Letage 1696 UNO CAL 5533 LGNN WOOD UST#8450

ENSR ALCOM

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9521 Willows Road NE, Redmond, Washington 98052-3422 T 425.881.7700 F 425.883.4473 www.ensr.aecom.com

March 28, 2006

ORIGINAL

Mr. John Frary Chevron Environmental Management Company 276 Tank Farm Road, PO Box 1069 San Luis Obispo, California 93406

Subject: First Quarter 2006 Groundwater Monitoring Well Installation

Former Unocal Service Station No. 5533

16404 36th Ave W. Lynnwood, Washington ENSR Project No: 06940-367

DOE Facility Number: 74865182
DOE Contact Name: Mr. Joe Hickey
Installation Date: January 16, 2006

RECEIVED

APR 0 7 2008 DEPT. OF ECOLOGY

Dear Mr. Frary:

ENSR has prepared this report to document the installation of three groundwater monitoring wells MW-11R, R-1, and R-2. Field activities were performed at the former Pennock property directly east of the Former Unocal Service Station No. 5533 (the site), located at 16404 36th Ave W. in Lynnwood, Washington (Figure 1) on January 16, 2006, through January 18, 2006.

The purpose of this work was to install one groundwater monitoring well (MW-11R) to replace a previously decommissioned well MW-11, and install two additional wells (R-1 and R-2) (Figure 2).

The sample analytical results are presented in Table 1.

Well Installation Activities

Prior to the installation of the wells, ENSR contracted Applied Professional Services Inc. to perform an onsite underground utility survey of the site. The Washington Utility Notification Center was contacted to locate and mark all public underground utilities.

Boart Longyear of Fife, Washington, installed one, two-inch diameter well (MW-11R) on January 17, 2006, and two, four-inch diameter wells (R-1 and R-2), to a depth of 15 feet using a limited access hollow-stem auger drilling rig on January 16, 2006, and January 17, 2006. In order to assure that underground utilities would not be encountered, each boring location was cleared to a depth of 5 feet bgs with a high capacity vacuum truck. A hand auger was used during the clearing process to collect a soil sample for laboratory analysis at 3 feet bgs. The vacuum truck then completed clearing the borings to a depth of 5 feet bgs. Hollow-stem augers were then used to complete borings to a total depth of 15 feet bgs. Split-spoon soil samplers were driven at depths of 5 feet bgs, 10 feet bgs, and 15 feet bgs, to classify soil types and to collect samples to be submitted for chemical analysis. Sample jars were labeled accordingly, placed on ice, and delivered by ENSR to North Creek Analytical in Bothell, Washington, for analysis. Drill cuttings from each boring were collected in properly labeled 55-gallon drums, and stored onsite for pick-up and disposal. Soil analytical results are presented in Table 1.

Chevron Environmental Management Company First Quarter 2006 Groundwater Monitoring Well Installation Page 2

Monitoring Well Installation

Groundwater monitoring well MW-11R was constructed using 2 inch-diameter, flush threaded, Schedule 40 PVC, screened from 4 to 14 feet bgs (with a slot size of 0.020 inch). A filter pack was placed from the bottom of the boring to approximately 1 foot above the top of the screen (4 feet bgs) using #10/20 washed silica sand. The annular seal for each well consisted of 3 feet of unhydrated sodium bentonite granules. The granules were placed in one, three foot lift and hydrated with clean potable water. The well was completed flush with grade, and covered with traffic-rated road boxes (monuments) set in concrete.

Groundwater monitoring wells R-1 and R-2 were constructed using 4 inch-diameter, flush threaded, Schedule 40 PVC, screened from 4 to 14 feet bgs (with a slot size of 0.030 inch). A filter pack was placed from the bottom of the boring to approximately 1 foot above the top of the screen (4 feet bgs) using #10/20 washed silica sand. The annular seal for each well consisted of 3 feet of unhydrated sodium bentonite granules. The granules were placed in one, three foot lift and hydrated with clean potable water. The wells were completed flush with grade, and covered with traffic-rated road boxes (monuments) set in concrete.

On January 18, 2006, ENSR field personnel returned to develop the wells using a Grundfos Redi-Flow submersible pump. Prior to pumping the well screen was surged in sections (top, middle, lower) for three minutes each using a polyethylene bailer. Upon completion of the surging, the water was removed and stored in 55 gallon drums for subsequent pick up by a waste disposal contractor. Approximately 70 gallons of purge water was generated.

Copies of the boring logs are presented in Appendix A.

Analytical Methods

The soil samples collected were analyzed for:

- Total petroleum hydrocarbons (TPH) as gasoline (TPH-G) by Northwest Method NWTPH-Gx
- TPH as diesel (TPH-D), and TPH as heavy oil (TPH-O), by Northwest Method NWTPH-Dx with acid/silica gel cleanup.
- BETX, by EPA Method 8021B

Analytical Results

Soils encountered during the drilling can be summarized as follows:

- Boring MW-11R consisted primarily of silty sand from ground surface to approximately 15 feet bgs.
- Boring R-1 consisted primarily of gravelly sand (fill) to approximately 2.5 feet bgs, clay from 2.5 to 3.0 feet bgs, and silty sand from 3.0 to 15.5 feet bgs.
- Boring R-2 consisted primarily of well graded sand with gravels (fill) to approximately 2.5 feet bgs, clay from 2.5 to 5.0 feet bgs, and silt from 5.0 to 16.5 feet bgs.

For a more complete soil description please reference the boring logs presented in Appendix A.

Chevron Environmental Management Company First Quarter 2006 Groundwater Monitoring Well Installation Page 3

The soil analytical results were compared with the Washington State Department of Ecology (DOE) Model Toxics Control Act (MTCA) Method A Cleanup Levels.

Analytical results from the January 2006 sampling event are presented in Table 1. The analytical results are summarized as follows:

 Laboratory analysis of soil samples collected from borings MW-11R, R-1, and R-2 at depths of 5, 10, and 15 feet bgs did not exceed the MTCA Method A laboratory reporting limits for any of the compounds analyzed.

Laboratory quality control (QC) measures included surrogates, blanks, duplicates, laboratory control spikes, laboratory control spike duplicates, matrix spikes, and matrix spike duplicates. ENSR review of the QC measures indicates that the data are of known and acceptable quality.

Discussion

Soil samples collected during the installation of monitoring wells MW-11R, R-1, and R-2 did not contained concentrations of petroleum hydrocarbons exceeding laboratory reporting limits. The primary objective of the installation of these three monitoring wells was to provide additional groundwater data onsite

Chevron Environmental Management Company First Quarter 2006 Groundwater Monitoring Well Installation Page 4

Limitations

The interpretations in this report represent our professional opinions and are based, in part, on the information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

Sincerely yours,

Art Cowburn

Project Manager

acowburn@ensr.aecom.com

Akos Fekete Senior Geologist

afekete@ensr.aecom.comAkos Paul Fekete

Attachments

Table 1 – Summary of Soil Chemical Analytical Data – BETX and Petroleum hydrocarbons

Figure 1 – Site Location

Figure 2 - Groundwater Monitoring Well Locations - January 2006

Appendix A - Boring Logs

Appendix B - Laboratory Report/Chain of Custody

Distribution

Mr. Joe Hickey, WA DOE ENSR Project File 06940-367

Quality Assurance/Technical Review By:

Brian A. Bennett

Technician II

bbennett@ensr.aecom.com

TABLE 1 SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA BETX AND PETROLEUM HYDROCARBONS

and the control of th

FORMER UNOCAL SERVICE STATION #5533 16405 36TH AVE WEST, LYNNWOOD, WA 06940-367

Boring Number	Date Sampled			TX ¹ /kg)		Gasoline-range Hydrocarbons ²	Diesel-range Hydrocarbons ³	Heavy Oil-range Hydrocarbons ³
	Och i proce	В	E	T	Х	(mg/kg)	(mg/kg)	(mg/kg)
MTCA Method A C	leanup Level	0.03	6	7	9	30	2,000	2,000
MW-11R-3	01/16/06	ND(<0.0201)	ND(<0.0503)	ND(<0.0503)	ND(<0.101)	ND(<5.03)	ND(<12.2)	ND(<30.4)
MW-11R-5	01/17/06	ND(<0.0173)	ND(<0.0433)	ND(<0.0433)	ND(<0.867)	ND(<4.33)	ND(<11.5)	ND(<28.7)
MW-11R-10	01/17/06	ND(<0.0173)	ND(<0.0432)	ND(<0.0432)	ND(<0.0865)	ND(<4.32)	ND(<11.10)	ND(<27.5)
R-1-3	01/16/05	ND(<0.0214)	ND(<0.0535)	ND(<0.0536)	ND(<0.107)	ND(<5.35)	ND(<11.8)	ND(<29.6)
R-1-5	01/17/05	ND(<0.0208)	ND(<0.519)	ND(<0.0519)	ND(<0.104)	ND(<5.19)	ND(<11.4)	ND(<28.6)
R-1-10	01/17/05	ND(<0.0164)	ND(<0.0410)	ND(<0.0410)	ND(<0.0820)	ND(<4.10)	ND(<11.1)	ND(<27.7)
R-1-15	01/17/05	ND(<0.0157)	ND(<0.0393)	ND(<0.0393)	ND(0.0786)	ND(<3.93)	ND(<11.0)	ND(<27.4)
R-2-3	01/16/05	ND(<0.0195)	ND(<0.0488)	ND(<0.0488)	ND(<0.0976)	ND(<4.88)	ND(<11.8)	ND(<29.5)
R-2-5	01/16/05	ND(<0.0202)	ND(<0.0504)	ND(<0.0504)	ND(0.101)	ND(<5.04)	ND(<11.5)	ND(<28.7)
R-2-10	01/16/05	ND(<0.0193)	ND(<0.0483)	ND(<0.0483)	ND(<0.0967)	ND(<4.83)	ND(<11.6)	ND(<29.0)
R-2-15	01/16/05	ND(<0.0179)	ND(<0.0447)	ND(<0.0447)	ND(<0.0895)	ND(<4.47)	ND(<10.9)	ND(<27.3)

Notes:

mg/kg = milligrams per kilogram

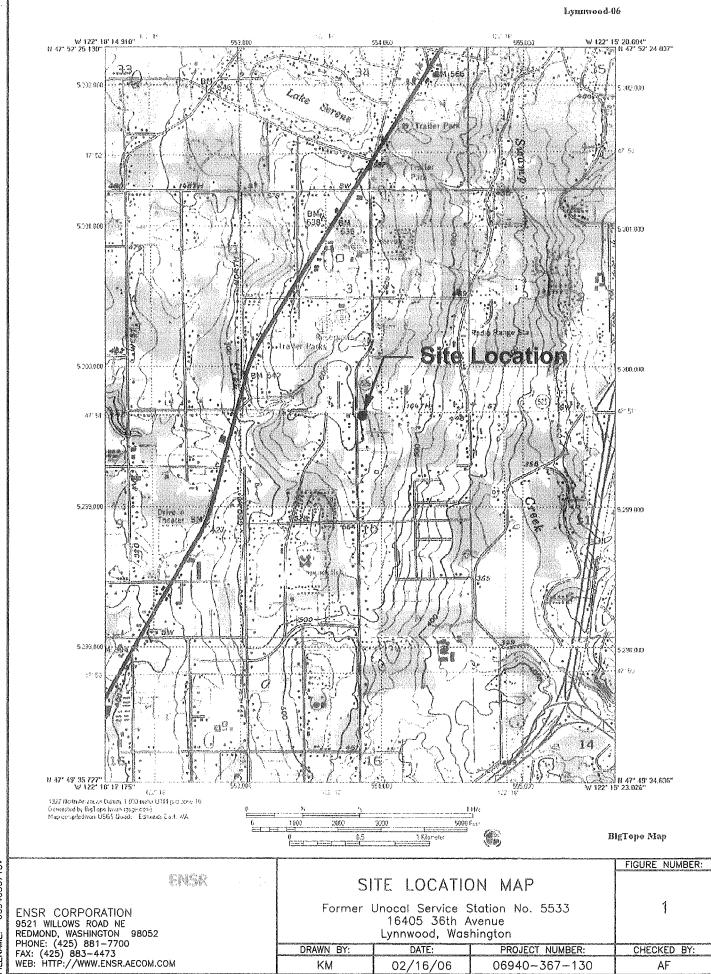
MTCA = Model Toxics Control Act

Laboratory chemical analyses were completed by North Creek Analytical (Bothell, WA).

¹B = Benzene, E = Ethylbenzene, T = Toluene, X = Total Xylenes. Analyzed by EPA Method 8021B.

²Gasoline-range hydrocarbons analyzed by Northwest Method NWTPH-G or NWTPH-Gx.

³ Diesel- and heavy oil-range hydrocarbons analyzed by Northwest Method NWTPH-D with acid/silica gel cleanup.



DRAWN BY:

KM

DATE:

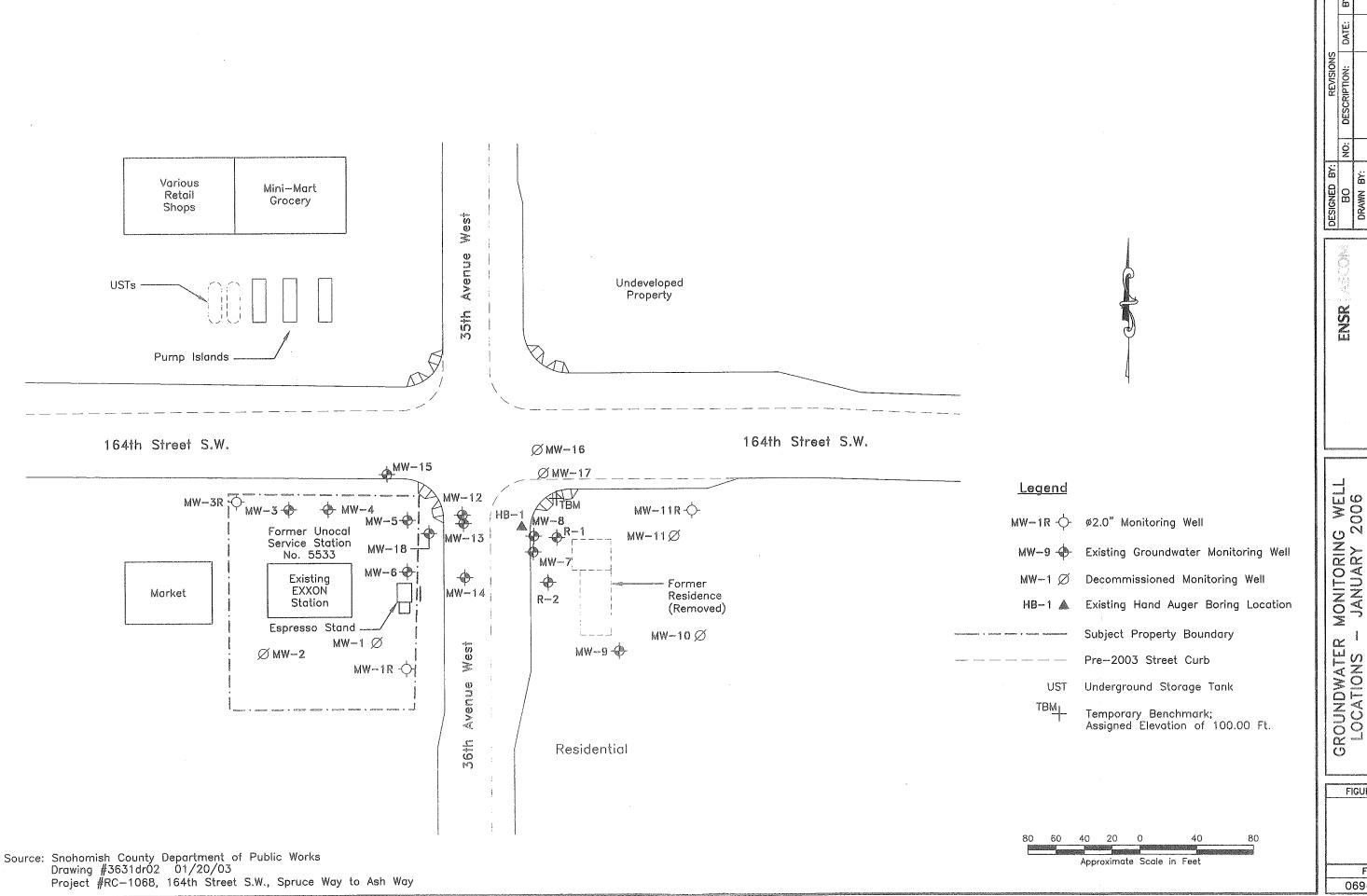
02/16/06

PROJECT NUMBER:

06940-367-130

CHECKED BY:

AF



 DESIGNED BY:
 REVISIONS

 BO
 NO:
 DESCRIPTION:
 DATE:
 BY:

 DRAWN BY:
 KM
 CHECKED BY:
 AC
 AP

ENSR CORPORATION 9521 WILLOWS ROAD NE REDMOND, WASHINGTON PHONE: (425) 881-7700 FAX: (425) 883-4473 WEB: HTTP://WWW.ENSR.AECOM.COM

OUNDWATER MONITORING WELL
OCATIONS — JANUARY 2006
Former Unocal Service Station No. 5533
16405 36th Avenue
Lynnwood, Washington
ALE: | DATE: | PROJECT NUMBER:

FIGURE NUMBER:

2

FILENAME:
0694036713W

Appendix A

Boring Logs

ROJECT NAME ormer Unocal Service ROJECT NUMBER 6940-367-120 RILLING CONTRACTOR / DE	RILLER					95	ENSR Co 21 Willov ond, Was	vs Road	NE
<mark>loart Longyear</mark> RILLING EQUIPMENT / METI	HOD		BIT SIZE / BI	TYPE	SAMPLING M				
imited Access HAS ASING MATL, / DIAMETER	SCREEN:				Split Spoo)6 <u>- 1/17/</u>	
ich 40 PVC/2"	TYPE Slotted	MATL.	Sch. 40 P	VC TOTAL LENGTH 1 TOP & BOTTOM SCF		. 2" SW SURFA		SIZE 0.02 DATE	20
LEVATION OF: GR FT.)									
ORTHING	EASTING	U	ATITUDE	LONGI	TUDE		DATUM		
ppth Steel well box	Locking J-plug	Graphic Log	True Depth USCS	Visual Desc	ription	Blow Counts	Sampl Time	Sample ⁹ ID	PII V a I u (ppr Recor (inch
	CONCRET	E	SM	0.0 to 3.0 feet: SILTY SAN to grey, 70% fine to mediu low to non-plastic silt, 5% gravels, organics througho	m sand, 25% subrounded				
	bentonite seal							MW11R-3	
			3.0	3.0 to 15.0 feet: SILTY SA and grey mottled, 60% fine sand, 30% low plastic silt, few organics, soft, moist.	to medium		1330		6
5 \sum \sqrt{Groundwater Level}		-	5.0	@ 5 feet: increasing perce medium sand.	nt of fine to	2/9/14	1245	MW11R-5	0.0
	#10#20 silica								
	sand pack 0.030 slotted screen								
10						8/14/28	1255	MW11R-10	0.0 18
							,		**
	3								

Forn PROJ 0694	R-1 ECT NAME ner Unocal Service ECT NUMBER 10-367-120 LING CONTRACTOR / DE			Lynnw	36th Avenue So vood, Washingto DBY		ENSR Corporation 9521 Willows Road NE Redmond, Washington, 98052				
	rt Longyear ING EQUIPMENT / MET			S Zorr	A B Bennett	SAMPLING N	1ETHOD	START-	FINISH D	ATE	
Limi	ited Access HAS					Split Spoo	on 1/16/06 - 1/17/06				
	NG MATL. / DIAMETER 40 PVC/4"	SCREEN: TYPE Slotte	∯ MATL	Sch. 4	O PVC TOTAL LE		. 4"		SIZE 0.0	30	
ELEV	ATION OF: GR	OUND SURFACE	TOP OF WEL	L CASING	TOP & BOT	TOM SCREEN C	SW SURFAC	CE	DATE		
(FT.) NORT	THING	EASTING	I.	ATITUDE		LONGITUDE		DATUM			
Depth (feet)	Traffic rated steel well box	Locking J-plug	Graphic Log	True Depth (uscs Visual	Description	Blow Counts	Sample Time	Sample ID	PID V a l u (ppri Recov (inche	
		CONCR	ETE		brown to grey; sand, 25% fine	GRAVELLY SAND (SW), 75% medium to coarse to medium subrounded sands, few coarse gravel,).					
,,,,,,	77	bentonite sea	77777777	2.5	CL 2.5 to 3.0 feet:	CLAY (CL), grey to brown,					
	Groundwater Level			3.0	SM 95% low to medium sand oravel, stiff, mo 3,0 to 16,0 feet	dium plasticity clay, few fine d, few fine subrounded	/ "	1150	R1-3	0.0 6	
					plasticity silt, fe	w medium to coarse sand, inded gravel, moist to wet					
5							8/22/23	1020	R1-5	0.0 8	
					·						
					,						
		#10/#20 silica sand pack 0.030 slotted									
10		screen		10.0	@ 10 feet: No	n-olastic hard	5/7/25	1045	R1-10	₩ 0.0	
										18	
										22	
15			-				1/1/14	1100	R1-15	0.0	
<u>'</u>			6383	15.5	@ 15.5 feet: li	ght brown to grey.				- III "	

Forn PROJ 0694 DRILL	R-2 JECT NAME MER UNOCAL S JECT NUMBER 10-367-120 LING CONTRACT				Lynn LOGG	4 36tl wood ED BY	n Avenue So d, Washingto 3 Bennett			95	21 W	/illow:	poration Road Road	n NE , 98052
DRILL	rt Longyear ING EQUIPMEN		· · · · · · · · · · · · · · · · · · ·		BIT SI	ZE / BI	T TYPE		SAMPLING N				FINISH D. 6 - 1/17	
CASI	ited Access I NG MATL. / DIAN	HAS METER SO	CREEN:		0-1-	40 80	10			. 4"			IZE 0.0	
	40 PVC/4" ATION OF:	GROUN	TYPE Slotted ID SURFACE	TOP OF WEL	Scn. .L CASIN	40 P	VC TOTAL LET TOP & BOTT	OM SCRI	EEN C			SLOT S	DATE	30
(FT.) NORT	THING	E	ASTING	L	ATITUD	E		LONGIT	UDE		DATI	JM		
Depth (feet)	Traffic rated steel well box	\ /	Locking J-plug	Graphic Log	True Depth	USCS	Visuall	Descr	iption	Blow Counts		Sample Time	Sample ID	PID V a l u e (ppm) Recover (inches)
	Z		CONCRE	TE		GW	0.0 to 2.5 feet: W WITH GRAVEL (medium sand, 25 loose, wet (fill).	/ELL GRAE (GW), brow 5% subroun	DED SAND n, 75% fine to ded gravel,		****			
	5 7		bentonite seal		2.5	CL	2.5 to 5.0 feet: Li 95% medium pla	stic clay, 59	%				R2-3	₩ 0.4
	Groundwater Level				4.0		sand/subrounded @ 4.0 feet: mois				••••	1110		6
5					5.0	ML	5.0 to 16.5 feet: plastic silt, 2% fir to wet.	SILT (ML), ne sand, m	grey, 98% non edium, moist	4/6/23		1155	R2-5	2.4 14
	1													
1111			#10/#20 silica sand pack 0.030 slotted screen											
10							ч			1/11/16		1205	R2-10	0.0 14
15_													me 1-	
15					15.0		@ 15 feel: chan	ge to very o	dense.	13/37/44		1330	R2-15	6 17

Appendix B

Laboratory Report / Chain of Custody



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

425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Sulte 8, 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 Bend

Anchorage

541.383.9310 fax 541.382.7588 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119

907.563.9200 fax 907.563.9210

30 January 2006

Art Cowburn **ENSR-Redmond** 9521 Willows Road NE Redmond, WA 98052

RE: UNOCAL #5533

Enclosed are the results of analyses for samples received by the laboratory on 01/18/06 09:18. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes

Project Manager

If beedes

Synnivoad
Rennock
Resperty
Soils data
January 2002



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420,9200 fax 425.420,9210

11922 E. 1st Avenue, Spokane Valley, WA 99206-5302 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

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563,9200 fax 907.563,9210

ENSR-Redmond 9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533 Project Number: 06940-367-120

Project Manager: Art Cowburn

Reported: 01/30/06 14:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5533-R2-3	B6A0358-01	Soil	01/16/06 11:10	01/18/06 09:18
5533-R1-3	B6A0358-02	Soil	01/16/06 11:50	01/18/06 09:18
5533-MW11R-3	B6A0358-03	Soil	01/16/06 12:30	01/18/06 09:18
5533-R2-5	B6A0358-04	Soil	01/16/06 11:55	01/18/06 09:18
5533-R2-10	B6A0358-05	Soil	01/16/06 12:05	01/18/06 09:18
5533-R2-15	B6A0358-06	Soil	01/16/06 13:30	01/18/06 09:18
5533-R1-5	B6A0358-07	Soil	01/17/06 10:20	01/18/06 09:18
5533-R1-10	B6A0358-08	Soil	01/17/06 10:45	01/18/06 09:18
5533-R1-15	B6A0358-09	Soil	01/17/06 11:00	01/18/06 09:18
5533-MW11R-5	B6A0358-10	Soil	01/17/06 12:45	01/18/06 09:18
5533-MW11R-10	B6A0358-11	Soil	01/17/06 12:55	01/18/06 09:18

North Creek Analytical - Bothell

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.

Lherm

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

Page 1 of 15



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

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11922 E. 1st Avenue, Spokane Valley, WA 99206-5302 Spokane

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

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119

907.563.9200 fax 907.563.9210

ENSR-Redmond

9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120

Project Manager: Art Cowburn

Reported:

01/30/06 14:32

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5533-R2-3 (B6A0358-01) Soil	Sampled: 01/16/06 11:10 1	Received: 01/1	8/06 09:18	Nickesky markenia sklavo tika mendenia GAVO	HAROLINEST I LA SENT DET A MESTENDIÑO	elin panet on la militar mentil di la militar (militar mentil di la militar (militar mentil di la militar (mili	(PEZIO) PET TANBUNGUNGUNG PET PET PET PET PET	anners way capego county year and the test of the test	WANTE CONTRACTOR OF THE CONTRA
Gasoline Range Hydrocarbons	ND	4.88	mg/kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0195	17	11	н	**	11	n	
Toluene	ND	0.0488	11	"	"	11	**	11	
Ethylbenzene .	ND	0.0488	ti .	**	n	11	u	"	
Xylenes (total)	ND	0.0976	H	"	ŧ	11	n	0	
Surrogate: 4-BFB (FID)	91.8 %	50-150			"	п	"	Ħ	
Surrogate: 4-BFB (PID)	102 %	53-142			"	"	"	u	
5533-R1-3 (B6A0358-02) Soil	Sampled: 01/16/06 11:50	Received: 01/1	8/06 09:18		uarranas sussa remenur cultinum in	ely misyelek i dalak indicate ana ang pangangan pangangan pangangan pangangan pangangan pangangan pangangan pa		arrier namunganingus stairinna kuksukssukstussukssukssukssukssukssukssu	
Gasoline Range Hydrocarbons	ND	5.35	mg/kg dry	i	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0214	"	"	11	D .	11	"	
Toluene	ND	0.0535	"	11	11	п	11	11	
Ethylbenzene	ND	0.0535	11	II	Ir	"	u	\$1	
Xylenes (total)	ND	0.107	1)	**	n	n	"	t)	
Surrogate: 4-BFB (FID)	92.5 %	50-150			"	n n	"	n	
Surrogate: 4-BFB (PID)	102 %	53-142			ø	n	"	n	
5533-MW11R-3 (B6A0358-03)	Soil Sampled: 01/16/06 12	2:30 Received	l: 01/18/06 09:18	3	183740001450111001001604038814558		**************************************	ng proposity <u>and announce</u> was proposed the desirable and	CANDARD TO THE WATER OF
Gasoline Range Hydrocarbons	ND	5.03	mg/kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0201	n	11	11	U	If	n	
Toluene	ND	0.0503	n	11	H	11	**	11	
Ethylbenzene	ND	0.0503	n	u	n	27	н	n	
Xylenes (total)	ND	0.101	n	11	н	11	tr	**	
Surrogate: 4-BFB (FID)	91.4%	50-150	- 1.41 U		n	n	"	"	
Surrogate: 4-BFB (PID)	103 %	53-142			n	"	"	11	

North Creek Analytical - Bothell

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.

herin



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509.924.9200 fax 509.924.9290

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2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 Anchorage

907.563.9200 fax 907.563.9210

ENSR-Redmond

9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120

Project Manager: Art Cowburn

Reported:

01/30/06 14:32

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B North Creek Analytical - Bothell

		Reporting				_			Nana
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5533-R2-5 (B6A0358-04) Soil	Sampled: 01/16/06 11:55	Received: 01/18	8/06 09:18	occourance or come to deviable to the	and the second s	an a	gay ayam/arabanaywy		magament manado de contra de 1880a e
Gasoline Range Hydrocarbons	ND	5.04	mg/kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0202	n	н	re .	**	11	н	
Toluene	ND	0.0504	**	11	#	"	n	"	
Ethylbenzene	ND	0.0504	1)	"	11	**	11	"	
Xylenes (total)	ND	0.101	n	n	**	1)		11	
Surrogate: 4-BFB (FID)	93.0 %	50-150			"	n	n	"	
Surrogate: 4-BFB (PID)	101 %	53-142			п	"	n	ii .	
5533-R2-10 (B6A0358-05) Soil	Sampled: 01/16/06 12:05	Received: 01/	18/06 09:18	Particology programme in the desired and the control of the contro		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT			
Gasoline Range Hydrocarbons	ND	4.83	mg/kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0193	11	ıı	U	**	и	tt	
Toluene	ND	0.0483	n	"	n	11	11	"	
Ethylbenzene	ND	0.0483	11	tr	11	b	"	O .	
Xylenes (total)	ND	0.0967	n	11	ıı	11		11	
Surrogate: 4-BFB (FID)	92.8 %	50-150			"	"	"	и	
Surrogate: 4-BFB (PID)	102 %	53-142			"	"	n	п	
5533-R2-15 (B6A0358-06) Soi	I Sampled: 01/16/06 13:30	Received: 01/	/18/06 09:18	annessed year had all the transport of t			<u> </u>		NAME OF THE OWNER, WHICH SHAPE OF THE OWNER,
Gasoline Range Hydrocarbons	ND	4.47	mg/kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0179	11	41	H	II	11	"	
Toluene	ND	0.0447	11	11	11	Ħ	11	11	
Ethylbenzene	ND	0.0447	11	17	"	tr	11	U	
Xylenes (total)	ND	0.0895	р	**	11	11	H	n	
Surrogate: 4-BFB (FID)	91.4 %	50-150			"	н	"	"	
Surrogate: 4-BFB (PID)	101 %	53-142			"	"	"	u .	

North Creek Analytical - Bothell

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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2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210

ENSR-Redmond 9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120 Project Manager: Art Cowburn

Reported: 01/30/06 14:32

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5533-R1-5 (B6A0358-07) Soil	Sampled: 01/17/06 10:20	Received: 01/1	8/06 09:18	DANG GEORGE STATE OF THE STATE	ngg sanggar sarang 2222 naggahikan pagam	ranaminantal ana kakatili Kilili Milili	ragygyyny googaeynagaagaadadaaaadabaada		and the second of the second
Gasoline Range Hydrocarbons	ND	5.19	mg/kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0208	9	**	**	11	ь	ti .	
Toluene	ND	0.0519	n	"	D	"	11	W	
Ethylbenzene	ND	0.0519	4)	п	a	**	II .	11	
Xylenes (total)	ND	0.104	n	11	15	tr	It .	11	
Surrogate: 4-BFB (FID)	90.7 %	50-150			"	"	11	"	
Surrogate: 4-BFB (PID)	101 %	53-142			n	"	"	o	
5533-R1-10 (B6A0358-08) Soil	Sampled: 01/17/06 10:45	Received: 01/	18/06 09:18	20v20-7737-9433-1230-05428-17787-1230-020977	nazora firmo en erro a processa de medica de la composição de la composição de la composição de la composição	inn paytok Çalakı de Silli dake Sila Sila Sila Sila Sila Sila Sila Sila	gas parkygan ng gyyyyy y hilikhin di gillin 1800 1806 (hilikhin di gillin 1800 1806 (hilikhin di gillin 1800 1		-
Gasoline Range Hydrocarbons	ND	4.10	mg/kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0164	ti .	er er	"	10	,,	и	
Toluene	ND	0.0410	n	**	11	11	н	U.	
Ethylbenzene	ND	0.0410	**	17	0	н	11	et .	
Xylenes (total)	ND	0.0820	+17	IT	"	"	11	Ħ	
Surrogate: 4-BFB (FID)	94.7 %	50-150	`		"	u	"	n	
Surrogate: 4-BFB (PID)	104 %	53-142			#	"	"	н	
5533-R1-15 (B6A0358-09) Soil	Sampled: 01/17/06 11:00	Received: 01/	18/06 09:18	en programme de la companya de la c	7771070/NB-1130-47000000000000000	wagayang gay maga maga ga ga mgamalankan mankanka		opolycolycus subdebude alternational transpy and the relative branches of extraordisc and the service and the	nga mangandanak Padip Banda Nadi P
Gasoline Range Hydrocarbons	ND	3.93	mg/kg dry	i	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0157	17	"	п	11	IT	u	
Toluene	ND	0.0393	п	tt	**	II.	n	II	
Ethylbenzene	ND	0.0393	n	11	u	**	11	IT	
Xylenes (total)	ND	0.0786	11	11	п	n	11	88	
Surrogate: 4-BFB (FID)	93.6 %	50-150			"	"	n	n	
Surrogate: 4-BFB (P1D)	103 %	53-142			n	n	"	n	

North Creek Analytical - Bothell

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ENSR-Redmond

9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120

Project Manager: Art Cowburn

Reported:

01/30/06 14:32

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5533-MW11R-5 (B6A0358-10) Soil	Sampled: 01/17/06 12:4:	5 Received	: 01/18/06 09:1	8			NAMES OF THE PERSON OF THE PER	naur gwent y east waare ei feliologiek fallet aan ar steelijk begin ag meen het ek beleef 1820 en 18	<u></u>
Gasoline Range Hydrocarbons	ND	4.33	mg∕kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0173	ii.	"	n	Ħ	11	**	
Toluene	ND	0.0433	**	11	0	"	**	11	
Ethylbenzene	ND	0.0433	tt	n	n	**	31	O	
Xylenes (total)	ND	0.0867	t)	n	"	11	11	п	
Surrogate: 4-BFB (FID)	94.6 %	50-150			"	n	"	n	
Surrogate: 4-BFB (PID)	104 %	53-142			n	"	u	n	
5533-MW11R-10 (B6A0358-11) Soil	Sampled: 01/17/06 12:	55 Receive	d: 01/18/06 09:	18	wysoy gyr prinsery prinside i i i i i i i i i i i i i i i i i i		Market (r) and a second resource dec-		-
Gasoline Range Hydrocarbons	ND	4.32	mg/kg dry	1	6A19014	01/19/06	01/19/06	NWTPH-Gx/8021B	
Benzene	ND	0.0173	11	"	n	11	"	1)	
Toluene	ND	0.0432	n	9	"	11	"	O.	
Ethylbenzene	ND	0.0432	H	11	**	Ħ	11	n	
Xylenes (total)	ND	0.0865	11	n	11	+1	11	11	
Surrogate: 4-BFB (FID)	93.8 %	50-150			"	n	"	n	
Surrogate: 4-BFB (PID)	104 %	53-142			u	#	**	n	

North Creek Analytical - Bothell

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2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210 Anchorage

ENSR-Redmond

9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120

Project Manager: Art Cowburn

Reported:

01/30/06 14:32

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

		Reporting							•
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5533-R2-3 (B6A0358-01) Soil	Sampled: 01/16/06 11:10	Received: 01/1	8/06 09:18	(II.) MANUAL PRINCIPATION PRINCIPAL	~27~ 1 ~2~2~4	DANS THE PARTY OF			
Diesel Range Hydrocarbons	ND	11.8	mg/kg dry	l	6A25048	01/25/06	01/27/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	29.5	31	u	19	11	10	11	
Surrogate: 2-FBP	92.3 %	50-150			"	"	"	u	
Surrogate: Octavosane	106 %	50-150			"	"	u	"	
5533-R1-3 (B6A0358-02) Soil	Sampled: 01/16/06 11:50	Received: 01/1	8/06 09:18	to	ayanyahan ahykan kahinda kahind		grafiggyorpy von en		
Diesel Range Hydrocarbons	ND	11.8	mg/kg dry	i	6A25048	01/25/06	01/27/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	29.6	If .	"	n	н	lr .	tt .	
Surrogate: 2-FBP	98.6 %	50-150			n	и	"	n	
Surrogate: Octacosane	103 %	50-150			"	"	"	n	
5533-MW11R-3 (B6A0358-03	Soil Sampled: 01/16/06	12:30 Received	: 01/18/06 09:	18	NO PERSONAL PROPERTY OF THE PERSONAL PROPERTY	CONTRACTOR OF THE SECOND ASSESSMENT ASSESSME	NAME OF TAXABLE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TAXABLE PARTY.		an sa antita mining a ma n
Diesel Range Hydrocarbons	ND	12.2	mg/kg dry	I	6A25048	01/25/06	01/27/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	30.4		"	н	***	11	11	
Surrogate: 2-FBP	94.6 %	50-150			0	n	"	D	
Surrogate: Octacosane	101 %	50-150			"	"	u	"	
5533-R2-5 (B6A0358-04) Soil	Sampled: 01/16/06 11:55	Received: 01/1	8/06 09:18	22/20/20/20/20/20 /20/20/20/20/20/20/20/20/20/20/20/20/20/		O Taban salah s	raggyggo to san payahangan pakhapat shi to bi da		
Diesel Range Hydrocarbons	ND	11.5	mg/kg dry	1	6A25048	01/25/06	01/27/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	28.7	11	**	**	11	ti.	11	
Surrogate: 2-FBP	99.6 %	50-150			n	"	"	n	
Surrogate: Octacosane	109 %	50-150			II.	11	"	"	
5533-R2-10 (B6A0358-05) Soi	l Sampled: 01/16/06 12:05	S Received: 01/	/18/06 09:18	100-5-2-4-7-4-1-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	***************************************			0.00 (a. 0.0	nagráficas inscrintinas (1888-1888).
Diesel Range Hydrocarbons	ND	11.6	mg/kg dry	1	6A25048	01/25/06	01/27/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	29.0	11		11	,,	II .	tr	
Surrogate: 2-FBP	92.3 %	50-150			"	"	n	n.	
Surrogate: Octacosane	103 %	50-150			"	"	"	н	

North Creek Analytical - Bothell

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ENSR-Redmond

9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120 Project Manager: Art Cowburn

Reported:

01/30/06 14:32

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up

North Creek Analytical - Bothell

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5533-R2-15 (B6A0358-06) Soil	Sampled: 01/16/06 13:30	Received: 01/	18/06 09:18	nere transport (Marie Marie Mari	NO THE PROPERTY OF THE PROPERT	OMERS POR SECURIOR S			CARGO SERVICIO DE LA COMPANSIONA DE LA
Diesel Range Hydrocarbons	ND	10.9	mg/kg dry	1	6A25048	01/25/06	01/27/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	27.3	11	"	11		10		
Surrogate: 2-FBP	97.3 %	50-150			"	"	n .	"	
Surrogate: Octacosane	104 %	50-150			"	"	v	ч	
5533-R1-5 (B6A0358-07) Soil	Sampled: 01/17/06 10:20	Received: 01/1	8/06 09:18	A BOOK OF THE PROPERTY OF THE					
Diesel Range Hydrocarbons	ND	11.4	mg/kg dry	1	6A25048	01/25/06	01/28/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	28.6	"	"	11	n	11	11	
Surrogate: 2-FBP	95.1 %	50-150			**	"	n	n	
Surrogate: Octacosane	103 %	50-150			"	"	n	n	
5533-R1-10 (B6A0358-08) Soil	Sampled: 01/17/06 10:45	Received: 01/	18/06 09:18		O TOTAL STATE OF THE PARTY OF T	······································		and an analysis of the second	
Diesel Range Hydrocarbons	ND	11.1	mg/kg dry	1	6A25048	01/25/06	01/28/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	27.7	11	и	п		tt .	n	
Surrogate: 2-FBP	97.6 %	50-150			"	a	n	n	
Surrogate: Octacosane	105 %	50-150			**	n	"	n	
5533-R1-15 (B6A0358-09) Soil	Sampled: 01/17/06 11:00	Received: 01/	18/06 09:18		zacnoworz nanoma nagłobia wysodolokie i be	tanako esta aneman penerakono (appoykaria)	1. 22 THE ROLL OF THE PARTY.	essensens y sen en en schemelhein behelde behelde blich de Victoria (de Victoria).	
Diesel Range Hydrocarbons	ND	11.0	mg/kg dry	1	6A25048	01/25/06	01/28/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	27.4	11	"	11	,,	11	+1	
Surrogate: 2-FBP	96.8 %	50-150			11	"	n	n	
Surrogate: Octavosane	107 %	50-150			"	n	n	n	
5533-MW11R-5 (B6A0358-10)	Soil Sampled: 01/17/06 i	2:45 Received	1: 01/18/06 09	:18					**************************************
Diesel Range Hydrocarbons	ND	11.5	mg/kg dry	1	6A25048	01/25/06	01/28/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	28.7	11	11	11	,,	0	H	
Surrogate: 2-FBP	97.4 %	50-150			"	n	n	n	
Surrogate: Octacosane	104 %	50-150			п	n	"	н	

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Anchorage

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907.563.9200 fax 907.563.9210

ENSR-Redmond 9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533 Project Number: 06940-367-120 Project Manager: Art Cowburn

Reported:

01/30/06 14:32

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

TOOLOGY AND ALTER SPECIFICATION STATE AND ADDRESS OF THE SECOND STATE ADDRESS OF THE SECOND STATE AND ADDRESS OF THE SECOND STATE ADDRESS		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5533-MW11R-10 (B6A0358-11) Soil	Sampled: 01/17/06 12:5	5 Receive	i: 01/18/06 09	:18	«·////			, inganyawan wai (2015). Di wai gama ngaya mpamay inanday idib 7 babi hi didi Karli	ENDAMENTALISMAN (MANA) NEW YORK (MANA) NEW YOR
Diesel Range Hydrocarbons	ND	11.0	mg/kg dry	1	6A25048	01/25/06	01/28/06	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	27.5		11	11	H	11	н	
Surrogate: 2-FBP	88.8 %	50-150			"	n	n	"	
Surrogate: Octacosane	102 %	50-150			"	n	n	n	

North Creek Analytical - Bothell

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2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210

ENSR-Redmond

9521 Willows Road NE

Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120

Project Manager: Art Cowburn

Reported:

01/30/06 14:32

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

	gricory di telebrito y color di 1944 di 1944 de 1940 e 1941 (1945 i 1945	Reporting		79779 CONTRACTOR OF THE CONTRA	ragy yang taman pagaman nagyy shake ne ndeembele	Anna Anna Anna Anna Anna Anna Anna Anna			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5533-R2-3 (B6A0358-01) Soil	Sampled: 01/16/06 11:10	Received: 01/18	8/06 09:18	and the state of t	Down Company of the C	TOWNS TO THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER O	personal and control of the chief		уууушин из алгандаг болгоо бою байг
Dry Weight	83.8	1.00	%	1	6A26056	01/26/06	01/27/06	BSOPSPL003R08	
5533-R1-3 (B6A0358-02) Soil	Sampled: 01/16/06 11:50	Received: 01/18	8/06 09:18	p. 20. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1	hayan kapan ji kur ka ki ki ki sa ka		oning the control of		AND THE RESIDENCE OF THE PARTY OF
Dry Weight	83.1	1.00	%	1	6A26056	01/26/06	01/27/06	BSOPSPL003R08	
5533-MW11R-3 (B6A0358-03)	Soil Sampled: 01/16/06 12	2:30 Received	: 01/18/06 09	:18	ong a same and a same and a same and a same and a same	enyersygesygeddia n di an 1913-11-11-11-11-11	www.ye.gov.gov.gov.gov.gov.gov.gov.gov.gov.gov		
Dry Weight	81.3	1.00	%	l	6A26056	01/26/06	01/27/06	BSOPSPL003R08	
5533-R2-5 (B6A0358-04) Soil	Sampled: 01/16/06 11:55	Received: 01/1	8/06 09:18	aggresses die wiede Australia (C) (C)	CANADA TARAN MANAGA	***************************************	novement de la Maria de la		
Dry Weight	85.7	1.00	%	1	6A26056	01/26/06	01/27/06	BSOPSPL003R08	
5533-R2-10 (B6A0358-05) Soil	Sampled: 01/16/06 12:05	Received: 01/	18/06 09:18		····		**************************************		
Dry Weight	86.0	1.00	%	•	6A26056	01/26/06	01/27/06	BSOPSPL003R08	
5533-R2-15 (B6A0358-06) Soil	Sampled: 01/16/06 13:30	Received: 01/	18/06 09:18	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN POSSIBLE OF THE PERSON NAMED IN POSSIBLE OF THE PERSON NAMED IN	en en en parecia (e) de la colo d	TOPAGE OF SURE OF THE SURE OF THE SURE			K SK konference programme 2 skoots
Dry Weight	90.0	1.00	%	i	6A26056	01/26/06	01/27/06	BSOPSPL003R08	
5533-R1-5 (B6A0358-07) Soil	Sampled: 01/17/06 10:20	Received: 01/1	8/06 09:18		WEDLY AND THE STREET	1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (1975 (MIRTONO DE CONTROL SERVIÇÃO (A SERVIÇÃO NO DE PRODUCTO DE CONTROL DE MIRTONO DE CONTROL	odro m kadinia anama ranya mengeniah
Dry Weight	87.5	1.00	%	1	6A26056	01/26/06	01/27/06	BSOPSPL003R08	•
5533-R1-10 (B6A0358-08) Soil	Sampled: 01/17/06 10:45	Received: 01/	18/06 09:18			DAMA FILL HER SELVINIA STATE OF THE SELVINIA	7	verDuidfaleQuidfor(FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	water of the state
Dry Weight	89.9	1.00	%	1	6A26056	01/26/06	01/27/06	BSOPSPL003R08	
5533-R1-15 (B6A0358-09) Soi	l Sampled: 01/17/06 11:00	Received: 01/	18/06 09:18	****	error and an orange of the control o		Marketter (12/11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1		onggarannour minet til till til till til til til til til
Dry Weight	89.7	1.00	%	1	6A26056	01/26/06	01/27/06	BSOPSPL003R08	

North Creek Analytical - Bothell

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503,906,9200 fax 503,906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383,9310 fax 541.382.7588

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210

ENSR-Redmond 9521 Willows Road NE

Project: UNOCAL #5533 Project Number: 06940-367-120

Reported: 01/30/06 14:32

Redmond, WA 98052

Project Manager: Art Cowburn

Physical Parameters by APHA/ASTM/EPA Methods

North Creek Analytical - Bothell

ANT COLOR DESCRIPTION OF THE PROPERTY OF THE P	d Martinement of the security of the desirates and the security of the securit	Reporting	NAME OF THE PERSON OF THE PERS	CONTRACTOR OF THE PARTY OF	Nacional Association (National Association (.VCVPRONENTATION CONTRACTOR	ayyeaneekyrkeaniisiaanii taalii Tiisii Ti		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MATERIA (A CANTALLE STEEN AND AND AND AND AND AND AND AND AND AN	HALL COLOR AND	aggregative of the desired state of the stat		ennys; muneumayluddistort:	atternation of the state of the	ese presentativo di constituita di la constituit	779 <u>122312-19-19-19-19-19-19-19-19-19-19-19-19-19-</u>	vouvoi Companio Comp	error and the property and the same of the
5533-MW11R-5 (B6A0358-10) Soil	Sampled: 01/17/06 12:45	Received:	01/18/06 09:1	8	AND THE PROPERTY OF THE PROPERTY OF	area de Sont Miller III de la companya de la compa			
Dry Weight	86.5	1.00	%	ı	6A26056	01/26/06	01/27/06	BSOPSPL003R08	
5533-MW11R-10 (B6A0358-11) Soil	Sampled: 01/17/06 12:55	Received	1: 01/18/06 09:	18		·	THE THE PERSON OF THE PERSON O		
Dry Weight	89,7	1.00	%	1	6A26056	01/26/06	01/27/06	BSOPSPL003R08	

North Creek Analytical - Bothell

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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

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210

ENSR-Redmond

9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120 Project Manager: Art Cowburn

Reported:

01/30/06 14:32

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

CHANGE PROMISED THE BUT CHANGE TO COMMUNICATE AND THE PROMISED TO SEED THE CHANGE TO CHANGE THE CHANGE THE PROMISE AND THE CHANGE TH	уданнуучуу инининин үсө казат өтий колотоо колотоо өтөөсө соод Агтог II са өг	Reporting	er randado y Candillo al Pe le 1786 e e e e e e e e e e e e e e e e e e e	Spike	Source	aaminikand san sinarah direntariya.	%REC	A LIPPORTO DE LIPPORTO DE LA COMPONIO	RPD	ALLONDON OF THE PARTY OF THE PA
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6A19014: Prepared 01/19/06	Using EPA 503	0B (P/T)	The second secon			one programme and more than the production	inggany grangangangany (Strandar/FUTA/F	7945-11110174-JANGSTONESS/A	13333434444444444444444444444444444444	*(*) ****/
Blank (6A19014-BLK1)										### W
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet							
Benzene	ND	0.0200	"							
Toluene	ND	0.0500	p+							
Ethylbenzene	ND	0.0500	11							
Xylenes (total)	ND	0.100	11							
Surrogate: 4-BFB (FID)	2.69		"	3.00		89.7	50-150			
Surrogate: 4-BFB (PID)	3.01		n	3.00		100	53-142			
LCS (6A19014-BS1)										
Gasoline Range Hydrocarbons	50.7	5.00	mg/kg wet	50.0		101	75-125			
Benzene	0.587	0.0200	**	0.565		104	75-125			
Toluene	3.64	0.0500	11	4.22		86.3	75-125			
Ethylbenzene	0.783	0.0500	**	0.848		92.3	75-125			
Xylenes (total)	4.19	0.100	и	4.92		85.2	75-125			
Surrogate: 4-BFB (FID)	3.25		H	3.00		108	50-150			
Surrogate: 4-BFB (PID)	2.94		n	3.00		98.0	53-142			
LCS Dup (6A19014-BSD1)										
Gasoline Range Hydrocarbons	51.9	5.00	mg/kg wet	50.0		104	75-125	2.34	25	
Benzene	0.616	0.0200	н	0.565		109	75-125	4.82	25	
Toluene	3.83	0.0500	"	4.22		90.8	75-125	5.09	25	
Ethylbenzene	0.821	0.0500	11	0.848		96.8	75-125	4.74	25	
Xylenes (total)	4.40	0.100	Ħ	4.92		89.4	75-125	4.89	25	
Surrogate: 4-BFB (FID)	3.21		n	3.00		107	50-150			
Surrogate: 4-BFB (P1D)	2.95		"	3.00		98.3	53-142			
Matrix Spike (6A19014-MS1)					Source: Be	5A0358-01				
Gasoline Range Hydrocarbons	49.6	4.88	mg/kg dry	48.8	0.543	101	42-125			
Benzeno	0.601	0.0195	It	0.551	ND	109	45-125			
Toluene	3.71	0.0488	0	4 12	0.0130	89.7	55-125			
Ethylbenzene	0,793	0 0488	"	0.827	0.00629	95.1	53-132			
Xylenes (total)	4.26	0.0976	11	4.81	0.0275	0.88	59-125			
Surrogate: 4-BFB (FID)	3,06		"	2.93		104	50-150			
Surrogate: 4-BFB (PID)	2.87		υ	2.93		98.0	53-142			

North Creek Analytical - Bothell

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Source

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 Anchorage

%REC

907.563.9200 fax 907.563.9210

ENSR-Redmond

9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Reporting

Project Number: 06940-367-120

Spike

Project Manager: Art Cowburn

Reported:

01/30/06 14:32

RPD

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6A19014: Prepared 01/19/06	Using EPA 5030	0B (P/T)	BOTTOTT POTTE IN SOUTH BOTTO BOTTO SOUTH FOR	wayyeen alka aa a	CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	ng vyo god po jamen popular po	egygops (mantatabansanasi harin		CANATA MATERIA COMPANIA MATERIA	ersysystemicaeroccaelicario et Cele Cylesco
Matrix Spike Dup (6A19014-MSD1)					Source: B6	A0358-01				
Gasoline Range Hydrocarbons	49.6	4.88	mg/kg dry	48.8	0.543	101	42-125	0.00	40	
Benzene	0.614	0.0195	11	0.551	ND	111	45-125	2.14	40	
Toluene	3.79	0.0488	15	4.12	0.0130	91.7	55-125	2.13	40	
Ethylbenzene	0.807	0.0488	и	0.827	0.00629	96.8	53-132	1.75	40	
Xylenes (total)	4,34	0.0976	11	4.81	0.0275	89.7	59-125	1.86	40	
Surrogate: 4-BFB (FID)	3.08		ı	2.93		105	50-150			
Surrogate: 4-BFB (PID)	2.93		"	2.93		100	53-142			

North Creek Analytical - Bothell

Jeff Gerdes, Project Manager

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Redmond, WA 98052

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

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 Anchorage 07.563.9200 fax 907.563,9210

Project: UNOCAL #5533 ENSR-Redmond 9521 Willows Road NE

Project Number: 06940-367-120 Project Manager: Art Cowburn

Reported:

01/30/06 14:32

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

\$64.400000000000000000000000000000000000		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6A25048: Prepared 01/25/06	Using EPA 3550	В	ody-sakodalkky cykledyddwylarfysgwyraeganau albollofywy	anggoografia markobilishi k	a), y een weganing agame CV ette, een	21,5509,14209grammycanabachdachdachda	NO SERVICE STREET, STREET, STREET, AND SERVICE STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,		OTHER DESIGNATION OF THE PERSON OF THE PERSO	nery de excelument didministrative (1774/1587). A service
Blank (6A25048-BLK1)										
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydrocarbons	ND	25.0	**							
Surrogate: 2-FBP	8.27		"	8.33		99.3	50-150			
Surrogate: Octacosane	8.61		n	8.33		103	50-150			
LCS (6A25048-BS1)	·						,,			
Diesel Range Hydrocarbons	69.1	10.0	mg/kg wet	66.7		104	61-120			
Lube Oil Range Hydrocarbons	55.4	25.0	11	66.7		83.1	50-150			
Surrogate: 2-FBP	9.06		"	8.33		109	50-150			
Surrogate: Octacosane	9.14		"	8.33		110	50-150			
Duplicate (6A25048-DUP1)					Source: B	6A0358-01				
Diesel Range Hydrocarbons	ND	11.8	mg/kg dry		ND			50,7	50	Q-0
Lube Oil Range Hydrocarbons	ND	29.4	#		ND			26.8	50	
Surrogate: 2-FBP	9.50	,	"	9.81		96.8	50-150			
Surrogate: Octacosane	10.4		u	9.81		106	50-150			
Matrix Spike (6A25048-MS1)					Source: B	6A0358-01				
Diesel Range Hydrocarbons	81.5	11.8	mg/kg dry	78.5	3.81	99.0	45-144			
Lube Oil Range Hydrocarbons	78.3	29.4	11	78.5	7.21	90.6	50-150			
Surrogate: 2-FBP	10.1		0	9.81		103	50-150			
Surrogate: Octavosane	11.2		н	9.81		114	50-150			

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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588 8end

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210 Anchorage

ENSR-Redmond 9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533 Project Number: 06940-367-120 Project Manager: Art Cowburn

Reported: 01/30/06 14:32

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

North Creek Analytical - Bothell

		R	eporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
ASSESSMENT OF THE PROPERTY OF	THE PROPERTY OF THE PROPERTY O	MARTINE PROPERTY OF THE PROPER	West Annual Property and American State of the Control of the Cont	ENGINEER DESCRIPTION OF THE PROPERTY OF THE	NO NO ACCOMPANSABLE DESCRIPTION OF	A CANADA MANAGA	very Mandalest Add of Managers	***********************	and the second s		The state of the s
Batch 6A26056:	Prepared 01/26/06	Using Dry Weight									

Blank (6A26056-BLK1)

Dry Weight 100

1.00

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ENSR-Redmond

9521 Willows Road NE Redmond, WA 98052

Project: UNOCAL #5533

Project Number: 06940-367-120

Project Manager: Art Cowburn

Reported:

01/30/06 14:32

Notes and Definitions

Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit. Q-06

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

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UNOCAL #5533/PENNOCK LYNNWOOD LUST 1696 16404 36

16404 36TH AVE W FILE 2 OF 4



1696/8450

SEE ALSO: TEXACO #8450 UST 3888





Garbush, Gayle (ECY)

From: Erickson, Rachael (ECY)

Sent: Tuesday, December 13, 2005 3:35 PM

To: Skog, Carla; Davis, Tara; Garbush, Gayle (ECY)

Cc: Pederson, Carrie

Subject: RE: Duplicate UST, LUST, & F/S, UNOCAL Stn 5533 at 16404 & 16405 - 36th Ave W, Lynnwood

Done.

----Original Message-----

From: Skog, Carla

Sent: Monday, December 12, 2005 5:03 PM

To: Davis, Tara; Garbush, Gayle (ECY); Erickson, Rachael (ECY)

Cc: Pederson, Carrie

Subject: RE: Duplicate UST, LUST, & F/S, UNOCAL Stn 5533 at 16404 & 16405 - 36th Ave W, Lynnwood

The 4 cleanup reports have been moved to LUST 1696.

Rachael--please delete FS 43294423. Do not merge any of the data. Thanks.

Gayle's original request...The F/S # that I want <u>deleted</u> has only UST/LUST interactions, <u>no other programs involved</u>.

Please merge, moving 4 cleanup reports from LUST 2402 to LUST 1696.

- F/S 43294423 UNOCAL STATION 5533 PENNOCK (<u>Delete</u> this one) (UST 200441, LUST 2402)
- F/S 74865182 UNOCAL SS No 5533 (has UBI #) (<u>Keep this one</u>) (UST 8450, LUST 1696 & LUST 3880)

The F/S # that I want <u>deleted</u> has only UST/LUST interactions, <u>no other programs</u> involved.

Carrie Pederson & I have reviewed the records and we agree that:

- UST 200441 is a duplicate of UST 8450.
- LUST 2402 is a duplicate of LUST 1696.
- F/S 43294423 is a duplicate of F/S 74865182
- F/S, UST & LUST that we are <u>keeping</u> already have <u>correct</u> site address, <u>16404</u> 36th Ave W, Lynnwood.

Carla, in merging the USTs/LUSTs:

- move 4 Cleanup Reports from LUST 2402 to LUST 1696
- do not save Tank info from UST 200441
- do not save Affiliation info from UST 200441

From: Davis, Tara

Sent: Thursday, December 08, 2005 1:54 PM

To: Garbush, Gayle (ECY)

Cc: Skog, Carla; Pederson, Carrie

Subject: RE: Duplicate UST, LUST, & F/S, UNOCAL Stn 5533 at 16404 & 16405 - 36th Ave W, Lynnwood

Gayle~

True....my apologies! She couldn't have created this site as it's too old of a number for her to have done that.....but I find it odd that so many (especially the 200 thousand series of) file numbers that were created as dups, is all??? I'm not catching on to some history of Why's and WHATnots of the past, I guess??? At least you guys are finding them now!

Sorry, I wasn't meaning to blame anyoneit's just odd why TANK info was being put in when there weren't ever any tanks to begin with??? I think I'm going to just stick to UST and leave LUST to you and Carrie! Phew!

Thanks

----Original Message-----

From: Garbush, Gayle (ECY)

Sent: Thursday, December 08, 2005 10:46 AM

To: Davis, Tara

Cc: Skog, Carla; Pederson, Carrie

Subject: RE: Duplicate UST, LUST, & F/S, UNOCAL Stn 5533 at 16404 & 16405 - 36th Ave W, Lynnwood

Clarification - Karen Backman did NOT create the UST site. She just reviewed UST/LUST files for UST sites in USTBase that did not have any tank info. Then she added tank info.

Gayle G.

----Original Message----

From: Davis, Tara

Sent: Thursday, December 08, 2005 9:14 AM

To: Garbush, Gayle (ECY)

Cc: Skog, Carla; Pederson, Carrie

Subject: RE: Duplicate UST, LUST, & F/S, UNOCAL Stn 5533 at 16404 & 16405 - 36th Ave

W, Lynnwood

Gayle~

This was a good call! Thank you, Karen Backman for some reason created a lot of sites like this. I believe she was asked to go through some old paperwork that little or no information...so unfortunately there are many sites left like this...

Good catch you two!

----Original Message----

From: Garbush, Gayle (ECY)

Sent: Wednesday, December 07, 2005 2:56 PM

To: Davis, Tara

Cc: Skog, Carla; Pederson, Carrie

Subject: Duplicate UST, LUST, & F/S, UNOCAL Stn 5533 at 16404 & 16405 - 36th

Ave W, Lynnwood

Tara, it looks like LUST 2402 was created in response to ERTS N5010 back in 1991.

The home owners across the street from UNOCAL were complaining that UNOCAL's contamination had migrated to their residential property at 16405 36th Ave W. This goes against our standard business practice of LUST listing the source site only.

<u>Please merge</u>, moving 4 cleanup reports from LUST 2402 to LUST 1696.

F/S 43294423 UNOCAL STATION 5533 PENNOCK (<u>Delete</u> this one)
 (UST 200441, LUST 2402)

F/S 74865182 UNOCAL SS No 5533 (has UBI #) (<u>Keep this one</u>)

(UST 8450, LUST 1696 & LUST 3880)

The F/S # that I want <u>deleted</u> has only UST/LUST interactions, <u>no other programs involved</u>.

Carrie Pederson & I have reviewed the records and we agree that:

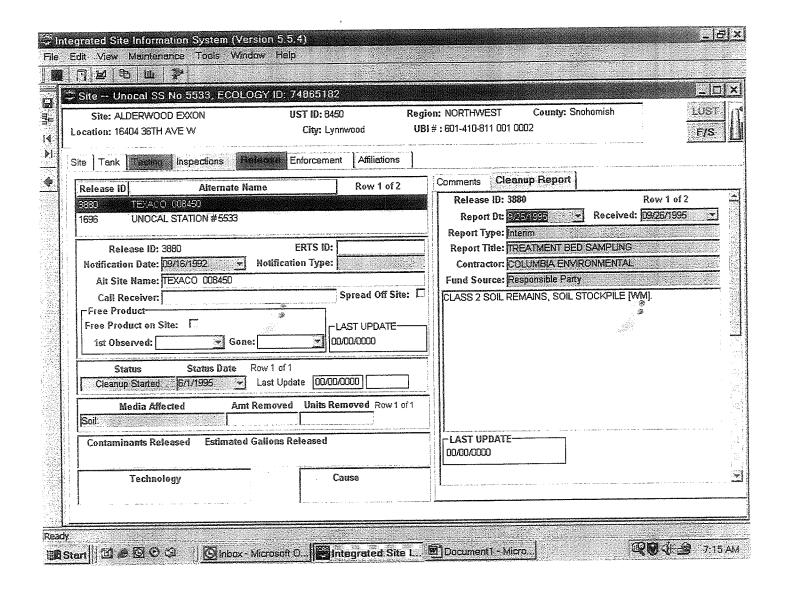
- UST 200441 is a duplicate of UST 8450.
- LUST 2402 is a duplicate of LUST 1696.
- F/S 43294423 is a duplicate of F/S 74865182
- F/S, UST & LUST that we are <u>keeping</u> already have <u>correct</u> site address, <u>16404</u> 36th Ave W, Lynnwood.

Carla, in merging the USTs/LUSTs:

- move 4 Cleanup Reports from LUST 2402 to LUST 1696
- do not save Tank info from UST 200441
- do not save Affiliation info from UST 200441

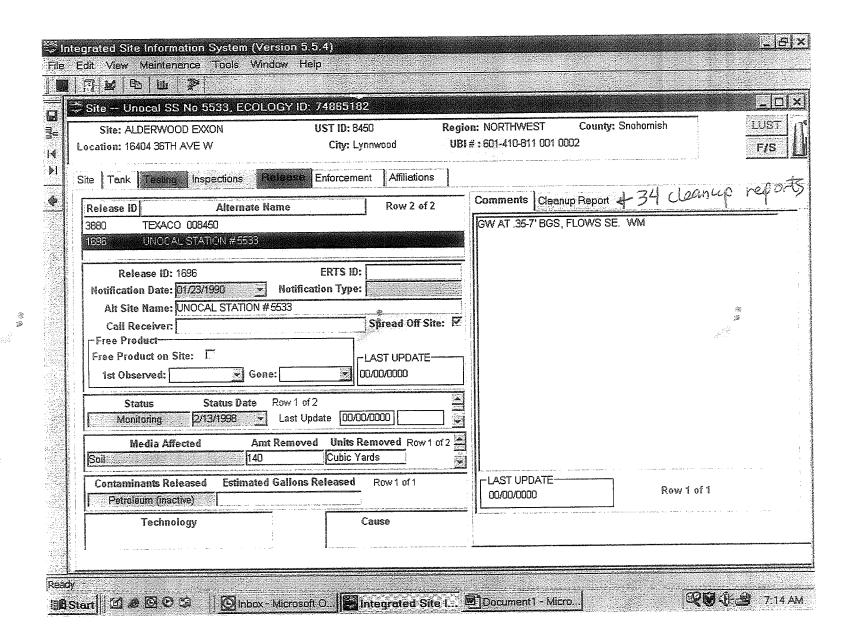
Thank you!!!

Gayle G. NWRO TCP



-00

F15 Interactions History UST, LUST, HWTR (HWG, TIERZ)

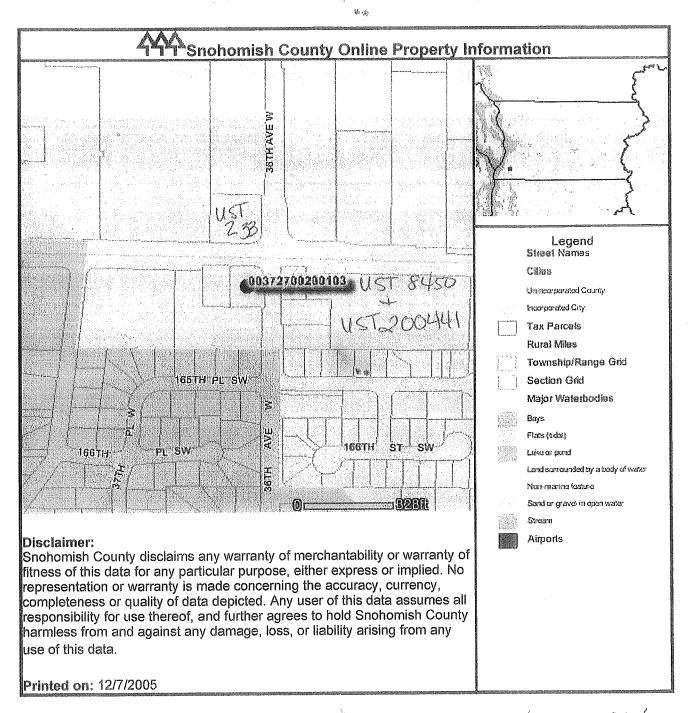


F15 Interactions History UST&LUST - No other programs

No tank info that until Karen Backman created one Removed tank

	ATION #5533 PENNOCK	UST ID: 200441 City: Lynnwood	Region: NORTHWi UBI#:	EST County: Snohomis	th LUST
Site Tank Testing	Inspections Materia	Enforcement Affilia	and a second	Tarres 120 1.771	-4 cleanup re
Release ID 2492 UNDOA	Alternate Name L STATION #5533 PENNO	Row '	of 1 Comments	Cleanup Report	
					!
Release ID: 1 Notification Date:		ERTS ID: fication Type:			
	JNOCAL STATION #5533				
Call Receiver:		Spread 0	ff Site: 🗷		3
Free Product on S	ite: 🔽 🎉	r-LAST UPD	ATE	20 m	
1st Observed: 7/	30/2005 💽 Gone:	12/06/2005	CMCD461		
Status	Status Date Row				
Cleanup Started		Update 00/00/0000	STORE		
Media Affi Soil	cted Amt Rem	oved Units Removed R	ow 1 of 2		
Contaminants Rei	eased Estimated Gallo	ns Released Row 1 of	200		
Xylenes					
1	ogy	Cause	L		

BTEX



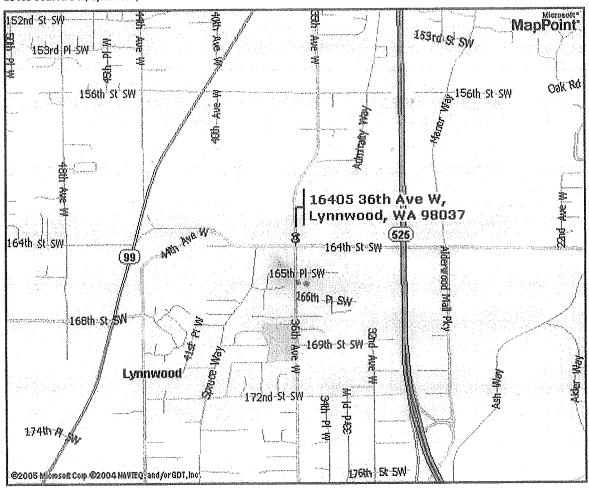
UST 200441 LO405 30th are W, Lynnwood
UST 200441 LO405 30th are W, Lynnwood

J MMK possibly a duplicate site



±±± Featuring Microsoft® ‡‡‡ MapPoint® Technology

16405 36th Ave W, Lynnwood, WA 98037



Your right to use maps and routes generated on the MSN service is subject at all times to the MSN Terms of Use. Data credits, copyright, and disclaimer.

Pederson, Carrie

From:

Olson, Karen [karen.olson@co.snohomish.wa.us]

Sent:

Tuesday, December 06, 2005 4:33 PM

To:

Pederson, Carrie

Subject: RE: Request

Carrie:

The owner name and address is SK EXXON LLC, 16404 36TH AVE W, LYNNWOOD, WA 98037. We do have a slightly different address on our records which is 16404 but it should be the one you are looking for.

Karen Olson

Public Information Coordinator

Snohomish County Assessor's Department

----Original Message-----From: Contact Assessor

Sent: Tuesday, December 06, 2005 4:07 PM

To: Olson, Karen Subject: FW: Request

----Original Message----

From: contact@co.snohomish.wa.us [mailto:contact@co.snohomish.wa.us]

Sent: Tuesday, December 06, 2005 3:27 PM

To: Contact Assessor Subject: Request



Assessor Department Email Request

Contact Name

Mr. Carrie Pederson

Contact Phone

(425)649-7254

Contact Email

cmcd461@ecy.wa.gov

Contact Parcel#

no parcel number

Address

16405 36th Avenue West

Lynnwood, WA 98037

Contact By

contact by email

Message

I am looking for the name & mailing address of the taxpayer for this site. This site was a Unocal Station owned by Joe Pennock. Thank you for your help. I did try this on the website with no success.

Email sent on 12/6/2005 3:26:31 PM Confirmation Number is 9121

DEPARTMENT OF ECOLOGY -- TOXICS CLEANING PROGRAM IN LIGRATED SITE INFORMATION SYLTEM LEAKING UNDERGROUND STORAGE TANK DATA SUMMARY

CLEANUP REPORT INFORMATION---

REPORT NAME: RESULTS OF GW SAMPLING 5/96

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

REPORT DT: 8/20/1996

RECEIVED DT: 8/21/1996

CLEANUP REPORT INFORMATION

REPORT NAME: RESULTS OF GW MONITORING AND SAMPLING NOV 96

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

REPORT DT: 2/10/1997

RECEIVED DT: 2/12/1997

THIS SITE INVOLVES MONITORING A NEARBY AFFECTED SITE (PENNOCK PROPERTY) LUST #2402. BTEX AND GASOLINE GENERALLY LOWER. WM

CLEANUP REPORT INFORMATION

REPORT NAME: RESULTS OF GW MONITORING JUL 97

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

REPORT DT: 11/12/1997

RECEIVED DT: 11/12/1997

CLEANUP REPORT INFORMATION-

REPORT NAME: RESULTS OF GW MONITORING AND SAMPLING 12/97

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

REPORT DT: 2/13/1998

RECEIVED DT: 2/18/1998

BTEX COMPONENTS AND/OR TPH-G CONCENTRATIONS EXCEED MTCA METHOD A LEVELS IN MW-7, MW-8, MW-12, MW-13, AND HB-1. DTG SHALLOW: 8.25-6.44'. ADJACENT PROPERTY ALSO CONTAMINATED AND IS REFERENCED AS LUST #2402 (PENNOCK PROPERTY) SB. 2/24/98

CLEANUP REPORT INFORMATION

REPORT NAME: RESULTS OF GW MONITORING AND SAMPLING 6/98

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

REPORT DT: 8/4/1998 RECEIVED DT: 8/5/1998

GW FLOWS SE. CONTAMINATION OFFSITE. MW-7, 8, 12, 13 AND HB-1 ABOVE MTCA A. SB/NWRO 10/27/98.

CLEANUP REPORT INFORMATION-

REPORT NAME: RESULTS OF GW MONITORING & SAMPLING - DEC 98

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

MW-2, -3, -4, -5 ABANDONED. MW-8 & -12 EXCEED MTCA A. GW FLOWS SSW. (SB-NWRO-2/8/99) GG-NWRO-4/12/99.

CLEANUP REPORT INFORMATION-

REPORT NAME: JUNE 1999 SEMIANNUAL GW MONITORING

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: GW Monitoring

REPORT DT: 7/9/1999

REPORT DT: 1/25/1999

RECEIVED DT: 1/26/1999

RECEIVED DT: 7/12/1999

MW'S 7, 12, 13, & HB-1 SHOW TPH & BTEX SIGNIFICANTLY ABOVE MTCA METHOD "A" STANDARDS. MW'S 8 & 16 SHOW BENZENE ABOVE MTCA METHOD "A"

STANDARDS, WELLS WERE PURGED PRIOR TO SAMPLING. SEK-NWRO 7/21/99

CLEANUP REPORT INFORMATION-

REPORT NAME: DEC 99 SEMI-ANNUAL GW MONITORING

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

REPORT DT: 1/24/2000

RECEIVED DT: 1/25/2000

SHALLOW GW @ 0-15' BELOW CASING RIM. MW'S 7, 12, 13, & HB-1 EXCEED MTCA A. GW FLOWS EAST. CONTAM OFF-SITE. (SB-NWRO-3/13/00) GG-NWRO-3/21/00

DEPARTMENT OF ECOLOGY -- TOXICS CLEANING PROGRAM IN LIGRATED SITE INFORMATION SYNTEM

LEAKING UNDERGROUND STORAGE TANK DATA SUMMARY

CLEANUP REPORT INFORMATION

REPORT NAME:

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

REPORT DT: 1/28/1994

RECEIVED DT: 1/28/1994

CLEANUP REPORT INFORMATION

REPORT NAME: MMM **CONTRACTOR NAME: GEOENGINEERS**

CLEANUP RPT TYPE: Interim

REPORT DT: 1/9/1995

RECEIVED DT: 1/10/1995

CLEANUP REPORT INFORMATION-

REPORT NAME: MMM

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

REPORT DT: 7/26/1994

RECEIVED DT: 7/27/1994

PROGRESS REPORT NO 4 GROUND WATER SAMPLING AND TESTING JUNE 1994

CLEANUP REPORT INFORMATION

REPORT NAME: MMM

REPORT DT: 9/23/1994 CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

RECEIVED DT: 9/26/1994

PROGRESS REPORT NO 5 GROUND WATER SAMPLING AND TESTING AUGUST 1994

CLEANUP REPORT INFORMATION-

REPORT NAME: MMM

REPORT DT: 3/20/1995

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

RECEIVED DT: 4/3/1995

PROGRESS REPORT NO 7 GROUND WATER SAMPLING AND TESTING FEBRUARY 1995 GW LEVELS GENERALLY INCREASED; BETX INCREASED MW-6 [RPT 3/30/95-WM]

CLEANUP REPORT INFORMATION-

REPORT NAME: OBSERVATION AND DOCUMENTATION OF REMEDIAL EXCAVATION

CONTRACTOR NAME: GEOENGINEERS

REPORT DT: 7/6/1995 RECEIVED DT: 7/7/1995

CLEANUP RPT TYPE: Interim

PCS REMAINS, ALSO PCS REMAINING PROPERTY TO E; GW AT 6-8' BGS, FLOW ESE. COMPLICATIONS FROM SEPARATE RELEASES BY 2 PARTIES, UNOCAL AND

TEXACO [WM].

CLEANUP REPORT INFORMATION

REPORT NAME: MMM

REPORT DT: 7/6/1995

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

RECEIVED DT: 7/7/1995

CLEANUP REPORT INFORMATION-

REPORT NAME: VAPOR EXTRACTION WELL INSTALLATION

CONTRACTOR NAME: COLUMBIA

CLEANUP RPT TYPE: Interim

REPORT DT: 1/19/1996 RECEIVED DT: 1/22/1996

INSTALLED 2 VAPOR EXTRACTION WELLS[JB].

DEPARTMENT OF ECOLOGY - TOXICS CLEAN P PROGRAM IN . GRATED SITE INFORMATION SYSTEM LEAKING UNDERGROUND STORAGE TANK DATA SUMMARY

LEAKING UNDERGROUND STORAGE TANK DATA SUIVINARY				
CLEANUP REPORT INFORMATION				
REPORT NAME:	REPORT DT: 9/10/1991			
CONTRACTOR NAME:	RECEIVED DT: 9/10/1991			
CLEANUP RPT TYPE: Interim				
CLEANUP REPORT INFORMATION				
REPORT NAME:	REPORT DT: 9/20/1991			
CONTRACTOR NAME:	RECEIVED DT: 9/20/1991			
CLEANUP RPT TYPE: Interim				
CLEANUP REPORT INFORMATION				
REPORT NAME:	REPORT DT: 11/6/1991			
CONTRACTOR NAME:	RECEIVED DT: 11/6/1991			
CLEANUP RPT TYPE: Interim				
CLEANUP REPORT INFORMATION				
REPORT NAME:	REPORT DT: 1/17/1992			
CONTRACTOR NAME:	RECEIVED DT: 1/17/1992			
CLEANUP RPT TYPE: Interim				
CLEANUP REPORT INFORMATION	REPORT DT: 5/6/1992			
REPORT NAME:	RECEIVED DT: 5/6/1992			
CONTRACTOR NAME:	REGEIVED D1. 5/6/1992			
CLEANUP RPT TYPE: Interim				
CLEANUP REPORT INFORMATION				
REPORT NAME:	REPORT DT: 8/6/1992			
CONTRACTOR NAME:	RECEIVED DT: 8/6/1992			
CLEANUP RPT TYPE: Interim				
CLEANUP REPORT INFORMATION				
REPORT NAME:	REPORT DT: 2/2/1993			
CONTRACTOR NAME:	RECEIVED DT: 2/2/1993			
CLEANUP RPT TYPE: Interim				
CLEANUP REPORT INFORMATION	REPORT DT: 8/20/1993			
REPORT NAME:	RECEIVED DT: 8/20/1993			
CONTRACTOR NAME:	INCLIPED DI. 0/20/1990			
CLEANUP RPT TYPE: Interim				
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DEPARTMENT OF ECOLOGY -- TOXICS CLEANING PROGRAM INTEGRATED SITE INFORMATION SYSTEM LEAKING UNDERGROUND STORAGE TANK DATA SUMMARY

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SITE ID: 8450				
ALDERWOOD E	XXON		OPERATIONAL TANK(s):	,
16404 36TH AVE W		• -	ACTIVE LUST @ SITE:	12/7/2005
LYNNWOOD, WA 9	8037		7.01172 2001 @ 0112.	
COUNTY: Snohomis	h	FS ID: 74865182		
RELEASE INFORMA	ATION			and an analysis of the Combact of Artificial State of the Combact
RELEASE ID: 16	96 ALT NA	ME: UNOCAL STATION # 5533		IS THIS RELEASE CLEAN?:
NOTIFICATION D	T: 1/23/1990		SPREAD OFFSITE:	CAUSE:
NOTIFICATION TYP			DUCT OBSERVED:	ERTS#:
CALL RECEIVE	R:	OBSER	RVATION/GONE DT: /	VCP#:
GW AT .35-7' BGS, F	LOWS SE. WM			
RELEASE STATUS	STATUS DT		UNT REMOVED UNITS REMOVED	
Cleanup Started	6/1/1995	Soil Ground Water	140 1	
Monitoring	2/13/1998			
			ESTIMATED QT UNIT OF MEASURE	
		Gasoline Range Organics		
		Benzene		
	THE THE PROPERTY OF THE PROPER			
CLEANUP REPOR				
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DEPARTMENT OF ECOLOGY -- TOXICS CLEANUP PROGRAM IN GRATED SITE INFORMATION SY EM LEAKING UNDERGROUND STORAGE TANK DATA SUMMARY

- CLEANUP REPORT INFORMATION-

REPORT NAME: 3RD QTR 2005 GROUNDWATER MONITORING REPORT

CONTRACTOR NAME: ENSR INTERNATIONAL

CLEANUP RPT TYPE: Interim

REPORT DT: 10/18/2005 RECEIVED DT: 11/8/2005

WELLS SAMPLED 07/30/05.

MW-12 LPH; 1ST OBSERVATION OF LPH IN WELL. APPROX GW ELEVATIONS: 89.52' TO 99.98'.

GW FLOW: SE.

MW-3 TPH-O & MW-4 TPH-D MAY BE RESULT OF CONTAMINATED SURFACE H20; WORK PLAN BEING PREPARED TO REPAIR THIS ISSUE. HB-1 TPH=G/B/E/X=28,100/1,530/3,050/2,480 PPB. MW-05 TPH-G/B=2,620/82.9 PPB.

MW-12 NOT SAMPLED

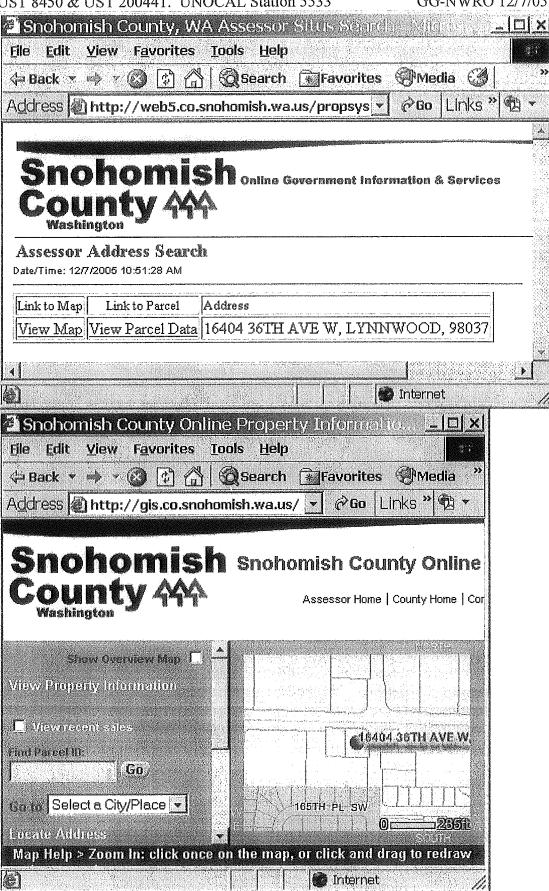
MW-13 TPH-D/O/G/B/T/E/X=538/637/58,900/2,450/2,600/1,270/10,500 PPB.

MW-18 TPH-O/B=768/107 PPB.

CP-NWRO-12/06/05

DEPARTMENT OF ECOLOGY - TOXICS CLEANUP PROGRAM IN GRATED SITE INFORMATION S TEM LEAKING LINDERGROUND STORAGE TANK DATA SUMMARY

LEAKI	NG UNDERGROUND	STORAGE TANK DATA S	UMMARY
UST SITE INFORMATION SITE ID: 200441 UNOCAL STATION # 5533 PEN 16405 36TH AVE W LYNNWOOD, WA 98036 COUNTY: Snohomish	NOCK FS ID: 43294423	OPERATIONAL TANK(s): ☐ ACTIVE LUST @ SITE: ✓	12/7/2005
RELEASE INFORMATION RELEASE ID: 2402 ALT NAM	E: UNOCAL STATION # 5533 F	PENNOCK	IS THIS RELEASE CLEAN?:
NOTIFICATION DT: 6/25/1991 NOTIFICATION TYPE: CALL RECEIVER:	FREE PRO	SPREAD OFFSITE: DUCT OBSERVED: VATION/GONE DT: 7/30/2005 /	CAUSE: ERTS#: VCP#:
RELEASE STATUS STATUS DT Cleanup Started 5/21/1995	Soil Ground Water	UNITS REMOVED ESTIMATED QT UNIT OF MEASURE	
CLEANUP REPORT INFORMATION— REPORT NAME: CONTRACTOR NAME: GEOENGINEEF CLEANUP RPT TYPE: Interim	RS		REPORT DT: 9/10/1991 RECEIVED DT: 9/10/1991
CLEANUP REPORT INFORMATION REPORT NAME: GW MONITORI CONTRACTOR NAME: ENSR INTNL CLEANUP RPT TYPE: Interim			REPORT DT: 8/3/2005 RECEIVED DT: 8/25/2005
Client: UNOCAL, San Luis Obispo, CA. GW 4 are under or near 36th Ave W. Checked "Spreaments of the Checked "Spreaments" of the Checked "Spreaments of the Checked "Spreaments" of the Chec	/23/2005: TPH-G= 81,600ppb; TPH-I ad Off Site" box. (GG-NWRO 9/7/200	D= 804ppb; TPH-O= 1,340ppb; B/E/T/X= 2680/ 32 5)	210/ 7640/ 15,600ppb. MW's w/ highest levels
CLEANUP REPORT INFORMATION REPORT NAME: REVISED 11/7/6 CONTRACTOR NAME: ENSR CLEANUP RPT TYPE: Interim		TR 2005	REPORT DT: 11/7/2005 RECEIVED DT: 11/8/2005
1			



Tax Year	2005	Market Land	\$0	Market Improvement	\$320,000	Market Total	\$320,000
Tax Year	2006	Market Land	\$0	Market Improvement	\$320,000	Market Total	\$320,000

Go to top of page

Property Characteristics

Tax Code Area (TCA) 02446 View Taxing Districts for this Parcel (opens as new window)

Use Code 553 Gasoline Service Stations

Size Basis ACRE Size 0.00 (Size may include undivided interest in common tracts and road parcels) Go to top of page

Property Structures

Type

Yr.Built Structure Description

Commercial 1965 TEXACO FOOD MART SERVICE CNTR View Structure Data (opens as new window) Go to top of page

Property Sales since 7/31/1999

Explanation of Sales Information (opens as new window)

Sales data is based solely upon excise affidavits processed by the Assessor.

Transfer Receipt Date Sales Price Excise Deed Number Type

Grantor (Seller)

Grantee (Buyer)

Other **Parcels**

2/29/2000 3/6/2000 \$720,000 255614 W 16404 36TH AVENUE WEST LLC SK EXXON LLC

Yes

Go to top of page

Property Maps Township/Range/Section/Quarter, links to maps

Neighborhood 5502000 Explanation of Neighborhood Code (opens as new window)

Township 27 Range 04 Section 10 Quarter NW Find parcel maps for this Township/Range/Section

View Map of this parcel (opens as new window)



* R E A L * Property Information

County Home Assessor Home Treasurer Home

Information on which Department to contact

Please view Disclaimer

If you have questions, comments or suggestions, please Contact Us.

Date/Time: 12/7/2005 7:04:15 AM Answers to Frequently Asked Questions about Parcel Data (opens as new window)

Return to Property Information Entry page

Parcel Number 00372700200103 Prev Parcel Reference 37270020010308

View Map of this parcel (opens as new window)

General Information

Taxpayer Name || Address (contact the Treasurer if you have questions)

SK EXXON LLC || 16404 36TH AVE W - - - LYNNWOOD, WA 98037

If the above mailing address is incorrect and you want to make a change, see the information on Name and Address Changes

Owner Name | Address (contact the Assessor if you have questions)

SK EXXON LLC || 16404 36TH AVE W - - - LYNNWOOD, WA 98037

If the above name and address is incorrect due to a recent sale, please see the information on Name and Address Changes After a Sale

Street (Situs) Address (contact the Assessor if you have questions)

16404 36TH AVE W - - - LYNNWOOD, WA 98037

Parcel Legal Description

ALDERWOOD MANOR 02 BLK 002 D-03 - BLDG ONLY-N 150FT OF E 125FT OF LOT 1

Go to top of page

Treasurer's Tax Information

Taxes For answers to questions about Taxes, please contact the <u>Treasurer's office</u> (opens as new window)

2005 Taxes for this parcel \$3,953.47

(Taxes may include Surface Water Management and/or State Forest Fire Patrol fees. LID charges, if any, are not included.)

To obtain a duplicate tax statement, either download our <u>Tax Statement Request</u> form or call 425-388-3366 to request it by phone.

Go to top of page

Assessor's Property Data Characteristics and Value Data below are for 2005 tax year.

Please contact the <u>Treasurer's office</u> for answers to questions about Taxes (opens as new window)

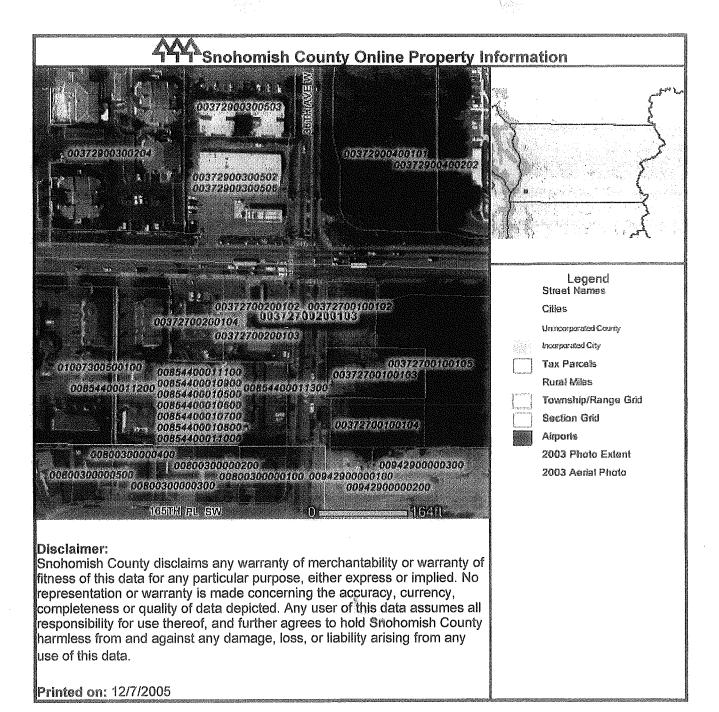
For questions ONLY about property characteristics or property values (NOT taxes), please contact the Assessor's Office (opens as new window)

Property Values

Values do not reflect adjustments made due to an exemption, such as a senior or disabled persons

exemption.

Reductions for exemptions are made on the property tax bill.



Reductions for exemptions are made on the property tax bill.

Tax Year 2005	Market Land	\$0	Market Improvement	\$71,700	Market Total	\$71,700
Tax Year 2006	Market Land	\$0	Market Improvement	\$71,700	Market Total	\$71,700

Go to top of page

Property Characteristics

Tax Code Area (TCA) 02446 View Taxing Districts for this Parcel (opens as new window)

Use Code 553 Gasoline Service Stations

Size Basis ACRE Size 0.00 (Size may include undivided interest in common tracts and road parcels) Go to top of page

Property Structures

No structures found for this parcel Go to top of page

Property Sales since 7/31/1999

Explanation of Sales Information (opens as new window)

Sales data is based solely upon excise affidavits processed by the Assessor.

Receipt Sales Price Excise Deed Number Type Transfer Grantor (Seller) Date Date

Grantee (Buyer)

Other Parcels

2/20/2001 2/28/2001 \$2,480,000 361440 W CHUNG & MICHELL CHOE LEE & JOUNG CORP.,

Go to top of page

Yes

Property Maps Township/Range/Section/Quarter, links to maps

Neighborhood 5502000 Explanation of Neighborhood Code (opens as new window)

Township 27 Range 04 Section 03 Quarter SW Find parcel maps for this Township/Range/Section

View Map of this parcel (opens as new window)

Same map

Snohomish Online Government Information & Services

* R E A L * Property Information

County Home Assessor Home Treasurer Home Information on which Department to contact

Please view Disclaimer

If you have questions, comments or suggestions, please Contact Us.

Date/Time:12/7/2005 7:27:10 AM Answers to Frequently Asked Questions about Parcel Data (opens as new window)

Return to Property Information Entry page

Parcel Number 00372900300506 Prev Parcel Reference 37290030050607

View Map of this parcel (opens as new window)

General Information

Taxpayer Name || Address (contact the Treasurer if you have questions)

LEE & JOUNG CORP || 3609 164TH ST SW - - - LYNNWOOD, WA 98037

If the above mailing address is incorrect and you want to make a change, see the information on Name and Address Changes

Owner Name | Address (contact the Assessor if you have questions)

LEE & JOUNG CORP || 3609 164TH ST SW - - - LYNNWOOD, WA 98037

If the above name and address is incorrect due to a recent sale, please see the information on Name and Address Changes After a Sale

Street (Situs) Address (contact the Assessor if you have questions)

3609 164TH ST SW --- LYNNWOOD, WA 98037

ALDERWOOD MANOR 04 BLK 003 D-06 BLDGS ONLY (SELF SERVE STN TANKS, CANOPY) ON LEASED LAND ON TAX PARCEL 3729-003-005-0201

Go to top of page

Treasurer's Tax Information

Taxes For answers to questions about Taxes, please contact the Treasurer's office (opens as new window)

2005 Taxes for this parcel \$885.82

(Taxes may include Surface Water Management and/or State Forest Fire Patrol fees. LID charges, if any, are not included.)

To obtain a duplicate tax statement, either download our Tax Statement Request form or call 425-388-3366 to request it by phone.

Go to top of page

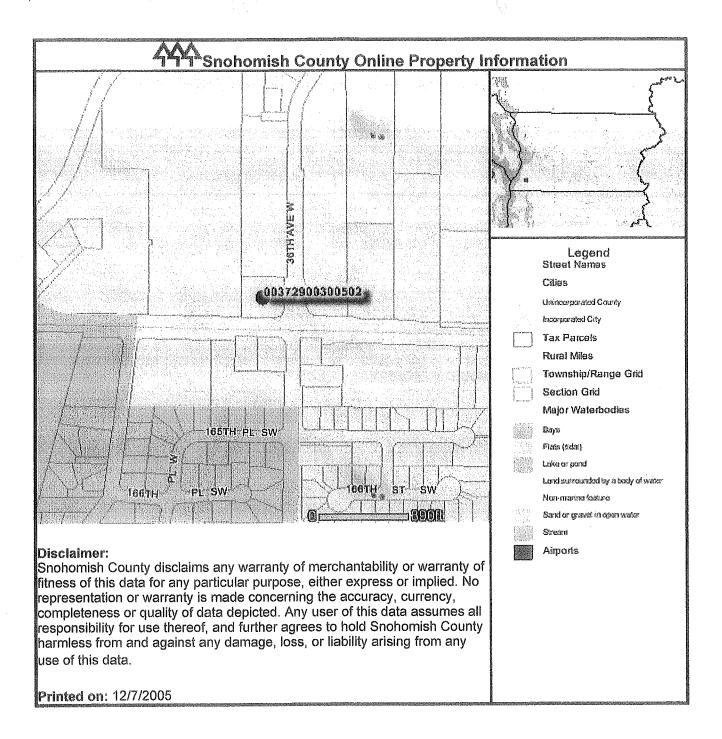
Assessor's Property Data Characteristics and Value Data below are for 2005 tax year.

Please contact the Treasurer's office for answers to questions about Taxes (opens as new window)

For questions ONLY about property characteristics or property values (NOT taxes), please contact the Assessor's Office (opens as new window)

Property Values

Values do not reflect adjustments made due to an exemption, such as a senior or disabled persons exemption.



Values

exemption.

Reductions for exemptions are made on the property tax bill.

Tax Year 2005	Market Land	\$330,100	Market Improvement	\$202,100	Market Total	\$532,200
Tax Year 2006	Market Land	\$395,600	Market Improvement	\$211,600	Market Total	\$607,200

Go to top of page

Property Characteristics

Tax Code Area (TCA) 02446 View Taxing Districts for this Parcel (opens as new window)

Use Code 539 Other Retail Trade NEC

Size Basis ACRE Size 0.75 (Size may include undivided interest in common tracts and road parcels) Go to top of page

Property Structures

Type

Yr.Built Structure Description

Commercial 1982

View Structure Data (opens as new window)

Go to top of page

Property Sales since 7/31/1999

Explanation of Sales Information (opens as new window)

Sales data is based solely upon excise affidavits processed by the Assessor.

Transfer Date

Sales Price Excise Deed Number Type

Grantor (Seller)

Grantee (Buyer)

Other Parcels

2/20/2001 2/28/2001 \$2,480,000 361440 W CHUNG & MICHELL CHOE LEE & JOUNG CORP.,

Yes

Go to top of page

Property Maps Township/Range/Section/Quarter, links to maps

Neighborhood 5502000 Explanation of Neighborhood Code (opens as new window)

Township 27 Range 04 Section 03 Quarter SW Find parcel maps for this Township/Range/Section

View Map of this parcel (opens as new window)

Snohomish Online Government Information & Services County 444 Washington

* R E A L * Property Information

County Home Assessor Home Treasurer Home Information on which Department to contact

Please view Disclaimer

If you have questions, comments or suggestions, please Contact Us.

Date/Time: 12/7/2005 7:24:41 AM Answers to Frequently Asked Questions about Parcel Data (opens as new window)

Return to Property Information Entry page

Parcel Number 00372900300502 Prev Parcel Reference 37290030050201

View Map of this parcel (opens as new window)

General Information

Taxpayer Name | Address (contact the Treasurer if you have questions)

LEE & JOUNG CORP || 3609 164TH ST SW - - - LYNNWOOD, WA 98037

If the above mailing address is incorrect and you want to make a change, see the information on Name and Address Changes

Owner Name | Address (contact the Assessor if you have questions)

LEE & JOUNG CORP || 3609 164TH ST SW - - - LYNNWOOD, WA 98037

If the above name and address is incorrect due to a recent sale, please see the information on Name and Address Changes After a Sale

Street (Situs) Address (contact the Assessor if you have questions)

3609 164TH ST SW - - - LYNNWOOD, WA 98037

Parcel Legal Description

ALDERWOOD MANOR 04 BLK 003 D-02 - S 195FT OF LOT 5 AS MEAS ALG ELY LN THOF LESS E 10FT & S 15FT FOR RD PER WD AF NO 8211090164 VOL 1765 PG 796 LESS ADDL R/W TO SNO CO PER SWD REC AF 9801290097 & EXC BLDGS ON 3729-003-005-0607

Go to top of page

Treasurer's Tax Information

Taxes For answers to questions about Taxes, please contact the <u>Treasurer's office</u> (opens as new window)

2005 Taxes for this parcel \$7,160.04

(Taxes may include Surface Water Management and/or State Forest Fire Patrol fees. LID charges, if any, are not included.)

To obtain a duplicate tax statement, either download our <u>Tax Statement Request</u> form or call 425-388-3366 to request it by phone.

Go to top of page

Assessor's Property Data Characteristics and Value Data below are for 2005 tax year.

Please contact the Treasurer's office for answers to questions about Taxes (opens as new window)

For questions ONLY about property characteristics or property values (NOT taxes), please contact the Assessor's Office (opens as new window)

Property

Values do not reflect adjustments made due to an exemption, such as a senior or disabled persons

DEPARTMENT OF ECOLOGY -- TOXICS CLEANINP PROGRAM IN GRATED SITE INFORMATION SYCIEM LEAKING UNDERGROUND STORAGE TANK DATA SUMMARY

- CLEANUP REPORT INFORMATION

REPORT NAME: JUNE 2000 SEMI-ANNUAL GW MONITORING

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

DEPTH TO GW 1.89-7.41', FLOWS E. MW-7,8,12,13,& HB-1 EXCEED MTCA 'A'. (SB-NWRO-8/23/00) GG-NWRO-9/8/00

CLEANUP REPORT INFORMATION-

REPORT NAME: 11/2000 SEMI-ANNUAL GW MONITORING

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

DEPTH TO GW 0.90-7.35' TOC; FLOWS SSE. MW-7,-12,-13 EXCEED MTCA 'A' LEVELS. HB-1 ALSO HOT. CONTAM OFF-SITE TO THE EAST. (SB-NWRO-1/15/01)

GG-NWRO-1/30/01

CLEANUP REPORT INFORMATION

REPORT NAME: SUPPLEMENTAL MONITORING WELL INSTALL. & GW MONITOR.

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

GG-NWRO-9/10/01

CLEANUP REPORT INFORMATION-

REPORT NAME: DEC. 2001 GW MONITORING

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

SEMIANNUAL

9 WELLS SAMPLED 12/17/01.

MW-13 BENZENE=3,840 PPB. MW-16 WELL ABONDONED ON 06/26/01.

HB-1 BENZENE=2,480 PPB.

CM-NWRO-01/29/02. (gg ppm to ppb 5/30/02)

BTE&X exceed MTCA A. (GG-5/30/02)

CLEANUP REPORT INFORMATION

REPORT NAME: JUNE 2002 SEMIANNUAL GW MONITORING

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

SEMIANNUAL

WELLS SAMPLED 06/10/02. MW-7 BENZENE=547 PPB. MW-13 BENZENE=3,790 PPB.

HB-1 BENZENE=2,450 PPB.

CM-NWRO-07/22/02.

CLEANUP REPORT INFORMATION

REPORT NAME: 4TH QTR 2002 GW MONITORING

CONTRACTOR NAME: GEOENGINEERS

CLEANUP RPT TYPE: Interim

SEMIANNUALLY.

WELLS SAMPLED 12/12/02 MW-7 TPH-G/B=4,240/650 PPB.

MW-12 TPH-G/B=9.830/106 PPB.

MW-13 TPH-G/B=2,540/897 PPB.

HB-1 TPH-G/B=4,510/2,000 PPB. CM-NWRO-02/07/03

REPORT DT: 8/3/2000 RECEIVED DT: 8/4/2000

REPORT DT: 1/3/2001

RECEIVED DT: 1/4/2001

REPORT DT: 8/23/2001 RECEIVED DT: 8/24/2001

REPORT DT: 1/15/2002

RECEIVED DT: 1/16/2002

REPORT DT: 7/10/2002

RECEIVED DT: 7/11/2002

REPORT DT: 1/28/2003

RECEIVED DT: 1/29/2003

DEPARTMENT OF ECOLOGY -- TOXICS CLEANUP PROGRAM IN GRATED SITE INFORMATION SY TEM LEAKING UNDERGROUND STORAGE TANK DATA SUMMARY

- UST SITE INFORMATION-SITE ID: 8450 ALDERWOOD EXXON OPERATIONAL TANK(s): 🗸 12/7/2005 16404 36TH AVE W ACTIVE LUST @ SITE: 🗹 LYNNWOOD, WA 98037 FS ID: 74865182 **COUNTY:** Snohomish RELEASE INFORMATION IS THIS RELEASE CLEAN?: RELEASE ID: 3880 ALT NAME: TEXACO 008450 NOTIFICATION DT: 9/16/1992 SPREAD OFFSITE: CAUSE: FREE PRODUCT OBSERVED: ERTS#: **NOTIFICATION TYPE: OBSERVATION/GONE DT:** VCP#: **CALL RECEIVER:** AMOUNT REMOVED UNITS REMOVED MEDIA RELEASE STATUS STATUS DT Soil Cleanup Started 6/1/1995 CLEANUP REPORT INFORMATION-**REPORT DT: 9/16/1992** REPORT NAME: **RECEIVED DT: 9/16/1992 CONTRACTOR NAME: GEOENGINEERS CLEANUP RPT TYPE: Interim** CLEANUP REPORT INFORMATION **REPORT DT: 9/25/1995** REPORT NAME: TREATMENT BED SAMPLING **RECEIVED DT: 9/26/1995 CONTRACTOR NAME: COLUMBIA ENVIRONMENTAL CLEANUP RPT TYPE: Interim**

CLASS 2 SOIL REMAINS, SOIL STOCKPILE [WM].



STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Ave SE • Bellevue, WA 98008-5452 • 425-649-7000 711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

May 21, 2013

SK EXXON LLC 16404 36TH AVE W LYNNWOOD WA 98037

Subject:

Site Hazard Assessment - Unocal 5533

Ecology FS ID: 74865182 / CS ID: 10391

Dear Sir or Madam:

The Washington State Department of Ecology (Ecology) will conduct a site hazard assessment (SHA) of Unocal 5533, 16404 36th Ave W, Lynnwood, WA 98036, under the Model Toxics Control Act (MTCA), Chapter 173-340-320 WAC. This assessment will be performed by Mike Young, Snohomish Health District (SHD), acting as Ecology's designated agent for these purposes. This site has been on Ecology's Confirmed and Suspected Contaminated Sites (CSCS) list since September 1992.

The purpose of an SHA is to gather information on past and present waste management activities and other basic site-specific environmental data in order to assess the site for its potential or actual environmental hazard. These threats to human health and the environment are evaluated for each applicable contaminant migration route, resulting in a hazard ranking determination.

Sites are ranked on a scale of one (1) to five (5); 1 representing the highest level of concern, and 5 the lowest, relative to other assessed/ranked sites in the state. Ranked sites are placed on the state Hazardous Sites List (HSL). Or the assessment may determine that no further action is warranted, and the site removed from Ecology's CSCS list.

In addition to any required fieldwork, the following information will be considered in site scoring:

- Ecology Northwest Regional Office Site Files
- SHD Files

You are requested to submit any additional environmental information regarding this site to:

Mike Young Snohomish Health District 3020 Rucker Ave, Ste 104 Everett, WA 98270 myoung@shd.snohomish.wa.gov Unocal 5533 05/21/2013 Page 2

Additional data could include any environmental assessments or laboratory analyses that have been conducted regarding this site and not previously submitted to Ecology. If you have better information or comments on the existing data, please contact us as soon as possible. The final site rank and eventual site priority will be based primarily on the information used in the scoring.

Fact sheets describing Site Hazard Assessments, the Washington Ranking Method used in the assessment process and the Hazardous Sites List are enclosed for your information, as well as a copy of the Integrated Site Information System data summary sheet for this site. If you have questions, please contact me at (425) 649-7136 / dmus461@ecy.wa.gov or Mike Young at (425) 339-5250 / myoung@shd.snohomish.wa.gov.

Sincerely,

Donna Musa

Site Hazard Assessments

Toxics Cleanup Program

Downwo-

cc: Mike Young, SHD (<u>myoung@shd.snohomish.wa.gov</u>)

Ted Benson, Ecology (ted.benson@ecv.wa.gov)



* REAL * Property Information

County Home Assessor Home Treasurer Home

Information on which Department to contact

Please view Disclaimer

If you have questions, comments or suggestions, please Contact Us.

Date/Time: 1/8/2008 12:26:29 PM Answers to Frequently Asked Questions about Parcel Data (opens as new window)

Return to Property Information Entry page

Parcel Number 00372700200103 Prev Parcel Reference 37270020010308

View Map of this parcel (opens as new window)

General Information

Taxpayer Name | Address (contact the Treasurer if you have questions)

SK EXXON LLC || 16404.36TH AVE W - - - LYNNWOOD, WA 98037-7001

If the above mailing address is incorrect and you want to make a change, see the information on Name and Address

Changes

Owner Name || Address (contact the Assessor if you have questions)

SK EXXON LLC || 16404 36TH AVE W - - - LYNNWOOD, WA 98037-7001

If the above name and address is incorrect due to a recent sale, please see the information on Name and Address

Changes After a Sale

Street (Situs) Address (contact the Assessor if you have questions)

16404 36TH AVE W --- LYNNWOOD, WA 98037-7001

Parcel Legal Description

ALDERWOOD MANOR 02 BLK 002 D-03 - BLDG ONLY-N 150FT OF E 125FT OF LOT 1

Go to top of page

Treasurer's Tax Information

Taxes For answers to questions about Taxes, please contact the Treasurer's office (opens as new window)

2007 Taxes for this parcel \$3,526.19

(Taxes may include Surface Water Management and/or State Forest Fire Patrol fees. LID charges, if any, are not included.) To obtain a duplicate tax statement, either download our <u>Tax Statement Request</u> form or call 425-388-3366 to request it by phone.

Go to top of page

Assessor's Property Data Characteristics and Value Data below are for 2007 tax year.

Please contact the Treasurer's office for answers to questions about Taxes (opens as new window)

For questions ONLY about property characteristics or property values (NOT taxes), please contact the Assessor's Office

Property Values Values do not reflect adjustments made due to an exemption, such as a senior or disabled persons

exemption.

Reductions for exemptions are made on the property tax bill.

Tax Year 2008

Market Land

\$0 Market Improvement

\$489,000

Market Total

\$489,000

Go to top of page

Valuation and Property Tax History

View History (opens as new window)

Go to top of page

Property Characteristics

Tax Code Area (TCA) 02446 View Taxing Districts for this Parcel (opens as new window)

Use Code 549 Other Retail Trade - Food NEC

Size Basis ACRE Size 0.00 (Size may include undivided interest in common tracts and road parcels)

Go to top of page

Property Structures

Yr.Built Structure Description

Commercial 1965 TEXACO FOOD MART SERVICE CNTR View Structure Data (opens as new window)

Go to top of page

Property Sales since 7/31/1999

Explanation of Sales Information (opens as new window)

Sales data is based solely upon excise affidavits processed by the Assessor.

Transfer Receipt Date Sales Price Excise Deed Number Type Grantor (Seller)

Grantee (Buyer)

Other Parcels

2/29/2000 3/6/2000 \$720,000 255614 W 16404 36TH AVENUE WEST LLC SK EXXON LLC Yes Go to top of page

Property Maps Township/Range/Section/Quarter, links to maps

Neighborhood 5502000 Explanation of Neighborhood Code (opens as new window)

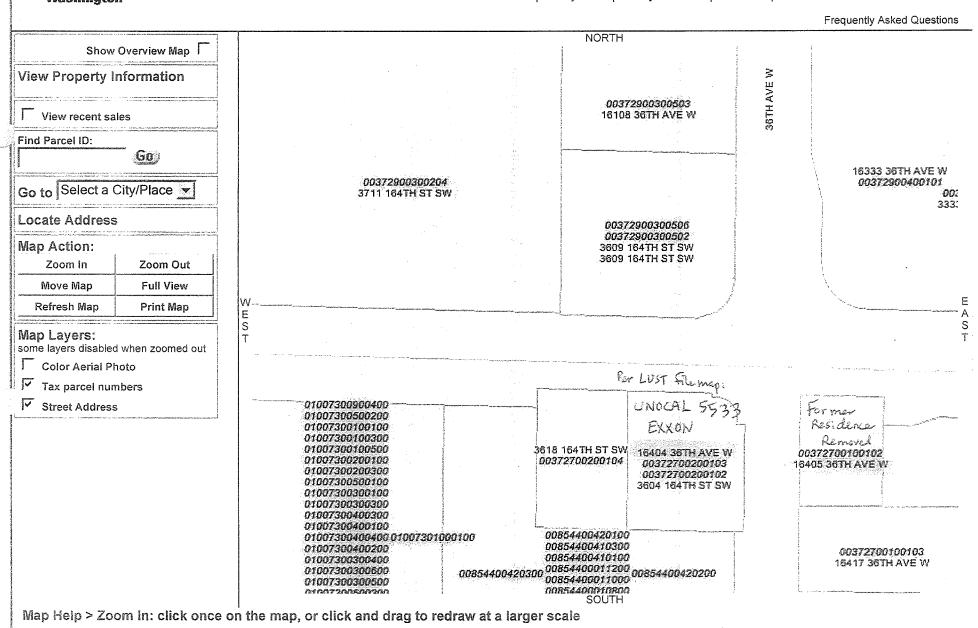
Township 27 Range 04 Section 10 Quarter NW Find parcel maps for this Township/Range/Section

View Map of this parcel (opens as new window)

Snohomish County 444

Snohomish County Assessor's Office Snohomish County Online Property Information

Assessor Home | County Home | Privacy Statement | Disclaimer | Contact Us











Olivia Skance Project Manager UNICAL STATION 5533 Lynnwood LUST 1696

> Chevron Environmental Management Company Marketing Business Unit 6001 Bollinger Canyon Road San Ramon, CA 94583 Tel 925 842 5005 Fax 925 842 8370

December 31, 2007

Mr. Joe Hickey Washington State Department of Ecology 3190 160th Avenue SE Bellevue, WA 98008

Subject: Chevron Project Management Change Former Unocal Service Station No. 5533,

Chevron Site No. 306535

16405 - 36th Avenue, Lynnwood, WA

F15 74865 182

Dear Mr. Hickey:

Please be advised of a project management change at Chevron Environmental Management Company for the subject site. I recently replaced J. Mark Inglis as the Chevron project manager for the subject site. Please direct any future correspondence regarding the site to me at the letterhead address, or contact me directly at (925) 842-5005 or by e-mail at Olivia.Skance@chevron.com.

ENSR Corporation, with Don Lance as project manager, will continue to provide environmental oversight services for the site on behalf of Chevron. Mr. Lance may be contacted at (425) 881-7700, ext. 142, or by e-mail at dlance@ensr.aecom.com.

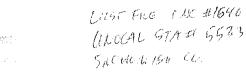
Sincerely yours,

Olivia Skance

cc: Don Lance, ENSR







STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office, 3190 - 160th Ave S.E. • Bellevue, Washington 98008-5452 • (206) 649-7000

February 8, 1993

Mr. Stanley Minor
Evergreen Community Development
2015 Smith Tower
Seattle, WA 98104

Dear Mr. Minor:

RE: Petroleum Contamination Cleanup at Former UNOCAL Station #5533, 16404 36th Avenue West, Lynnwood, Washington.

I am writing to provide a clarification of the Department of Ecology's (Ecology's) position in the above referenced situation. I am writing at the request of Mr. Phil Reba, who has a business at the site.

This cleanup is an independently conducted cleanup regulated by Chapter 173-340 Washington Administrative Code (WAC). Ecology is not directly involved except to monitor the progress of the cleanup, which has been conducted by UNOCAL Corporation. While the cleanup is not completed, our records show the cleanup has progressed adequately, and is in compliance with the WAC. Ecology does not assign potential liability on an independent cleanup, but we do for formal actions. A formal action at this cleanup is not likely, but if it occurred, UNOCAL would be the primary potentially liable person.

A considerable amount of cleanup has occurred at the site, but the cleanup is not completed, primarily because of off-site effects. I understand there is contamination under an adjacent road, which is a typical occurrence. Ecology does not require the destruction of structures including roads unless absolutely necessary, or can be scheduled with planned roadwork or demolition. Widening of the road would likely generate contaminated soil, for which UNOCAL would be considered liable by the county, in my opinion.

UNOCAL has given no indication of a failure to take responsibility for this situation, and in fact has issued an indemnification to Mr. Reba. That document would clearly relieve Mr. Reba from potential liability considerations should Ecology need to assign such a status.

Please call me at (206) 649-7202 if there are questions.

sincerely. Myhlle blieben

Joseph M. Hickey /

Tanks Unit Supervisor, Toxics Cleanup Program



D.L. Rouse Project Manager Retail and Terminal Business Unit Chevron Environmental Management Company 6001 Bollinger Canyon Road Room K2260 San Ramon, CA 94583 Tel 925 842 1572 Fax 925 842 8370

RECEIVED

APR 1 1 2007

March 27, 2007

DEPT OF EGOLOGY

Mr. Joe Hickey Washington State Department of Ecology 3190 160th Ave. SE Bellevue, WA 98008

Subject: Chevron Project Management Change

Former Unocal Service Station No. 5533

Chevron Site No. 306535 16405 36th Ave, Lynnwood, WA

Dear Mr. Hickey:

Please be advised of a project management change at Chevron Environmental Management Company for the subject site. I recently replaced John Frary as the Chevron project manager. Please direct any future correspondence regarding the site to me at the letterhead address, or contact me directly at (925) 842-1572 or by e-mail at drouse@chevron.com.

ENSR Corporation, with Don Lance as project manager, will continue to provide environmental oversight services for the site on behalf of Chevron. Mr. Lance may be contacted at (425) 881-7700, ext. 142, or by e-mail at dlance@ensr.aecom.com.

Sincerely yours,

Darin L. Rouse

cc: Don Lance, ENSR



Telephone Report

2/8/97
Call From: KNRDailey Date: 778/ San San Public Works
Phone No.: /-388-6200 Time: /0/5 pm
call To: A Republic
Tar S.A. 25. Also 25 S.P. C. compressional and particular and an accompanion and accompanion accompanion accompanion and accompanion accom
Subject: Unocal 5533/Pennock
summary: Public works will be widening
street and grading 494 below
grade surface alphathe lennock
Property. I told them Unocel #
Peninoch's are in-negotiations for
Unocal to buy Pennock property
I ask KINBBILLY the Untral
Olypre H (Leigh Carlson) and asked
him to talk to him about their
0/205
signature: Anneth Police Date: 7/8/92

Debbie Kristet - 861-6000 Learly 1 - 443 7523

Telephone Report

ECOLOGY COLOGIC	Date: 7/1/92
C. L. L. VAII o emessandestpurared collectual transaction control communication control contro	Time: 7:5 am
Phone No.: 861-6000	4. do 455 % 4 etterteenventationer my
call To: Delbar 1556	#2402
Subject: LADCA 5533/	Enveck,
summary: The Pennock's are	regotiating
with Unocal to have the	rocal bug
after Droper by they will	not allow.
Unocal to induct remod	cal actions
on their property-until	113500
	de beforeign. Place taxonische Worder der State von der geste der beschäftliche der des geste gestellt der State von der gestellt der Gest
Guide Mark (Mark Communication Annual Communication	gent final and makes protested and not tree upon a subdiscussion to the memory of the state of the memory memory and the state of the s
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signature: Chartlefetric	Date: 1/1/12

	Site UNDCAL STATION 5533 PENNOCK, ECOLOGY ID: 43294423
L	Site: UNOCAL STATION # 5533 PENNOCK UST ID: 200441 Region: NORTHWEST County: Snohomish ocation: 16405 36TH AVEW City: Lynnwood UBI #: Site Tank Testing Inspections Release Enforcement Affiliations
	Release ID Alternate liame Row 1 of 1 Comments Cleanup Report
	2402 UNOCAL STATION # 5533 PENNOCK
	Release ID: 2402 ERTS ID:
	Hotification Date: DB/25/1991 Hotification Type: Alt Site Hame: UNOCAL STATION # 5533 PENNOCK
	Call Receiver: Spread Off Site:
ij	Free Product
	Free Product on Site: V LAST UPDATE
	1st Observed: 7/30/2005 Sone: 12/06/2005 CMCD461
	Status Status Date Row 1 of 1
	Cleanup Started 5/21/1995 🛨 Last Update 00/00/0000
1	Media Affected And Removed Units Removed Row 1 of 2
	Soil 3
	Contaminants Released Estimated Gallons Released Row 1 of 7
	Xylenes
	Technology Cause

ICF KAISER ENGINEERS GeoEngineers do la SEP 1 2 1991 air

ICF KAISER ENGINEERS, INC. 11808 NORTHUP WAY, SUITE 104 BELLEVUE, WASHINGTON 98005 206/889-1000

September 10, 1991

Ms. Debbie Kristof GeoEngineers 8410 154th Avenue N.E. Redmond, Washington 98052

Subject:

Review of Indoor Monitoring Data from Residence

Near Unocal Service Station 5533

Dear Ms. Kristof:

This letter provides a summary of our review of monitoring data from the Pennock residence located east of Unocal Service Station 5533. The enclosed information indicates that the measured concentration values for benzene could conservatively result in an excess cancer risk of approximately 3 x 10⁻⁴, or 3 in 10,000 if the residents of this house were exposed for 24 hours/day, 365 days/year for 70 years. Using somewhat more realistic but still quite conservative exposure assumptions of 18 hours/day, 350 days/year, for a duration of 30 years yields an estimated excess cancer risk of 8 x 10⁻⁵, or 8 in 100,000.

We recommend that sampling be undertaken to identify the source of hydrocarbon vapors in the residence. If the values measured in the residence represent background conditions in the area, specific measures to reduce indoor vapors may be ineffective. If the concentrations measured in the residence are determined to represent conditions resulting from a gasoline leak in the area, measures to reduce indoor vapors may be considered and venting of the building crawlspace may be an easy action to implement.

Please feel free to call me at (206) 828-7960 if you have any questions regarding the enclosed material.

Sincerely,

Tom McKeon Project Manager

Tom Mcke

Enclosure

<u>Summary</u> - The concentrations of benzene and other aromatic hydrocarbon compounds that were detected in this home would be equivalent to the concentrations that are likely to be found in the average home in the United States. The estimated health risks due to the presence of these compounds is similar to that of the average home owner. The source of the measured concentrations levels cannot be discerned from the available data. It is possible that the measured values are the result of indoor sources (e.g, smoking, home heating system, petroleum products in a garage, etc.), general ambient air conditions resulting from automobile traffic at a busy intersection, or gasoline vapors from an underground spill migrating into the residence. A recommended modification to the existing sampling protocol is to include some background measurements of ambient air to determine if the measured values in the residence are the result of ambient conditions in the area or are confined to the residence.

<u>Risk Evaluation</u> - The documents that were forwarded regarding indoor air levels of petroleum hydrocarbons found at the Pennock residence have been reviewed. The summary of available information is shown in Table 1. With the exception of benzene, at the levels reported, none of the compounds listed present any increased risk for human health problems.

The U.S. Environmental Protection Agency (EPA) has published "Reference Concentrations" (RfC) for noncarcinogenic chemicals which are conservative estimates of permissible long term exposures to the general population (HEAST, 1991). A comparison between the permissible exposure levels and the concentrations of the noncarcinogenic chemicals measured in the indoor air at the Pennock residence are presented in Table 2.

Benzene is commonly found in both indoor as well as outdoor air. Rural background concentrations of benzene have been reported to range between 0.1 - 17 ppb. The average concentration of benzene in urban air has been reported to be 20 ppb (IARC, 1982) with a range of less than 1 ppb to several hundred ppbs (Wathne, 1983). Indoor air concentrations of benzene are typically higher than outdoor air due to human activity and furnishings (Seifert and Abraham, 1982). Benzene has been identified in cigarette smoke (IARC, 1982) and as a product of the home heating system whether it was wood, coal or oil (Hawthorne et al., 1983). The measured concentrations for benzene at the Pennock residence are in the range which may possibly be attributed to background conditions near a busy intersection.

EPA has published cancer slope factors to aid in assessing the potential risks associated with exposures to carcinogenic chemicals such as benzene. Using the slope factor for benzene, EPA has calculated that the risk of cancer (leukemia) due to exposure to 0.3 ppb is 8.3 x 10⁻⁶ or almost 1 in 100,000. Since 10 ppb was the maximum concentration of benzene detected, the calculated risk of health problems corresponding to this maximum value is 2.7 x 10⁻⁴, or approximately 3 in 10,000. It is important to emphasize that this is a very conservative estimate of cancer risk corresponding to continuous exposure over a 70 year lifetime (24 hours/day, 365 days/year) where an individual never leaves the house. The actual risk is smaller when site specific considerations are used instead of the default values used for exposure duration. Site specific data includes age of the exposed individual, length of daily exposures, duration of total exposure, and activities on site. Using somewhat more realistic, but still quite conservative, exposure assumptions of 18 hours/day, 350 days/year, for 30

Table 1. Summary of Analytical Results from Air Sampling in Residence Near Unocal Service Station

DATE	LOCATION	COMPOUND CONCE	NTRATION	UNITS METHOD
7/25 7/25 7/25 7/25 7/25 7/25 7/25 7/25	Bedroom Bedroom Bedroom Bedroom Bedroom Bedroom	TPH as gasoline Benzene Toluene Ethylbenzene Total Xylenes 1,3&1,4 dichlorobenzene 1,2 dichlorobenzene	3 ND<5 13 ND<4 ND<4 12 ND<3	ppm(v) Air canister Gas chromatography ppb(v) Air canister Gas chromatography
7/31 7/31 7/31 7/31 7/31 7/31 7/31	Crawispace Crawispace Crawispace Crawispace Crawispace Crawispace Crawispace	TPH as gasoline Benzene Toluene Ethylbenzene Total Xylenes 1,3&1,4 dichlorobenzene 1,2 dichlorobenzene	ND<2 3 23 32 16 ND<6 ND<6	ppm(v) Air canister Gas chromatography ppb(v) Air canister Gas chromatography
8/15 8/15 8/15 8/15 8/15 8/15 8/15	Livingroom Livingroom Livingroom Livingroom Livingroom Livingroom Livingroom	TPH as gasoline Benzene Toluene Ethylbenzene Total Xylenes 1,3&1,4 dichlorobenzene 1,2 dichlorobenzene	ND<2 ND<3 ND<3 ND<2 2 ND<2 ND<2	ppm(v) Air canister Gas chromatography ppb(v) Air canister Gas chromatography
8/15 8/15 8/15 8/15 8/15 8/15	Bedroom 1'level Bedroom 1'level Bedroom 1'level Bedroom 1'level Bedroom 1'level	Toluene Ethylbenzene	ND<2 10 14 4 12 ND<2 ND<2	ppm(v) Air canister Gas chromatography ppb(v) Air canister Gas chromatography
8/15 8/15 8/15 8/15 8/15 8/15	Bedroom 4'level Bedroom 4'level Bedroom 4'level Bedroom 4'level Bedroom 4'level	Toluene Ethylbenzene	ND<2 8 13 2 10 ND<2 ND<2	ppm(v) Air canister Gas chromatography ppb(v) Air canister Gas chromatography
8/15 8/15 8/15 8/15 8/15 8/15	Crawispace Crawispace Crawispace Crawispace Crawispace Crawispace Crawispace	TPH as gasoline Benzene Toluene Ethylbenzene Total Xylenes 1,3&1,4 dichlorobenzene 1,2 dichlorobenzene	ND<2 9 11 10 14 ND<2 ND<2	ppm(v) Air canister Gas chromatography ppb(v) Air canister Gas chromatography

Table 2. Comparison of Permissible Levels of Exposure with Actual Maximal Concentrations Measured.

Compound	Reference Concentration (mg/m ³)	Reference Concentration (ppb)	Maximum Measured Level
Toluene	2 mg/m³	530 ppb	23 ppb
Ethylbenzene	1 mg/m ³	230 ppb	32 ppb
Total xylenes	0.3 mg/m ³	70 ppb	16 ppb
Dichloro- benzenes	0.7 mg/m ³	116 ppb	12 ppb

years yields an estimated cancer risk of 8.3×10^{-5} , or 8 in 100,000. This estimated value corresponds with the maximum benzene level detected, using average values over the exposure period would decrease the estimated cancer risk.

The presence of other aromatic hydrocarbons such as toluene, xylenes, and ethylbenzene in ambient air is also commonly reported in the literature. This is due to their commonality in U.S. fuels. The concentrations detected at the Pennock residence all fall within the reported ranges by many researchers (see references).

Review of Sampling Protocol - The historic approach to sampling the air in various places in and around the Pennock residence has been to analyze a grab sample by gas chromatography (GC), augmented by field screening with a PhotoVac TIP photoionization detector. These sampling methods provide reliable data that can be used to quantitatively assess the site conditions and potential for human health impacts.

The measured concentration levels for BTEX compounds in the samples obtained from the Pennock residence are in the range which may possibly be attributed to background conditions near a busy intersection. Therefore, it is recommended that the monitoring include testing some samples of outdoor air in the vicinity of the Pennock residence. Three background samples collected with an evacuated canister analyzed using gas chromatography should provide sufficient information to define background conditions. It may be useful to collect background samples at different time intervals (maybe one sample at 11:00 am, 5:00 pm, and 6:00 pm) to identify any fluctuations associated with traffic in the area.

At this time, we recommend that air quality measurements be obtained once per week, focussing on the bedroom where the highest concentrations have been measured and the crawlspace. A weekly sampling program is recommended to identify the range of random fluctuations at the residence and determine if any trends in concentration levels (increasing or decreasing) are occurring. The weekly sampling program coupled with the results of testing the ambient air in the vicinity may be used to identify the source of hydrocarbon vapors in the residence and determine the need for continued monitoring of air quality in the residence.

An organic vapor analyzer (OVA) may be considered as a substitute for the PhotoVac TIP photoionization detector (PID) because it is more reliable in conditions of high humidity. The criticism of the OVA, which is a flame ionization detector (FID), is that it detects methane along with other organic vapors, however, a filter can be used to remove methane. The purpose of the recommended sampling program is to identify fluctuations and trends in indoor vapor concentrations, therefore the potential impacts of changing humidity conditions should be carefully considered if a PID meter is used for monitoring. The meter should be used on a weekly basis, and correlated once every 4th week with a grab sample analyzed by GC.

Weekly sampling should be sufficient both to build systematically on the existing data base and to identify any trends or significant fluctuations in concentrations resulting from any changing conditions. The weekly sampling can be used to develop a baseline data set to determine the range of random fluctuations. The weekly sampling should continue for a period of approximately two months. After a baseline data set has been developed and evaluated, a longer term monitoring program of sampling once a month should be considered to identify any seasonal fluctuations or trends in the observed conditions at the residence. If the results of the background and baseline sampling indicate that vapors in the residence are the result of a gasoline leak in the area, a longer term monitoring program should continue for a period of one year to identify trends. After one year of data have been collected (if necessary) the results should be evaluated to determine the need for continued monitoring.

The measured benzene concentrations in samples from the Pennock residence and the corresponding risk levels are within a range that may be commonly encountered in urban areas. If the ongoing sampling program indicates that vapors from the ground are the source of measured benzene levels detected in the residence, you may wish implement actions to lessen the vapor concentrations observed in the Pennock residence. Installing blowers to introduce fresh air in the crawlspace may be an easy solution which should be effective in reducing the potential for vapor migration from soils into the residence and eliminating any potential for increased exposure.

REFERENCES

IARC, 1982. Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume 29. Some Industrial Chemicals and Dyestuffs. International Agency for Research on Cancer. World Health Organization. Lyon, France.

HEAST, 1991. Health Effects Summary Tables, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington, D.C. OERR 9200.6-303(91-1).

Wathne, B.M., 1983. Measurement of Benzene, Toluene and Xylenes in Urban Air. Atmospheric Environ. 17:1713-1722.

Hawthorne, A.R., R.B. Gammage, C.S. Dudney, et al., 1983. Preliminary Results of a Forty-Home Indoor Air Pollutant Monitoring Study. Conference on Measuring and Monitoring non-Criteria (Toxic) Contaminated Air.

ERT SYL ZM - INITIAL REPORT/FOLLOWG COORDINATOR: BELINDA HOVDE UNIQUE RECORD #: N5010 DATE/TIME REC'D: 06/25/91 09:05:00 REPORT TYPE: INITIAL REFORTER'S NAME: **40US** BUSINESS NAME: ADDRESS: PEST TIME WA 98037 OR ANONYMOUS: A WORK PHONE: HOME PHONE: DETAILS ON INCIDENT: COUNTY: SNOHOMISH NEAREST CITY: LYNNWOOD WATERWAY: SWAMP CREEK WRIA #: LOCATION: AT HIS HOME WEATHER: TIDE: DETAILS ON ALLEGED VIOLATOR CONTACT'S NAME: NAME & ADDRESS: UNOCAL REFINING AND MARKETING DIVISION
100 W. HARRISON #225 LEAD
SEATTLE / FINANCE FOR SELECTION PHONE NUMBER AND EXT (206)-281-7666 source. VEHICLE INFORMATION: STATION IS ACROSS STREET FROM HIM 胃弡媙禠靻睴晿跍荲荲荲晿晿晿晿晿晿晿晿晿竤椞襐鄵鍦豑豑豑霿箏睴早恴詋恴晿鄵霿霿鵣驆鵣霿霿豑荲 DESCRIPTION OF CONTAMINANT: (PROVIDED BY REPORTER) MEDIUM: SOIL MAN WAR MATERIAL: OIL/PETROLEUM OTHER: OIL QUANTITY: 30 X 80 FT SOURCE: COMMERCIAL COMMENTS: THIS HAS BEEN OCCURRING FOR APPROX. 20+ YRS. HOW THAT HE'S PUTTING IN A YARD NOTHING WILL GROW. THE SOIL IS VERY DILY AND THERE ARE PUDDLES OF OIL. THE UNOCAL STATION ACROSS THE STREET HAD TONS OF DIRT REMOVED AND ALSO THEIR UST. THEIR SITE WAS CONTAMINATED AND HIS HOME IS APPROX. 15 FT BELOW THEM ACROSS THE STREET, DOWNHILL, REFERRED TO PROGRAM: HWICP SECTION HEAD: GALLAGHER EXTERNAL REFERRAL? (Y/N): N IF EXTERNAL, WHAT AGENCY:

INVESTIGATION COMPLETED? (Y/N): Y IF YES, COMPLETE SECOND PAGE OF FORM.

FAGE 2

ÁL REFERRAL INFORMATION:

OF STAFF PERSON: JOE HICKEY

DATE RECEIVED: 07/03/91

DATE INVESTIGATED: 07/03/91

ACTION TAKEN:

TELEPHONE

DATE COMPLETED: 07/03/91

AUSE OF INCIDENT:

EQUIP FAILURE

IMPACT:

BOTH

LUST:

NONFOINT:

(UNK. GW. SW) FOINT:

(UNK. SW. PRETMT)

ACTUAL VIOLATOR INFORMATION:

NAME:

UNDCAL REFINING AND MARKETING DIVISION

CONTACT:

ADDRESS:

100 W. HARRISON #225 CITY: SEATTLE

WA 98119

HOME:

WORK:

(206)-281-7666

ACTUAL CONTAMINANT:

MEDIUM PARSOIL AND CHARACTIME TO FIELDS

DESIGNATION OF THE PROPERTY OF THE PARTY OF

ENFORCEMENT SENSITIVE? (Y/N): N

CROSS-REFERENCES TO OTHER SYSTEMS: LUST FILE UNDCAL #5533

OTHER RELEVANT INFORMATION:

CONFIRMED OFF SITE CONTAMINATION AND GROUNDWATER PROBLEMS. BUT SAMPLES ON PENNOCK PROPERTY (EAST OF UNOCAL) NW CORNER CAME BACK VERY LOW. (PER NORM THESE RESULTS WILL BE INCLUDED IN A SUBSEQUENT REPORT.

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installed off-site, downgradoeat



TELEPHONE REPORT

Call From: A. Lettie	Date: 1/3/9/
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Phone No.: 143-7523	(011016)
Call To: Leigh Carlson &	Deblor Roistoff-Conter
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ECY 010-46(a)	Date 13/9



Telephone Repoi

Call From: JOHN STORAGON	Date: 6/24/91
	am Time: <u>/2:00 pm</u>
Phone No.: 86/ -6086	
Call To: DEBBIE RRISTOF	
UNOCAL # 5533 Subject: Canammetion Offsite	£
Summary: ADSACENT PROPER	TY OWNER. :
AT JOE PENNOCK, 16405 3	6 TH AUC W.
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WILL DO CLEANUP.	
Marie Mari	
Signature: Ashan I Grage	Date: 6/24/91

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8410 - 154th Avenue NE Redmond, Washington 98052 Telephone: (206) 861-6000 Fax: (206) 861-6050

То:	Ecolor		Date:	7/5/91	
10~v~www.00744*ab	Belle	- Valida -		161-236-30	

				力	12402
Fax Numbe	r: 649	- 7098 Christy Madden			
Attention:	man and and and and and and and and and a	Christy Modden	The second section of the sect	UNOCAL	55/33/PENNOCK
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Signed: Delline Knoty

Confirmed Release from an UST 20-Day Reporting Requirements Model Toxics Control Act Regulation, Section VAG 173-340-450 (4)(a)

1. Tank System Information:

Tank System Owner: Unout - Torks removed Oct 1990

Site Name/Address: Residental Property East (downgradient) from Site Name/Address:

Nocal site. Property owners: The AMTS Ferrook

16905 36th Ave West

Tank System Identification (from UST Inventory):

NA unocalsite.

Tank System Age: NA

Tank Construction: NA

Tank System Status (active/inactive): ` \active/L

- 2. Type of hazardous substance released: Gasoling
- 3. Amount of hazardous substance released: www.now.n
- 4. Locations of releases of hazardous substances: wocal 5. he east of residental Properties. Other Service Stations may have contributed.
- 5. How did the release occur?

Appears to have leaked from product lines or service islands. Tanks at the former service station also appear to be a Source.

There is no leak deta available from the former service Station.

6. What was the evidence confirming the release?

Soil contamination observed during removal of toutes Hines. Facilits were removed for a property sale. Soil contamination on subject (Pennock) Proporty observed by Property awar while Preparing yard for a lawn. _. That remedial actions have been completed to date?

- Thatallow 10 borings to evaluate extend of soil + groud water contamination,
- 8. What remedial actions are planned? excavate contaminated Soil, . Proporty . When extend to the or proporty. "Enstall VES to renediate soil beneath 36th Ave west.
- 9. Report on results completed to date: 50.1 + 6 w beneath 36th Ave W + 164th St 5.W is contaminated by gosoline. Limited area of contamination on tesidented property. G.W contamination does not extend for onto residental property.

GeoEngineers Job #: 0161-236-Bo4

Project Manager: DJK

Department of Ecology-NWRO

Underground Storage Tank Notice of Confirmed Release

27. L. 2 C	Charles and the state of the Administration	Initial Report to ERTS: 6/25/9/
Site	nameUnocal Sta. # 5533/Pennock si	
	nameUnocal Sta.# 5533/Pennock si address 16405%- 36 th Ave. W. city Lynnwood county	Snohomish zip
Site	owner Mr. (Joe) & Ms. Pennock owner's address 16405 - 36 th Ave.	and the second s
Consu	ultant company <u>Geoengineers</u> name <u>Debbie Kristoff</u>	phone no <u>. 861-6086</u>
Other	contactcontact affiliation	phone no
	Description of 1	ncident
	Material # Tanks S gasoline diesel waste oil heat fuel	
	Total number tanks: Cle	
Comme	ents <u>This property is adjacent to</u> groundwater contamination as a re	Unocal # 5533 and has soil sult of the release at the
Unoca	al station. Soil: Benzene above	levels. GW: B,E,T,X above
	ls in perched water. Downgradien	
	an air quality firm, has been con inside the residence. Soil	report sent to JH 8/5/91.
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END I



TALINGHAMITAL

8410 - 154th Avenue NB Redmond, Waldington 98052 Telephone: (206) 861 6000

Fax (138) 241-6050

is trology Redmind Date: March 5, 1991

Fue: 0161-236 804

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Signed: Dalle Kilt

February 22, 1991

Washington State Department of Ecology 4350 150th Avenue NB Redmond, Vashington 98052

Dewatering of Excavations Unceal Service Station 5533 Lynnwood, WA GEI File No. 0161-236-804

Attention; Mr. Joe Hickey

GeoEngineers, Inc. is providing consulting services to Unodal regarding the removal of underground storage tanks and lines and the excavation of gasoline contaminated soil at the site of Unocal Service Station 5533. The site is located at 16404 36th Street West in Lynnwood, Washington. On behalf of Unocal, we are requesting approval from the Alderwood Sewer District to discharge water from the tank and service island excavations to the sanitary sewer system. The Alderwood Sewer District indicated that they would like some recommendations from Ecology prior to granting our request. As I indicated in our phone conversation, I will provide the sewer district with your name and phone number. This submittal summarizes project background and water quality information to facilitate your discussions with the sever district.

Two gasoline storage tanks, one heating oil tank and one waste oil tank were removed in Ocrober 1990. The excavation completed for removal of the tanks has not been backfilled. Petroleum-related compounds were not detected at concentrations greater than MTCA (Model Toxics Control Act) cleanup guidelines in the soil samples obtained from the limits of the excavation. Approximately 8 feet (70,000 gallons) of ground water and

runoff has accumulated in the tank excavation since October.
Water samples were obtained from the tank excavation for laboratory analyses of BETX (EPA method 8020), total lead and zinc, flashpoint and phon February 1991. Concentrations of BETX and lead were not detected in the vater sample. Zinc was detected at a concentration of 0.04 mg/l. flashpoint was determined to be greater than 210 degrees Pahrenheit. water sample had a pH of 8,13,

We are currently monitoring the excavation of gasoline-contaminated soil from the vicinity of the service islands. Soil contamination extends beneath the current ground water table in several locations. Lowering the ground water table in the vicinity of the excavation will facilitate both soil excavation and excavation backfilling/compaction. We propose discharging this water to the sanitary sever system.

GeoEngineers obtained ground water samples from three (MV-2 through MW-4) of the four on-site monitor wells on February 25, 1990 for analyses of BETX and fuel hydrocarbons (modified EPA Method 8015). We were unable to locate MV-1 at that time. The fuel hydrocarbon analysis detected a gasoline concentration of 6 mg/l in the sample from MW-4. Concentrations of benzene (260 ug/l), ethylbenzene (500 ug/l), toluene (7.6 ug/l) and xylenes (640 ug/l) were detected in the ground water sample obtained from MW-4. Well MW-4 is located in the service island vicinity. Concentrations of fuel hydrocarbons and BETX were not detected in MW-2 and MW-3.

A copy of the draft laboratory data sheets is available on request.

BELLEVUE

Beology February 22, 1991 Page 2

The following contacts are included for your convenience,

Generator;

Unocal

P.O. Box 76

Seattle, WA 98111 Contact: Mr. Leigh Carlson 443 3523

Environmental Consultation Services:

GeoEngineers 8410 154th Avenue NE Redmond, WA 98057

Contact: Ms Deborah J Kristof 861-6086

Thank you for your assistance in this matter. Please call if you require forther information regarding this project.

Yours very truly,

GeoEngineers, Inc. Down & River Co

Deborah J. Kristof Staff Geologist

XIX

File No. 0161-236-804

INITIAL INVESTIGATION

SITE NAME: Unocal Sta #5533

ADDRESS: 16404 36th W., Lynnwood

INSP. DATE: 2/20/91

INSP. NAME: John Stormon

An initial investigation was conducted at Unocal Sta #5533 on 2/20/91 by John Stormon. The station is closed and the lot is fenced. A large excavation is located on the south side of the station and a second smaller excavation is on the east side. A covered soil stockpile is located at the southwest corner of the station building. There is discoloration in the puddles in the parking lot of the adjacent property (Top of the Hill Grocery) and the runoff runs from the station across this lot and directly into a storm drain.

STATUS: Tanks Removed / Cleanup Ongoing

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51DE STATION

COMMENTS:



DEPT. F ECOLOGY-NWRO ENVIRONMENTAL FORM

UNDERGROUND STORAGE TANK

	NUTICE OF RELEASE
Como	laint recieved by Madden Date 10/1/90
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Department of Ecology Northwest Regional Office, LUST Unit

Computer/File Update Information

JV #1696

Site Na	ne	Unoca	<u>1 55</u>	553	3		
Site Ad	dress_	164	04 36	"W	LYUN WOOD	/	
Update	Inform	ation	to Add	Del	Kristall :	MW 4	showed
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UNDERGROUND STORAGE TANK

NOTICE OF RELEASE

Complaint recieved by	Date	1-23-90
Reporter name DEBBIE KRISTOFF		
address		
address phone no. 746-5200		
Eite name UNGCAL STA 5533	site oh.	no.
Eite name <u>UNOCAL STA 5533</u> Eitz address <u>16yoy 36¹⁵ W.</u>		
site city LYNNWOOD county		210
Bite owner		
owner's address	•	
city		
Consultant name		
TOMP Stry	_ph.nc	
Other party	ph.no	
<u>Description of Incident</u>		•
_	,	į
Material: gasoline 2 diesel wast	e oil <u>/</u>	heat fuel /
other material (describe)		
No. of tanks 4 cank removal date		
Status of tlean-up Assessing		
117/2-73 1000		
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Comments /		
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