-05	Soil	88.5	%
IB-9.1 (7.5')	B705225-06	Soil	88.0	%
IB-9.3 (13.5')	B705225-08	Soil	93.6	%
IB-10.1 (7')	B705225-09	Soil	90.7	%
IB-11.1 (5')	B705225-10	Soil	93.8	%
IB-12.1 (2.5')	B705225-12	Soil	82.3	%

North Creek Analytical, Inc.

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Associated Earth Sciences
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Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 5/20/97 16:44

Hydrocarbon Identification by Washington DOE Method WTPH-HCID/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0570363										
Blank										
Gasoline Range Hydrocarbons	5/15/97			ND	mg/kg dry	20.0				
Diesel Range Hydrocarbons	"			ND	"	50.0				
Heavy Oil Range Hydrocarbons	"			ND	"	100				
Surrogate: 2-FBP	"	DET		DET	"	50.0-150	109			
Batch: 0570401										
Blank										
Gasoline Range Hydrocarbons	5/15/97			ND	mg/kg dry	20.0				
Diesel Range Hydrocarbons	"			ND	"	50.0				
Heavy Oil Range Hydrocarbons	"			ND	"	100				
Surrogate: 2-FBP	"	DET		DET	"	50.0-150	127			

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

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179 Madrone Lane N.
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Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 5/20/97 16:44

Volatile Organic Compounds by EPA Method 8260A/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0570470		Date Prepared: 5/16/97		Extraction Method: MeOH Extraction						
Blank		0570470-BLK1								
Acetone	5/16/97			ND	mg/kg dry	2.00				
Benzene	"			ND	"	0.200				
Bromobenzene	"			ND	"	0.200				
Bromochloromethane	"			ND	"	0.200				
Bromodichloromethane	"			ND	"	0.200				
Bromoform	"			ND	"	0.200				
Bromomethane	"			ND	"	0.200				
2-Butanone	"			ND	"	2.00				
n-Butylbenzene	"			ND	"	0.200				
sec-Butylbenzene	"			ND	"	0.200				
tert-Butylbenzene	"			ND	"	0.200				
Carbon disulfide	"			ND	"	0.200				
Carbon tetrachloride	"			ND	"	0.200				
Chlorobenzene	"			ND	"	0.200				
Chloroethane	"			ND	"	0.200				
Chloroform	"			ND	"	0.200				
Chloromethane	"			ND	"	0.200				
2-Chlorotoluene	"			ND	"	0.200				
4-Chlorotoluene	"			ND	"	0.200				
Dibromochloromethane	"			ND	"	0.200				
1,2-Dibromo-3-chloropropane	"			ND	"	1.00				
1,2-Dibromoethane	"			ND	"	0.200				
Dibromomethane	"			ND	"	0.200				
1,2-Dichlorobenzene	"			ND	"	0.200				
1,3-Dichlorobenzene	"			ND	"	0.200				
1,4-Dichlorobenzene	"			ND	"	0.200				
Dichlorodifluoromethane	"			ND	"	0.200				
1,1-Dichloroethane	"			ND	"	0.200				
1,2-Dichloroethane	"			ND	"	0.200				
1,1-Dichloroethene	"			ND	"	0.200				
cis-1,2-Dichloroethene	"			ND	"	0.200				
trans-1,2-Dichloroethene	"			ND	"	0.200				
1,2-Dichloropropane	"			ND	"	0.200				
1,3-Dichloropropane	"			ND	"	0.200				
2,2-Dichloropropane	"			ND	"	0.200				
1,1-Dichloropropene	"			ND	"	0.200				
cis-1,3-Dichloropropene	"			ND	"	0.200				

North Creek Analytical, Inc.

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Associated Earth Sciences
179 Madrone Lane N.
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Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 5/20/97 16:44

Volatile Organic Compounds by EPA Method 8260A/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)										
	0570470-BLK1									
trans-1,3-Dichloropropene	5/16/97			ND	mg/kg dry	0.200				
Ethylbenzene	"			ND	"	0.200				
Hexachlorobutadiene	"			ND	"	0.200				
2-Hexanone	"			ND	"	2.00				
Isopropylbenzene	"			ND	"	0.200				
p-Isopropyltoluene	"			ND	"	0.200				
Methylene chloride	"			ND	"	1.00				
4-Methyl-2-pentanone	"			ND	"	2.00				
Naphthalene	"			ND	"	0.200				
n-Propylbenzene	"			ND	"	0.200				
Styrene	"			ND	"	0.200				
1,1,1,2-Tetrachloroethane	"			ND	"	0.200				
1,1,2,2-Tetrachloroethane	"			ND	"	0.200				
Tetrachloroethene	"			ND	"	0.200				
Toluene	"			ND	"	0.200				
1,2,3-Trichlorobenzene	"			ND	"	0.200				
1,2,4-Trichlorobenzene	"			ND	"	0.200				
1,1,1-Trichloroethane	"			ND	"	0.200				
1,1,2-Trichloroethane	"			ND	"	0.200				
Trichloroethene	"			ND	"	0.200				
Trichlorofluoromethane	"			ND	"	0.200				
1,2,3-Trichloropropane	"			ND	"	0.200				
1,2,4-Trimethylbenzene	"			ND	"	0.200				
1,3,5-Trimethylbenzene	"			ND	"	0.200				
Vinyl chloride	"			ND	"	0.200				
o-Xylene	"			ND	"	0.200				
m,p-Xylene	"			ND	"	0.200				
Surrogate: 1,2-DCA-d4	"	2.00		2.14	"	70.0-130	107			
Surrogate: Toluene-d8	"	2.00		1.98	"	70.0-130	99.0			
Surrogate: 4-BFB	"	2.00		1.90	"	70.0-130	95.0			
Matrix Spike										
	0570470-MS1 B705250-11									
Benzene	5/19/97	1.20	ND	1.06	mg/kg dry	70.0-130	88.3			
Chlorobenzene	"	1.20	ND	1.09	"	70.0-130	90.8			
1,1-Dichloroethene	"	1.20	ND	0.845	"	70.0-130	70.4			
Toluene	"	1.20	ND	1.09	"	70.0-130	90.8			
Trichloroethene	"	1.20	ND	1.10	"	70.0-130	91.7			
Surrogate: 1,2-DCA-d4	"	2.39		2.26	"	70.0-130	94.6			

North Creek Analytical, Inc.

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NORTH CREEK ANALYTICAL

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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue


Sampled: 5/13/97
Received: 5/13/97
Reported: 5/20/97 16:44

Volatile Organic Compounds by EPA Method 8260A/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)		0570470-MS1	B705250-11							
Surrogate: Toluene-d8	5/19/97	2.39		2.32	mg/kg dry	70.0-130	97.1			
Surrogate: 4-BFB	"	2.39		2.16	"	70.0-130	90.4			
Matrix Spike Dup		0570470-MSD1	B705250-11							
Benzene	5/19/97	1.20	ND	1.08	mg/kg dry	70.0-130	90.0	15.0	1.91	
Chlorobenzene	"	1.20	ND	1.09	"	70.0-130	90.8	15.0	0	
1,1-Dichloroethene	"	1.20	ND	0.860	"	70.0-130	71.7	15.0	1.83	
Toluene	"	1.20	ND	1.10	"	70.0-130	91.7	15.0	0.986	
Trichloroethene	"	1.20	ND	1.11	"	70.0-130	92.5	15.0	0.869	
Surrogate: 1,2-DCA-d4	"	2.39		2.18	"	70.0-130	91.2			
Surrogate: Toluene-d8	"	2.39		2.29	"	70.0-130	95.8			
Surrogate: 4-BFB	"	2.39		2.14	"	70.0-130	89.5			

North Creek Analytical, Inc.

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NORTH CREEK ANALYTICAL

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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 5/20/97 16:44

Notes and Definitions

#	Note
1	The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.


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CHAIN OF CUSTODY REPORT

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

Work Order #

B705225

REPORT TO:			INVOICE TO:		TURNAROUND REQUEST In Business Days *										
ATTENTION: CHAD GOODHUE			ATTENTION: SAANA		Organic & Inorganic Analyses										
ADDRESS: 179 MADRONA CANYON NORTH			ADDRESS:		Standard <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> Same Day										
PHONE: (206) 780-9370 FAX:			P.O. NUMBER:		Fuels & Hydrocarbon Analyses										
PROJECT NAME: CHUCK OLSON CHAN.			NCA QUOTE #:		Standard <input type="checkbox"/> 5 <input type="checkbox"/> 3-4 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> Same Day										
PROJECT NUMBER: VB 9711			Analysis Request:		OTHER Specify:										
SAMPLED BY: Bob Bogar			Analysis Request:		* Turnaround Requests less than standard may incur Rush Charges										
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)											MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1. IB-3.1 (8')	5/13	B705225-01	✓												
2. IB-4.1 (7')		02	✓												
3. IB-5.1 (8')		03	✓												
4. IB-7.1 (8')		04	✓												
5. IB-8.1 (7')		05	✓												
6. IB-9.1 (7 1/2')		06	✓												
7. IB-9.2 (11 1/2')		07									✓				
8. IB-9.3 (13 1/2')		08	✓												
9. IB-10.1 (7')		09	✓												
10. IB-11.1 (5')		0	✓												

RELINQUISHED BY (Signature): Bob Bogar			DATE: 5/13	RECEIVED BY (Signature): Lisa Hurley			DATE: 5-13-9		
PRINT NAME: Bob Bogar			FIRM: AEST	TIME: 3:57	PRINT NAME: Lisa Hurley			FIRM: NCA	TIME: 5:57
RELINQUISHED BY (Signature):			DATE:	RECEIVED BY (Signature):			DATE:		
PRINT NAME:			FIRM:	TIME:	PRINT NAME:			FIRM:	TIME:

ADDITIONAL REMARKS:



CHAIN OF CUSTODY REPORT

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481-9200 FAX 485-2992
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

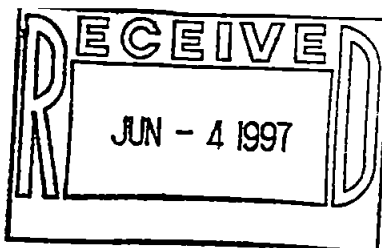
Work Order #

6705225

REPORT TO:			INVOICE TO:			TURNAROUND REQUEST in Business Days *		
ATTENTION: <u>CHIP GOODHUE</u>			ATTENTION:			Organic & Inorganic Analyses		
ADDRESS: <u>179 MADRONA LANE NORTH</u>			ADDRESS:			<div>10 7 5 4 3 2 1 Same Day</div> <div>Standard</div>		
PHONE: <u>(206) 785-7370</u> FAX:			P.O. NUMBER:			Fuels & Hydrocarbon Analyses		
PROJECT NAME: <u>Chuck Olson Chev.</u>			NCA QUOTE #:			<div>5 3-4 2 1 Same Day</div> <div>Standard</div>		
PROJECT NUMBER: <u>UB-7711</u>			Analysis Request: <u>8260 VOCs</u> <u>17020</u>			OTHER Specify:		
SAMPLED BY: <u>Bob Bagar</u>						* Turnaround Requests less than standard may incur Rush Charges.		
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS			
1. <u>IB-11.2 (8')</u>	<u>5/13</u>	<u>6705225-11</u>						
2. <u>IB-12.1 (2 1/2')</u>	<u>"</u>	<u>"</u>						
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
RELINQUISHED BY (Signature): <u>Bob Bagar</u>			DATE: <u>5/13</u>			RECEIVED BY (Signature): <u>Lisa Hurley</u>		
PRINT NAME: <u>Bob Bagar</u>			FIRM: <u>ACSI</u>			DATE: <u>5/13/99</u>		
TIME: <u>3:57</u>			PRINT NAME: <u>Lisa Hurley</u>			FIRM: <u>NCA</u>		
TIME: <u>15:55</u>			PRINT NAME:			FIRM:		
RELINQUISHED BY (Signature):			DATE:			RECEIVED BY (Signature):		
DATE:			PRINT NAME:			FIRM:		
TIME:			PRINT NAME:			FIRM:		
TIME:			PRINT NAME:			FIRM:		
ADDITIONAL REMARKS:						PAGE OF		



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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

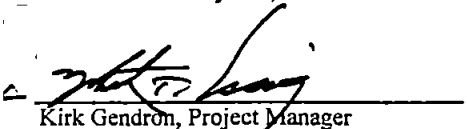
Sampled: 5/13/97
Received: 5/13/97
Reported: 6/3/97 10:37

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
IB-4.1 (7')	B705225-02	Soil	5/13/97
IB-5.1 (8')	B705225-03	Soil	5/13/97
IB-8.1 (7')	B705225-05	Soil	5/13/97
IB-9.1 (7.5')	B705225-06	Soil	5/13/97
IB-9.3 (13.5')	B705225-08	Soil	5/13/97
IB-10.1 (7')	B705225-09	Soil	5/13/97
IB-11.1 (5')	B705225-10	Soil	5/13/97

North Creek Analytical, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.*


Kirk Gendron, Project Manager

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NORTH CREEK ANALYTICAL

Environmental Laboratory Services

BOTHELL ■ (425) 481-9200 ■ FAX 485-2992
SPOKANE ■ (509) 924-9200 ■ FAX 924-9290
PORTLAND ■ (503) 643-9200 ■ FAX 644-2202

Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 6/3/97 10:37

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
IB-5.1 (8')								
				B705225-03			Soil	
Gasoline Range Hydrocarbons	0570678	5/27/97	5/27/97		5.00	30.6	mg/kg dry	
Benzene	"	"	"		0.0500	ND	"	
Toluene	"	"	"		0.0500	ND	"	
Ethylbenzene	"	"	"		0.0500	ND	"	
Xylenes (total)	"	"	"		0.100	0.113	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		81.8	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		93.0	"	
IB-10.1 (7')								
				B705225-09			Soil	
Gasoline Range Hydrocarbons	0570678	5/27/97	5/27/97		50.0	419	mg/kg dry	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	0.582	"	
Ethylbenzene	"	"	"		0.500	1.03	"	
Xylenes (total)	"	"	"		1.00	10.5	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		89.6	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		94.3	"	
IB-11.1 (5')								
				B705225-10			Soil	
Gasoline Range Hydrocarbons	0570678	5/27/97	5/27/97		50.0	567	mg/kg dry	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	0.618	"	
Xylenes (total)	"	"	"		1.00	7.00	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		NR	%	1
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		100	"	



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Project: Chuck Olson Chevrolet
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Project Manager: Chip Goodhue


Sampled: 5/13/97
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Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended) North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>IB-4.1 (7')</u>				<u>B705225-02</u>			<u>Soil</u>	
Diesel Range Hydrocarbons	0570686	5/27/97	6/2/97		10.0	116	mg/kg dry	2
Heavy Oil Range Hydrocarbons	"	"	"		25.0	253	"	
Surrogate: 2-FBP	"	"	"	50.0-150		94.7	%	
<u>IB-5.1 (8')</u>				<u>B705225-03</u>			<u>Soil</u>	
Diesel Range Hydrocarbons	0570686	5/27/97	6/2/97		410	18300	mg/kg dry	2
Heavy Oil Range Hydrocarbons	"	"	"		1030	52400	"	
Surrogate: 2-FBP	"	"	"	50.0-150		110	%	
<u>IB-8.1 (7')</u>				<u>B705225-05</u>			<u>Soil</u>	
Diesel Range Hydrocarbons	0570686	5/27/97	6/2/97		210	3260	mg/kg dry	
Heavy Oil Range Hydrocarbons	"	"	"		525	5820	"	
Surrogate: 2-FBP	"	"	"	50.0-150		90.9	%	
<u>IB-9.1 (7.5')</u>				<u>B705225-06</u>			<u>Soil</u>	
Diesel Range Hydrocarbons	0570686	5/27/97	6/2/97		1010	13800	mg/kg dry	2
Heavy Oil Range Hydrocarbons	"	"	"		2530	34300	"	
Surrogate: 2-FBP	"	"	"	50.0-150		87.2	%	
<u>IB-9.3 (13.5')</u>				<u>B705225-08</u>			<u>Soil</u>	
Diesel Range Hydrocarbons	0570686	5/27/97	6/2/97		410	5150	mg/kg dry	2
Heavy Oil Range Hydrocarbons	"	"	"		1030	20900	"	
Surrogate: 2-FBP	"	"	"	50.0-150		97.6	%	
<u>IB-10.1 (7')</u>				<u>B705225-09</u>			<u>Soil</u>	<u>3</u>
Diesel Range Hydrocarbons	0570686	5/27/97	6/2/97		1010	16900	mg/kg dry	2
Heavy Oil Range Hydrocarbons	"	"	"		2530	44800	"	
<u>IB-11.1 (5')</u>				<u>B705225-10</u>			<u>Soil</u>	
Diesel Range Hydrocarbons	0570686	5/27/97	6/2/97		1010	9080	mg/kg dry	2
Heavy Oil Range Hydrocarbons	"	"	"		2530	20400	"	
Surrogate: 2-FBP	"	"	"	50.0-150		123	%	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.


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Associated Earth Sciences
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Bainbridge Island, WA 98110


Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 6/3/97 10:37

Dry Weight Determination North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
IB-4.1 (7")	B705225-02	Soil	89.3	%
IB-5.1 (8")	B705225-03	Soil	93.3	%
IB-8.1 (7")	B705225-05	Soil	88.5	%
IB-9.1 (7.5")	B705225-06	Soil	88.0	%
IB-9.3 (13.5")	B705225-08	Soil	93.6	%
IB-10.1 (7")	B705225-09	Soil	90.7	%
IB-11.1 (5")	B705225-10	Soil	93.8	%

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Associated Earth Sciences
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Bainbridge Island, WA 98110

Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 6/3/97 10:37

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0570678										
Blank										
Date Prepared: 5/27/97										
0570678-BLK1										
Extraction Method: EPA 5030										
Gasoline Range Hydrocarbons	5/27/97			ND	mg/kg dry	5.00				
Benzene	"			ND	"	0.0500				
Toluene	"			ND	"	0.0500				
Ethylbenzene	"			ND	"	0.0500				
Xylenes (total)	"			ND	"	0.100				
Surrogate: 4-BFB (FID)	"	4.00		2.67	"	50.0-150	66.8			
Surrogate: 4-BFB (PID)	"	4.00		3.18	"	50.0-150	79.5			
LCS										
0570678-BS1										
Gasoline Range Hydrocarbons	5/27/97	25.0		20.1	mg/kg dry	75.0-125	80.4			
Surrogate: 4-BFB (FID)	"	4.00		3.62	"	50.0-150	90.5			
Duplicate										
0570678-DUP1 B705458-01										
Gasoline Range Hydrocarbons	5/27/97		ND	ND	mg/kg dry			50.0		
Surrogate: 4-BFB (FID)	"	5.53		3.66	"	50.0-150	66.2			
Matrix Spike										
0570678-MS1 B705412-01										
Benzene	5/27/97	0.538	ND	0.533	mg/kg dry	60.0-140	99.1			
Toluene	"	0.538	ND	0.507	"	60.0-140	94.2			
Ethylbenzene	"	0.538	ND	0.497	"	60.0-140	92.4			
Xylenes (total)	"	1.61	ND	1.46	"	60.0-140	90.7			
Surrogate: 4-BFB (PID)	"	4.31		4.29	"	50.0-150	99.5			
Matrix Spike Dup										
0570678-MSD1 B705412-01										
Benzene	5/27/97	0.538	ND	0.538	mg/kg dry	60.0-140	100	20.0	0.904	
Toluene	"	0.538	ND	0.517	"	60.0-140	96.1	20.0	2.00	
Ethylbenzene	"	0.538	ND	0.505	"	60.0-140	93.9	20.0	1.61	
Xylenes (total)	"	1.61	ND	1.47	"	60.0-140	91.3	20.0	0.659	
Surrogate: 4-BFB (PID)	"	4.31		4.28	"	50.0-150	99.3			

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Project Manager: Chip Goodhue

Sampled: 5/13/97
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Reported: 6/3/97 10:37

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended)/Quality Control North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0570686										
Blank										
Date Prepared: 5/27/97										
0570686-BLK1										
Extraction Method: EPA 3550										
Diesel Range Hydrocarbons	6/2/97			ND	mg/kg dry	10.0				
Heavy Oil Range Hydrocarbons	"			ND	"	25.0				
Surrogate: 2-FBP	"	11.7		9.68	"	50.0-150	82.7			
LCS										
0570686-BS1										
Diesel Range Hydrocarbons	6/2/97	68.0		41.3	mg/kg dry	59.0-135	60.7			
Surrogate: 2-FBP	"	11.7		6.49	"	50.0-150	55.5			
Duplicate										
0570686-DUP1 B705225-10										
Diesel Range Hydrocarbons	6/2/97		9080	6860	mg/kg dry			50.0	27.9	
Surrogate: 2-FBP	"	12.4		14.8	"	50.0-150	119			

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Associated Earth Sciences
179 Madrone Lane N.
Bainbridge Island, WA 98110

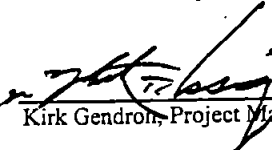
Project: Chuck Olson Chevrolet
Project Number: VB 9711
Project Manager: Chip Goodhue

Sampled: 5/13/97
Received: 5/13/97
Reported: 6/3/97 10:37

Notes and Definitions

#	Note
1	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
2	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
3	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

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CHAIN OF CUSTODY REPORT

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Work Order #

B705225

REPORT TO:			INVOICE TO:		
ATTENTION: CHAD GOODHUE			ATTENTION: <i>Seamus</i>		
ADDRESS: 177 MADRONA CANYON NORTH			ADDRESS:		
PHONE: (206) 780-5370 FAX:			P.O. NUMBER:		
PROJECT NAME: CHUCK OLSON (H.W.)			Analysis Request:		
PROJECT NUMBER: NB 9711			Request:		
SAMPLED BY: <i>Bob Beyer</i>			Request:		
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	Request:		
1. IB-3.1 (8')	5/13	B705225-01	Request:		
2. IB-4.1 (7')	}	02	Request:		
3. IB-5.1 (8')		03	Request:		
4. IB-7.1 (8')		04	Request:		
5. IB-8.1 (7')		05	Request:		
6. IB-9.1 (7 1/2')		06	Request:		
7. IB-9.2 (11 1/2')		07	Request:		
8. IB-9.3 (13 1/2')		08	Request:		
9. IB-10.1 (7')		09	Request:		
10. IB-11.1 (5')		10	Request:		

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses

<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 7	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	Same Day
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Fuels & Hydrocarbon Analyses

<input type="checkbox"/> 5	<input type="checkbox"/> 3-4	<input type="checkbox"/> 2	<input type="checkbox"/> 1	Same Day
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OTHER

Specify

* Turnaround Requests less than standard may incur Rush Charges

MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
---------------------	-----------------	----------

RELINQUISHED BY (Signature): <i>Bob Beyer</i>	DATE: 5/13
PRINT NAME: Bob Beyer	FIRM: ACSI
RELINQUISHED BY (Signature):	DATE:
PRINT NAME:	FIRM:
ADDITIONAL REMARKS:	

RECEIVED BY (Signature): <i>Lisa Hurley</i>	DATE: 5-13-97
PRINT NAME: Lisa Hurley	FIRM: NCA
RECEIVED BY (Signature):	DATE:
PRINT NAME:	FIRM: