



1200-112th Avenue N.E. Suite C-146 Bellevue, Washington 98004-3769 425/450-7726 FAX: 425/450-8837

October 15, 2001 Project CW97-348-4U01

Mr. Brett Hunter Chevron Products Company 6001 Bollinger Canyon Rd Building V, Room 1144 San Ramon, CA 94583-0904

Re: Sub-surface Environmental Investigation Former Chevron Service Station 9-7348 502 North Wenatchee Ave. Wenatchee, Washington

UST# 5233 F5# 15685336

Dear Mr. Hunter:

This letter presents the results of an environmental investigation conducted by Delta Environmental Consultants, Inc. (Delta) at former Chevron Service Station 9-7348, located at the address referenced above (Figure 1). The purpose of this investigation was to assess and document the soil quality with respect to petroleum hydrocarbons at the site.

The following scope of work was performed between April 5, 2001 and October 10, 2001 and consisted of the following tasks:

- Create the Site Health and Safety Plan.
- Drill two exploratory soil borings (B-6 and B-7).
- Collect soil samples from selected intervals in the soil borings.
- Field screen soil samples using a photo-ionization detector (PID).
- Submit soil samples and appropriate documentation to a Chevron approved laboratory for analysis.
- Dispose of soil cutting at a state approved soil disposal facility in accordance with current environmental regulatory laws.

Chevron 9-7348 Wenatchee, WA October 15, 2001 Page 2

#### SITE DESCRIPTION

The former Chevron Service Station is currently divided into two separate parcels and consists of a small office complex in the southern half and a self serve car wash in the northern half. The former facility is located at 502 North Wenatchee Ave., in Wenatchee, Washington. The area surrounding the site consists of retail buildings. Three gasoline underground storage tanks (USTs) were located in a common excavation on the north side of the site, east of the current car wash stalls. The service station building was located in the center of the site in the current footprint of both the office complex and the car wash stalls. The fuel dispensers were located to the east of the station building in the parking area of the car wash.

#### SOIL BORING INSTALLATION AND SAMPLING

Two exploratory soil borings (B-6 and B-7) were installed by Cascade Drilling, Inc. (Cascade) of Woodinville, Washington on April 5, 2001. The borings were located along the northwest side of the car wash property just off of North Wenatchee Avenue. The borings were drilled to total depths between 20.3 and 25.4 feet below grade (bg). The soil borings were drilled using a hollow-stem auger drill rig, and logged by a Delta environmental engineer using the Unified Soil Classification System. Soil samples were collected in 5-foot intervals to the total depths explored in the borings. Soil samples for chemical analysis were retained in laboratory-supplied glass jars with Teflon<sup>®</sup> lined lids. The soil samples were placed on ice for transport and submitted to North Creek Analytical, Inc. (NCA) in Bothell, Washington for chemical analyses. Sample preservation techniques are described in Attachment A.

Soil samples were field screened for the presence of hydrocarbons using a Perkin Elmer Photovac Model 2020 photo-ionization detector (PID) with a 10.0 electron volt (eV) lamp. Field screening methodology is described in Attachment A. PID results for the soil samples collected were all non-detect, i.e. 0 parts per million (ppm). The results of this field screening are also recorded on the soil boring logs included in Attachment B. It should be noted that the PID measurements are considered semi-quantitative data since the instrument detects all organic compounds with ionization potentials less than 10 eV and can be effected by both temperature and humidity.

#### ANALYTICAL PARAMETERS

Soil and groundwater samples were analyzed for the following parameters:

PARAMETER	METHOD
Total Petroleum Hydrocarbons as gasoline	Northwest Method NWTPH-Gx
Total Petroleum Hydrocarbons as diesel and oil Benzene, toluene, ethylbenzene, and xylenes (BTEX compounds)	Northwest Method NWTPH-Dx w/silica gel clean-up EPA Method 8021B
Total lead	EPA 6000/7000 Series Methods
The soil samples were analyzed by Nort	h Creek Analytical, Inc., of Bothell,

The soil samples were analyzed by North Creek Analytical, Inc., of Bothell, Washington.

#### SOIL ANALYTICAL RESULTS

Concentration of TPH-gasoline, TPH-diesel, TPH-oil and BTEX compounds were not detected above laboratory reporting limits in the soil samples submitted for analysis from borings B-6 and B-7. Soil sample B-7-20 contained a total lead concentration of 4.33 mg/kg. Soil sample analytical results are presented in Table 1. Laboratory methods, analytical reports, and chain-of-custody documentation are contained in Attachment C.

#### SUBSURFACE CONDITIONS

Soils encountered in the investigation ranged from medium dense to very dense silty sand. PID measurements in the soil samples screened were non-detect.

#### FINDINGS AND CONCLUSIONS

Concentration of TPH-gasoline, TPH-diesel, TPH-oil, and BTEX compounds were not detected above laboratory reporting limits in soil samples from borings B-6 and B-7. Detected concentrations of lead did not exceed the Washington State Department of Ecology Model Toxics Control Act (MTCA) Method A cleanup level.

The drill cuttings were drummed on site. Laboratory analytical results indicated no petroleum based byproducts were in the soil. Subsequently, on October 10, 2001 the 1.10 tones of soil was transported off site to TPS Technologies, of Tacoma Washington for disposal.

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Delta appreciates this opportunity to be of continuing service. If you have any questions regarding the contents of this report, please call.

Sincerely,

Delta Environmental Consultants, Inc.

Shawn Madison

**Environmental Engineer** 

Matthew Miller Project Manager

Attachments: Table 1 - Soil Analytical Results

Figure 1 - Site Map

Attachment A - Investigative Procedures

Attachment B - Boring Logs/Field Data Sheets

Attachment C - Laboratory Analytical Methods and Reports

Chain-of-Custody Documentation

cc: Washington State Department of Ecology, Central Region

Property Owner - E. Gus Noyd

NORTH WENATCHEE AVENUE

#### FIFTH STREET

LEGEND:

**⊕** MW-1

MONITORING WELL LOCATION AND DESIGNATION

MW-3

ABANDONED MONITORING WELL LOCATION AND DESIGNATION

● B-6

SOIL BORING LOCATION AND DESIGNATION

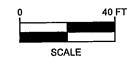


FIGURE 1

SITE MAP

FORMER CHEVRON SERVICE STATION NO. 9-7348

502 NORTH WENATCHEE AVENUE

WENATCHEE, WA

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	CW97-348	M.L. 6/27/01
	FILE NO.	PREPARED BY
	9-7348 Site	S.M.
	REVISION NO.	REVIEWED BY



TABLE 1 SOIL ANALYTICAL RESULTS

Chevron Service Station 9-7348 502 North Wenatchee Avenue Wenatchee, WA

•	Date	TPH-Gasoline (mg/kg)	TPH-Diesel (mg/kg)	TPH-Oil (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total Lead (mg/kg)
B-6-5	04/05/01	QN	A A	QN	QN	ND	ND	R	NA
B-6-20	04/05/01	N Q	N N	QZ	QX	QN QN	QN QN	Q.	NA
B-7-5	04/05/01	Q.	Ð	QN	QX	QN QN	<del>N</del>	Q.	NA
B-7-20	04/05/01	N Q	N ON	<del>Q</del>	N Q	ND	ND	N ON	4.33
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Laboratory Reporting Limits:	g Limits:	5.00	10.00	25.00	0.0500	0.0500	0.0500	0.100	0.333
Concentrations in milligrams per kilograms (mg/kg)  ND = Not detected at the laboratory reporting limits  NA = Not Analyzed  Boring locations are shown on Figure 1  Certified Analytical Results are attached  TPH as Gasoline - Analysis by Northwest Method NWTPH-Gx  TPH as Diesel and oil - Analysis by Northwest Method NWTPH-Dx (extended) with Acid/Silica Gel Clean-up  BTEX Compounds - Analysis by EPA Method 8021B  Total Lead - Analysis by EPA 6000/7000 Series Methods	igrams per kill the laboratory hown on Figur esults are attac alysis by North - Analysis by Analysis by EP by EPA 6000/	ograms (mg/kg) reporting limits e 1 hed twest Method NW Northwest Method A Method 8021B 7000 Series Metho	TPH-Gx I NWTPH-Dx (e.	xtended) with A	λcid/Silica Gel	Clean-up			·

# ATTACHMENT A INVESTIGATIVE PROCEDURES

#### ATTACHMENT A

#### **Exploratory Boring Installation**

The two soil borings were drilled on April 5, 2001 by Cascade Drilling Inc., of Woodinville, Washington. The borings were drilled using eight-inch diameter hollow-stem auger drilling equipment. The borings were logged by a Delta environmental engineer using the Unified Soil Classification System and standard geologic techniques. Boring logs are presented in Attachment B. Soil samples for logging and chemical analysis were collected at five-foot depth intervals by advancing a 2-inch inside diameter split-spoon sampler into undisturbed soil beyond the tip of the auger. The sampler was driven a maximum of 18 inches using a 140-pound hammer with a 30-inch drop. Soil samples for chemical analysis were retained in laboratory-supplied glass jars with Teflon® lined lids. The samples were placed on ice for transport to the laboratory accompanied by chain-of-custody documentation presented in Attachment C. The split-spoon sampler was cleaned by washing in a detergent solution followed by a clean water rinse and distilled water rinse. All drilling equipment was steam-cleaned between each boring location.

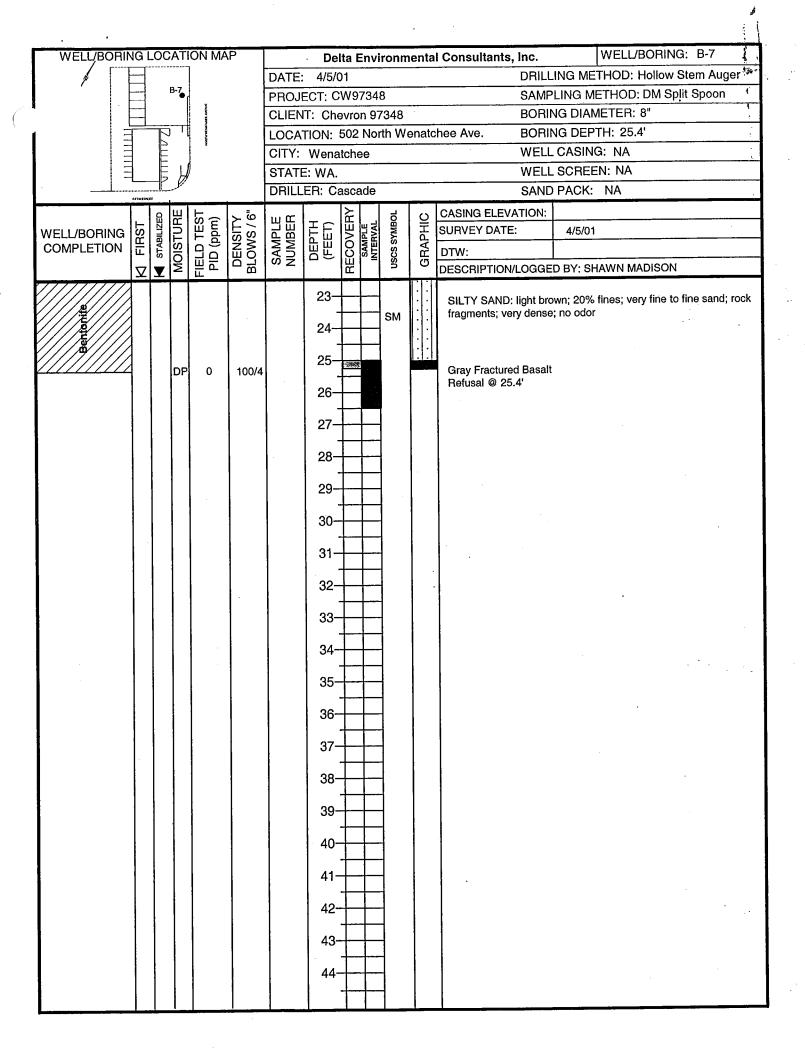
### Organic Vapor Screening

Soil samples were screened in the field for ionizable organic compounds using a Perkin Elmer Photovac Model 2020 photo-ionization detector with a 10 eV light source. The test procedure involved collecting a discrete soil sample from the split spoon, and placing it in a resealable bag. The bag was allowed to warm to ambient temperature for approximately twenty minutes, then the bag was pierced and the head-space within the bag was tested for total organic vapor, measured in parts per million, (ppm; volume/volume). The detection limit of the instrument ranges from 0.1 ppm to 2,000 ppm. It should be noted that the PID measurements are considered semi-quantitative data since the instrument detects all organic compounds with ionization potentials less than 10 electron volts (eV).

# ATTACHMENT B BORING LOGS FIELD DATA SHEETS

WELL/BORING LOCATION MAP  Delta Environmental Consultants, Inc.  DATE: 4/5/01  DRILLING METHOD: Hollow Stem.  PROJECT: CW97348  CLIENT: Chevron 97348  BORING DIAMETER: 8"  LOCATION: 502 North Wenatchee Ave.  BORING DEPTH: 20.3'  CITY: Wenatchee  WELL CASING: NA  STATE: WA.  DRILLER: Cascade  SAND PACK: NA  WELL/BORING: B-  DATE: 4/5/01  PROJECT: CW97348  BORING DEPTH: 20.3'  CITY: Wenatchee  WELL CASING: NA  WELL/BORING: B-  DATE: 4/5/01  PROJECT: CW97348  CLIENT: Chevron 97348  BORING DEPTH: 20.3'  CITY: Wenatchee  WELL CASING: NA  WELL/BORING: B-  DATE: 4/5/01  DTW:  DESCRIPTION/LOGGED BY: SHAWN MADISON	Auger
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CHEYRON STATION \$9-7348  502 N. WENATCHEE AVENUE  PAX#: AVG Levels  Evels Pax#: AVG Levels  Evels Person to Contact: TPH Levels  FAX#: AVG Levels  TPS Technologies Inc.  2800 - 104th Street Court South Person to Contact:  Renee Avelino  FAX#: Facility Permit Numbers  (253)584-8309  Transporter Name and Malling Address: ENVIROTECH SYSTEMS  3601 - 121st ST. SW  Description of Soil Moisture Content Contaminated by: Approx. Qty: Description of Delivery  Don Hunt  LYNNWOOD, WA 98037  USA  Classify Street  Contact: Renee Avelino  Transporter's DOT No.:  DON HUNT  FAX#: AVG Levels  Renee Avelino  Rica Nelson  FAX#: Facility Permit Numbers  (253)584-8309  Transporter's Phone #: Transporter's US EPA ID No.:  (800) 922-9395  Transporter's DOT No.:  DON HUNT  FAX#: AVG Count Nelson  FAX#: Facility Permit Numbers  (800) 922-9395  Transporter's DOT No.:  DON HUNT  FAX#: Fax#: Transporter's DOT No.:  DON HUNT  FAX#: Transporter's DOT No.:  Transporter's DOT No.:  Tr	(i)					Site Ph	one#:					. Or see
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TPS Technologies Inc.  2800 - 104th Street Court South  Renee Avelino  Rica Nelson  FAX#:  (253)584-8309  Transporter Name and Malling Address:  (800) 922-9395  Transporter's Phone #:  (800) 922-9395  Transporter's DOT No.:  DON HUNT  LYNNWOOD, WA 98037  USA  (425) 513-5839  Description of Soil Moisture Content Contaminated by: Approx. Oty:  Description of Soil Moisture Content Contaminated by: Approx. Oty:  Sand Criganic O 10-20% O Diesel O Clay O Other O 10-20% O Other O Clay O Other O TOTAL OTHER DIESEL O Clay O TOTAL OTHER DIESEL O Clay O TOTAL OTHER DIESEL O CLAY OTHER DIESEL O CONSULTANT SCENIFICATION: If We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certification: If We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certification: If We acknowledge receipt of the soil described above and nothing has been added or done to such soil that would alter it is any way.  Print or Type Name: Generator O Consultant O Signature and date: Month Day I Other O Type Name: Separate Signature and date: Month Day I Other O Type Name: Separate Signature and date: Month Day I Other O Type Name: Signature and date: Month Day I Other O Type Name: Signature and date: Month Day I Other O Type Name: Signature and date: Month Day I Other O Type Name: Signature and date: Month Day I Other O Type Name: Signature and date: Month Day I Other O Type Name: Signature and date: Month Day I Other O Type Name: Signature	7	502 N. WENATCH	HEE AVENU	5		rerson	to Contact:				•	
TPS Technologies Inc.  2800 - 104th Street Court South  Renee Avelino  Rica Nelson  Rays:  (253)584-8309  Transporter Name and Malling Address:  (800) 922-9395  Transporter's Washe and Malling Address:  (800) 922-9395  Transporter's DOT No.:  DON HUNT  LYNNWOOD, WA 98037  USA  (425) 513-5839  Description of Soil Moisture Content Contaminated by: Approx. Qty: Description of Delivery Gross Weight Tare Weight Net Weight Clay Other One of Deliver Other Oth	ulta				<b></b>	FAX#:						
TPS Technologies Inc.  2800 - 104th Street Court South  Renee Avelino  Rica Nelson  Rays:  (253)584-8309  Transporter Name and Malling Address:  (800) 922-9395  Transporter's Washe and Malling Address:  (800) 922-9395  Transporter's DOT No.:  DON HUNT  LYNNWOOD, WA 98037  USA  (425) 513-5839  Description of Soil Moisture Content Contaminated by: Approx. Qty: Description of Delivery Gross Weight Tare Weight Net Weight Clay Other One of Deliver Other Oth	ons			U	SA	Facility	Phone #	•			Numbers	
Person to Contact: Renee Avelino Rica Nelson FAXI: (253)584-8309 Transporter's USEPA ID No.: ENVIROTECH SYSTEMS 3601 - 121st ST. SW  Description of Soil Moisture Content Contaminated by: Approx. Gty: Description of Delivery Don Hunt FAXI: (425) 513-5839  Transporter's DOT No.: DON HUNT FAXI: DON HUNT FAXI: (425) 513-5839  Transporter's DOT No.: DON HUNT FAXI: DON HUNT F						1		1-8430		, acmy a com		
Lakeyood, WA 98499   USA   (253)584-8309   Transporter Name and Mailing Address:   Transporter Fonce #:   C800) 922-9395   Transporter Subsequent Person to Contact:   Transporter Subsequent Person to Contact:   DON HUNT   PAX#.   Customer Account Number with TPS   3E57SEM   Transporter Subsequent Person to Contact:   DON HUNT   PAX#.   Customer Account Number with TPS   3E57SEM   Transporter Subsequent Person to Contact:   DON HUNT   PAX#.   Customer Account Number with TPS   3E57SEM   Transporter Subsequent Person to Contact:   DON HUNT   PAX#.   Customer Account Number with TPS   3E57SEM   Transporter Subsequent Person to Contact:   DON HUNT   PAX#.   Customer Account Number with TPS   3E57SEM   Transporter Subsequent Person to Contact:   DON HUNT   PAX#.   Customer Account Number with TPS   3E57SEM   Transporter Subsequent Person to Contact:   DON HUNT   PAX#.	id/o	<u> </u>				Person	to Contact:	:	-			
ENVIROTECH SYSTEMS  3601 - 121st ST. SW  LYNNWOOD, WA 98037  USA  LYNNWOOD, WA 98037  Description of Soil  Moisture Content  Contaminated by: Approx. Qty: Description of Delivery  Sand Corganic Corgani		2800 - 104th S	street Co	urt South			ee Av	relino		Rica	Melson	
ENVIROTECH SYSTEMS  3601 - 121st ST. SW  LYNNWOOD, WA 98037  USA  LYNNWOOD, WA 98037  Description of Soil  Moisture Content  Contaminated by: Approx. Qty: Description of Delivery  Sand Corganic Corgani	ato	1 - 1		11	C.	1	(4) #64	1-8200		[,		
ENVIROTECH SYSTEMS  3601 - 121st ST. SW  LYNNWOOD, WA 98037  USA  Customer Account Number with TPS  3ESYSEM  Net Weight Net We  Account Account Number with TPS  3ESYSEM  Net Weight Tare Weight Net We  Account Account Number with TPS  3ESYSEM  Net Weight Tare Weight Net We  Account Number with TPS  3ESYSEM  Account Number with TPS  3ESYSEM  Net Weight Tare Weight Net Weight	žinė.			u	26					Transporter's U	JS EPA ID No	.:
Person to Contact:   DON HUNT   FAX#: (425) 513-5839   Customer Account Number with TPS   3ESYSEH	ğ								5			
LYNNWOOD, WA 98037  USA    Doscription of Soil   Moisture Content   Contaminated by:   Approx. Gty:   Description of Delivery   Gross Weight   Tare Weight   Net We		'	•			Persor	to Contact:	:		Transporter's I	OOT No.:	
Description of Soil Moisture Content Contaminated by: Approx. Qty: Description of Delivery Gross Weight Tare Weight Net We Sand Granic Gross Granic								<u>r                                     </u>		Cumbanas Assa	und Mirmhan	with TPC
Sand Organic O	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LYNNWOOD, WA 98037 USA (425) 513								3ESYS	EM	,
Sand Organic Onther Ont		Description of Soll			: Appro						Tare Weight	Net Weigh
Clay O Other O 10-20% Other O		• •	10 - 20% 📮 20% - over 📮	Diesel 🗆 Other 🗅	4	/		- Dev	mS		18100	2200
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Dat Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it is any way.  Print or Type Name:  Generator  Generator  Consultant  Signature and date:  Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.  Print or Type Name:  Steve A. La France  Discrepancies:			10 - 20%	Diesel 🖸				NET TO	ONS=	1.10		
Sheet completed and certified by me us for the Generation Site shown above and nothing has been added or done to such soil that would alter it is any way.  Print or Type Name:  Generator  Consultant  Signature and date:  Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.  Print or Type Name:  Steple A. La France  Discrepancies:	4.0	List any exception to items listed abo	ove:	ver u   Utner u     V. / U								
Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.  Print or Type Name:  Steve A. La France  Discrepancies:	ASSESSED FOR THE PARTY OF THE P	Sheet completed and certifie	int's certification: ed by me us for the	I/We certify that the Generation Site s	he soil re hown ab	ferencei ove and	l herein is nothing h	taken entire has been add	ly from ed or do	those soils desc one to such soil	ribed in the that would	Soil Data alter it in
condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.  Print or Type Name:  Steve A. La France  Discrepancius:		->										
Discrepancies:	rter	condition as when received	. I/We further cer	rtify that this soil	is being	directl	transpor	ted from the	h soil is Gener	being delivere ation Site to th	d in exactly e Designate	the same d Facility
Discrepancies:	ispo		to, subtracting fro	m or in any way i				ite.	_		34 -4	Day , Year
Discrepancius:	Ta E		1 - F	Tranco	Sig	gnature ar	o date:	10	1	RIM R. I		
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25세 8 세	À	• "							•			
	Faci											
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:  Print or Type Name:  R. Avelino/R. Nelson	Marky B	Recycling Facility certifies th	e receipt of the soil o	covered by this man	ifest exce	pt as no	ted above:	· · · · · · · · · · · · · · · · · · ·				
Print or Type Name: Signajure and date:	S C	Print or Type Name:		······································	Si	gnajúre a	d date:	//		)		1.
R. Avelino/R. Nelson	Rec	R. Avelino/R. N	elson		0		م ر	. 6				20/15
	ं हैं जे हैं इस्टें के के के	l		a	<del>/</del> X	<u> </u>	1	FARE			PHARMAN	7.4

# ATTACHMENT C LABORATORY ANALYTICAL METHODS AND REPORTS CHAIN-OF-CUSTODY DOCUMENTATION

#### ATTACHMENT C

#### Laboratory Analytical Methods

Analysis for TPH-gasoline was performed according to Northwest Method NWTPH-G. Analysis for TPH-diesel extended was performed according to Northwest method NWTPH-Dx with silica gel cleanup. Benzene, toluene, ethylbenzene, and xylenes analysis was performed in accordance with EPA Method 8021B. A methanol solvent extraction was used for the WTPH-G analysis with final detection by gas chromatography using a flame-ionization detector. A headspace or purge and trap technique was utilized for BTEX analysis. Final detection was by gas chromatography using a photoionization detector. Analysis for total lead was performed according to EPA 6000/7000 Series Methods.



 Seattle
 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

 425,420,9200
 fax 425,420,9210

 Spokane
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

 509,924,9200
 fax 509,924,9290

 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

 503,906,9200
 fax 503,906,9210

 Bend
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

 541,383,9310
 fax 541,382,7588

Delta Environmental 1200 112th Ave. NE C146

Bellevue WA, 98004

Project: Chevron #9-7348

Project Number: CW97348

Project Manager: Matt Miller

Reported:

04/19/01 15:31

# ANALYTICAL REPORT FOR SAMPLES

Complete	Laboratory ID	Matrix	Date Sampled	Date Received
Sample ID	B1D0159-01	Soil	04/05/01 08:10	04/06/01 13:40
B-6-5	B1D0159-04	Soil	04/05/01 08:28	04/06/01 13:40
B-6-20	B1D0159-05	Soil	04/05/01 09:30	04/06/01 13:40
B-7-5	B1D0159-08	Soil	04/05/01 09:48	04/06/01 13:40
B-7-20	D1D0137-00	50		

North Creek Analytical - Bothell

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North Creek Analytical, Inc. **Environmental Laboratory Network**  Page 1 of 11



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509.924.9200 fax 509.924 9290
9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Delta Environmental

1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #9-7348

Project Number: CW97348 Project Manager: Matt Miller

Reported: 04/19/01 15:31

# Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-6-5 (B1D0159-01) Soil	Sampled: 04/05/01 08:10	Received:	04/06/01 13:4	0					
Gasoline Range Hydrocarbo		5.00	mg/kg dry	1	1D09012	04/09/01	04/09/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	н	II	н	н	н	11	•
Toluene	ND	0.0500	"	n	н	11	11	11	
Ethylbenzene	ND	0.0500	u	ŧ	"	U	II .		
Xylenes (total)	ND	0.100	"		u	и,			
Surrogate: 4-BFB (FID)	86.2 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	81.9 %	50-150			"	n	"	"	
B-6-20 (B1D0159-04) Soil	Sampled: 04/05/01 08:28	Received	: 04/06/01 13	:40					
Gasoline Range Hydrocarb	ons ND	5.00	mg/kg dry	1	1D09012	04/09/01	04/09/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	"	"	. "	"	H	
Toluene	ND	0.0500		lr	n.	"	U	11	
Ethylbenzene	ND	0.0500		11	"	n.	n		
Xylenes (total)	ND	0.100	Ĥ	"		11		H	
Surrogate: 4-BFB (FID)	83.8 %	50-150			"	"	"	<i>u</i> .	
Surrogate: 4-BFB (PID)	85.0 %	50-150		•	"	"	"	"	
B-7-5 (B1D0159-05) Soil	Sampled: 04/05/01 09:30	Received:	04/06/01 13:	40					
Gasoline Range Hydrocarb		5.00	mg/kg dry	i	1D09012	04/09/01	04/09/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	11	U	0	и .	u	
Toluene	ND	0.0500	"	n	II .	11	H	"	
Ethylbenzene	ND	0.0500	Ħ	11	U	н	n	н	
Xylenes (total)	ND	0.100	II	11			<u></u>		
Surrogate: 4-BFB (FID)	82.2 %	50-150			. #	n	"	<i>"</i>	
Surrogate: 4-BFB (PID)	85.9 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network** 

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Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 Portland

503.906 9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Delta Environmental 1200 112th Ave. NE C146 Project: Chevron #9-7348

Project Number: CW97348

Reported: 04/19/01 15:31

Bellevue WA, 98004

Project Manager: Matt Miller

## Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-7-20 (B1D0159-08) Soil	Sampled: 04/05/01 09:48	Received:	04/06/01 13	:40		·			<del></del>
Gasoline Range Hydrocarbon	s ND	5.00	mg/kg dry	1	1D09012	04/09/01	04/09/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	u	11	"	H	n	11	•
Toluene	ND	0.0500		11			11	II	
Ethylbenzene	ND	0.0500	н	H	11	U	н	11	
Xylenes (total)	ND	0.100	11	"	10	н		11	
Surrogate: 4-BFB (FID)	81.6%	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	86.6 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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**Portland** 503.906.9200 fax 503.906.9210

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 Bend

Delta Environmental 1200 112th Ave. NE C146 Project: Chevron #9-7348

Project Number: CW97348

Project Manager: Matt Miller

Reported: 04/19/01 15:31

### Bellevue WA, 98004 Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-6-5 (B1D0159-01) Soil	Sampled: 04/05/	01 08:10	Received: 0	4/06/01 13:	40					
Diesel Range Hydrocarbon		ND	10.0	mg/kg dry	1	1D11009	04/11/01	04/12/01	NWTPH-Dx SG	
Lube Oil Range Hydrocarb		ND	25.0	"	n	· n	h			<del>`</del> :
		80.6%	50-150			"	H	"	"	
Surrogate: 2-FBP Surrogate: Octacosane		83.1 %	50-150			"	"	"	"	
B-6-20 (B1D0159-04) Soil	Sampled: 04/0	5/01 08:28	Received:	04/06/01 13	3:40				- 00	
Diesel Range Hydrocarbor		ND	10.0	mg/kg dry	1	1D11009	04/11/01	04/12/01	NWTPH-Dx SG	
Lube Oil Range Hydrocarb		ND	25.0	U	n	11	*			
		75.7 %	50-150			"	"	"	n	
Surrogate: 2-FBP Surrogate: Octacosane		75.7 %	50-150			n	"	"	"	
B-7-5 (B1D0159-05) Soil	Sampled: 04/05	/01 09:30	Received:	04/06/01 13	:40					
Diesel Range Hydrocarbon		ND	10.0	mg/kg dry	1	1D11009	04/11/01	04/12/01	NWTPH-Dx SG	
Lube Oil Range Hydrocar		ND	25.0	11	**	"	**			
		71.8 %	50-150			"	"	"		
Surrogate: 2-FBP Surrogate: Octacosane		75.4 %	50-150			"	"	"	"	
B-7-20 (B1D0159-08) So	il Sampled: 04/0	5/01 09:4	8 Received	: 04/06/01 1	3:40				A STANDAL D. CC	
Diesel Range Hydrocarbo		ND	10.0	mg/kg dry	1	1D11009		04/13/01	NWTPH-Dx SG	
Lube Oil Range Hydrocar		ND	25.0	u	11					
		73.7 %	50-150			"	"	"	"	
Surrogate: 2-FBP Surrogate: Octacosane		72.6 %	50-150			"	"	,,	"	-

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 425,420,9200
 fax 425,420,9210

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 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

 509,924,9200
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 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

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 Bend
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

 541,383,9310
 fax 541,382,7588

Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #9-7348

Project Number: CW97348 Project Manager: Matt Miller Reported:

04/19/01 15:31

# Total Metals by EPA 6000/7000 Series Methods North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-7-20 (B1D0159-08) Soil	Sampled: 04/05/01 09:48 4.33	Received:	04/06/01 13 mg/kg dry	3:40	1D10041	04/10/01	04/11/01	EPA 6020	·

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network Page 5 of 11



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Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 Portland

Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #9-7348

Project Number: CW97348 Project Manager: Matt Miller

Reported: 04/19/01 15:31

# Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1D09012: Prepared 04/09/01	Using El	PA 5030B	(MeOH)						<u> </u>	·
Blank (1D09012-BLK1)										
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet							
Benzene	ND	0.0500	u .							
Coluene .	ND	0.0500	11							
Ethylbenzene	ND	0.0500	11							
Kylenes (total)	ND	0.100	tr							
Surrogate: 4-BFB (FID)	3.68	- <del></del>		4.00		92.0	50-150	•		
Surrogate: 4-BFB (PID)	3.47		"	4.00		86.8	50-150			
LCS (1D09012-BS1)							<del></del>			
Gasoline Range Hydrocarbons	24.3	5.00	mg/kg wet	25.0		97.2	70-130			
Surrogate: 4-BFB (FID)	3.86		"	4.00		96.5	50-150			
Duplicate (1D09012-DUP1)					Source:	B1D0159-	-01			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND			6.95	50 .	
Surrogate: 4-BFB (FID)	3.51		"	4.64		75.6	50-150		•	
Duplicate (1D09012-DUP2)					Source:	B1D0160	-03			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND			13.2	50	
Surrogate: 4-BFB (FID)	4.20		"	5.54		75.8	50-150			
Matrix Spike (1D09012-MS1)					Source:	B1C0736	-14			
Benzene	0.676	0.0500	mg/kg dry	0.785	ND	85.0	60-140			
Toluene	0.675	0.0500	"	0.785	ND	82.3	60-140			-
Ethylbenzene	0.686	0.0500	II	0.785	ND	86.3	60-140			
Xylenes (total)	2.04	0.100	Ħ	2.36	ND	85.3	60-140			
Surrogate: 4-BFB (PID)	4.83		"	6.28		76.9	50-150			
Matrix Spike Dup (1D09012-MSD1)					Source:	B1C0736	5-14			
Benzene	0.654	0.0500	mg/kg dry	0.785	ND	82.2	60-140		20	
Toluene	0.655	0.0500	=	0.785	ND	79.8	60-140	3.01	20	
Ethylbenzene	0.671	0.0500		0.785	ND	84.4	60-140	2.21	20	
Xylenes (total)	1.96	0.100		2.36	ND	81.9	60-140	4.00	20	
Surrogate: 4-BFB (PID)	4.64		<i>n</i> .	6.28		73.9	50-150			
Surroguie, 4-DID (LID)										

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Jeanne Garthwaite, Project Manager

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9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 Portland

503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #9-7348

Project Number: CW97348 Project Manager: Matt Miller

Reported: 04/19/01 15:31

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control North Creek Analytical - Bothell

			• •	•							
Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D11009:	Prepared 04/11/01	Using E	PA 3550B			<del></del>					<del></del>
Blank (1D11009-BL	-K1)									<del> </del>	<del></del>
Diesel Range Hydrocarbons		ND	10.0	mg/kg wet							·
Lube Oil Range Hydrocarbons		ND	25.0	11							
		9.00			10.7		84.1	50-150			
Surrogate: 2-FBP Surrogate: Octacosane		8.80		"	10.7		82.2	50-150			
LCS (1D11009-BS1	i)						83.5	50-150			
Diesel Range Hydrocarbons		55.7	10.0	mg/kg wet	66.7		63.5	J0-130			
Surrogate: 2-FBP		8.54		"	10.7		79.8	50-150			
Duplicate (1D11009-DUP1)					Source: B1D0159-01						
		ND	10.0	mg/kg dry		ND				50	
Diesel Range Hydroca Lube Oil Range Hydro		ND	25.0	"		ND				50	
		10.2		"	12.4		82.3	50-150			
Surrogate: 2-FBP Surrogate: Octacosane		9.71		"	12.4		78.3	50-150			•

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Bellevue WA, 98004

Project: Chevron #9-7348

Project Number: CW97348 Project Manager: Matt Miller Reported:

04/19/01 15:31

# Total Metals by EPA 6000/7000 Series Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Batch 1D10041:	Prepared 04/10/01	Using	EPA 3050B	<del></del>						1	<u> </u>
Blank (1D10041-BL Lead	K1)	ND	0.500	mg/kg wet							
LCS (1D10041-BS1)		26.0	0.500	mg/kg wet	25.0		104	80-120	<u> </u>		
Matrix Spike (1D10041-MS1)					Source: B1D0159-08						
Lead		23.4	0.340	mg/kg dry	18.4	4.33	104	70-130			
Matrix Spike Dup (1D10041-MSD1)					Source: B1D0159-08						
Lead		23.4	0.347	mg/kg dry	18.8	4.33	101	70-130	0.00	20	

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425.420.9200 fax 425.420.9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #9-7348

Project Number: CW97348 Project Manager: Matt Miller Reported:

04/19/01 15:31

# Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Batch 1D09006:	Prepared 04/09/01	Using Dry Weight									·
Blank (1D09006-Bl	LK1)										
Dry Weight		100	1.00	%							•

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc. **Environmental Laboratory Network** 

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Portland

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503,906.9200 fax 503.906.9210 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

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Project: Chevron #9-7348

Project Number: CW97348 Project Manager: Matt Miller

Reported: 04/19/01 15:31

#### Notes and Definitions

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

RPD

Relative Percent Difference

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CREEK ANALYTICAL Environmental Laboratory Services

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 Fa., 644-2202 6100139

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

24-9290

(509) 924-9200 I

CHEVRON U.S.A., Inc. CHAIN OF CUSTODY REPORT

No 5 त्र  $\aleph$ Standard Analyses (DAYS) RUSH Analyses (HOURS) RUSH Analyses (DAYS) R100159-01 Turnaround Times <del>&</del> SAMPLE PRESERVATION (Iced) REMARKS Fax Copy of Lab Report & COC to CHEVRON: 77 ĸ Hydrocarbon Methods NW SEP å Consultant Project #: CW 9734 & NCA Sample Number Fax: 425-450-8957 REPORTS: Level 2 Level 1 Total Tissolved TOLP Metals (8) Project Manager: , MATT MWEPConsultant Project #: (EPA 8310) CONSULTANT INFORMATION 18. 4. 8 W ムニーじ 0h:51 10-17-10 3C/MS Semi Vols Airbill #: (ELY 8340/8560) O Other Address: 1200 112 4 MVB IV F 15x x40 Helsevar 54 Sample Collection by: Sylam M. Mometic Volatile O Alaska (EBY 8010) Phone: 425-450-8425 さと おかし O Washington 5. Jallaranich Distribution: White - Laboratory Yellow - Consultant Photocopy - CHEVRON Name: The Ha (EPA 8020 Mod. O Oregon # OF CON-TAINERS 0h; El 10-9-h Facility Address: 502 N Wendchae de MATRIX (W,S,O,A) Brest Hunder *6*8 948 \$ SAMPLING DATE / 80 930 985 828 CHEVRON INFORMATION 820 CHEVRON Facility #: 9-7340 1/9/क CHEVRON Contact Name: SAMPLE IDENTIFICATION CHEVRON Telephone #: 10. Sock & le glinquished by: Laboratory Release #: Rev. 1.0 3/95 ا ا City, State, ZIP: 32 t-9% 4B-6-10 1.37 15 6.8-7-40 38-6-15 58-7-5 327 20 Page 2. B-6-10