

## Appendix G

**Historic Topographic Maps** 



Irving & Yakima
Irving & Yakima
Seattle, WA 98144

Inquiry Number: 4751129.5

October 12, 2016

## **EDR Historical Topo Map Report**

with QuadMatch™



## **EDR Historical Topo Map Report**

10/12/16

Site Name: Client Name:

Irving & Yakima EHS International, Inc.
Irving & Yakima 1011 SW Klickitat Way
Seattle, WA 98144 Seattle, WA 98134
EDR Inquiry # 4751129.5 Contact: Dee Gardner



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by EHS International, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Res	ults:	Coordinates:	
P.O.#	10737e-04	Latitude:	47.591565 47° 35' 30" North
Project:	Irving & Yakima	Longitude:	-122.294076 -122° 17' 39" West
-		UTM Zone:	Zone 10 North
		<b>UTM X Meters:</b>	553072.93
		<b>UTM Y Meters:</b>	5271147.40
		Elevation:	231.15' above sea level
Mana Dravia	dad.		

### **Maps Provided:**

2014 1894 1983 1973 1968 1909 1908 1897

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

## 2014 Source Sheets



Seattle South 2014 7.5-minute, 24000

## 1983 Source Sheets



Seattle South 1983 7.5-minute, 25000 Aerial Photo Revised 1977 Edited 1983

## 1973 Source Sheets



Seattle South 1973 7.5-minute, 24000 Photo Revised 1973 Aerial Photo Revised 1973

### 1968 Source Sheets



Seattle South 1968 7.5-minute, 24000 Photo Revised 1968 Aerial Photo Revised 1968

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

## 1909 Source Sheets



Seattle Special 1909 15-minute, 62500



Seattle 1909 15-minute, 62500

## 1908 Source Sheets



Seattle 1908 15-minute, 62500

## 1897 Source Sheets



Seattle 1897 30-minute, 125000



Snohomish 1897 30-minute, 125000

### 1895 Source Sheets



Snohomish 1895 30-minute, 125000

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

## 1894 Source Sheets



Seattle 1894 15-minute, 62500



## **Historical Topo Map**



NW N NE TP, Seattle South, 2014, 7.5-minute

SW

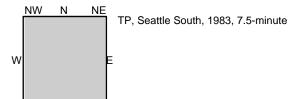
S

SE

SITE NAME: Irving & Yakima ADDRESS: Irving & Yakima

Seattle, WA 98144

CLIENT: EHS International, Inc.



This report includes information from the

following map sheet(s).

SW

S

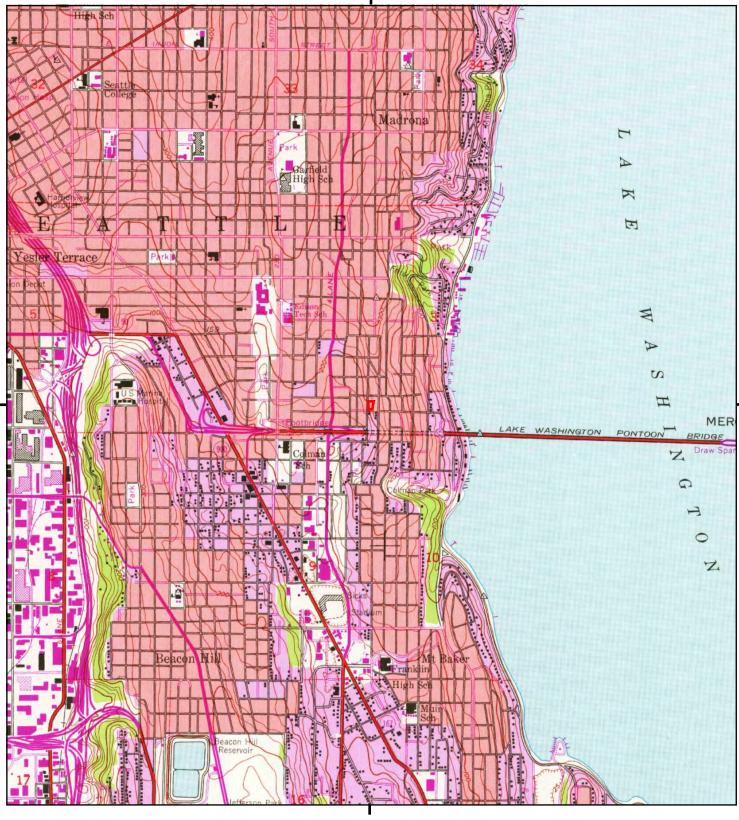
0 Miles 0.25 0.5 1 1.5

SITE NAME: Irving & Yakima ADDRESS: Irving & Yakima

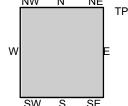
Seattle, WA 98144

CLIENT: EHS International, Inc.





This report includes information from the following map sheet(s).



TP, Seattle South, 1973, 7.5-minute

SITE NAME: Irving & Yakima ADDRESS: Irving & Yakima

0.25

0 Miles

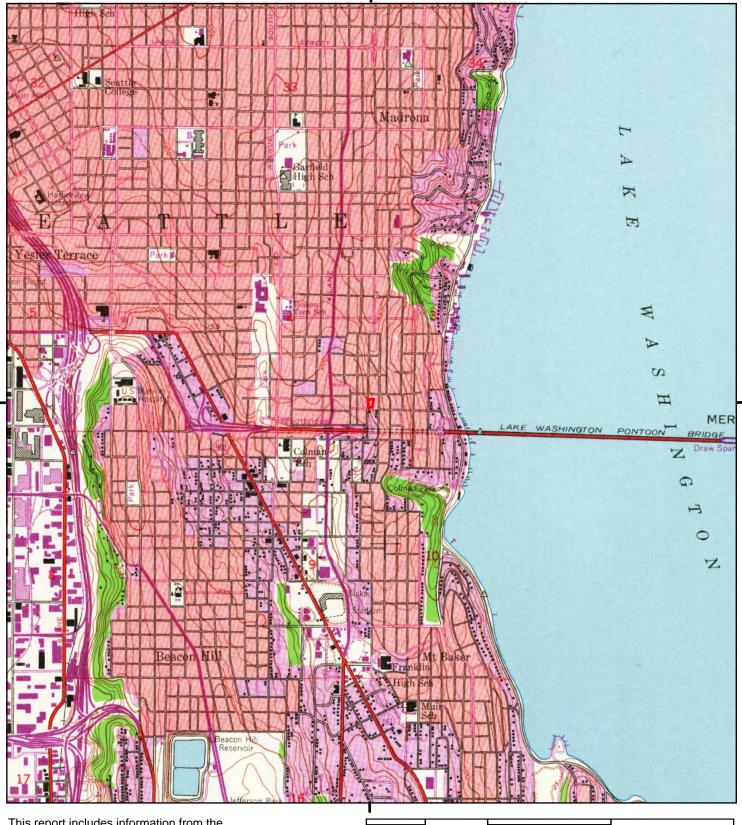
Irving & Yakima Seattle, WA 98144

CLIENT: EHS International, Inc.

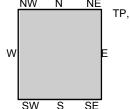
0.5







This report includes information from the following map sheet(s).



TP, Seattle South, 1968, 7.5-minute

SITE NAME: Irving & Yakima

0.25

0 Miles

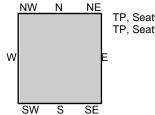
ADDRESS: Irving & Yakima

Seattle, WA 98144
CLIENT: EHS International, Inc.

0.5



0 Miles



TP, Seattle Special, 1909, 15-minute TP, Seattle, 1909, 15-minute

SITE NAME: Irving & Yakima Irving & Yakima ADDRESS:

0.25

Seattle, WA 98144

EHS International, Inc. CLIENT:

0.5

page 11

TP, Seattle, 1908, 15-minute W

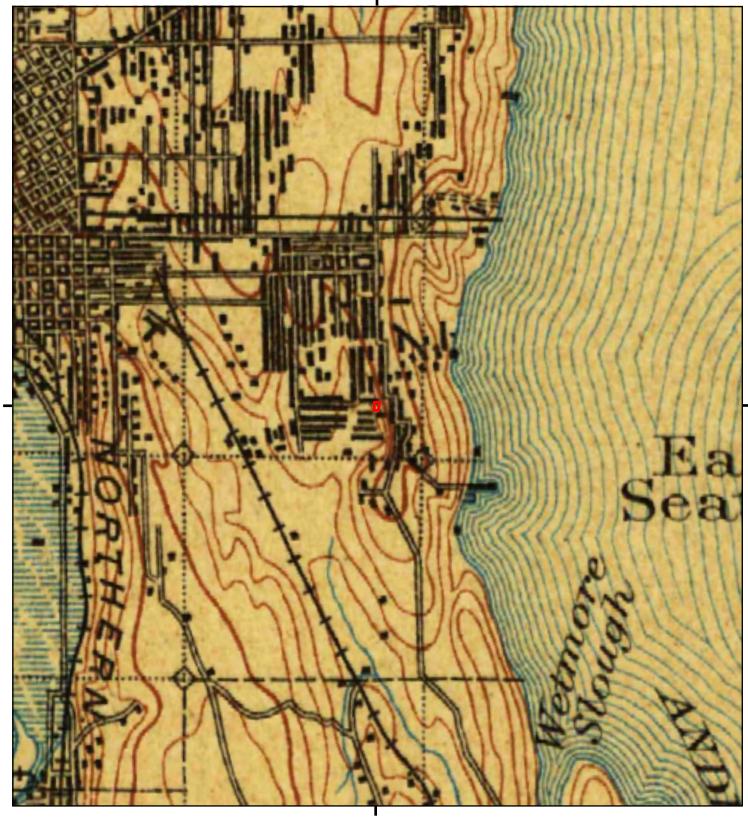
SW

SITE NAME: Irving & Yakima

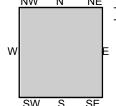
Irving & Yakima ADDRESS: Seattle, WA 98144

EHS International, Inc. CLIENT:





This report includes information from the following map sheet(s).



TP, Seattle, 1897, 30-minute TP, Snohomish, 1897, 30-minute

SITE NAME: Irving & Yakima ADDRESS: Irving & Yakima

0.25

0 Miles

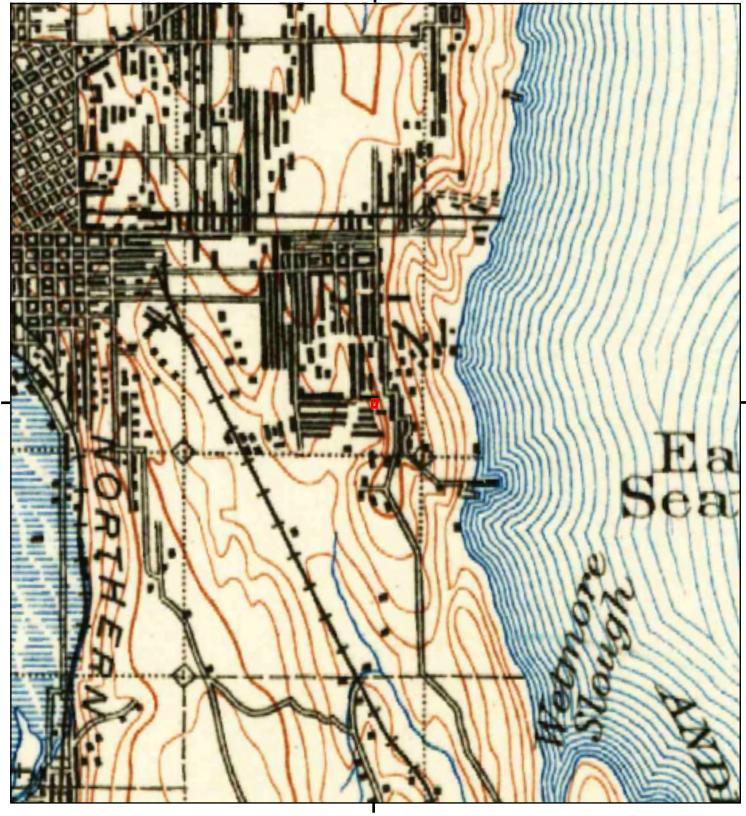
Seattle, WA 98144

CLIENT: EHS International, Inc.

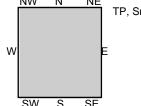
0.5







This report includes information from the following map sheet(s).



TP, Snohomish, 1895, 30-minute

SITE NAME: Irving & Yakima

0.25

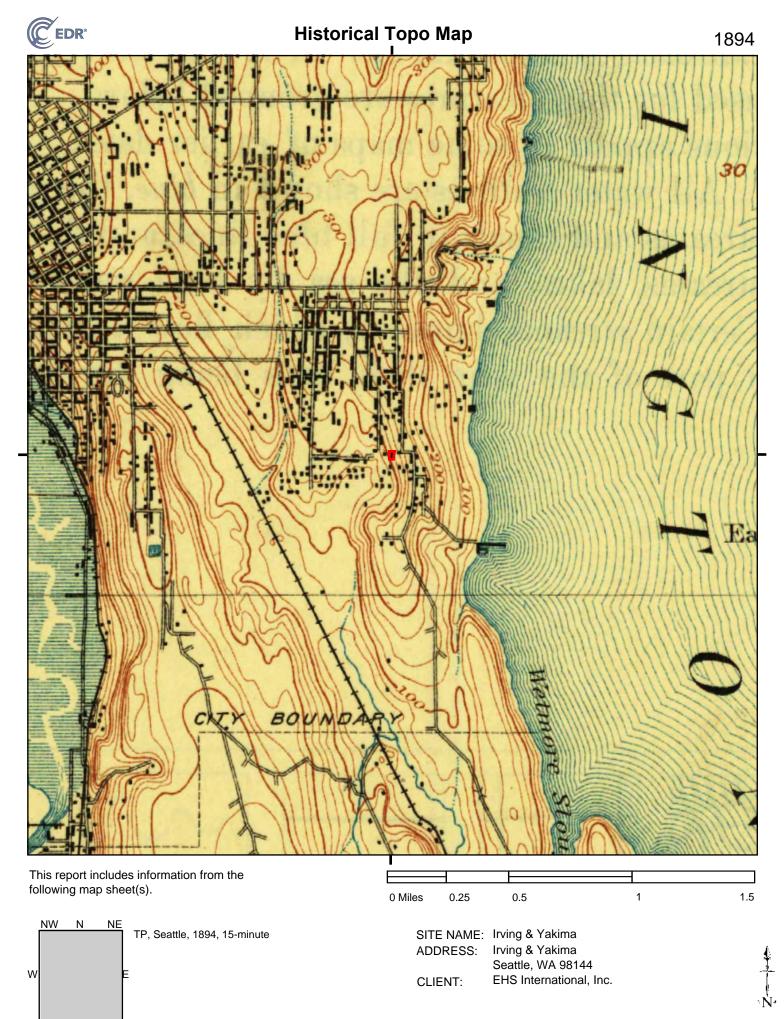
0 Miles

ADDRESS: Irving & Yakima Seattle, WA 98144

CLIENT: EHS International, Inc.

0.5





## Appendix H

**Tax Assessor Archives** 



1. DISTRICT 2.	ADDITION	JACKSON &RA	LINTER SES		. 4	7
	SECTIONTWP	34 N. RANGE 4	EWM. BLOCK TR	ACT OR LOT NO.	1 - of de to	
MIMITS	DESCRIPTION					,-
ODE NO.						
		y 1302 Yak	-1		Jalio 2499-B	
PERMIT NO.	ADDRESS OF PROPERT		ima Ave.			
5.	ARCHITECT			CONTRACTOR		
6.	ORIG. BUILDING COST	SOCCUPIE	D BY Owner RENTAL PL	ER MONTH &		
8. BUILDING	CONDITION OF EXTERIO	OR	INTERIOR FOU	NDATION Fair	FLOOR PLAN Accent	
2 Fmly Dwlg	None	PORCHES 1 2Story	9. CORNER JOINTS 301021	DOWN SPOUT	s SEWER CONNECTED Yes	
2 Stories			11. FIRST FLOOR JOIST SUPPORT	COLUMN OR POST SIZE	INCH CENTERS BRIDGED Plaster	
8 Rooms 4 1st Flr		EXTRA FEATURES	12. CLASS OR GRADE NO. 3		SHAPE NO.	
4 2nd Flr		None	13. BUILDING FINISHED OR UNFIN	Finished Finished	~	
INTERIOR WALLS	ATTIC		14. DEPRECIATION: CONDITION_	OBSLSE.	% ECON. SUIT% TOTAL	L0
8 Plaster	None -	BUILT-INS	TEFFECTIVE AGE_	YEARS FUTU	RE LIFE / 7 YEARS	
O graster		Usual		LAND INFORMA		
		CONSTRUCTION	1. SIZE X TOPOC	RAPHY SIDDING	GRADE Above 12 F	EE'
FLOORS	HEATING	Dbl. Good	3. SIDEWALK COLIC. SEW	ERAGE YES WE	LL FIECT DUMP	
7 Pir .	Hot Water	CEILING HEIGHT	4. LANDSCAPING LOWI 5: 31	rubs Stone Bulk	head conn Fair	
1 Conc.	OI DAINES'	lst Flr 9'	5. TREND Static	VALUE OF LAND		
FIRE PLACE		2nd Flr 9'	6. USE OF DISTRICT Res.  7. RESIDENTIAL ME	ed01a	view None	
	BASEMENT		REMARKS		ZONED	
None	_None	F3.49	a- B-		]	
INTERIOR TRIM		1 391	7-1	TA.	WALKE BOOK STORY	
7 Fir					MAIN BUILDING DIMENSION SQ. FT. AREA	
			1 *	-125	28 × 28 784	
PLUMBING	FOUNDATION				x	
6 Fixtures	Conc.	States Asses			X X	
	Pch. Conc.	JACK	SON & RAINIER		PCH. 7 x 28 196	
1 Toilet	_Comp.	A FF			PCH. X	
2 Sink			3-3		IMPROVEMENT VALUE	
1 H.W. Tank	EXTERIOR WALLS		-2	Luga No. 20	MAIN BUILDING \$OTHER BUILDINGS \$	
	Shingles	1302-	Yakima- Ave.		TOTAL \$ 8007 /20	200
				# 1 W	ASSESSED VALUE 50% \$ 40 6	0
				Annual Control of the	DATE 9-8-37 ROOV LOO	3
OTHER BUILDINGS			=	The second second	5,000	est21 —
GARAGE	CONSTRUCTION	FLOOR ROOF STY.	DIMENSION AREA VALUE		FLOOR PLAN	
			x		SC10'=1"	7
			X			
			X		* * * * * * * * * * * * * * * * * * * *	
0			X	1111111111		
C OWNER OR CONT	RACT PURCHASER	DATE FILE NO	D. PRICE MTGE. STAMP			
				100 4 4 4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
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				3 Kp. 3		
				Tre. 3		
REMARKS CLA	for Carlos as the	Ranges Sta	ada	3 Rp. 3.		
REMARKS CLA	Jackson 4	Rainer Sta	ada	TP. S		
REMARKS OLS	Jackson 4	Ringe Sta	ada	13'	/3-	
REMARKS Clas	Jackson 4	Rainer Sta	ada	13'	F.N.C. R. P.	
REMARKS OLS	4 Jackson of	Raines Sta	ada	13'	ENC-RP	
REMARKS CALS	Jackson 4	Range Sto		13'	E.N.C. R.P.	
REMARKS CLAS	<u> </u>	Recognitive States		131 17. p	F.N.C R P.	
REMARKS CAS	Jahren H	Range Sta		13'	15 ENC-R-P	
REMARKS CLAS	<u> </u>	Range Sta		18' P. P.	E.N.C R P.	
REMARKS OLS	3 Jackson T	Rame Sta		13'	E.N.C R P.	

4410 0190 4 TRACT OR LOT NO. 6		0 X -190 0010	215°	STREET-ROAD Graded SURFACE Paved	TREND Statio VALUE OF LOT \$ FRONT STREET	MedOld Zoned 12th The	ALUE LA	LOT \$	ZES	LANDS		DATE												2
3 6 4 4 1 O		364410=0190	CONTRACT PURCHASER	1 -	ATER JOY MAND	REDIT		ALUE ACRE VALUE	69 8	<b>V</b>	us.	MTGE. STAMP	METRI		DECREASE IN		. t.		0				<b>3</b>	
				LAND INFORMATION GRADE ADOVE 10			-	-				PRICE	WATER FIRE	NOTATI	REASON	1		g.	-6/8 0-05				E SON FRATII PRINTING CO.	
& RAINTER STS RANGE				Sloping	SEWAGE	DEPTH FACTOR \$		NO. ACRES			TOTAL	FILE NO.	всноог м	DECEMBER OF INCREASE IN ACCRECATE TAX	REA	Wind Table	EXEMPT	an lan	260*364410-0190-0	600			TRA THE TRA	¥
JACKSON & BA.	9-66		S. C.	TOPOGRAPHY COMC.	L K	CTOR \$	CIVATO GROWN SOCIO					DATE (10.10) VIII	SC	THE STATE OF THE S	ВУ	Ç	'mct.	13.84	T 260	Sa			NO. DATE OF	
ADDITION SECTION 4 T	1= 24		14		3. SIDEWALK	Res.	HOYT IIOS				×	CONTRACT PURCHASER	Q		DATE		7-45	3-5-64	8	522-71			SDR - SEATTLE W	
SE S	70		3. ADDRESS OF PROPERTY. 4. FEE OWNER	1. SIZE OF TRACT OR LOT	D N I	FACTOR \$ ROS.	LAND				O LAND SIZE	WWER OR CONTRA	DISTRICT: ROAD	ASSESSED VALUE	YEAR AC. LAND		1947 160	s us	171 XL 260 (	1972 1200	19	61	VACANT KING COLINTY ASSERS DR SKATTLE, WASHINGTON	

3 6 4 4 1 O O O O O O O O O O O O O O O O O	-+3 <del>0</del>	SER S	Grad ed	STATIC DRAINAGE FRONT STREET -01d	ALUE LAND  *  *	TIMBER TOTAL ASSESSED VALUE 50% S.	DATEREMARKS		Q	INCREASE					
TWP. 24 N. RANGE 4 EWM. BLOCK #3 TRAN	364410-0195 X	CONTRACT PURCHASER	APHY Sloping GRADE Above 10 FT. 2.	TOR \$	STAND NO. ACRES VALL	TOTAL	DATE FILE NO. PRICE MTGE. STAMP	SCHOOL WATER FIRE	REASE IN ASSESSED VALUATION	REASON DECREASE	260*364410-0195-0 8/9	P. 20		4	TAA II RINTI IG CC BE TIE
1. DISTRICT 2. ADDITION H TWP. Z DESCRIPTION	0. L. CODE NO. 7-2499-13	3. ADDRESS OF PROPERTY.	1. SIZE OF TRACT OR LOT X TOPOGR ALLEY NO 3. SIDEWALK CORC.	NG NODE SIDE STR	LAND USE SOIL TYPE CROPS-TIMBER	O LAND SIZE X	C OWNER OR CONTRACT PURCHASER DA	DISTRICT: ROAD Souttle 1	ASSESSED VALUE DECREASE OR INCREASE	YEAR AC. LAND DATE BY	19 65   120   3-5-44   12   18   1   18   1   18   1   18   1   1	1972 1200 52271 D. D.	61	19	VACANT KING COUNTY ASSESTOR SEATTLE, WASHINGTON

02005 C		0100 Oct X	DER	FT. 2. STREET-ROAD Graded surface Payed	DRAIN DE LOT &	Zene of Bea	AS	LOT	IMPROVED ACRES	LANDS		TOTAL ASSESSED VALUE 50% \$	REMARKS.				Q	INCREASE									
3 6 4 4 1 0		364410=0200	CONTRACT PURCHASER	АТІРВ	ER Cit			S \$	<del>()</del>	₩ 4	) <b>(</b> 4)	MTGE. STAMP					LAND	DECREASE				8/9					., SEATTLE
SATINTER 3TS EWM.				LAND	NDITION		$\perp$	NO. ACRES VALUE				NO. PRICE			WATER FIRE		ED VALUATION	REASON	L C	F. B.		260*36441C-02CO-0 8	24-0				FRAVN PRINTING CO., SEATTLE
JACKSON &				TOPOGRAPHYSloping	SEWAGE	DEPTH FACTOR \$					TOTAL	FILE	1885 M	2	SCHOOL		DECREASE OR INCREASE IN ASSESSED VALUATION		-X-X	P. EX	The same of the sa	260*3644]	R.S.				
TWP 34	Or Or	7-6		-		ACTOR \$		ONAIG MARKET STAND				R DATE	0.00			-	ASE OR INCRE	ВУ		me.	126	<b>I</b> -m	Da			•	WASHINGTON
ADDITION 4	DESCRIPTION CAC	8	ITV K	X	None 3. SIDEWALK	SIDE STREET FACTOR					×	OWNER OR CONTRACT PURCHASER	Palle		O.		DECRE	DATE		9-79-59	3-5-64	· 60	5-22-7/				ACANT KING COUNTY ASSESSOR SEATTLE, WASHINGTON
ni ed-		i di	ADDRESS OF PROPERTY	SIZE OF TRACT OR LOT	PING MC		-				-	OR CONTR.	The same of the sa		CT: ROAD	Seattle 1	ASSESSED VALUE	LÀND		130	130	250	1200	,			COUNTY ASSE
I. DISTRICT	LIMITS	CODE NO.	3. ADDRESS OF	SIZE OF T	ALLEY NO	FACTOR \$				=	LAND SIZE	OWNER			DISTRICT:		ASSESSI	YEAR AC.	938	CH6	~	1571 ML	200	o	5 O	19	ACANT KING

O 2055/	00100 × x 2	JE R.		ORMATION  DOVE 8 FT. 2. STREET-ROAD GRAGE  WATER C1 ty Weter PHUMP  DRAINAGE	/ALUE OF	Med01d Loss, lot Bes.	ASSESSED VALUE LAND	MPROVED ACRES	OTHER LANDS	TIMBER	TOTAL ASSESSED VALUE 50% \$	DATE.	REMARKS.				Q <sub>2</sub>	INCREASE								
410	364410-0205	CONTRACT PURCHASER	2.5	8 Fr. 2. ty Water	5. TREND		ALUE					STAMP					LAND	DECREASE								
364410 BLOCK 3 TR	3644	CONTRAC	2 -	INFORMATION  SE Above 8  WATER C1 ty	i i	7. DISTRICT	VALUE ACRE VALUE	44	6	th.	44	MTGE.			ONLIN							8/9				TO. SEATTLE
部			-5-2	CRADE A			$\square$	en-				PRICE			WATER FIRE		ATION	NO	R.			205-0				STATE FOATN BPINTING GO. SEATTLE
RATINTER			-/	_ ag	CONDITION		NO. ACRES					ÖZ	<i>t</i>		W		ESSED VALUATION	REASON		XEMPT		4410-0205-0	5			Yas diseased
JACKSON &			1	S (2)	100		LAND				TOTAL	FILE	399		SCHOOL		IN ASS			EX.	3/	260*364	Si			
1.74	S.		(j)	TOPOGRAPHY.	6	•	CROPS-TIMBER STAND			447		DATE	10/0/01/01	, i	80		OR INCREASE	BY		m &.	6	2	7			NOTOP
ТМР	-66		141214	FWAIX	90	FACION	CROPS					SER					DECREASE OF			-	77	ju-	8			TLE, WASHIN
ADDITION———————————————————————————————————	Fay 99			×	- Part 1	Res	SOIL TYPE					T PURCHA	wheth				DEC	DATE		7-45	3-5-28-58	æ	5.227			SOR - TEAT
2. ADD		PROPERTY		T OR LOT.			SOIL				×	OWNER OR CONTRACT PURCHASER	Jan St.		ROAD	Seattile 1	VALUE	LAND		100	130	0	200			SESSE YTKU
DISTRICT	O. L. CODE NO.	ADDRESS OF PROPERTY	FEE OWNER	SIZE OF TRACT OR LOT	LANDSCAPING	USE.	LAND USE				LAND SIZE	OWNER O	courter .		DISTRICT:	Sea	ASSESSED VALUE	YEAR AC.	+	44.	0 9 60	971 XL	1 2/6	0 0	0	ACANT - EING COUNTY ASSESSOR - SEATTLE, WASHINGTON

TRACT OR LOT NO. 10		0100 Cet x 0	SER	STREET.ROAD Graded SURFACE PAVOD	DRAIN	Stati GALUE OF LOT \$ FRONT STREET	Wed - Old	ASSESSED VALUE I	TOT S	UNIMPROVED ACRES		TIMBER	ASSESSED VALUE 50%		REMARKS				(I)	INCREASE								
3 6 4 4 J'O		364410-0210	CONTRACT PURCHASER	INFORMATION  Above 8 FT. 2.	WATER CITY TREE	5. TREND	CREDIT	DISTRICT	VALUE ACRE VALUE	un un	69	49	t/s	MTGE, STAMP					LAND	DECREASE				8/9				CO., SEATTLE
ew.			1000 62	Sloping GRADE		CONDITION	DЕРТН FACTOR \$		NO. ACRES VALI	₩				E NO. PRICE	da		WATER FIRE		SSED VALUATION	REASON	· Supplement		12	4410-C210-0	250			FRAYN PRINTING CO., SEATTLE
JACKSON & RATINGER			V.	TOPOGRAPHY S10					CROPS-TIMBER STAND				TOTAL	DATE FILE	1. J. C. J. 3.83		SCHOOL		DECREASE OR INCREASE IN ASSESSED VALUATION	ву	nd.	R	38	260*364	a R			GTON
SECTION 4 TWP.	DESCRIPTION	8	pres 9	×	3. SIDEWALK	None	SIDE STREET FACTOR \$		SOIL TYPE CROPS					CT PURCHASER	HAC				DECREASE OR	DATE	277 6	77 85-87-8	3-5-64 13	₩ Ω	522-71 6			SOR — SEATTLE, WASHIN
SECTION SEC		CODE NO.	3. ADDRESS OF PROPERTY. 4. FEE OWNER.	1. SIZE OF TRACT OR LOT	ALLEY NO	4. LANDSCAPING	FACTOR \$		LAND USE SOIL				O LAND SIZE X	C OWNER OR CONTRACT PURCHASER	of the day		DISTRICT: ROAD	r primary	ASSESSED VALUE	YEAR AC. LAND	19 30		1965 130	19 71 XL 260	18/2 1206	19	61	19   VACANT KING COUNTY ASSESSOR SEATTLE, WASHINGTON

364410 TRACT OR LOT NO. 11	200 0010		INFORMATION  E ÅBOTE 8 FT. 2. STREET-ROAD Graded SURFACE Paved	PUMP DRAINAGE STREET	to lat	ASS		UNIMPROVED ACRES		TIMBER	TOTAL ASSESSED VALUE 50% &	DATE	REMARKS.					INCREASE	W .						The state of the s		
TRA	364410+0215 X	CONTRACT PURCHASER	TATION TO BET 2. ST	ER CI LY HE UGT			VALUE ACRE VALUE	<b>(5</b> )	10	₩.	<b>(</b>	MTGE. STAMP	<u>æ</u>				LAND	DECREASE IN									EATTLE
- S	3644	8	LAND INFORM			-	_			<b>,</b>		PRICE			WATER FIRE		LUATION	REASON	1 Pro-			52	410-0215-0 8/9				FRAYN PRINTING CO., SEATTLE
JACK SON			Sloping	SEWAGE	DEPTH FACTOR \$		AND NO. ACRES				TOTAL	FILE NO.	35.26.8	*	SCHOOL		N ASSESSED VA	<b>8</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EXEMP	Jung.	36	400*364410-0	ROB			A STATE OF THE PARTY OF THE PAR
TWP. 24 N. RANGE	9-	0)	TOPOGRAPHY	SIDEWALK GODG.	TOR \$		CROPS-TIMBER STAND					DATE	4.0.04		SCF		DECREASE OR INCREASE IN ASSESSED VALUATION	BY	0	met.	i de	13.08	T 400	D. Que	-		ASHINGTON
J NO	F 34 99	Win a		None Storman	SIDE STREET FACTOR		SOIL TYPE CF					OWNER OR CONTRACT PURCHASER	Laskell				DECREAS	DATE		7-45	10-114-53	3-5-64	<b>*</b>	5-22-71 8			19       VACANT — KING COUNTY ASSESSOR — SEATTLE, WASHINGTON
ni ni		ADDRESS OF PROPERTY.	SIZE OF TRACT OR LOT		Res	+					IZE X	OR CONTRA	of the sa		CT: ROAD	Seattle 1	ASSESSED VALUE	LAND	0//	2//		300	400 B	960			COUNTY ASSES
. DISTRICT	CODE NO.	3. ADDRESS O	. SIZE OF TI	ALLEY	FACTOR \$		LAND USE			ļ	LAND SIZE	OWNER			DISTRICT:		ASSESSI	YEAR AC.		1947	V -	19 62	17 1 × 11 × 11 × 11 × 11 × 11 × 11 × 11	1979	19	19	19 VACANT - KING



1. DISTRICT 2.	ADDITION TWP	JACKSON & RA	ITNIER	6/40
	SECTIONTWP.	34 N. RANGE 4	EWM. BLOCK 3 TRACT OR	LOT NO. # lot 16 Kall of 17 Kn 15 a lot 18
LIMITS	DESCRIPTION		33 9 2	
O. Z.				Valio 2499 - B
	ADDRESS OF PROPERTY	1715 70+h 170	Cou+h	
PERMIT NO.	ADDRESS OF PROPERTY	MCO. CAPPE	South	RACT PURCHASER
5.	ARCHITECT			RACTOR
		OCCUPIED	BY Owner RENTAL PER MON	TH \$ESTIMATED RENTAL PER MONTH \$
	CONDITION OF EXTERIOR		NTERIOR GOOD FOUNDATIO	N_GoodFLOOR PLAN Accept
8. BUILDING 1 Fmly Dwlg	None	PORCHES 2 1 Story	9. CORNER JOINTS NITERIO	DOWN SPOUTS SEWER CONNECTED Yes
1 Story V		2 Roofed		IN OR POST SIZE 6 X 6
16 Rooms		LBreed + Cont. EXTRA FEATURES	12. CLASS OR GRADE NO. 3	
4 lst Flr 2 Attic		None	13. BUILDING FINISHED OR UNFINISHED	Finished  40  5 OBSLSE SECON. SUIT TOTAL 43.
S ASOVIC	ATTIC 30%	- ROITE	14. DEPRECIATION: CONDITION 33	% OBSLSE % ECON. SUIT % TOTAL / %
INTERIOR WALLS	2-Plaster	BUILT-INS	SFFECTIVE AGE 1-4	REMODELED
6 Plaster	Stairway Useful	Kit-Gab.	L	AND INFORMATION
I Plaster Bri		CONSTRUCTION		Sloping GRADE On Grade FEE
10 Kalsamine	HEATING	Dbl. Med.		SURFACE Paved ALLEY NO Yes WELL ELECT. PUMP
	Hot Air Furn.			COND. Good
7-6 Fir	oil Burner and	, CEILING HEIGHT	5. TRENDStatic VALUE	E OF LAND
		Bsm't 8' Lst Flr. 8' 11"	6, USE OF DISTRICT 108	VIEW NO 1 Per
FIRE PLACE		Attic7' to 48"	7. RESIDENTIAL MEG. 11d	ZONED
Mone	BASEMENT Full			
INTERIOR TRIM	Frame & Conc.	F.24	99-B	
1-8 F1r	5 3 Conc. Flr.	, ,	d	DIMENSION SQ. FT. AREA
				25 × 30 750
PLUMBING	FOUNDATION	Į.		X
				X
7 Fixtures	Conc.		KSon	x PCH. 5 × 10 50
2 7 Tollet	Pch. P & B ROOF CAMP	A KAL		PCH. 5 X 9 45
1 Basin	Shingle		D 31	IMPROVEMENT VALUE
2 Sink	EXTERIOR WALLS			MAIN BUILDING \$ 920
1 II W Memle		AV2 III III		
1 H.W. Tank	Cedar Siding		1315-30 Ave. So	OTHER BUILDINGS \$ 24
) Shower	COMPOSTION		1315 30 Ave. 50	OTHER BUILDINGS \$ 29 HOURS TOTAL \$ 1770 4500 ASSESSED VALUE 50% \$ 470 750
			1315 30 Ave- 50	OTHER BUILDINGS \$ 24 TOTAL \$ 1770 7500 PATE 9.8.37 700
) Shower	COMPOSTION		7315 30 Ave- So	OTHER BUILDINGS \$ 29 HOURS TOTAL \$ 1770 4500 ASSESSED VALUE 50% \$ 470 750
1 Edy Try ) Shower Average OTHER BUILDINGS	COMPOSTION  ITAM. Stain-		DIMENSION AREA VALUE	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700
1 Ldy Try ) Shower Average	Emplospion	Bô Shg 1	DIMENSION AREA VALUE  1% × 16 192 \$ 3/	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% \$470 750 DATE 9-8-37 700
1 Ldy Try 1 Shawe'r Average OTHER BUILDINGS GARAGE 1	COMPOSTION  ITAM. Stain-		DIMENSION AREA VALUE	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700
1 Ldy Try 1 Shawe'r Average OTHER BUILDINGS GARAGE 1	COMPOSTION  ITAM. Stain-	Bô Shg 1	DIMENSION AREA VALUE  1% × 16 192 \$ 3 /  20 × 2 / 4/2/1  x  x	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700
1 Ldy Try 1 Shawe'r Average OTHER BUILDINGS GARAGE 1	COMPOSTION  ITAM. Stain-	Bô Shg 1	DIMENSION AREA VALUE  1% × 16 192 \$ 3 / 20 × 2 / 42/) ×	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  ITAM. Stain-	Bô Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bà Shg 1	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5   5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  I mit. dian.  CONSTRUCTION  Sg1	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  12 × 16 192 \$ 3 / 20 × 2 / 4 2 / 5	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% 470 750 DATE 9-8-37 700 FLOOR PLAN SCIO'-I"
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  1% × 16 192 \$ 3 /  20 × 2 / 4 2 /  x  x  x  O. PRICE MTGE. STAMP	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% \$ 470 250 DATE 9-8-37 722  PLOOR PLAN  SCIO'-I'  75' 76' 76'
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  1% × 16 192 \$ 3 /  20 × 2 / 4 2 /  x  x  x  O. PRICE MTGE. STAMP	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% \$ 470 250 DATE 9_8_37 707 2200 //65
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  1% × 16 192 \$ 3 /  20 × 2 / 4 2 /  x  x  x  O. PRICE MTGE. STAMP	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% ### 250 DATE 9-8-37 R200 ###  FLOOR PLAN SC/6'=/"  75' 76'
O Ldy Try  J Shower  Average  OTHER BUILDINGS  GARAGE 1  " , 9 4	COMPOSTION  TRACT PURCHASER	Bô Shọ 1 Conc Cong,	DIMENSION AREA VALUE  1° × 16 192 \$ 3 / 20 × 21 421    x  x  x  n  O. PRICE MTGE. STAMP	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% \$ 470 250 DATE 9_8_37 707 2200 //65

1. DISTRICT 2.	ADDITION	JACKSON 8	RAINTER SES.			65
	SECTION TWP.	34 N. RANGE 4	EWM. BLOCK	C 3 TRACT	OR LOT NO. 20	ot 19×20×110'oflot21
LIMITS  Q. Lo.  CODE NO.				0	0, 000 1, 00	Dalio 2499-
The state of the s	ADDRESS OF PROPERTY	y1323	30th Ave. S.	co	NTRACT PURCHASER	•
4.		ESTINO	MATOZZA.	4	1-12-21	6-7-21
	ORIG. BUILDING COST	OCCUPIED	Owner Owner	CO CO	NTRACTOR	STIMATED RENTAL PER MONTH \$
7.	CONDITION OF EXTERIO	R Fair	NTERIOR Fair	FOUNDAT	TION Fair	FLOOR BLAN Accept
8. BUILDING 1 Fmly Dwlg	None	PORCHES 3 1 Story	9. CORNER JOINTS_	Mitered	DOWN SPOUTS	S SEWER CONNECTED Yes
1 story		1 Roofed	11. FIRST FLOOR JOI	ST SIZE ~ )	UMN OR POST SIZE	INCH CENTERS BRIDGED
7-5 Rooms 5 1st Flr		2 Rec.	12. CLASS OR GRADE	NO. 3		SHAPE NO.
2 Bones.			13. BUILDING FINISH	ED OR UNFINISHI	Finishe Finishe	ed _% ECON. SUIT% TOTAL 57
INTERIOR WALLS	ATTIC	BUILT-INS				LEDYEARS
5 Plaster	None	Kit-Cab	-EFE	ECTIVE AGE	LAND INFORMAT	
2 " Brt.		5 CONSTRUCTION	1. SIZEX	TOPOGRAP	HY Sloping	GRADE On Grade
	HEATING was Control	Dbl Med	2. STREET ROAD	Graded	SURFACE Pave	edALLEY_NO
FLOORS	Pipeless Furn.		4. LANDSCAPING	awn & Shrub	GE 188 WEL	LL ELECT. PUMPCOND GOOd
1 8 Fir	Conv.	Bsm' 7' 6"	5. TREND Stati	CVAL	LUE OF LAND	
		lst Flr 9'	6. USE OF DISTRICT	MedOld	-	VIEW_NO
FIRE PLACE	BASEMENT Full		REMARKS			
None	Frame & Conc.	F'2499	7-B		<u> </u>	
INTERIOR TRIM	4 3-6"			هم	W	MAIN BUILDING
7-3 F1F	Badly crooked					DIMENSION SQ. FT, AREA
PLUMBING	FOUNDATION					x × ×
6 Fixtures	Conc.	1 2071		1 Carry		X Dob AV 5
1 Tub-Leg	2 Cone Pousey.	5.63	ANTERIA PARA	4-27-	8	Pch 4× 5 20 Pch. 4 × 4 16
1 Toilets	Shingle					PCH. 5 × 7 35
	7-1-6-1	Mile Jac			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IMPROVEMENT VALUE
_l Sink	EVTERIOR WALLS			13-3		MAIN BUILDING \$ 470
- 1 H.W. Tank	EXTERIOR WALLS			13-3 L-3		OTHER BUILDINGS
l Ldy Try	Cedar Siding		Merch Par	B-3 L-3	20 + 20-A	
- 1 H.W. Tank	Cedar Siding		Lander Rai	B-3 L-s	20   The state of	OTHER BUILDINGS \$ 7 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
l H.W. Tank l Ldy Try  Average	Gedar Siding	ELOOP BOOK STY	TOOK SON ROLL	B-3 L-S	2 o - A	OTHER BUILDINGS \$ 785 TOTAL \$ 48 9 985 ASSESSED VALUE 50% \$ 2 45 45 8
l Ldy Try	Cedar Siding	FLOOR ROOF STY.  Bd She 1	DIMENSION AREA	VALUE	20 + 20-A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 H.W. Tank 1 Ldy Try  Average  OTHER BUILDINGS	Cedar Siding Shakesang		11×17 187	1 4	2.0 + 20-A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 98 5 A 58 5 A 5
1 H.W. Tank 1 Ldy Try  Average  OTHER BUILDINGS	Cedar Siding Shakesang		11×17 187	1 4	2 o - A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1 H.W. Tank 1 Ldy Try  Average  OTHER BUILDINGS	Cedar Siding Shakesang		11×17 187 × ×	1 4	2 o - A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong		11×17 187 x x x x	\$ /3	2 o A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong.  CONSTRUCTION Sgl	Bd She ]	11×17 187 x x x x	\$ /3	2 o A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong.  CONSTRUCTION Sgl	Bd She ]	11×17 187 x x x x	\$ /3	2 o - A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong.  CONSTRUCTION Sgl	Bd She ]	11×17 187 x x x x	\$ /3	2 o - A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong.  CONSTRUCTION Sgl	Bd She ]	11×17 187 x x x x	\$ /3	2 o A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong.  CONSTRUCTION Sgl	Bd She ]	11×17 187 x x x x	\$ /3	20-A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong.  CONSTRUCTION Sgl	Bd She ]	11×17 187 x x x x	\$ /3	20-A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong.  CONSTRUCTION Sgl	Bd She ]	11×17 187 x x x x	\$ /3	t 20-A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakesong.  CONSTRUCTION Sgl	Bd She ]	11×17 187 x x x x	\$ /3	20 A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
l H.W. Tank l Idy Try  Average  OTHER BUILDINGS GARAGE 1	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	Bd Shg ]  DATE FILE NO	11×17 187 x x x x	\$ /3	20 A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
O C OWNER OR CONT	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	Bd Shg ]  DATE FILE NO	X X X X X X X X X X X X X X X X X X X	\$ /3	t 20 A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
O C OWNER OR CONT	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	Bd Shg ]  DATE FILE NO	X X X X X X X X X X X X X X X X X X X	\$ /3	1 2 0 A	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 6 ASSESSED VALUE, 50% \$ 2 40 46 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
O C OWNER OR CONT	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	Bd Shg ]  DATE FILE NO	X X X X X X X X X X X X X X X X X X X	\$ /3	7/-	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
O C OWNER OR CONT	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	Bd Shg ]  DATE FILE NO	X X X X X X X X X X X X X X X X X X X	\$ /3	7/ R.p.	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
O C OWNER OR CONT	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	Bd Shg ]  DATE FILE NO	X X X X X X X X X X X X X X X X X X X	\$ /3	A P	OTHER BUILDINGS \$ 78 5 TOTAL \$ 48 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
O C OWNER OR CONT	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	Bd Shg ]  DATE FILE NO	X X X X X X X X X X X X X X X X X X X	\$ /3	t o A	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% \$ 2 40 450 DATE 9 9 37 1600  FLOOR PLAN 3C /0 =/*
O C OWNER OR CONT	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	Bd Shg ]  DATE FILE NO	X X X X X X X X X X X X X X X X X X X	\$ /3	t o A	OTHER BUILDINGS TOTAL ASSESSED VALUE 50% \$ 2 40 450 DATE 9 9 37 1600  FLOOR PLAN 3C /0 =/*
O C OWNER OR CONTRACTOR	Cedar Siding Shakes Ong.  CONSTRUCTION Sgl	DATE FILE NO F	X X X X X X X X X X X X X X X X X X X	E. STAMP	t 20 A	OTHER BUILDINGS TOTAL  ASSESSED VALUE 50% \$ 2 40 4/5 0  DATE 9 9 37 1600  FLOOR PLAN  SC /0 =/*

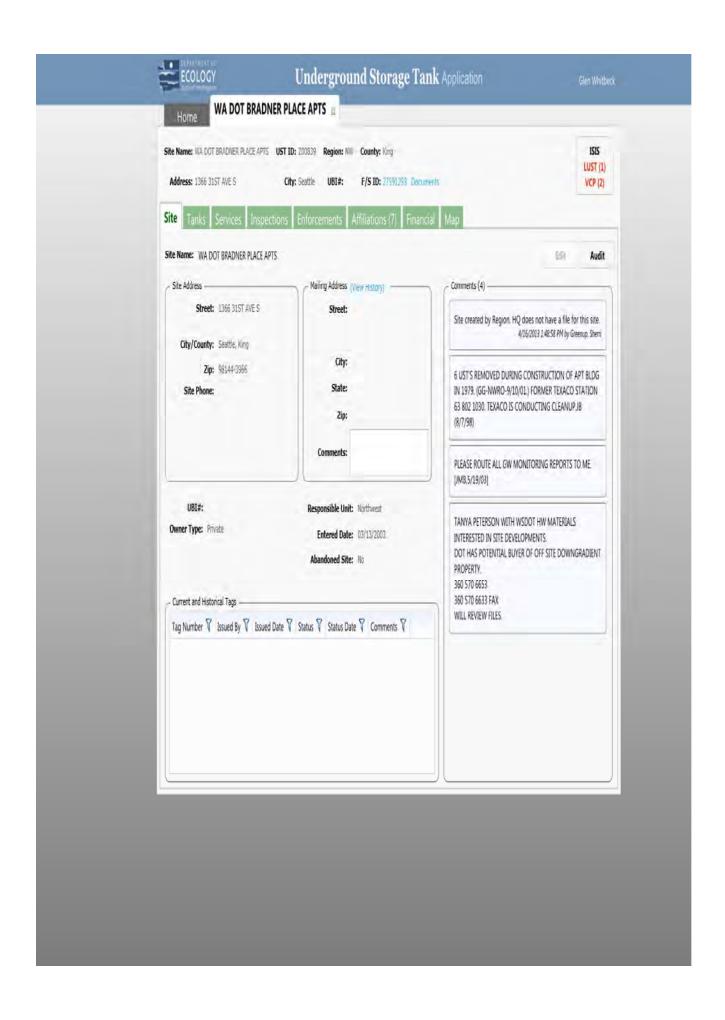
1. DISTRICT 2.	ADDITION	JACKSON & RA	INTER STS.				68-0
	SECTION TWP.	24N. RANGE 4	EWM.	BLOCK 3 TRAC	CT OR LOT NO.	+ 21 V a001	al 0 + 6 2 = 1
LIMITS N. Lo.	DESCRIPTION				3 12 7 20		in 2499-B
Or Lo.							is 2499-B
PERMIT NO. 4.	ADDRESS OF PROPERT	Yelice 1325 30	th Aye: So.	10-2	CONTRACT PURCHASER	<b>?</b>	
025049 130/37 5.	ARCHITECT			•	CONTRACTOR		
6. 7.	ORIG. BUILDING COST S	S OCCUPIED	NTERIOR GOOD	RENTAL PER	R MONTH \$E	ESTIMATED RENTAL PE	R MONTH \$
8. BUILDING  1 Fmly Dwlg	None	PORCHES	9. CORNER J	DINTS	2 10 DOWN SPOUT	S SEWER CONNECTED	No.
1 Story		1_Roofed	10. FIRST FLOO	OR JOIST SIZE	2 10 DOWN SPOUT 2 X AND 18	INCH CENTERS BR	DGED
5 Rooms on 0		1-Rec			SHED Finjshed		
	ATTIC	Bay Window 1st	14. DEPRECIAT	ION: CONDITION	61% OBSLSE	% ECON. SUIT	% TOTAL 32 %
INTERIOR WALLS	None	1 - 3' Dormer		DATE BUILT 19	25 FEARS FUTU	1937	
5 Plaster 5 Ralsonine		Averege			LAND INFORMA	TION	**
- 3 NO 120MINE		CONSTRUCTION	1. SIZE	XTOPOGR	RAPHY Sloping SURFACE PAVE	GRADE On	Grade FEET
FLOORS	Heating Hot Water	Dbl Med.	3. SIDEWALK.	Conc. SEWE	RAGE Yes WE	LLELEC	т. РИМР
5 Fjr	21/ 8027087	CEILING HEIGHT	4. LANDSCAP	ing <u>Lawn &amp; Shri</u>	VALUE OF LAND	COND	Good
*		Bsm't 8' 9" lst Flr 9'			01d		<del>\</del> <del>\</del> <del>\</del> \ \ \ \ \ \ \ \ \ \ \ \ \ \
FIRE PLACE			7. RESIDENTI	AL MedC	016	ZONED_/	TEES
None	BASEMENT Full Frame & Conc.	F-10	1964 A				
INTERIOR TRIM	91 911	Fac	199-B		A.	MAIN E	UILDING
5 Fir	Drain Garage					DIMENSION 24 × 40	SQ. FT. AREA
PLUMBING	FOUNDATION		B-3	3 4-22	▶ T	X X	960
6 Fixtures	Conc.		B-3 O-A JACKSON F	HIMIEK II		x x	A THE SECTION AS A PROPERTY OF SECTION AS A PR
1 Tub-Leg 1 Toilet	ROOF Camp	FER				рсн. 5 х 6	30
1 Basin	Sningle	Jalla Edd			4	PCH4 X 5	20 IENT VALUE
1 Sink 1 H.W. Tank	TOTALS - MONTH   110			Andr. and		MAIN BUILDING	\$
1 Idy Try	Johns-Manyille Asbestos shgls	5-68		. 1325-301	TA AUE SO.	OTHER BUILDINGS	920. 4206
Average		4-06-38 6				ASSESSED VALUE 5	0% \$ 460 600
		- Like of the second				DATE 9-8-37	950
OTHER BUILDINGS	CONSTRUCTION	FLOOR ROOF STY.	DIMENSION A	REA VALUE		FLOOR PLAN	1900
GARAGE 1	n basement		x	\$		FLOOR PLAN	Se 16'-1"
			x		4		*
			x				* * * * * * * * * * * * * * * * * * * *
O OWNER OF CONT	RACT_PURCHASER						
Res annie Vd		DATE   FILE NO		MTGE. STAMP	1-167569.X1L7	567	
		- 4			**************************************		
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			3				
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	• * *	g at			40.4 . 4 4 4 1 4 . 4		
REMARKS	3	son & Ramer L	to add			* * * * * * * * * * * * * * * * * * *	
	2						
1937 Hermit	Bent Garage	Karlend brien			************		
- 1					00 00 00 00 00 00 00 00 00 00 00 00 00		
							6
					2 . 2 s - career . 4 d s	5	R.p.
						24	Drawn Company Company (Company)
V. Comments						• • • • • • • • • • • • • • • • • • • •	
RESIDENCE - KING COUNTY	ASSESSOR — SEATTLE, WASH	INGTON	FRAYN PRINTING CO.,	SEATTLE		FRONT	



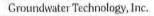
# Appendix I

**Ecology Records** 





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REPORT OF ENVIRONMENTAL SITE ASSESSMENT TEXACO SITE NO. 63-802-1030 1366 31st AVENUE SOUTH SEATTLE, WASHINGTON

GTI Project 020600169

September 13, 1995

Prepared for:

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#### EXECUTIVE SUMMARY

Groundwater Technology, Inc. conducted additional environmental assessment at the former Texaco service station site located at 1366 31st Avenue South, in Seattle, Washington (Texaco Facility # 63-802-1030). The purpose of the investigation was to further assess the groundwater and subsurface soils for the presence of petroleum hydrocarbons. Tasks performed during the assessment included: 1) shallow soil sampling in the southwest quarter of the property; 2) sampling the ambient air in the crawl space under the apartment building; 3) installing one monitoring well (MW-8) in 31st Avenue South, southwest of the site; 4) surveying well MW-8 to the existing arbitrary site datum; 5) submitting one soil sample from the boring for MW-8 for laboratory analysis; 6) gauging the depth to water in the monitoring and vapor extraction wells (except MW-7); 7) sampling the groundwater in the monitoring and vapor extraction wells (except MW-7); 8) disposing of the soil and groundwater wastes generated during this scope of work; and 9) interpreting the data obtained and compiling this report. This scope of work was conducted from July to September, 1995.

### Observations and findings:

- Concentrations of total petroleum hydrocarbons-as-oil (TPH-o) exceeding the Method A Compliance Cleanup Levels [CCL(a)s] for soil were detected at four inches below grade (bg) in the sample location near the southwest corner of the apartment building.
- Two grab samples of the ambient air collected in the crawl space under the apartment building in the vicinity of the former dispenser islands and underground storage tanks (USTs) did not contain detectable concentrations of benzene, toluene, ethylbenzene, total xylenes (BTEX), or total petroleum hydrocarbons-as-gasoline (TPH-g).
- Four Gore-Sorber<sup>TM</sup> adsorbent sampling devices were deployed in the apartment building crawl space for seven days and contained concentrations of BTEX. However, the trip blank also contained concentrations of BTEX. In the case of benzene and toluene, the trip blank concentrations exceeded the exposed sorber concentrations.
- One monitoring well (MW-8) was completed to a depth of 40 feet bg. The boring for monitoring well MW-8 was advanced to a depth of 45 feet bg. Groundwater was detected at 25 feet bg. Static groundwater was measured at 25.73 feet bg. A soil sample collected at 25 feet bg did not contain detectable concentrations of BTEX or TPH-g. The groundwater sample contained BTEX and TPH-g concentrations in excess of the CCL(a)s.



- The depth to groundwater in the wells (except MW-7) ranged from 16.46 feet (VEW-2) to 32.13 feet (MW-5). These water levels are approximately six to ten feet lower than the water levels measured in March, 1995. The groundwater flow gradient was westerly to northwesterly at approximately 20 feet per 100 feet.
- Benzene concentrations in the monitoring and vapor extraction wells exceeded the CCL(a) in all of the sampled wells except MW-4 (well MW-7 was not sampled). The detected concentrations ranged from 13.2 μg/L in MW-5 to 1,300 μg/L in MW-3. TPH-g concentrations exceeding the CCL(a) were detected in MW-2, MW-3, MW-8, VEW-1, and VEW-2. The highest TPH-g concentration detected was in the sample from well VEW-1 with 53,000 μg/L.
- The BTEX and TPH-g concentrations increased since the last sampling event (March, 1995) in the wells where data available, except benzene in MW-2 and BTEX/TPH-g in MW-5.



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#### 1.0 INTRODUCTION

This report presents the work steps and results of additional environmental subsurface assessment conducted by Groundwater Technology, Inc. (GTI) on behalf of Texaco Environmental Services (TES) at the former Texaco Refining and Marketing Inc. (Texaco) service station (#63-802-1030) located at 1366-31st Avenue South, in Seattle, Washington (Figure 1, Site Location Map). The purpose of this work was to further assess the extent and concentration of gasoline hydrocarbons in the building crawl space and in groundwater and soil both on and off site, in accordance with the Washington Department of Ecology (WDOE) Model Toxics Control Act<sup>1</sup> (MTCA). The scope of work included air sampling, shallow soil sampling, installing one monitoring well, and groundwater sampling. The field work associated with this assessment was conducted in July and August, 1995.

The site is a former Texaco service station currently owned by the Washington Department of Transportation (WDOT). A vacant, three story apartment building currently exists on the site. Based on information provided by TES, previous investigations of the site have been conducted by Dames & Moore of Seattle, Washington on behalf of the WDOT. In February and March, 1995, GTI conducted a subsurface environmental assessment of the site on behalf of Texaco.

#### 2.0 SCOPE OF WORK

The following outline summarizes the specific work steps performed by GTI:

- Collected soil samples at 4 and 18 inches below grade (bg) from 21 locations spaced in a grid pattern along the southwest quarter of the property, and submitted them for laboratory analysis.
- Collected four samples of the ambient air in the crawl space of the building with adsorbent material exposed for one week, and submitted for laboratory analysis
- Collected two samples of the ambient air in the crawl space of the building in Tedlar bags, and submitted for laboratory analysis.
- Supervised the drilling for one 45-foot monitoring well (MW-8) boring and collected one soil sample for laboratory analysis.
- Supervised the installation of monitoring well MW-8.
- Developed and surveyed monitoring well MW-8.
- Gauged the depth to water in each of the monitoring and vapor extraction wells (except MW-7).



Washington Department of Ecology (WAC 173-340)

- Collected groundwater samples from each of the monitoring and vapor extraction wells (except MW-7), and submitted for laboratory analysis.
- Arranged and supervised disposal of soil wastes generated from this scope of work.
- Presented this report which includes the analytical results and findings.

## 3.0 SITE SETTING AND BACKGROUND<sup>2</sup>

The site is located in the northeast quarter of the northeast quarter of Section 10, Township 24 North, Range 4 East on the northeast corner of the intersection of South Day Street and 31st Avenue South. The area is a mixed residential and retail district in the Mount Baker neighborhood of Seattle, Washington (Figure 1). The site is situated above the Mount Baker Tunnel which was constructed in 1990 as part of the Interstate 90 Corridor Project. The elevation of the site is approximately 250 feet above Mean Sea Level<sup>3</sup>. The former Texaco site is level with a slight slope to the north and east. The local topography slopes steeply to the east and west within 1,000 feet of the property. Rainier Valley lies to the west of the site and Lake Washington lies to the east. The closest surface water is Lake Washington, located approximately 1,500 feet east of the site.

The subject property covers approximately 12,000 square feet. It was purchased in 1990 by the WDOT along with other properties to the west and north of the site as part of the Interstate 90 Corridor Project. The site currently consists of the three-story Bradner Place Apartment Complex, a covered parking area, asphalt, and landscaping. The apartment building is vacant, as are the other local properties owned by the WDOT.

Hydrocarbon odors were first detected by WDOT personnel in the crawl space under the apartment building during building renovation work. In October, 1992, the WDOT collected three soil samples within the crawl space and had them analyzed for TPH-g, TPH-d, and volatile organic compounds (VOC). Combined TPH-g and TPH-d concentrations detected in the soil samples collected at the north and south ends of the crawl space were 620 and 770 milligrams per kilogram (mg/Kg), respectively. Dichlorobenzene concentrations in the samples detected by the VOC analysis ranged from 1.3 to 7.3 mg/Kg.

Based on these findings, the WDOT retained Dames and Moore of Seattle, Washington to conduct a Phase I Environmental Site Assessment. The Phase I assessment included researching former uses and owners of the property. Through its research, Dames and Moore discovered that a former

<sup>&</sup>lt;sup>3</sup>USGS 7.5 Minute Quadrangles, Seattle South, Washington, 1948, Revised 1973.



<sup>&</sup>lt;sup>2</sup>The historical background is summarized from <u>Final Report: Preliminary Soil and Groundwater Characterization</u>, <u>Bradner Place Apartment Complex</u>, (Dames and Moore, February 10, 1994).

gasoline service station occupied the property from the late 1940s through the 1970s. This station was apparently owned and operated by Texaco. Dames & Moore reported that the former station contained three service bays, two pump islands, four 4,000-gallon fuel hydrocarbon (gasoline and diesel) underground storage tanks (USTs), one 1,000-gallon heating oil UST, and one 500-gallon used-oil UST (Figure 2, Site Plan). The Dames and Moore review of historical aerial photographs indicates the apartment building overlies the majority of the former service station facilities, including the USTs pits, service islands, and station building. Dames and Moore reported that the USTs were removed during the apartment building construction, but no compliance sampling reports were found.

Phase II of the environmental site assessment was conducted by Dames and Moore in December of 1993. Site assessment activities included: 1) a soil-gas survey; 2) the advancement and sampling of four soil borings outside the building by hollow-stem auger drilling; 3) six soil borings inside the building by hand augering; and, 4) the installation and sampling of three groundwater monitoring wells. The soil-gas survey results indicated elevated benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons-as-gasoline (TPH-g) concentrations, up to 5,560 parts per million by volume (ppmv), in the former pump islands area, the gasoline USTs area, and the used-oil UST area (Figure 2). Soil borings were advanced in these three areas to further delineate the lateral extent and the concentrations of hydrocarbon impacts in the subsurface. Dames & Moore's Phase II investigation reported soil containing TPH-g concentrations exceeding the WDOE MTCA Method A Compliance Cleanup Levels [CCL(a)s] existed under the apartment building in the three areas of exploration described above. A soil sample from hand boring HA-1, which Dames & Moore drilled near the former used-oil UST pit, contained TPH-g, total petroleum hydrocarbons-as-diesel (TPH-d), and total petroleum hydrocarbons-as-oil (TPH-o) concentrations that exceed the CCL(a)s.

Three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed by Dames and Moore during the week of December 7, 1993 (Figure 2). Groundwater was encountered during drilling at depths ranging from 32 to 44 feet below grade (bg). After installation and well development, the static groundwater level in the wells was measured at depths ranging from 21 to 24 feet bg. The apparent groundwater flow direction was westerly at that time. Dames and Moore hypothesized in their subsurface assessment report dated February 10, 1994 that the groundwater under the site was confined.

Groundwater monitoring wells MW-1, MW-2, and MW-3 were sampled on December 21, 1993 and submitted for laboratory analysis of BTEX, TPH-g, and TPH-d. Analytical results indicated that BTEX and TPH-g concentrations exceeded the CCL(a)s in monitoring wells MW-2 and MW-3, west of the former gasoline service station (Figure 2). Benzene concentrations in wells MW-2 and MW-3 were 170 and 460 micrograms per liter ( $\mu$ g/L), respectively. The TPH-g concentrations were 3,300 and 42,000  $\mu$ g/L, respectively. Monitoring well MW-1 did not contain BTEX or TPH-g concentrations at or above the laboratory's method reporting limits (MRLs). During the Dames & Moore investigation,



dissolved TPH-d was only detected in well MW-3 at a concentration of 820  $\mu$ g/L, which is below the CCL(a).

Groundwater Technology conducted an environmental site assessment on behalf of Texaco in February and March, 1995. The scope of work included advancing seven soil borings (six by hollow stem auger drilling and one by hand), installing three monitoring wells (MW-4, MW-5, and MW-7) and two vapor extraction wells (VEW-1 and VEW-2), gauging and sampling the existing and newly-installed wells, and performing two rising-head slug tests. Soil samples with concentrations exceeding the CCL(a)s were collected from borings VEW-1, VEW-2, and B-5 (hand boring). The depth to water in the wells (not including MW-7) ranged from 6.28 to 26.9 feet bg. The groundwater flow gradient was westerly to northwesterly at approximately 13 feet per 100 feet. Concentrations of BTEX and/or TPH-g exceeding the CCL(a)s were detected in all of the sampled wells except MW-4 and MW-7. The highest benzene concentration was detected in MW-3 at 1,130  $\mu$ g/L; the highest TPH-g concentration was detected in VEW-1 at 44,000  $\mu$ g/L. Based on the analysis of slug-test data collected from MW-5, the hydraulic conductivity of the site is approximately 6 gallons per day per square foot. Based on the gradient and estimated transmissivity of the groundwater velocity is estimated to be approximately 0.3 feet per day. These findings are detailed in GTI's Report of Environmental Site Assessment, dated June 13, 1995.

### 4.0 SHALLOW SOIL SAMPLING

### 4.1 Methods

On July 7, 10, and 13, 1995, 21 hand borings were completed along a grid pattern across the southwest quarter of the property (Figure 3, Soil Sample Location Map). The sampling locations were selected in order to assess the shallow soil conditions with respect to petroleum hydrocarbons in the vicinity of the former pump islands and UST cavity. At each location, one soil sample was collected at 4 and 18 inches below grade. A total of 42 soil samples were submitted under chain-of-custody to Transglobal Environmental Geosciences Northwest, Inc. (TEG) of Lacey, Washington for analysis. Each sample was analyzed for BTEX by EPA Method 8020 and TPH-g by Washington Method WTPH-G. Selected samples were further analyzed for TPH-d and TPH-o by Washington Method WTPH-D Extended. Standard operating procedures for soil sampling are included in Appendix A.



### 4.2 Results

Only sample SS-7-4, collected four inches bg at sample location #7 (Figure 3) contained analyte concentrations that exceeded the CCL(a)s, with 324 mg/Kg of TPH-o. Two other samples, SS-5-4 and SS-8-4, contained detectable concentrations of TPH-o, with 82 mg/Kg and 48 mg/Kg, respectively. Sample SS-19-4 was the only sample with a detectable concentration of TPH-d (70 mg/Kg). No samples contained detectable concentrations of BTEX or TPH-g. Table 1 summarizes the laboratory analytical results. The complete laboratory report is included in Appendix B.

### 5.0 AMBIENT AIR SAMPLING

### 5.1 Methods

The ambient air in the apartment building's crawl space was sampled by two methods in order to assess the possible presence of gasoline-range hydrocarbon vapors in the crawl space. Two grab samples, designated AIRBAG 1 and AIRBAG 2, were collected in Tedlar bags and sent with a chain-of-custody to GTEL Environmental Laboratories, Inc. in Concord, California on July 5, 1995. The grab samples were collected in the southwest corner of the building, between the former locations of the pump islands and the UST cavity (Figure 4, Air Sample Location Map).

Four samples designated 111990 through 111993 were collected over a one week period in the locations depicted in Figure 4. Four Gore-Sorbers<sup>TM</sup> (sorbers) were hung from the crawl space ceiling on July 5, 1995. Each sorber consists of a known amount of adsorbent material inside of a synthetic material that is permeable to vapor but not to water. Volatile organic compounds in the ambient air are adsorbed from the ambient air to the sorber and extracted for analysis. The sorbers remained in the crawl space for seven days. Each sorber was placed in a glass jar provided by the manufacturer [W.L. Gore & Associates, Inc. (Gore) of Elkton, Maryland] per the handling instructions and sent to Gore's environmental laboratory in Elkton, Maryland.

### 5.2 Results

The grab air samples were analyzed for BTEX by EPA Method 8020 and TPH-g by EPA Method 8015, modified for air analyses. There were no concentrations of BTEX or TPH-g detected above the MRLs in either sample. Table 2 summarizes the laboratory analytical results. The complete laboratory report is included in Appendix C.

The four sorbers were analyzed for BTEX by thermal desorption/cryofocusing, gas chromatography, and mass selective detection. BTEX compounds were detected in each of the sorbers at



concentrations less than 0.5  $\mu$ g. The highest detected compound was 0.41  $\mu$ g in sample 111991. The benzene concentration in each sample was equal to or less than 0.02  $\mu$ g. The trip blank contained 0.04  $\mu$ g of benzene, 0.41  $\mu$ g of toluene, 0.02  $\mu$ g of ethylbenzene, and 0.10  $\mu$ g of total xylenes. The benzene and toluene concentrations in the trip blank exceeded the concentrations detected in the four exposed sorbers. A copy of the Gore laboratory report is included in Appendix C.

The analytical results from the sorber sampling method measure exposure levels over a given length of time as opposed to a given unit of volume. The results do not reflect compound concentrations in the ambient air. The laboratory analytical procedure for sample extraction and analysis using the sorber sampling method is not a Washington-state approved method and should be used for assessment purposes only.

### 6.0 MONITORING WELL INSTALLATION

### 6.1 Methods

On July 31, 1995, one soil boring designated MW-8 was drilled off site (Figure 2). The boring was drilled by Cascade Drilling Inc. of Woodinville, Washington using truck-mounted, 10-inch outside diameter, hollow-stem auger drilling equipment. The boring was sampled using a 12-inch long, 2-inch inside diameter, split-spoon sampler, driven with a 140-pound hammer. Soil samples were collected at five-foot intervals from approximately five feet bg to the depth of exploration, except where poor recovery prohibited sample collection. Soil samples were screened for volatile hydrocarbons in the field using a photo-ionization detector (PID) calibrated to a 100 parts per million (ppm) isobutylene standard. A GTI geologist supervised the drilling and maintained a log of the materials encountered in accordance with the Unified Soil Classification System (Appendix D, Drill Logs). The drilling and soil sampling activities were conducted in accordance with the Standard Operating Procedures presented in Appendix A. The drill cuttings were disposed of on WDOT property upon receipt of the laboratory analytical results.

Monitoring well MW-8 was drilled within the City of Seattle right-of-way for 31st Avenue South. The location for MW-8 was selected to assess the lateral extent of the dissolved hydrocarbon plume southwest of the site. The soil, a glacial till, consisted of fine to medium-grain sand with varying amounts of silt, clay and gravel from surface to approximately 32 feet bg, overlying a gray silty-sand with a trace of clay and gravel which extended to the exploration depth of 45 feet bg. Groundwater was encountered during drilling at approximately 25 feet bg in fine to medium-grain silty-sand. Soil samples collected 35 feet bg and deeper appeared to be dry. Following soil sample collection, the boring was backfilled with bentonite to 40 feet bg and a groundwater monitoring well was installed.



One soil sample (MW-8-25), collected at the observed water table (25 feet bg), was submitted for laboratory analysis.

Monitoring well MW-8 was constructed of 4-inch diameter machine slotted (0.020-inch) Schedule 40 PVC well screen, and blank PVC pipe (Appendix D). The well was completed with a traffic-rated street box and locking cap. The monitoring well was developed by surging and bailing approximately five well-casing volumes of water. The development water was treated on-site by passing it through two 55-gallon canisters of granular activated carbon, and discharging it to the ground. Monitoring well MW-8 was surveyed to the existing arbitrary site datum by GTI personnel.

### 6.2 Results

The soil sample collected from approximately 25 feet bg (MW-8-25) during drilling was submitted under chain-of-custody to Columbia Analytical Services Inc. in Bothell, Washington for analysis. Sample MW-88-25 was analyzed for BTEX by EPA Method 8020 and TPH-g by Washington Method WTPH-G. No concentrations were detected above the laboratory MRLs. Table 3 summarizes the laboratory analytical results. The complete laboratory analytical report is included in Appendix E.

### 7.0 GROUNDWATER MONITORING AND SAMPLING

### 7.1 Methods

Groundwater levels were measured in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-8, and vapor extraction wells VEW-1 and VEW-2 on August 4, 1995 to evaluate the groundwater flow direction and gradient. The depth to water ranged from 16.46 feet (VEW-2) to 32.13 feet (MW-5). The depth to water in well MW-8 was 25.73 feet. Table 4 summarizes the groundwater monitoring data. The approximate groundwater flow direction across the site was westerly to northwesterly with a gradient of approximately 20 feet per 100 feet. Figure 5 shows the relative groundwater elevations in the gauged wells and graphical representation of the water table.

On August 4, 1995, wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, VEW-1, and VEW-2 were purged until temperature, pH, and conductivity remained constant (within 10 percent) in three successive volumes of purge water (approximately three well volumes). Purge water was treated by passing it through two canisters of granular activated carbon connected in series, and discharged to the ground. A groundwater sample was collected from each of the purged wells and sent under chain-of-custody to Columbia Analytical Services Inc. The samples were analyzed for BTEX by EPA Method 8020 and TPH-g by Washington Method WTPH-G. Water samples were collected in accordance with the Standard Operating Procedures in Appendix A.



### 7.2 Results

Seven of the eight submitted groundwater samples (except sample MW-4) contained BTEX and/or TPH-g concentrations that exceed the CCL(a)s. Detected benzene concentrations ranged from 13.2  $\mu$ g/L in MW-5 to 1,300  $\mu$ g/L in MW-3. Monitoring well MW-8 contained 579  $\mu$ g/L of benzene. Water samples collected from MW-2, MW-3, MW-8, VEW-1, and VEW-2 contained TPH-g concentrations exceeding the CCL(a). The highest TPH-g concentration was 53,000  $\mu$ g/L detected in the sample from well VEW-1. Monitoring well MW-8 contained 8,820  $\mu$ g/L of TPH-g. The laboratory analytical results from this and the previous sampling events are summarized in Table 5. The complete laboratory analytical report is included in Appendix F.

### 8.0 SUMMARY

Additional environmental site assessment was conducted at the former Texaco facility located at 1366 31st Avenue South in Seattle, Washington in July and August, 1995. The scope of work included shallow soil sampling in the southwest quarter of the property, ambient air sampling in the building crawl space, installing one monitoring well, and groundwater monitoring and sampling.

The former station site overlies the Mt. Baker Tunnel, part of the Interstate 90 Corridor Project. As part of the Mt. Baker Tunnel Construction Project, the WDOT purchased the subject site and the properties to the north and west. An abandoned apartment building overlies most of the areas formerly occupied by the USTs and dispenser islands. A site investigation, prompted by indications of hydrocarbon-impacted soil, was conducted by the WDOT in 1993. The investigation included soil sampling, groundwater sampling, and an historical review. Based on WDOT's investigations, TES undertook further site characterization, including soil and groundwater sampling, and aquifer testing.

On July 7, 10, and 13, 1995, 21 hand borings were advanced to 18 inches bg along a grid pattern across the southwest quarter of the property. Soil samples were collected at 4 and 18 inches in each boring and analyzed for BTEX and TPH-g. Nineteen samples were further analyzed for TPH-d and TPH-o. Only one sample (SS-7-4), collected at four inches bg in boring #7, contained a concentration exceeding the CCL(a)s, with 324 mg/Kg of TPH-o.

The ambient air in the building's crawl space was assessed using two methods in July, 1995. Two grab samples were collected in the southwest corner of the building, in the vicinity of the former USTs and dispenser Islands. The samples were analyzed for BTEX and TPH-g. There were no detected concentrations exceeding the laboratory MRLs. In addition to the grab samples, four Gore-Sorbers<sup>TM</sup> were hung from the crawl space ceiling and left to adsorb volatile organic compounds in the air for seven days. The sorbers were analyzed for BTEX compounds. BTEX compounds were detected in all four sorbers, however the trip blank that accompanied the sorbers also contained



detectable concentrations of BTEX. The benzene and toluene concentrations in the trip blank exceeded the concentrations in all four exposed sorbers. The highest detected BTEX concentration was total xylenes at 0.41  $\mu$ g.

On July 31, 1995, monitoring well MW-8 was installed in 31st Avenue South, southwest of the site. Groundwater was encountered during drilling at approximately 25 feet bg. Static groundwater was measured in the well on August 4, 1995 at 25.73 feet bg. The soil sample collected at 25 feet bg was submitted for BTEX and TPH-g analysis. No concentrations above the laboratory MRLs were detected. A groundwater sample was collected from the well on August 4, 1995 and analyzed for BTEX and TPH-g. The following concentrations were detected: benzene - 579  $\mu$ g/L, toluene - 184  $\mu$ g/L, ethylbenzene - 272  $\mu$ g/L, total xylenes - 808  $\mu$ g/L, and TPH-g - 8,820  $\mu$ g/L, which exceed the CCL(a)s.

Monitoring and vapor extraction wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-8, VEW-1, and VEW-2 were monitored and sampled on August 4, 1995. The depth to water ranged from 16.46 feet (VEW-2) to 32.13 feet (MW-5). The groundwater flow gradient was westerly to northwesterly at approximately 20 feet per 100 feet. Groundwater samples were collected from each well and analyzed for BTEX and TPH-g. The dissolved benzene concentrations exceeded the CCL(a) in seven of the eight samples tested. The benzene concentration in MW-4 was below the CCL(a). The detected concentrations ranged from 13.2  $\mu$ g/L in MW-5 to 1,300  $\mu$ g/L in MW-3. TPH-g concentrations exceeded the CCL(a) in MW-2, MW-3, MW-8, VEW-1, and VEW-2. The highest concentration was detected in sample VEW-1 at 53,000  $\mu$ g/L.

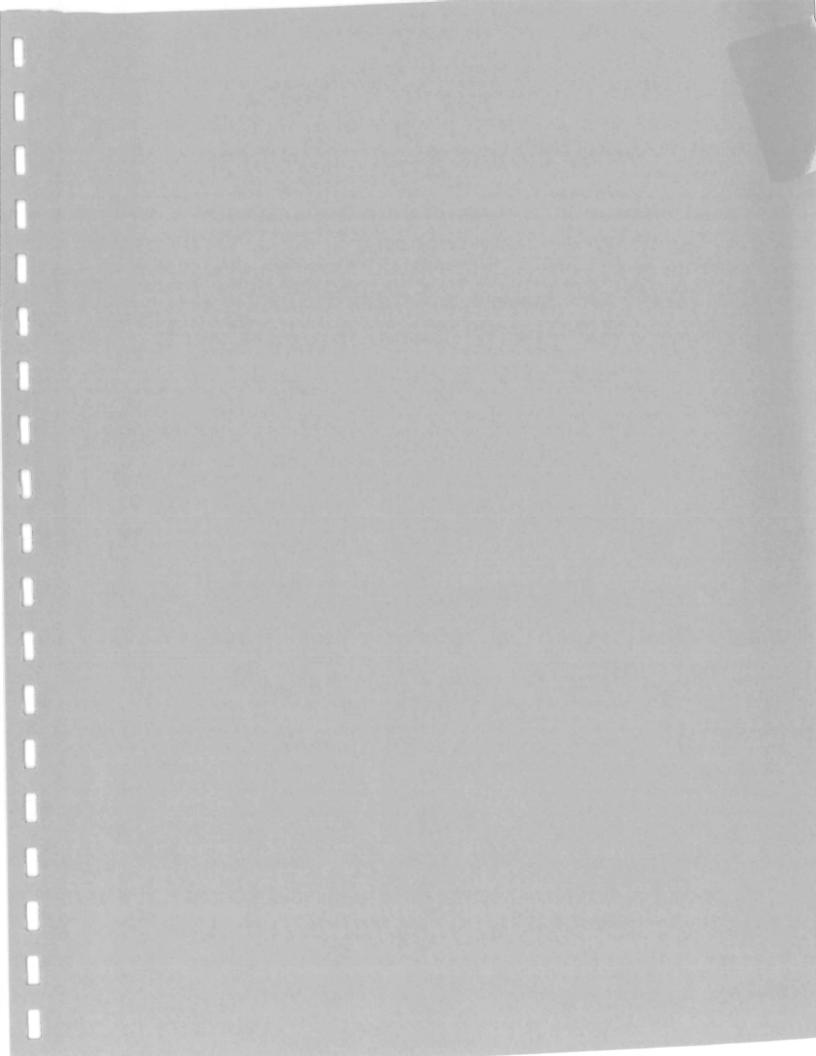
### 9.0 CONCLUSIONS

The following presents conclusions based on historical information and the data obtained during this site investigation:

- Concentrations of TPH-oil exceeding the CCL(a) were detected in the shallow soils at the southwest corner of the building.
- Based on the two grab air samples and the Gore-Sorbers<sup>TM</sup> exposed for seven days, the ambient air in the crawl space of the apartment building does not contain significant concentrations of gasoline-range hydrocarbon vapor (if any).
- The lateral extent of dissolved hydrocarbons in the upper-most water bearing zone has not been defined on the south, southwest, and northwest sides of the property.
- The water level under the site has lowered approximately six to ten feet since the last sampling event in March 1995.

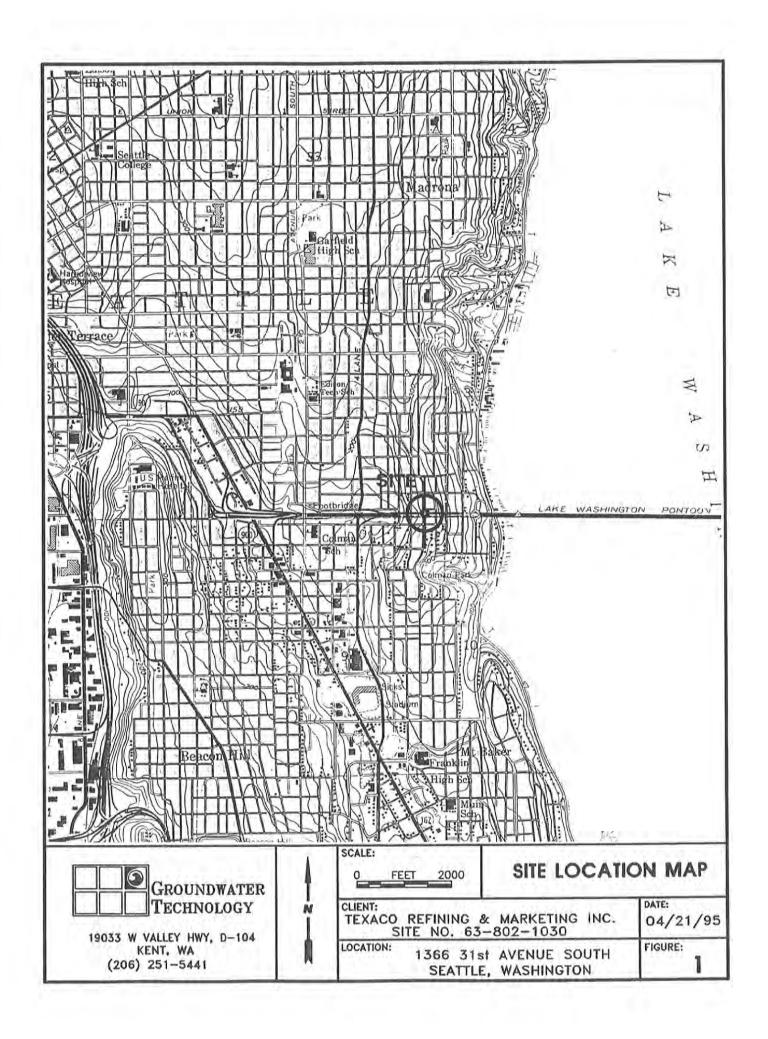


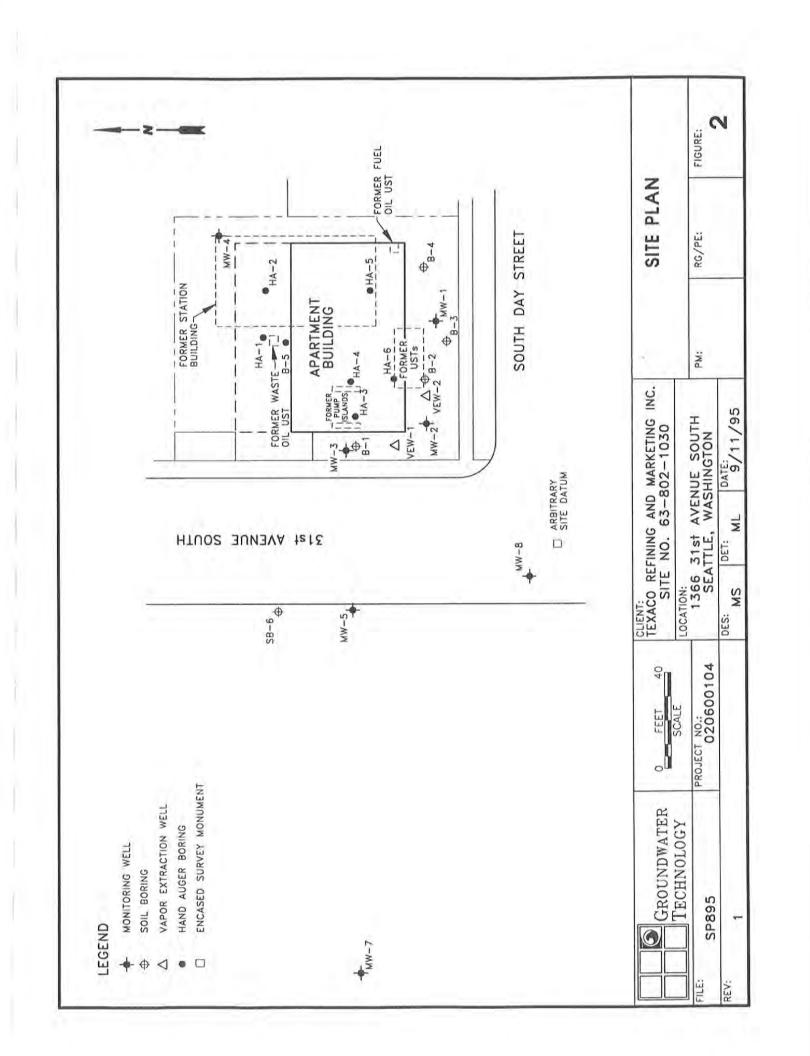
 BTEX and TPH-g concentrations increased in groundwater except for benzene in MW-2 and BTEX/TPH-g in MW-5.

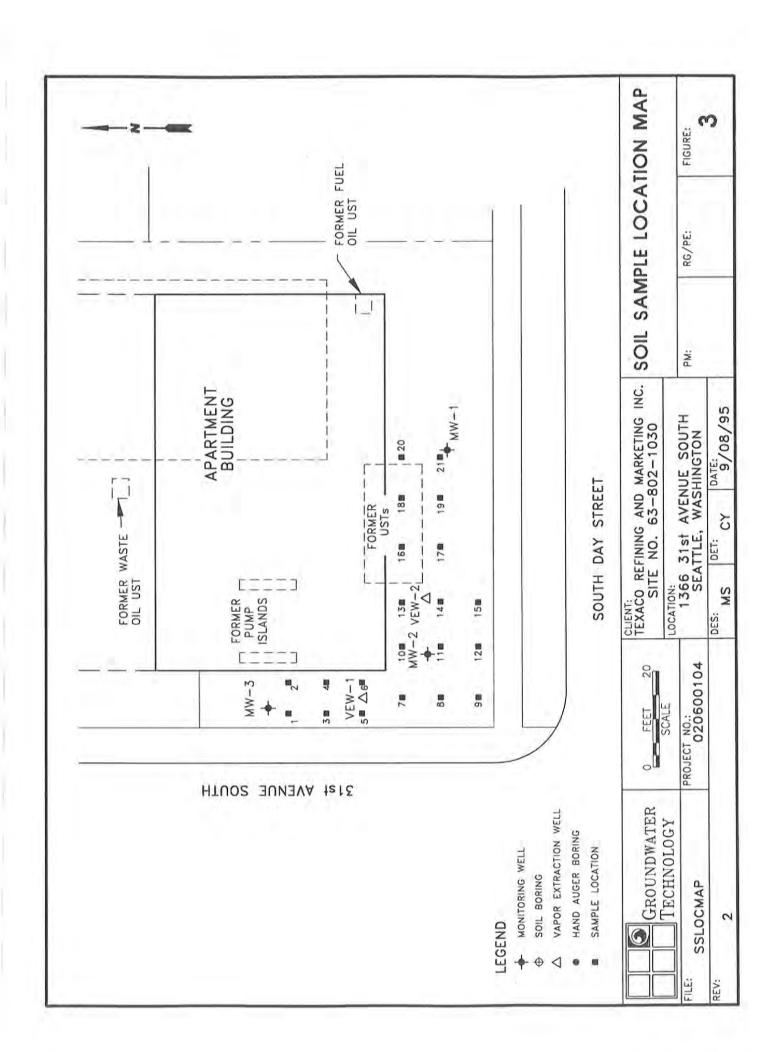


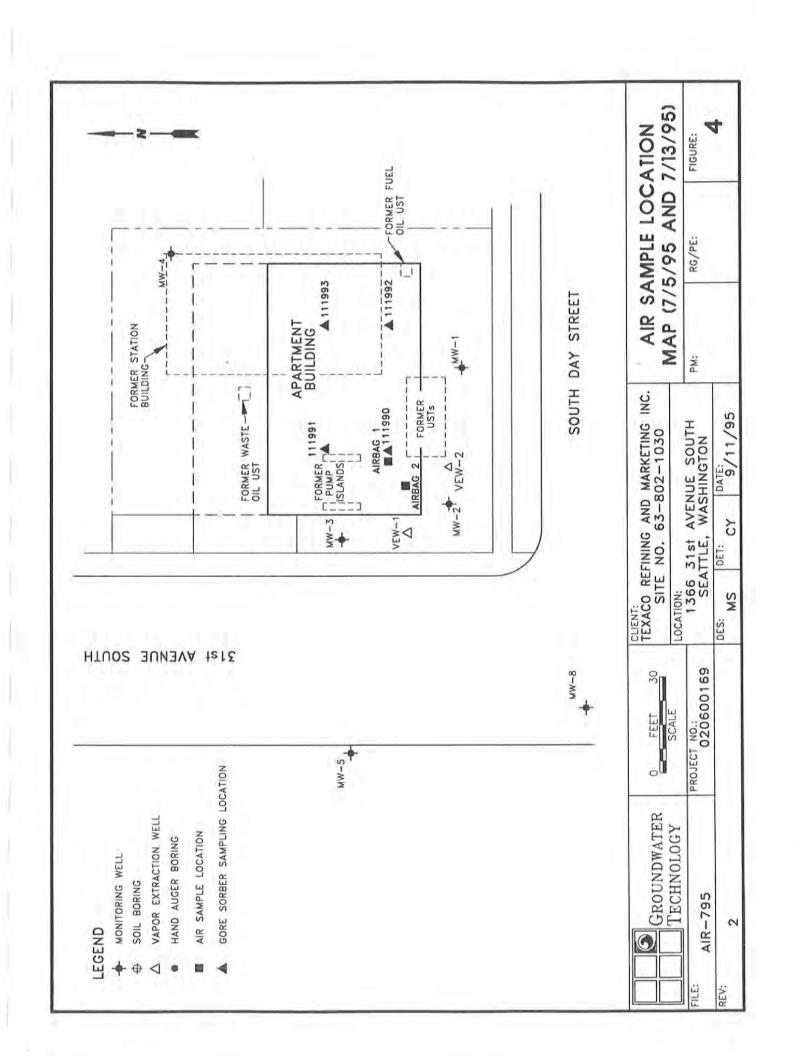
### **FIGURES**

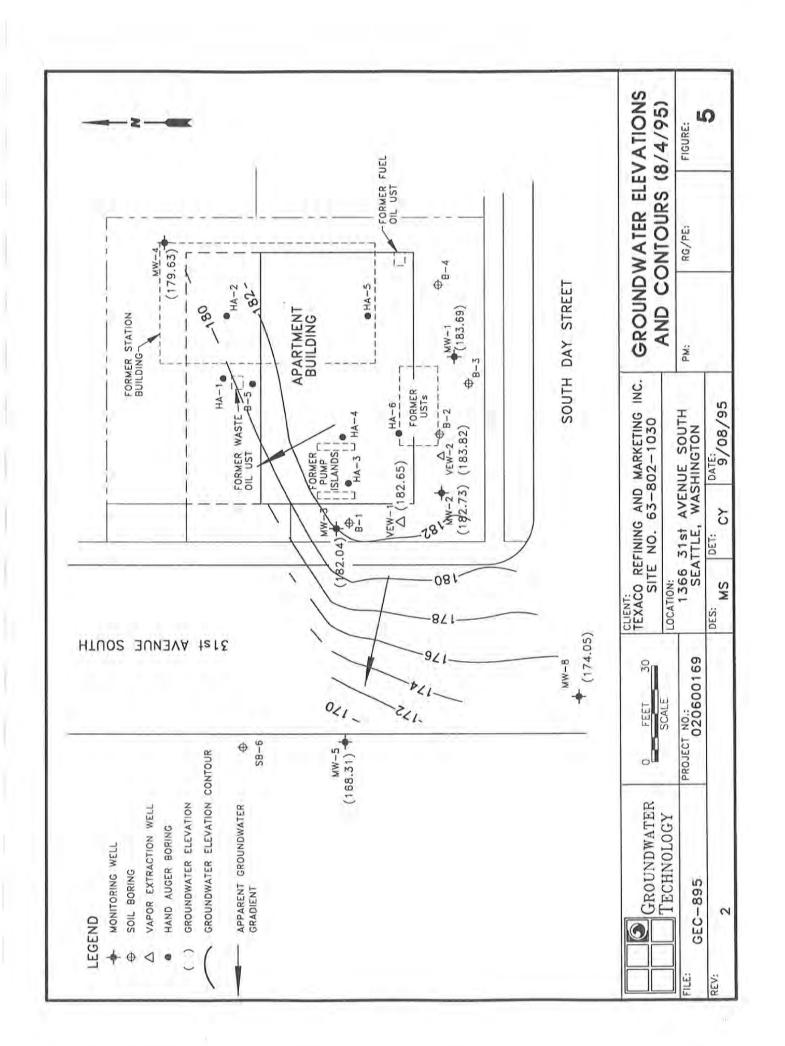


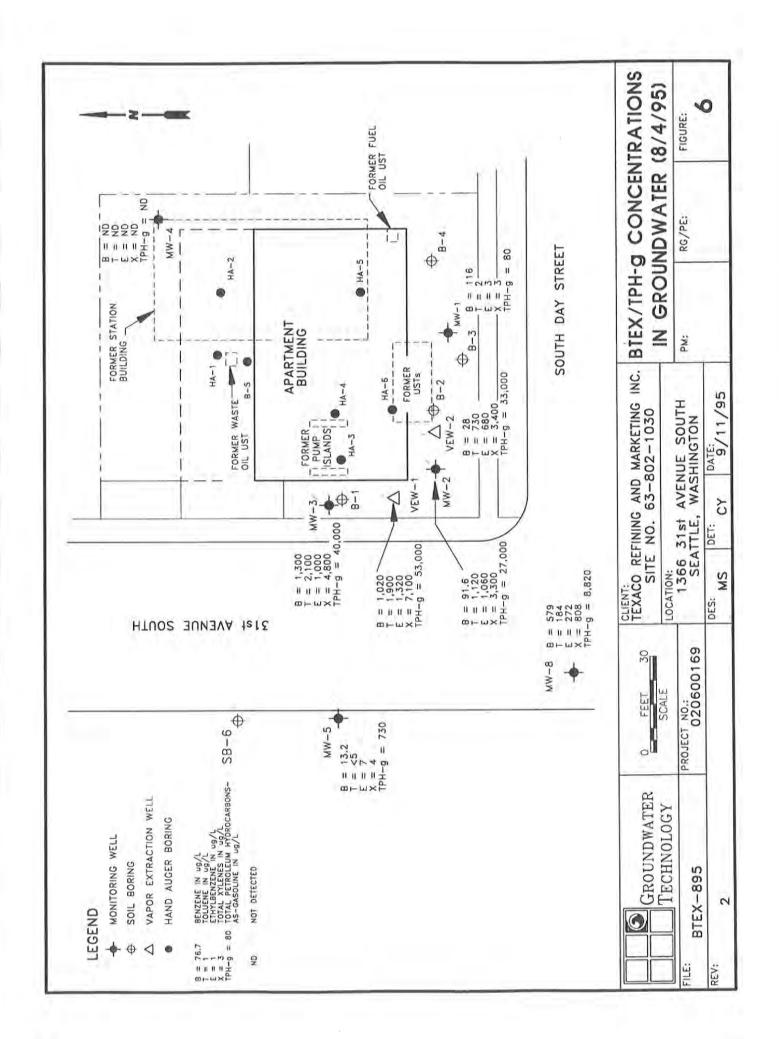
















### SUMMARY OF LABORATORY ANALYTICAL RESULTS - SHALLOW SOIL SAMPLING TEXACO REFINING AND MARKETING INC., SITE NO. 63-802-1030 1366 31st AVENUE S, SEATTLE, WASHINGTON (Results in milligrams per kilogram)

Sample ID	Date	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-g	TPH-d	TPH-o
	al Method		EPA Met			WDOE WTPH-G	WDOE WTPH-D	WDOE WTPH-D extended
Method R	eporting Limit	0.05	0.05	0.05	0.05	10.0	25.0	100.0
SS 1-1.5	07/07/95	ND	ND	ND	ND	ND	1-4)	(44)
SS 1-4	07/07/95	ND	ND	ND	ND	ND	1-4	(4)
SS 2-1.5	07/07/95	ND	ND	ND	ND	ND		i i
SS-2-4	07/07/95	ND	ND	ND	ND	ND		14
SS 3-1.5	07/07/95	ND	ND	ND	ND	ND		
SS 3-4	07/07/95	ND	ND	ND	ND	ND	ND	ND
SS 4-1.5	07/07/95	ND	ND	ND	ND	ND		- (
SS 4-4	07/07/95	ND	ND	ND	ND	ND	ND	ND
SS 5-1.5	07/07/95	ND	ND	ND	ND	ND		
SS 5-4	07/07/95	ND	ND	ND	ND	ND	ND	82
SS 6-1.5	07/07/95	ND	ND	ND	ND	ND		
SS 6-4	07/07/95	ND	ND	ND	ND	ND		#
SS 7-1.5	07/07/95	ND	ND	ND	ND	ND	ND	ND
SS 7-4	07/10/95	ND	ND	ND	ND	ND	ND	324
SS 8-1.5	07/10/95	ND	ND	ND	ND	ND	- 64 L	
SS 8-4	07/10/95	ND	ND	ND	ND	ND	ND	48
SS 9-1.5	07/10/95	ND	ND	ND	ND	ND	11 2	1_ (4-)
SS 9-4	07/07/95	ND	ND	ND	ND	ND	ND	ND
SS 10-1.5	07/10/95	ND	ND	ND	ND	ND	T_ Ta( = 1	1.00
SS 10-4	07/07/95	ND	ND	ND	ND	ND	14.	
SS 11-1.5	07/10/95	ND	ND	ND	ND	ND	- 44	4 42
SS 11-4	07/07/95	ND	ND	ND	ND	ND	4	140
SS 12-1.5	07/07/95	ND	ND	ND	ND	ND	12.	100
SS 12-4	07/07/95	ND	ND	ND	ND	ND		122
SS 13-1.5	07/10/95	ND	ND	ND	ND	ND	4	1 4



### SUMMARY OF LABORATORY ANALYTICAL RESULTS - SHALLOW SOIL SAMPLING TEXACO REFINING AND MARKETING INC., SITE NO. 63-802-1030 1366 31st AVENUE S, SEATTLE, WASHINGTON

(Results in milligrams per kilogram)

Sample ID	Date	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-g	TPH-d	TPH-o
Analytica	al Method		EPA Met	hod 8020		WDOE WTPH-G	WDOE WTPH-D	WDOE WTPH-D extended
Method R	eporting Limit	0.05	0.05	0.05	0,05	10.0	25.0	100.0
SS 13-4	07/10/95	ND	ND	ND	ND	ND		19
SS 14-1.5	07/10/95	ND	ND	ND	ND	ND		14
SS 14-4	07/10/95	ND	ND	ND	ND	ND		175
SS 15-1.5	07/10/95	ND	ND	ND	ND	ND		
SS 15-4	07/10/95	ND	ND	ND	ND	ND		
SS 16-1.5	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 16-4	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 17-1.5	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 17-4	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 18-1.5	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 18-4	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 19-1.5	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 19-4	07/13/95	ND	ND	ND	ND	ND	70	ND
SS 20-1.5	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 20-4	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 21-1.5	07/13/95	ND	ND	ND	ND	ND	ND	ND
SS 21-4	07/13/95	ND	ND	ND	ND	ND	ND	ND
Compli	ance Cleanup Level	0,5	40	20	20	100	200	200

ND = Not detected at the Method Reporting Limit.

Compliance Cleanup Levels are found in the Model Toxics Control Act, Method A for soil (WAC 173-340). Bold values exceed the Method A Compliance Cleanup Level for soil.

Samples were collected at either 4 inches (-4) or 18 inches (-1.5) below grade.



### SUMMARY OF LABORATORY ANALYTICAL RESULTS - AMBIENT AIR SAMPLING TEXACO REFINING AND MARKETING INC., SITE NO. 63-802-1030 1366 31st AVENUE S, SEATTLE, WASHINGTON

(Reported in micrograms per liter  $[\mu g/L]$  or micrograms per sorber  $[\mu g]$ )

Sample ID	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-g
Analytical Me	ethod		EPA Met	hod 8020		WDOE Method WTPH-G
AIRBAG 1	07/05/95	<0.5	<0.5	<0.5	<0.5	<50
AIRBAG 2	07/05/95	<0.5	<0.5	<0.5	<0.5	<50
111990	07/13/95	0,01	0.14	0.06	0.35	
111991	07/13/95	0.02	0,21	0.07	0.41	4 - Tes
111992	07/13/95	0.02	0.18	0.05	0.33	
111993	07/13/95	0.02	0.26	0.07	0.38	44
Trip blank 1 111989	07/13/95	0.04	0.41	0.02	0.1	-

-- = Not analyzed

Note: AIRBAG 1 and AIRBAG 2 are reported in  $\mu g/L$ . All other sample concentrations are reported in  $\mu g$ .

The trip blank for samples 111990 through 111993 contained 0.04  $\mu g$  benzene, 0.41  $\mu g$  toluene, 0.02  $\mu g$  ethylbenzene, and 0.10  $\mu g$  total xylenes.



### TABLE 3 SUMMARY OF LABORATORY ANALYTICAL RESULTS - SOIL BORING TEXACO REFINING AND MARKETING INC., SITE NO. 63-802-1030 1366 31st AVENUES, SEATTLE, WASHINGTON (Results in milligrams per kilogram) TPH-g **Xylenes** Date Benzene Toluene Ethyl-Sample ID benzene EPA Method 8020 WDOE Analytical Method WTPH-G 5.0 0.1 0.1 Method Reporting Limit 0.05 0.1 ND ND MW-8-25 07/31/95 ND ND ND 40 20 100 0.5 20 Compliance Cleanup Level

ND = Not detected at the Method Reporting Limit.

Compliance Cleanup Levels are found in the Model Toxics Control Act, Method A for soil (WAC 173-340).



### TABLE 4 SUMMARY OF GROUNDWATER MONITORING DATA TEXACO REFINING AND MARKETING INC., SITE NO. 63-802-1030 1366 31st AVENUE S, SEATTLE, WASHINGTON

Well Number	Date	Top of Casing	Depth to Water	Groundwater Elevation
MVV-1	03/07/95	203.26	9.36	193,90
	08/04/95	203.26	19.57	183.69
MW-2	03/07/95	203.67	11.07	192.60
_ //1/11	08/04/95	203.67	20.94	182.73
MVV-3	03/07/95	204.16	13,31	190.85
241.41	08/04/95	204.16	22.12	182.04
MVV-4	03/07/95	196.09	6.56	189.53
	08/04/95	196.09	16.46	179.63
MVV-5	03/07/95	200.44	26.19	174.25
200	08/04/95	200.44	32.13	168.31
MW-7	03/07/95	154.78	2.03	152.75
	08/04/95	154.78	1 <del>,-</del> 1	- <del>10</del>
MW-8	08/04/95	199.78	25.73	174.05
VEW-1	03/07/95	200.33	7.70	192.63
	08/04/95	200.33	17.68	182.65
VEW-2	03/07/95	200.35	6.28	194.07
	08/04/95	200.35	16.53	183.82

Note: Elevations are given in feet, based on an arbitrary site datum of 200 feet.

Top of casings were surveyed by Cramer Northwest, Inc. 3/7/95.

MW-8 was surveyed on 8/22/95 by GTI.



### SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUNDWATER SAMPLING TEXACO REFINING AND MARKETING INC., SITE NO. 63-802-1030 1366 31st AVENUE S, SEATTLE, WASHINGTON

(Reported in micrograms per liter)

Sample ID	Date	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-g	Total Lead
Analytical Me	ethod	46	EPA Met	hod 8020	86	WDOE Method WTPH-G	EPA Method 7421
Method Reporti	ng Limit	0.5	1	1	1	50	2
MW-1	03/08/95	76.7	1	1000	3	80	ND
	08/04/95	116	2	3	3	80	100
MW-2	03/08/95	209	615	609	1,960	7,300 11,500	2
	08/04/95	91.6	1,120	1,060	3,300	27,000(c)	19
MW-3	03/08/95	1,130	2,200	830	4,750	35,000(c)	3
	08/04/95	1,300	2,100	1,000	4,800	40,000	- 179
MW-4	03/08/95	ND	ND	ND	ND	ND	ND
	08/04/95	ND	ND	ND	ND	ND	
MW-5	03/08/95	427	212	291	1,020	9,000	3
	08/04/95	13.2	<5(b)	7	4	730	- 4
MW-7	03/08/95	ND	ND	ND	ND	ND	ND
MW-8	08/04/95	579	184	272	808	8,820	440
VEW-1	03/08/95	953	2,030	1,050	7,700(c)	44,000(c)	25
	08/04/95	1,020	1,900(c)	1,320	7,100(c)	53,000(c)	
VEW-2	03/08/95	<10(b)	858	997	4,800(c)	25,500	15
	08/04/95	28	730	680	3,400	33,000	**
MW5-PD(a)	02/15/95	12.2	6	5	23	270	J 1 \frac{1}{24}^-
MW6-PD(a)	02/15/95	0.9	ND	ND	ND	ND	-
MW7-PD(a)	02/15/95	ND	7	ND	2	ND	
Compliance Clea	nup Level	5	40	30	20	1,000	5

ND = Not detected at or above the Method Reporting Limit.

-- = Not analyzed.

Compliance Ćleanup Levels are found in the Model Toxics Control Act, Method A for groundwater (WAC 173-340).

- (a) = Samples were collected on February 15 or 16, 1995, prior to well development.
- (b) = The Method Reporting Limit is elevated because of matrix interferences.
- (c) = Result is from the analysis of a diluted sample. Dilution factor: 10

Bold values exceed the Method A Compliance Cleanup Level for groundwater.









Maps Provided by Seattle.gov



Former Texaco Service Station No. 21-1558 1366 31st Avenue South Seattle, Washington FIGURE 1 Vicinity Map

FILE NAME: 211558\_VM2010.dwg

MIE.

02/24/2011



April 21, 2011

Ms. Olivia Skance Chevron Environmental Management Company 6111 Bollinger Canyon Road, Room 3636 San Ramon, California 94583-5186

Subject: Second Semiannual Groundwater Monitoring Report

Former Texaco Service Station No. 21-1558

1366 31<sup>st</sup> Avenue South Seattle, Washington

Dear Ms. Skance:

SAIC Energy, Environment & Infrastructure, LLC, on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the second semiannual 2010 groundwater monitoring and sampling event at former Texaco Service Station No. 21-1558 (the site) in Seattle, Washington (Figure 1).

### FIELD ACTIVITIES

Gettler-Ryan Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on August 21, 2010. They collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in six of the seven monitoring wells on the site (MW-8 was inaccessible).

Groundwater samples were collected from six of the seven monitoring wells and submitted to Lancaster Laboratories, Inc. in Pennsylvania for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Washington State Department of Ecology (Ecology) Method NWTPH-Gx;
- TPH as diesel-range organics and TPH as heavy oil-range organics by Ecology Method NWTPH-Dx extended with silica-gel cleanup; and
- Benzene, toluene, ethylbenzene, and total xylenes, and methyl tertiary butyl ether by United States Environmental Protection Agency Method 8260B.

Field data sheets are provided in the Gettler-Ryan groundwater monitoring and sampling data package (Attachment A).

### FINDINGS

At the time of this monitoring event, groundwater elevations ranged from 246.73 feet in monitoring well MW-16 to 236.36 feet in monitoring well MW-9, based on the NAVD88 datum. Groundwater potentially flows toward the southwest at a gradient of approximately 0.035 to 0.083 feet per foot (Figure 2). Groundwater elevations decreased an average of 11.11 feet since the previous semiannual monitoring event, which was performed on February 23, 2010.

SPH were not detected in any of the monitoring wells gauged during this event.

The following analytes were detected at concentrations exceeding their respective Model Toxics Control Act Method A cleanup levels:

- TPH-GRO in monitoring wells MW-16, MW-17, and MW-18; and
- Ethylbenzene and total xylenes in monitoring well MW-18.

Historical groundwater elevation data, SPH thickness data, and laboratory analytical results are summarized in Table 1. The laboratory analysis report is provided as Attachment B.

### DISCUSSION

Groundwater elevations and potential flow direction are consistent with historical data reported at the site. Groundwater elevations fluctuate more than 10 feet seasonally.

Petroleum-hydrocarbon constituent concentrations fluctuate with seasonal changes in groundwater elevation. Lower concentrations are typically observed during highgroundwater periods.

Gettler-Ryan will continue to perform groundwater monitoring and sampling on a semiannual basis. The next groundwater monitoring and sampling event is scheduled for February 2011.

If you have any questions or comments, please contact me at (425) 482-3321 or via email at jenkinsme@saic.com.

Sincerely,

Michael E. Jenkins, LG, LHG

Senior Project Manager

SAIC Energy, Environment & Infrastructure, LLC of Washin Hydrogeologisi

Michael E. Jenkins

### Enclosures:

Figure 1 – Vicinity Map

Figure 2 - Potentiometric Map

Table 1 – Groundwater Monitoring Data and Analytical Results

Attachment A - Groundwater Monitoring and Sampling Data Package

Attachment B - Laboratory Analysis Report

cc: Ms. Liu Jing – Ecology, Northwest Regional Office, Toxics Cleanup Program 3190 160<sup>th</sup> Avenue SE, Bellevue, WA 98008

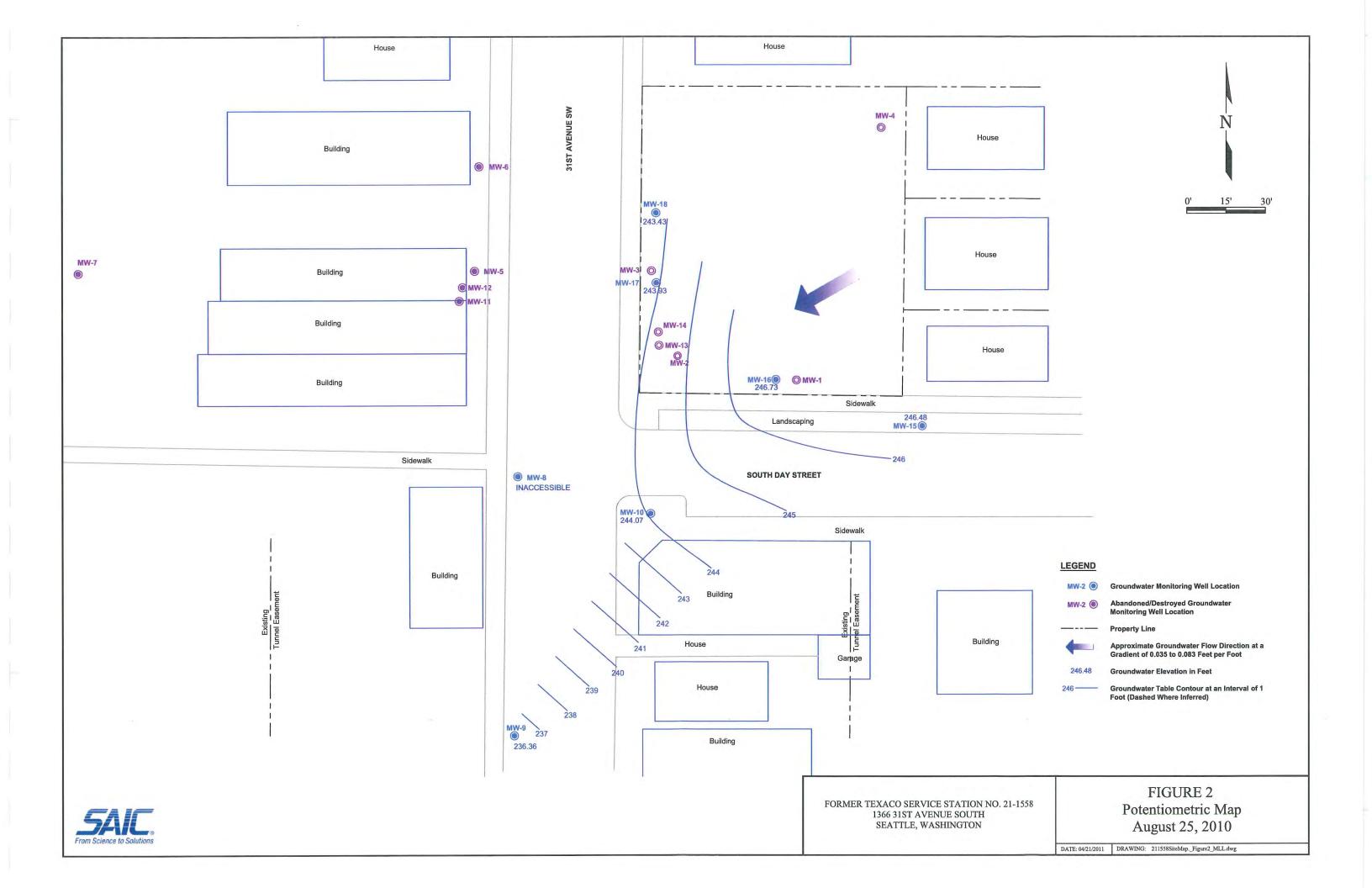
Ms. Michelle Newlean – Washington State Department of Transportation 310 Maple Park Avenue SE, P.O. Box 47300, Olympia, WA 98504

Mr. Jared Smith

1379 31st Avenue S., Seattle, WA 98144

Project File

PLEASE NOTE: In an effort to adopt practices that reduce negative impacts on the environment, SAIC-Benham is in the process of transitioning to an electronic distribution of all Groundwater Monitoring Reports. Please contact me at (425) 482-3321 or via email at <u>jenkinsuc@saic.com</u> if you would be willing to accept an electronic copy of this report in lieu of a hard copy; in the absence of a response we will continue to provide you a hard copy.



### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South TABLE 1

Seattle, Washington Concentrations reported in µg/L

MTBE	-	1	1	1		1	,	,	1		1	¢	1	1	1	1	1	1		1		<5.0	1	,		1	<2.5	1	ì	<2.5	1	1	ŧ	1	<2.5	1	-	
Total	Company (No.	808	34	24.9		1	QX	38.9	36.5	ND	ND	QN	ND	13	ON	7.38	59.8	17.6	1	14.4	11.5	<3.28	<4.24	5.47	1.73	2.64	1.9		1	<1.5	1	1	ţ	ŀ	<1.5	Ď	ţ	
Ethyl- benzene		272	29	20.6	1		ND	34	28.8	QN	ND	QN	QN	NO.	ND	6.32	67.3	11.6	1	14.9	7.93	1.67	<0.800	<4.23	<0.500	<0.500	2.4	í	1	<0.50	1	ì	į	i	<0.5	-	ì	
Toluene		184	91	12.7		1	ND	18.4	18.1	ND	ND ON	ND ND	ND	ND	N N	2.84	27.2	8.45	1	6.92	6.05	<0.97	<0.5	<0.97	<0.5	0.510	2.6		4	<0.50	-	3	ì	ï	<0.5	1	Ţ	
Benzene		579	61	42.3	-	1	1.1	49.2	49.4	N	5.07	ON	16.7	QN	1.05	14.9	79.3	31.6		20.1	22.6	2.17	1.72	<3.52	0.771	3.24	12	1	1	<0.50		1		1	<0.5	4	1	1
TPH-GRO		8,820	1,500	1,220		1	164	1,400	1,640	50.1	530	N	825	QN	101	606	1,480	1,090		1.660	1,190	527	371	652	153	512	260	1	1	<50		1	1	1	<50	1	1	-
TPH-HRO		4	i		1	1	1	1		ì	į	1	-	1	1	1	ġ	i	ı	1	1	t	i,	4	1	1	<750	ELL	ELL	1	ELL	ELL	ELL	ELL	1	ELL	ELL	FIL
TPH-DRO		3	250	į	1	1	1		9	j	1	-	-	1	ī	j	1	t	1	1	1	Į	1	-	-	-	2601	R PARKED OVER WELL	R PARKED OVER WELL	24.54 238.04 -	KED OVER W	KED OVER W	INACCESSIBLE - CAR PARKED OVER WELL	INACCESSIBLE - CAR PARKED OVER WELL	ı	INACCESSIBLE - CAR PARKED OVER WELL	INACCESSIBLE - CAR PARKED OVER WELL	KED OVER W
GWE (mst)		236.85	242.38	239.89	1	f	240.35	245.73	240.08	236.58	239.27	247.87	238.22	235.45	241.19	244.38	241.63	236.95	234.34	240.73	238.67	234.79	233.44	234.19	234.30	235.84	238.27	E - CAR PAR	.E - CAR PAR	238.04	E - CAR PAR	E - CAR PAR	E - CAR PAR	E - CAR PAR	237.08	E - CAR PAR	E - CAR PAR	F - CAR PAR
DTW (ft.)		25.73	20.20	22.69	1		22.23	16.85	22.50	26.00	23.31	14.71	24.36	27.13	21.39	18.20	20.95	25.63	28.24	21.85	23.91	27.79	29.14	28.39	28.28	26.74	24.31	INACCESSIBLE - CAI	INACCESSIBLE - CAI	24.54	INACCESSIBI	INACCESSIBI	NACCESSIBI	NACCESSIBI	25.50	NACCESSIBI	NACCESSIBI	NACCESSIBI
T0C* (ft.)		262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58	262.58			262.58			262.58	262.58				262.58
Well ID/ Date	MW-8	8/4/95	3/25/96	5/30/96	6/13/96	9/26/96	12/18/96	3/26/97	26/30/97	9/29/97	12/29/97	3/13/98	6/24/98	9/11/68	12/29/98	2/3/99	4/20/99	66/51/1	11/10/99	3/8/00	5/18/00	00/5/6	11/2/00	3/1/01	8/21/01	12/5/01	6/26/02	9/29/02	1/6/03	3/8/03	6/9/03	9/2/03	12/19/03	3/29/04	6/10/04	9/17/04	4/22/05	7/8/05



### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L TABLE 1

MTRE		2.5	i	2.5	į	25	i	<20	3.3		i	2.5	42.5	<2.5	1	<2.5	<2.5	<2.5	<2.5	1	1		)	1	1		+	1	1		4	,	4		1	(	1	I
Total	- Commenter	<1.5	1	5.5	,	<1.5		7.9	1,6	1	1	<1.5	<1.5	<1.5	ı	<1.5	<1.5	<1.5	<1.5	,			ND	N ON	NO ON	QN N	1	ND		1	,	,	1				<1.0	<10
Ethyl-		<0.5	1	2.7	1	<0.5	ţ	3.5	<0.5	3	1	9.0	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-	i		ND	N	R	ND QN	t	QN	4	9	1	3	j	1	ì	į	<0.5	300
Toluene		<0.5	į	3.1	1	<0.5	1	4.0	<0.5	j	1	0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	1			QN	809'0	Q	ND	1	QN	1	1		,	,	1	1	4	<0.5	202
Benzene		<0.5	1	20	7	<0.5	1	18	7.3	1	i	2.1	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	ŕ	i		QN	QN	R	QN	i	R	í	î	-	-		1	1	1	<0.5	202
TPH-GRO		<50	1	099	1	<48	1	720	260	į	t	180	<50	<50	1	<50	<50	<50	<50	1	1		ND	QN	QN	ND	ţ	Q.	1	1	1	į	-	1	1	1	<50	05>
трн-нво		1	/ELL	6	/ELL	1	/ELL	1	1	ER WELL	ER WELL	1	4	1		1	1	1	1	1	1		1	4	1	1	1	i		1	t		į	1	***	1	1	-
TPH-DRO			R PARKED OVER WELL	f	KED OVER W	1	KED OVER W	1	1	HICLE PARKED OVER WELL	HICLE PARKED OVER WELL	1	t	i.	1	1		1	-	4	1		1	1	j	-	1	1	ł	1	i	į	í	į	İ	ŧ	1	1
GWE (msl)		235.09	LE - CAR PAR	241.76	LE - CAR PAR	234,40	LE - CAR PAR	241.50	238.90			240.65	238.68	235.35	CE	238.76	238.97	235.60	238.54	LE	LE		239.40	238.11	238.82	235.50	1	242.00	J		1	1	)	Ì	i	241.82	239.74	226 78
DTW (ft.)		27.49	INACCESSIBLE - CAI	20.82	INACCESSIBLE - CAR PARKED OVER WELL	28.18	INACCESSIBLE - CAR PARKED OVER WELL	21.08	23.68	INACCESSIBLE - VE	INACCESSIBLE - VEI	21.93	23.90	27.23	INACCESSIBLE	23.82	23.61	26.98	24.04	INACCESSIBLE	INACCESSIBI		21.80	23.09	22,38	25.70	1	19.20			1	4	-		ı	19.38	21.46	24.42
TOC* (ft.)		262.58	262.58	262.58	262.58		1	262.58	262.58	262.58	262.58	262.58	262.58	262.58		262.58	262.58	262.58	262,58	262.58	262.58		261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	06136
Well ID/ Date	MW-8 (cont)	50/1/6	1/4/06	3/15/06	7/2/06	9/28/06	11/21/06	2/15/07	6/2/07	10/1/6	11/20/07	2/16/08	6/2/08	80/21/6	12/2/08	3/19/09	6/30/06	9/12/09	12/1/09	2/23/10	8/21/10	MW-9	3/25/96	5/30/96	96/13/96	9/26/96	12/18/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	86/11/6	12/29/98	2/3/99	4/20/99	2/15/99



# TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

	Т	Т	r	Г															_						_									_	-			_
MTRE	MIDE	1	Ť	3	<5.0	3	1		4	þ	4	(	1	1		1	1	1	1	ı	1	1	t	1	1	1	1	1	1	,	1	b	į.	t	ı	1	1	
Total	Aylenes	1	<1.0	<1.0	<1.0	92.3	<1.00	<1.00	<1.00					1	1	1	ı	1	1	ij	1		t	1	ı		1	4	1	1	-		t	1	1	i	1	,
Ethyl-	Dengene		<0.5	<0.5	<0.5	14.5	<0.500	<0.500	<0.500	1	1	ı	1	1		1	,	1			,		-	1			4	1	,	-	-	1	1	t	1	1	1	1
Toluene	Tomore	4	<0.5	<0.5	<0.5	7.66	<0.500	<0.500	<0.500	1	1	-	7	1	1	1	,	)	,	,	1		1	1	-		4	Ţ	3	1			1	6	1		Y	1
Renzene	Deliverie		<0.5	<0,5	<0.5	<1.20	<0.500	<0.500	<0.500	i	1	ī	3	1	1	i	ī	i	ì	1	1	1	1	1	i	ı	t	î	1	1	i	1	1	ľ	1	ì	1	1
TPH-HRO TPH-CRO	The same	į	<50	<50	<50	433	<50.0	<50.0	<50.0	1	1	,	A	1	1	1	t		,	1	1	1	3	I	1	1	1	1	1	1	ì	1	1	4	1		1	3
трн-нво		1		1		i		1	1	/ELL	1	Ĩ	1	1	1	1	1		ı	1	j	1	1	i	Ĭ	1	į	-	t	1	-	1	1	1	i	1	į	
TPH-DRO	200	1	đ	1	4	è	-		1	KED OVER W	1	į	į	1	ì	*	£	£	t	1	1	ı	1	4	ł	1	ī	1	-	*	ì	į	1	1	ì	í		1
GWE	(6000)	þ	237.83	237.15	234.61	233,52	235.38	233.84	235.39	LE - CAR PAR	233.49	232.37	240.63	239.52	233.77	236.61	240.26	238.18	233.29	240.18	238.20	234.75	241.89	241.43	239.91	234.04	233.99	245,23	240.71	233.27	233.36	240.96	236.79	234.63	234.30	237.05	237.08	233.81
DTW (ft.)	(22)	ď	23.37	24.05	26,59	27.68	25.82	27.36	25.81	INACCESSIBI	27.71	28.83	20.57	21.68	27.43	24.59	20.94	23.02	27.91	21.02	23.00	26.45	19.31	19.77	21.29	27.16	27.21	15.97	20.49	27.93	27.84	20.24	24.41	26.57	26.90	24.15	24.12	27.39
TOC* (ft.)	1	261.20	261.20	261,20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	6/30/09 261.20 24.12 237.08	261.20
Well ID/ Date	MW-9 (cont)	11/10/99	3/8/00	5/18/00	00/5/6	11/2/00	3/1/01	8/21/01	12/5/01	6/26/02	9/29/02	1/6/03	3/8/03	6/9/03	9/2/03	12/19/03	3/29/04	6/10/04	9/17/04	4/22/05	7/8/05	9/7/05	1/4/06	3/15/06	7/2/06	9/28/06	11/21/06	2/15/07	6/2/07	10/1/6	11/20/07	2/16/08	6/2/08	9/12/08	12/2/08	3/19/09	60/08/9	9/12/09



### TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

ATDE	IIBE	1		2.5		í	÷	1	4	į	+	,	ı	í	1	4	j	1	3	1	<5.0	4	Ä	į	1	<2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2,5	<2.5	2.5	2.5
	Aylenes	-	1	<1.5		- QN	ND QN	Ŷ	ND (N	1	ND	1	N	í	2.76	<1.80	<2.00	1	<1.40	<1.0	9.2		<1.00	2.16	1.09		1.9	<1.5	<1.5	<1.5			<1.5			<1.5	
	Denzene A		1	<0.5		ND	ND	1	ND	1	N	1	ND	4	<0.5	<0.5			<0.800	<0.5	<2.36	5.03	<0.500	_		0.95		<0.50				<0.5	<0.5		<0.5		
	1 oluene	1	1	<0.5		ND	ND	1	e R	,	NO ON	,	NO ON	1	0.535	<0.5	<0.5	,	2.0	<0.5	<1.39	3.04	<0.500	<0.500				<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Donzono	Denzene	1	1	<0.5		ON	8.0	1	QN	1	QN	i	QN	ĩ	1.72	<1.20	<1.10	-	<0.5	<0.5	<3.34	<0.592	<0.500	0.749	<0.500	<0.50	1.6	<0.50	<0.50	<0.5	1.7	<0.5	<0.5	<0.5	9.0	<0,5	<0.5
TEU HED CRO	ILU-CRO			<50		152	232	i	QN	į	QV	į	306	į	401	216	214		524	241	441	230	<50.0	300	109	220	420	<50	<50	<50	310	<50	<50	<50	240	<50	05>
Odn nor	OND-UIT	)	1	ì		1	-	1	+	-	1	1		j	Ţ	*	î	-		i	1			ij.	1	<750		1		:		4	4	4	1	Ì	1
TPH DDO	UNIG-UNI	)	ì	1		1	-	í	í	ì		i	•	ì	1	1	4	1	í	1	ι	ŧ		ì	-	<250,	-	i.			1		+	1	i	1	
GWE	(igii)	237.47		236.36		246.99	251.47	248.12	243.22	247.25	255.85	245.24	241.25	249.17	252.37	249.84	244.65	239.48	248.72	245.51	240.59	238.66	242.60	240.29	244.17	245.12	239.63	238.53	245.89	244.78	239.89	242.77	246.35	244.37	239.48	245.53	244.36
MLQ (#)	(117)	23,73	INACCESSIBLE	24.84		15.58	11.10	14.45	19,35	15.32	6.72	17.33	21.32	13.40	10.20	12.73	17.92	23.09	13.85	17.06	21.98	23.91	19.97	22.28	18.40	17.45	22.94	24.04	16.68	17.79	22.68	19.80	16.22	18.20	23.09	17.04	18.21
T0C*	(11:)	261.20	1			262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262,57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57
Well ID/	MW-9 (cont)	12/1/09	2/23/10	8/21/10	MW-10	5/30/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	86/11/6	12/29/98	2/3/99	4/20/99	7/15/99	11/10/99	3/8/00	5/18/00	00/5/6	11/2/00	3/1/01	8/21/01	12/5/01	6/26/02	9/29/02	1/6/03	3/8/03	6/9/03	9/2/03	12/19/03	3/29/04	6/10/04	9/17/04	4/22/05	7/8/05



# TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

MTBE		<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	225	<2.5	2.5	2.5	2.5	2.5	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5		,	,	)		1	j	1	ı		i	đ	ı	1	1
Total		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<5.0	<1.5	<1.5	<1.5	<5.08	<1.5	<1.5	<1.5	1.8	<1.5	<1.5	<i.5< td=""><td></td><td>ND</td><td>ND</td><td>1</td><td>QN</td><td>1</td><td>QQ.</td><td>ı</td><td>ND</td><td>1</td><td></td><td>&lt;0.5</td><td>-</td><td>ì</td><td></td></i.5<>		ND	ND	1	QN	1	QQ.	ı	ND	1		<0.5	-	ì	
Ethyl- benzene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	1.8	0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5		QN	ND		ND ND	1	ND	1	ON		1	<0.5	1	1	
Toluene		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5		ND	QN	7	ND ND	1	QN	n	QV	•	1	<0.5	1		,
Benzene		6.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<2.0*	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5		QN	ND	1	QN	1	ND	ı	QN		,	<0.5	1	ı	1
TPH-GRO		190	<48	<48	<48	180	140	<48	<50	420	120	<50	<50	059	260	<50	<50	480	<50	<50	<50		ON	ND	1	ND	1	N ON	1	QN	1	1	<50	j	ı	
TPH-HRO			1	į	1	4	1		4	į.	-	)		i	ĺ	2-4		d	1	t	-		į	ND	(1)	1	1		3-4	1	1	1	ı	1	ļ	
TPH-DRO		ì	-		-	ľ		ı				-	1	•	4	4	ŕ	1	-	4	ł		1	QN.	ł	į	1		1	*	1	.1	1	1	ı	t
GWE (msl)		240.93	247.25	246.85	245.23	239.39	240.12	247.35	245.90	240.42	238.61	246.17	245.61	240.30	240.16	245.47	245.33	240.54	245.63	250.92	244.07		251.33	256.85	251.53	245.10	254.37	258.15	247.86	244.94	256.29	258.81	256.99	248.11	242.46	255.46
DTW (ft.)		21.64	15.32	15.72	17.34	23.18	22.45	15.22	16.67	22.15	23,96	16.40	16.96	22.27	22.41	17.10	17.24	22.03	16.94	11.65	18.50		9.32	3.80	9.12	15.55	6.28	2.50	12.79	15.71	4.36	1.84	3.66	12.54	18.19	5.19
TOC* (ft.)	u.	ш	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57		260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65
Well ID/ Date	IW-10 (cont)	6/1/05	1/4/06	3/15/06	7/2/06	9/28/06	11/21/06	2/15/07	6/2/07	20/2/6	1.1/20/07	2/16/08	6/2/08	9/12/08	12/2/08	3/19/09	60/36/9	9/12/09	12/1/09	2/23/10	8/21/10	IW-15	5/30/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	9/11/6	12/29/98	2/3/99	4/20/99	7/15/99	66/01/11	3/8/00



### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

MTBE		i	1	1	j	1	Ţ	ĺ	į	Í	i	1	1.	-	1		-	1	1	é	1	i	1	ı	-	1	•	1	1		1.	1	4	1	ì	1	1
Total		<0.5	4	87.6	<0.500	<0.500	<0.500	í	ĵ	f	1	+	1	-(	1	÷	ij	1	1	1	ı	t	+	k	-	ï	1	3	ŧ	1	f	-	-	1	1	*	3
Ethyl- benzene		<0.5	1	1.58	<0.500	<0.500	<0.500	Ť.	£	ì		1	-	1	1		1	1	1	1	ľ	ī	i	1	1	1	1	1		1		-	-	1	1	1	t
Toluene		<0.5	ì	1.07	<0.500	<0.500	<0.500	i	t	ī	1	i	1	1	ŀ	-	1	1	ĭ	1	1	1	1	1	1		1	ł	ı	1	1	1	-	1	2	-	ı
Benzene		<0.5	1	<0.500	<0.500	<0.500	<0.500	ì	i	1	1	3	1	1	i	í	í	i	t	1	1.	1	1	. 1	1	4	)	4	ı	1	1		,	1	ì	1	t
TPH-GRO		08>	j	62.3	<50.0	<50.0	<50.0	1	1	1	1	1	,	j	1				ì		1.	,	1	4	1	1	)	1	t	3	1	1	1	1	1	j	1
TPH-HRO	-	1	)	)	į	4	4	4	1	Í	,	1	4	4	j	1	1	t	,	1	ĭ	à	1	1	ï	1	i	,	ŧ	ì	1	1	1	ţ	J	ı	ļ
TPH-DRO		9	į	1	1	y	1	1	ţ	1	į	į	j	i	à	1	1	i	1	i	ï	ì	ì	4	i	ı	1	į	1	i	i	1	-	į	ì	1	1
GWE (msl)		249.93	244.06	242.00	250.25	244.36	258.62	248.80	243.47	245.31	250.12	249.94	243.87	250.62	254.61	246.23	243.23	222.94	248.27	244.90	255.49	255.56	247.82	242.54	244.08	254.73	250.14	243,86	243.64	252.74	251.32	243.84	244.96	252.20	249.12	243.90	256.41
DTW (ft.)		10.72	16.59	18.65	10.40	16.29	2.03	11,85	17.18	15,34	10.53	10.71	16.78	10.03	6.04	14.42	17.42	37.71	12.38	15.75	5.16	5.09	12.83	18.11	16.57	5.92	10.51	16.79	17.01	16.7	9.33	16.81	15.69	8.45	11.53	16.75	4.24
TOC*		260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260,65	260.65	260.65	260.65	260.65	260.65	260.65	260.65	260.65
Well ID/ Date	MW-15 (cont)	2/18/00	00/5/6	11/2/00	3/1/01	8/21/01	12/5/01	6/26/02	9/29/02	1/6/03	3/8/03	6/9/03	9/2/03	12/19/03	3/29/04	6/10/04	9/11/04	4/22/05	7/8/05	50/2/6	1/4/06	3/15/06	7/2/06	9/28/06	11/21/06	2/15/07	6/2/07	£0/L/6	11/20/07	2/16/08	6/2/08	9/12/08	12/2/08	3/19/09	60/02/9	9/12/09	12/1/09



# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

	MTBE	<0.5	<2.5		1		3		,		1	,	1	1	1	1	1	1	4	4	ī	1	1	1	1	9	(	18	1	Ì	1	58	25	55	24	250
Total	Xylenes	<1.5	<1.5	304	ı	14	,			1	į	1	1	1	1	1		4	,	ð	it	İ	ı		į	i	1	46	1	-	-	110	160	51	41	57
Ethyl-	penzene	<0.5	<0.5	444	1	1	j	1	1	1	1	,	,		1	1	ı	1	j	1	1	ì	t	t	í	1		150	1	1	ì	260	240	170	110	130
	Loluene	<0.5	<0.5	35.4	1	t	1	1	1	1	1	1	j	à	ì	1				1	1			1	1	1	4	5.2	-	-		10	.35	10	4.7	12
	Benzene	<0.5	<0.5	31.7		1		1	í	t	ı	t	1	1	1	1					1		1	1	1	1	1	8.4	1	1	-	14	8.7	12	<10,70	<20,
Odo Har	IPH-GRO	<50	<50	5.260	1			1	ţ	1	1	1	+	1	1	1	1	1	1	1		I	)	1	1		1	3,200	7	ı	1	006'9	7,000	4.800	4,300	5.900
Con nor	IPH-HRO		-	1	1		1	1	1	1	1	1	1	į	1	ı	1	1	1	i	į	1	é	ì	1		1	1	NUALLY	NUALLY	NUALLY	ı	1		1	1
Odd Har	Irh-DRO	1	1	4	1	4	1	1	À	4	ì	į	•	į	į	Í.	Ĭ	i	i	,1	1	-	-	ı	t	1	Y	r	SAMPLED ANNUALLY	SAMPLED ANNUALLY	SAMPLED ANNUALLY	1	-	1	4	6
GWE	(mst)	257.69	246.48	257.17	246.22	242.55	248.56	253.11	251.83	243.55	253.65	254.43	249.51	243.26	253.71	249.49	244.60	255.31	255.22	249.06	242.84	243.80	254.63	249.93	243.54	242.84	255.74	250.16	243.35	245.87	252.69	249.45	243.60	255.44	256.59	246.73
DTW (#)	(11.)	2.96	14.17	3.97	14.92	18.59	12.58	8.03	9.31	17.59	7.49	6.71	11.63	17.88	7.43	11.65	16.54	5.83	5.92	12.08	18.30	17.34	6.51	11.21	17.60	18.30	5.40	10.98	17.79	15.27	8.45	11.69	17.54	5.70	4.55	14.41
TOC*	(11.)	260.65	260.65	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14	261.14
Well ID/ Date	MW-16	2/23/10	8/21/10	12/5/01	6/26/02	9/29/02	1/6/03	3/8/03	6/9/03	9/2/03	12/19/03	3/29/04	6/10/04	9/17/04	4/22/05	7/8/05	50/1/6	1/4/06	3/15/06	7/2/06	9/28/06	11/21/06	2/15/07	6/2/07	9/7/07	11/20/07	2/16/08	8/2/08	9/12/08	12/2/08	3/19/09	6/30/06	9/12/09	12/1/09	2/23/10	8/21/10



#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

*20C	DTW	CWE						Frhvl.	Total	
-	(ft.)	(lsm)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Tolnene	henzene	Xvlenes	MTRF
				J		***************************************		200	Camaria.	201111
1	00.6	250.91	1		25.600	173	757	1.040	4.840	,
	14.59	245.32	ì		-	1	1	1	1	1
259.91	19.90	240.01	1		1	1	1		t	1
	16.71	243.20	1	-10	1	)	1	t	:	1
	12.27	247.64		-	4	1	ı	j	ï	1
16'652	13.48	246.43	-	-	Ŧ	1	1	1		9
	19.49	240.42	1		4		1	1	1	d
259.91	13.18	246.73		1	t	Á	i	1	î	1
	9.82	250.09	1		1	1	1	4	1	1
	15.84	244.07	1	1	4	1	3	1	1	i
	16.61	240.00		ţ	1	1	1	1	1	1
	12.03	247.88	Į		1	,	4	1	1	1
-	15.24	244.67	1	1	,	1	)	1	1	1
259.91	18.46	241.45	1	1	ì	3		1	1	1
	8.93	250.98	1			-	6	1	1	1
259.91	9.02	250.89	1	1	7	í	t	1	1	į
259.91	15.65	244.26	1	)		t	-	1	1	1
259.91 [DI	DRY	1	1	1	ı	ı	1		1	1
259.91	19.27	240.64	1	4	t	1		1	ì	,
259.91	8.56	251.35	į	1	1		1	1	i	i
259.91	13.37	246.54	1	1	1	1	7	-	1	1
259.91	19.12	240.79	1	ı	ì	1	1	-	i	į
	DRY	t	1	1	d	1	1	1	1	t
259.91	7.82	252.09	y	1	1	ì	1	į	ľ	
259.91	13.50	246.41	1	,	7,900	37	140	170	590	<100°
259.91	19.21	240.70	SAMPLED AT	ANNUALLY	1	1	1	1	1	į
259.91	19.84	6-1	SAMPLED AT	ANNUALLY	1	í	ļ	-		į
259.91	12.15	247.76	SAMPLED AT	ANNUALLY	1	1		1	1	3
	UNABLE TO LOCAT	OCATE	1	1	ı	ì			-	3
	18.75		1	-	5,500	13	56	63	320	<20°
259.91	8.37	251.54	t	J.	2,000	23	18	32	16	180
16.652	5.50	254.41	6	4	<50	<0.5	<0.5	<0.5	<1.5	<2.5
	15.98	243.93	7	1	5.200	.20	59	32	470	<50°



#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

	MTRE		1	1							1			,		,		4							,	200				290		270	150	21500
Total	9		3.190				;	-			1				1			1		-	-					1.800			-	2 300	4	1.400	790	-
Ethyl-	benzene		066					1		į	i			i	i	1	1	1	,	1				1	1	870	1	,	,	1.200	,	920	590	000
	Toluene		164	1	1	1	1	1	1	1	,		1	,	1	,	:	1	1	1	1	,	4	ı	ì	120	1	,	,	130	1	100	52	- 02
	Benzene		56.7	ı	i	ì	ī		1	i	1	1	ı	Í		í	f	ī	i	i	i	ī		ī	1	,09>	ı	į	ì	09		53	<30,	<100/
	TPH-GRO		18,400	1	1	1	i	i	ı	,	4	1	į	)		į	*	t		1	4	,		1		25,000	ı		1	24.000	Ť	20,000	15,000	21.000
	TPH-HRO		1	Y	i	1	d	1	t	4					-		,	4	-	1	1	ī		1	1	9	ANNUALLY	į	NUALLY	ţ	ľ	i	j	
	TPH-DRO		1	1	-	ı				ŀ	į	1	i	Í	ĭ	4	1	1	ì		ł	1	1		1	j	SAMPLED AN	1	SAMPLED ANNUALLY	1	ì	ł	t	
GWE	(lsu)		250.03	247.13	-		1	245.84	1	242.66	249.86	1	246.01	243.86	1	250.65	250.53	243.69	1		251.00	245.97	1	i	251.34	245.74		1	247.05			250.87	253.44	243.43
DTW	(ft.)		69.6	12.59	DRY	DRY	DRY	13.88	DRY	17.06	98.6	DRY	13.71	15.86	DRY	20.6	9.19	16.03	DRY	DRY	8.72	13.75	DRY	DRY	8.38	13.98	18.95	DRY	12.67	13,56	DRY	8.85	6.28	16.29
±20T	(ft.)		259.72	259.72	259.72		259.72	259.72	259.72	259.72	259.72	259.72	259.72	259.72		259.72	259.72	259.72			259.72	259.72	259.72	259.72	259.72	259.72	259.72	259.72	259.72	259.72	259.72	259.72	259.72	259.72
/GI IIa/	Date	MW-18	12/5/01	6/26/02	9/29/02	1/6/03	3/8/03	20/6/9	9/2/03	12/19/03	3/29/04	6/10/04	4/22/05	20/8//	9/1/05	1/4/06	3/15/06	7/2/06	9/28/06	11/21/06	2/15/07	6/2/07	10/1/6	11/20/07	2/16/08	8/2/08	9/12/08	12/2/08	3/19/09	6/30/06	9/12/09	12/1/09	2/23/10	8/21/10



## TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

MTDE	MIDE	1			i	1	t	1	i	į	1	í	1	j	i	4	ì	1	i	1		ì	ł	<0.5	ì	Y						ī	9	j	ł	į	1	1
Total	Ayicucs	QN.	3	'n	1.4	1.65	ND	3.6	1.3	1.4	5.73	QN	1.00	NO ON	2	1.07	Q	3.07	<3.20	1.98		2.38	2.26	33.0	244	10.4			540	1,960	3,300	-	2,560	1,460		3,240	1	1
Ethyl-	Denzene	QN	1	m	ND ND	QN	QN.	1.3	QN	ON.	QN	QN	0.771	QN	QN	ND	QN	<1.00	<1.00	899.0	ï	<0.650	68.0	6.14	40.6	1.46			180	609	1,060	1	781	478	•	703	ī	t
Toluono	попопоп	QN		2	QN	1.29	0.7	3.0	1.2	0.7	4.05	3.72	1.8	QN	QN	UN	QN	<2.00	<1.12	1.35	-	<1.40	181	4.73	22.8	1.25			160	615	1,120	-	841	985	1	968	1	I
Donner	Denzene	QN	7.97	116	6.0	57.9	7.9	126.0	32.5	11	110	85	72	QN	Q.	2.7	3.43	67.5	8.06	9.19	1	46.6	74.3	69.5	79.4	30.8			170	209	9.16	-	196	196	-	64.6	i	ì
Ogo Har Ogn Har	THE CAN	QN	80	80	QQ	104	QN	237	218	17	268	304	151	QN	QN	QN	QN	168	129	145		441	438	682	2,540	173			3,300	11,500	27,000	•	16,800	8,980		17,600	-	1
Oan nat	OWILLIAM	1	1		ı	ì	1	ì	į	ı		7		1	į.	-	1	í	ŧ	•	ı	-	7	-		-						-	-	-			ţ	i
Can Har	ONGLIN	- QN	1		QN	1	-	1		1	i	1	-			-	1	7	1	1	Ĭ.	i	ì	-	-	4			ND	-			1	-	1	j		1
GWE (mel)	(icini)	241.82	253.74	243.53	251.55	248.32	249.85	241.40	254.10	255.35	247.95	242.90	250.68	257.95	248.16	244.68	252.60	258.48	254.75	248.04	242.56	255.08	249.97	244.09	241.98	249.83			240.67	252.28	242.41	250.15	248.03	248.63	244.25	251.69	253.62	247.50
DTW.	(110)	21.28	9:36	19.57	11.55	14.78	13,25	21.7	6	7.75	15.155	20.2	12.42	5.15	14.94	18.42	10.5	4.62	8.35	15.06	20.54	8.02	13.13	10.61	21.12	13.27	4		22.68	11.07	20.94	13.2	15.32	14.72	19.1	11.66	9.73	15.85
T0C*	(21)	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	263.10	DESTROYEL		263.35	263.35	263,35	263.35	263.35	263.35	263.35	263.35	263.35	263.35
Well ID/	MW-1	12/21/93	3/7/95	8/4/95	3/25/96	5/30/96	96/13/96	9/26/96	12/18/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	9/11/6	12/29/98	2/3/99	4/20/99	7/15/99	11/10/99	3/8/00	2/18/00	9/2/00	11/2/00	3/1/01	ABANDONED/DESTROYED	MW-2	12/21/93	3/7/95	8/4/95	3/25/96	5/30/96	6/13/96	9/26/96	12/18/96	3/26/97	6/30/97



# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

MTRF	-	t	1	1		1	1	Ī	-	į	;	3	3	<50		<1.00			ı			1	1	1	1	1	1	1	1	j	,	1	1	1	1	)	ı
Total		3.750		1	į	618	ł	994	1.410	234	1.950	1,070	641	227	į	250			6.700	4.750	4,800	4,800	5,270	4,870	6,920	4,390	5,330	6,430	6.880	5.530	6.480	6,570	5,580	5.130	5,770	5,370	2.960
Ethyl-		852	1		1	316	1	408	587	139	826	549	372	206	1	162			2,600	830	1,000	950	1,000	867	1,240	559	1,000	1,190	1,190	71.1	1.240	1,120	626	244	830	1,020	919
Toluene		854	ı	Ē	1	212	1	394	572	118	714	493	228	689	1	82.0			1,100	2,200	2,100	1,800	2,180	2,180	2,350	1,390	1,900	2,040	1,800	1,380	2,160	1,790	1.490	694	1.460	1.650	166
Benzene		74.5	ì	Ť	1	175	9	164	193	123	219	194	182	149		103			460	1,130	1,300	066	198	562	751	215	793	316	171	130	906	341	280	121	554	783	490
TPH-GRO		23,000	1	1	ı	5.410	1	8,450	10,200	1,570	14,700	8,810	5,120	1,990	ì	2.040			42,000	35,000	40,000	33,000	28,600	24,500	41,100	18,600	32,000	36,100	34,300	25,500	3,400	38,400	28,100	19,200	30,600	25,700	19.800
TPH-HRO		1		)	1	t	1	1	1	1	1	1		1	1					1		1	-	1	1	į	ì	4	1	1.00	-	-				)	1
TPH-DRO		ì	•	1	4	1	1	(	t	3	Į,	7	-	1	1	1			820	4		1500	-	-		1		-	-	7			-	1	ť	1	ľ
GWE (msl)		241.55	247.97	256.57	252.65	243.95	251.81	258.35	253.40	247.40	241.88	253.95	249.80	243.59	241.21	246.87			239.28	250.41	241.60	249.05	246.35	247.74	242.87	249.32	252.72	246.72	241.74	246.40	256.52	250.71	243.67	248.32	255.87	252.46	247.49
DTW (ft.)		21.8	15.38	82.9	10.7	19.4	11.54	5	9,95	15.95	21.47	9.4	13.55	19.76	1	-			24,44	13.31	22.12	14.67	17.37	15.98	20.85	14.4	-11	17	21.98	17.32	7.2	13.01	20.05	15.4	7.85	11.26	16.23
Toc.		263,35	263.35	263,35	263.35	263.35	263.35	263.35	263.35	263.35	263.35	263,35	263.35	263.35	263.35	263.35	DESTROYEE		263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72	263.72
Well ID/ Date	MW-2 (cont)	9/29/97	12/29/97	3/13/98	6/24/98	86/11/6	12/29/98	2/3/99	4/20/99	7/15/99	11/10/99	3/8/00	2/18/00	00/2/6	11/2/00	3/1/01 263.35	ABANDONED	MW-3	12/21/93	3/7/95	8/4/95	3/25/96	5/30/96	6/13/96	9/26/96	12/18/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	86/11/6	12/29/98	2/3/99	4/20/99	7/15/99



# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

	Aylenes MIBE	1	5.750	4.850	5,870 <250		7.700 <1.00			ND	ND ON		- QN	ND N	- QN	- QN	1	1	- QN	1	1		- QN		<1.0	<1.0	<1.0	1	<1.0	<1.0	1	<1.00	
	Denzene Ay		1,220 5.	994 4.	1.170 5.		1,340 7.			ND IN	N ON		N N	ND	N	ND	1	1	ND	1	1		N ON	-	<0.5	<0.5			<0.5	<0.5		<0.500 <1	
Tolução	Toldene	1	1,520	1.380	1.320	1	1.650			ND	Q	1	Q.	QN	R	QN	ì		QN	1	ì		ON		<0.5	<0.5	<0.5	:	<0.5	<0.5		<0.500	
	Denzene	)	608	789	654	í	333			ND QN	ND	1	ND	ND	Q.	ND	i	ï	ND	à	á		QN	1	<0.5	<0.5	<0.5	1	<0.5	<0.5	1	<0.500	
Tou up Cp	JER-GRO	1	30,700	26,700	36,600	1	32,400			ON	QN		QN	QN	N N	QN.	ı	1	QN	1	1	1	ND		<50	050	<50	ı	<50	08>	1	<50	
Odn nan	ILU-UKO	1			4	ı	1	1		4		1	1	-	1	4	t	1	1		1	1	1	1	1	1	-	4	1	1	1	1	
Odu nat	ILU-DAO	1		)	-		4			1		1	1		1		1	ı	ŧ		1	1	1	1	1	1		1	1	t	1.	4	
GWE	(igin)	242.08	252.38	248.96	243.30	240.93	243.50			257.98	248.08	ţ.	253.18	254.93	246.64	258.64	260.09	253.89	248,29	255.33	259.11	249.90	248.05	257.25	260.66	255,30	250.00	244.46	256.86	252.12	1	243.89	
DTW (#)	(117)	21.64	11,34	14.76	20.42	22.79	20.22			6.56	16.46		11.36	19.61	17.9	5.9	4.45	10.65	16.25	9.21	5.43	14.64	16.49	7.29	3.88	9.24	14.54	20.08	7.68	12.42	DRY	20.65	
*20C*	(31)	263.72	263.72	263.72	263.72	263.72	263.72	ABANDONED/DESTROYED*		264.54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	264,54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	264.54	
Well ID/	MW-3 (cont)	66/01/11	3/8/00	5/18/00	9/2/00	11/2/00	3/1/01	ABANDONE	MW-4	3/7/95	8/4/95	3/25/96	5/30/96	96/13/96	9/26/96	12/18/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	86/11/6	12/29/98	2/3/99	4/20/99	7/15/99	11/10/99	3/8/00	5/18/00	00/5/6	11/2/00	



## TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Scattle, Washington Concentrations reported in µg/L

MTRF	7011			3	1	3	1	3-46	į	j	1	Į,	j	j	1	1	i	i	1	t	ij	t	ì	i	ĵ	1	ı	2.5	2.5	<10	<20	<2.5	2.5	2.5	505
Total Xvlenes	taj remes	1.020	4	1,200	1,360	356	104	ON	Q	261	N	ND	ND	ND	QN	ND	898	726	772	1	570	029		569	107	224	349	5.6	14	31	82	<1.5	23	0.9	<1.5
Ethyl- benzene	Allegan	291	7	280	484	15.4	36.7	QN	QN	27.0	QN	QN	QQ.	ND	QN	QN	312	220	144	d	220	180	ī	172	15.5	76.9	89.4	3.0	9.3	16	43	<0.5	12	2.6	<0.5
Toluene	20000	212	\$	280	349	59.0	24.9	QN	QN	70.9	ND	Q	QN	ND	QN	QN	183	165	169	1	118	143	1	87.7	15.9	33.4	51.7	1.5	4.1	10	16	<0.5	4.8	2.0	<0.5
Benzene	Anaguaa	427	13.2	610	870	204	62.8	6.0	QN	128	R	QN	QQ	ON	ND QN	ON	275	289	309	Î	200	216	i	148	27,4	51.4	59.7	4.0	8.1	61	18	<0.5	7.6	7,3	<0.5
TPH-GRO		9.000	730	11,000	18,300	4,150	1,310	N Q	QN	3,630	QQ.	QQ.	ND Q	ON	QN	ND	8,480	6,250	6,070	ì	8,630	7,320		4.850	1,430	2,530	2,560	66	280	910	1,100	<50	380	240	<50
TPH-HRO		1		1	-	1	1	į		1	7	ì	1	Ī	í	1	-	1	•	1	)	1	-	í	I	-	-	<750'	1		4	1	4		
TPH-DRO		1		069	1	-	1	t	1	*	i	-	1	-	ł	9	ı	-	;	3	1	1	-	ì	1	-	1	<250,	-	**	1	į	1	•	I
GWE (msl)		237.08	231.14	237.16	234.65	235.77	230.37	232,37	242.36	234.72	230.92	232.47	238.15	232.90	229.92	234.39	239.10	236.60	231.55	228.66	235.05	233.04	-	227.49	227.38	227.50	227.55	232.22	228.22	226.66	229.58	231.52	227.94	226.92	233.05
DTW (ft.)		26.19	32.13	26.11	28.62	27.5	32.9	30.9	20.91	28.55	32.35	30.8	25.12	30.37	33.35	28.88	24.17	26.67	31.72	34.61	28.22	30.23	DRY	35.78	35.89	35.77	35.72	31.05	35.05	36.61	33.69	31.75	35.33	36.35	30.22
T0C*		263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27	263.27
Well ID/ Date	MW-5	3/7/95	8/4/95	3/25/96	5/30/96	96/13/96	9/26/96	12/18/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	86/11/6	12/29/98	2/3/99	4/20/99	7/15/99	11/10/99	3/8/00	5/18/00	00/5/6	11/2/00	3/1/01	8/21/01	12/5/01	6/26/02	9/29/02	1/6/03	3/8/03	6/9/03	9/2/03	12/19/03	3/29/04



## TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South

Seattle, Washington Concentrations reported in µg/L

well ID/	*30I	DIW	GWE						- KIDA	013	
Date	(ft.)	(ft.)	(lsw)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
MW-5 (cont)											
6/10/04	263.27	32.70	230.57	i	,	05>	<0.5	<0.5	<0.5	<1.5	<2.5
9/17/04	263.27	35.88	227.39		Ţ	790	.81	9.5	27	43	<20
4/22/05		33.25	230.02	1	ŀ	<50	<0.5	<0.5	<0.5	<1.5	<25
ABANDONED	D										
9-MW											
2/30/96	263.72	25.41	238.31	1	1	ND	Q.	ND	QN	QN.	4
3/26/97	263.75	16.73	247.02	1	1	QN	QN	QN	QN.	CN.	1
6/30/97	263.75	25.80	237.95	1	1		1			1	ğ
9/29/97	263.75	29.43	234.32	1		62.5	ND	QQ.	QX	CN.	i
12/29/97	263.75	28.07	235.68	1	)	1	í		1	1	j
3/13/98	263.75	21.10	242.65	ļ	1	QN	N N	QN	QN	Q.	1
6/24/98	263.75	27.52	236.23	)	1	í		1	1	1	1
86/11/6	263.75	30.29	233.46	1	1	59.4	ND	QN	QN	CN	
12/29/98	263.75	26.15	237.60	1			i	ŧ	1		1
2/3/99	263.75	18.67	245.08		1	1	1	-			İ
4/20/99	263.75	23.09	240.66	t	1	<50	<0.5	<0.5	<0.5	<1.0	3
7/15/99	263.75	27.06	236.69	1	1	1	i		,	1	)
11/10/99	263.75	31.30	232.45	- 1	4	1	t		1		ì
3/8/00	263.75		1	1	1	í	1	-	1		i
5/18/00	263.75	27.56	236.19	1	1	93.8	0.65	<0.5	<0.5	<1.0	ì
00/2/6	263.75	1	1	P	1	İ	ì	4	ţ	1	i
11/2/00	263.75			i	1	1	1	1	1	1	i
3/1/01	263.75	31.58	232.17	1	i	-	ì	1	1	1	i
8/21/01	263.75	31.81	231.94	Í		<50.0	<0.500	<0.500	<0.500	<1.00	1
12/5/01	263.75		}	1	4	1	1				į
6/26/02	263.75	UNABLE TO LOCATE	64.5	- PAVED OVER	1			1	1	1	4
9/29/02	263.75	UNABLE TO LOCATI	7+3	- PAVED OVER	•	1	-	1		1	i
1/6/03	263.75	UNABLE TO	(1)	- PAVED OVER	1	•	Ĭ		1		1
3/8/03	263.75	UNABLE TO LOCATI	Crit	- PAVED OVER	-		1				1
6/9/03	263.75	UNABLE TO LOCATE	Cit	- PAVED OVER	-		1	1	-		
PAVED OVER	8										
MW-7											
3/7/95	217.60	2.03	215.57	1	1	QN	ND	ND	N	ND ON	(
8/4/95	217.60	-	ł	1	7	1	1	ì	-	1	1
3/25/96	217.60	1.95	215.65	QN	1	QN	N N	QN	Q.	Q	Ť
5/30/96	CL 29C	31.6	£6 176			1					



#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South

Seattle, Washington Concentrations reported in µg/L

MTBE		,		1	*	-		1	1	I	)		•	4	ŧ	-	i			1	Í	į.		ģ	1	I	-	-	6	•	4	1	1	1	4	ŧ	1	1
Total Xylenes		1	ND	1	ND	-	UN.	Ĩ	QN	1	1.78	-		ï	Î	4	1			24	<1.0	<1.0	4	1	- 4	<1.0	-	1	-	-	4	-	¢	1		P		1.
Ethyl- benzene		- 70	ND	-	ND		ND	ì	QN	-	ND	-			1	-	1			3.87	<0.5	<0.5	4	į	1	<0.5	-	*	-		-	-	1	1	-	-	1	t
Toluene		1	ND	į	ND	ĵ	ND	1	Q.	ì	ND	1		ì	i	í	í			6.23	<0.5	<0.5	1	1	1	<0.5		-		1	7	1	1	-	-	1	1	t
Benzene		1	ND	-	ND	1	ND	ī	N ON	ĩ	0.756	i	ì	í	i	1	î			8.34	<0.5	<0.5	1	1	1	<0.5	1.	ŧ	-	1	ì		1	-	1	í	ŀ	í
TPH-GRO			ND	1	ND	1	ND ND		QN	į	ND	ì	í	1	í	ı	ı			180	<50	<50	1	1	4	08>	1	-	)	,	4	)	1		4	-	1	1
TPH-HRO TPH-GRO		-	1	ì	í	1	1	ï	1	1	- 4	1	i	1	t	VEGETATION	EGETATION			1	QN	1	1	ij	1	1	6	T	)	1	1	1	i	+	Y	1	1	,
TPH-DRO				1	þ	1	1	1	1	ì	-	i	ì	t	ú	- OVERGROWN VI	- OVERGROWN VEGETATION			3	QN	1	ŗ	1	Þ	į	•	1	d	i	1	1	1		1	i	1	i
GWE (msl)		215.33	214.20	215.50	216.15	215.35	214.60	215.49	215.90	214.99	213.15	215.55	216.39	t	ì	LOCATE - OV	OCATE			4	1		,	.1	ı	1	1.	1	j	1	1	1	1	t	1	ţ	7	1
DTW (ft.)		2.27	3.40	2.10	1.45	2.25	3,00	2.11	1.70	2.61	4.45	2.05	121	1	t	UNABLE TO	UNABLE TO	D-		27.76	11.10	25.54	30.34	DRY	27.29	29.78	DRY	DRY	DRY	DRY	DRY	30.49	DRY	DRY	30.37	30.44	DRY	DRY
T0C* (ft.)		217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	217.60	DESTROYE			1	1	1	J	ı,	1	L	1	į	ĵ	1	1	j	1.	1	1	1	1
Well ID/ Date	MW-7 (cont)	96/11/9	9/36/96	12/18/96	3/26/97	26/08/9	9/29/97	12/29/97	3/13/98	6/24/98	86/11/6	12/29/98	2/3/99	4/20/99	7/15/99	6/26/02	9/29/02 217.60 UNABLE TO I	ABANDONED	MW-11	5/30/96	2/3/99	4/20/99	7/15/99	66/01/11	3/8/00	5/18/00	00/2/6	11/2/00	3/1/01	8/21/01	12/5/01	6/26/02	9/29/02	1/6/03	3/8/03	6/9/03	9/2/03	12/19/03



## TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

W/All ID/	*OOL	DATE	CHANGE						Deland	Thetal	
Date	(ft.)	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xvlenes	MTBE
MW-11 (cont)											
3/29/04	1	30.41	1	1	1	1	1		ł	ĭ	U.
6/10/04	Ĭ.	30.92	1	1	ì	-		į		-	1
9/17/04	f	DRY	1	1	1	1	i	1	1	Î	1
4/22/05	1.	30.32	1.	NOT SAMPLI	ED DUE TO IN	NOT SAMPLED DUE TO INSUFFICIENT WATER	WATER	1	I	ř	t
ABANDONED	1										
MW-12											
96/30/5	1	DRY	1	ł	1	1	1	1	,	ì	1
2/3/99	þ	1	P		ľ		i	t	1	1	3
4/20/99	1		1	1	1	1	1		j	ì	Ţ
7/15/99	1	DRY	ı	1	1	1	į	1	1	•	1
11/10/99	t	DRY	1	1	ì	1	8	1	Y	1	4
3/8/00	í	DRY	4	1	1	1	1	9	1	1	ij
5/18/00	1	DRY	1	1	ì	1	t		-	-	3.
00/5/6	í	DRY	1	1	1	ij	ł	1	1		J
11/2/00	ï	DRY	1	-			t	ļ	ī	ŀ	1
3/1/01	•	DRY	1	1	1	1	1	d.	į	ï	ţ
8/21/01	ì	DRY	1	1	Î		1	ı	ı	ī	ı
12/5/01	+	DRY	1	1	ì	ī	Í	I	1	1	1
6/26/02	3	DRY/OBSTRUCTED	JCTED AT 1	AT 14.55 FEET	1	1	í	1	4	1	1
ABANDONED	1										
MW-13											
5/30/96	ı	13.26		1	Î	26,700	298	718	520	4,900	1
2/3/99	-	-	1	d	ì	31,800	909	1,500	229	6.500	1
4/20/99	ì	10.33	1	í	ı	31,700	629	1,850	1,100	7,260	3.
1/15/99	*	15.46	1	-	į		ý		1	í	Ţ
66/01/11	1	21.78	-	-	1	-	1.	į	Ĭ,		t
3/8/00	1	18.6	ł	1	ĵ	29,300	386	1,700	1,300	6,840	1
5/18/00	1	13,64	ŧ	4	ľ	38,200	524	1,590	1,130	6.620	T
00/5/6	-	19.98	í	ŕ	ì	40,400	476	1,920	1,420	8,520	<500
11/2/00	-	22.70	t	1	Ť	:	1	1	1	i	1
3/1/01	1	18.11	-		4	35,400	456	1.460	559	8,820	<1.00
8/21/01	Ť	*			1		•	-	1	1	4
12/5/01	į.	-	1	1	4	1	1	1	j	1	1
A DANIDONIED OF COURSE	The party of the	722									



## TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

MTBF		4		1	1	1	1	Ī	ŀ		1			i			N.			4.	1,	1		1	1	9	,	*	1		1		1	,	,	*	
Total	name of the	7,050	9.876	23.1	Ì		<10.5	6,200	1	T	879			7,700	7,100	1	8,960	5,060	1	7,320	5,610	5.890	Œ	8,450	7,250	)	ĵ	4,050	1	5,460	6,460	1	5,700	6,450	þ	6	33 300
Ethyl- benzene		854	2.05	19.5	į	i	22.8	1.080		1	225			1,050	1,320	3	1.680	699	1	1,300	1,120	1,280	1	1,550	1,310	1	1	953	1	086	1,180	1	1.210	1.140	1	1	4.700
Tolnene		2,990	0.582	<4.10			4.05	1,530		1	103			2,030	1,900	1	1,350	2,820	1	1,420	1,070	1,230	1	1,580	1.310	1	1	653	1	964	1.160	Ŷ	800	1,040	1	t	3 280
Benzene		704	<0.5	<1.1	1	ŧ	<0.550	449		i	<30.8			953	1,020	ì	544	702	į	646	458	909	i į	869	507		i	242	j.	362	517	į.	214	365	1	1	054
TPH-GRO		39.800	279	547	į		1.150	34,900	1	}	6,110			44,000	53,000	ì	853,000	25,800	į	43,800	35,000	429,000	į	39.900	48,000	1	1	23,300	1	26,700	52,300		27.700	35,700	1	1	705 000
TPH-HRO			ı	1	1	í	1	ı	1	i	j			1			į	1		1	1	1	-			( e	1	4	1	1		1	1	1	-	1	100
TPH-DRO		1	-	-	1	i	1	1	i	1	į			1					ľ	1	7	i	-		1	ĵ		-	1	7			ľ	+	ŧ	1	
GWE (msl)		1	-	+	t	-	t	þ	1.	4	Ĭ			255.47	245.49	253.42	250.30	251.48	244.07	255.17	257.62	250.75	245.14	251.02	256.22	-	243.80	252.94	258.04	253.44	247.28	1	254.15	249.05	ţ	1	747.67
DTW (ft.)		12.67	,	9.51	DRY	14.35	8.26	13,16	DRY	DRY	14.18	,Q;		7.70	17.68	9.75	12.87	69:11	19.10	8.00	5.55	12.42	18.03	12.15	6.95	ł	19.37	10.23	5.13	9.73	15.89	DRY	9.02	14.12	DRY	DRY	15.50
TOC* (ft.)		•	+	1	1	-	- 75	-	1	1	-	/DESTROYE		263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	263.17	763.17
Well ID/ Date	MW-14	5/30/96	2/3/99	4/20/99	7/15/99	11/10/99	3/8/00	5/18/00	00/5/6	11/2/00	3/1/01	ABANDONED	VEW-1	3/7/95	8/4/95	3/25/96	5/30/96	6/13/96	9/26/96	12/18/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	9/11/68	12/29/98	2/3/99	4/20/99	7/15/99	11/10/99	3/8/00	5/18/00	9/5/00	11/2/00	3/1/01



## TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558

1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

Well ID/	T0C*	DIW	GWE						Ethyl-	Total	
Date	(ft.)	(ft.)	(lsm)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
VEW-1 (cont)	2										
8/21/01	263.17	19.54	243.63	1	-	193,000	734	3,080	3,310	17.600	U
12/5/01	263.17	9.38	253.79	7	ł	38.800	440	1,760	1,360	8.590	1
ANDONE	ABANDONED/DESTROYED*	D <sup>2</sup>							-	1	
VEW-2											
3/7/95	263.02	6.28	256.74	P	100	25,500	<10	828	266	4,800	1
8/4/95	263.02	16.53	246.49	i		33,000	28	730	089	3,400	1
3/25/96	263.02	8.55	254.47	ŕ	į	1	3	1	1	1	I
96/02/5	263.02	11.52	251.50	ì	1	26,000	79.7	468	678	3,510	
6/13/96	263.02	9.51	253.51	1	1	1	4	1	ı	1	ı
9/26/96	263.02	18.25	244.77	1	1	1	1	1	-	1	1
12/18/96	263.02	5.90	257.12	1	1	3	1	1	-	Y	
3/26/97	263.02		1	1	1	1	1	-	1	1	•
6/30/97	263.02	17.25	245.77	9	1				1	)	ĵ
9/29/97	263.02	1	1	ì	ì	1	1		i		
12/29/97	263.02		1	1		ţ		Q.		y	1
3/13/98	263.02	i	j	1	į	1	ŧ	ì	•	1	1
6/24/98	263.02	1	1	i	1	Í	1	7	Î	1	1
86/11/6	263.02	1	1	Ť	ŧ	1	į	j		1	,
12/29/98	263.02	1		1	ï	1	1	1	1	1	1
2/3/99	263.02	4.15	258.87	1	ì	í	j	1	4	1	
4/20/99	263.02	8.60	254.42	ı	4	17,300	09>	311	392	2,700	1
7/15/99	263.02	14.65	248.37			26,500	78.5	410	109	3,490	1
11/10/99	263.02	DRY	I.	ì		L	į	1	į	1	1
3/8/00	263.02	7.77	255.25		I	19,500	<10.0	201	286	1,970	1.
5/18/00	263.02	12.56	250.46	-	-	19.800	21.6	309	320	2,980	1
00/2/6	263.02	19.06	243.96	j	1	1	1	Y	į	1	1
11/2/00	263.02	DRY	P	í	ŕ	1	1	*		5	,
3/1/01	263.02	13.20		1	1	28,300	<85.0	531	808	4.070	ŀ
ANDONE	ABANDONED/DESTROYED										
TRIP BLANK	2										
ÓΛ											
6/26/02		1	1	1	1	<50	<0.50	<0.50	<0.50	<1.5	425
9/29/02			•	•	j	<50	<0.50	<0.50	<0.50	<1.5	<2.5
1/6/03	1	ì	1		1	<50	<0.50	<0.50	<0.50	<1.5	2.5
3/8/033	9	1	)	•	-	j	1	Ì		3	1
6/9/03	1	1	-	-	1	05>	<0.5	<0.5	50>	<15	30



# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558

1366 31st Ave. South Seattle, Washington Concentrations reported in µg/L

Well ID/	TOC*	DTW	GWE						Ethyl-	Total	
Date	(ft.)	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
QA (cont)											
9/2/03	+	-	1	1	1	<50	<0.5	<0.5	<0.5	<1.5	2.5
12/19/03	t	•	1	74	1	<50	<0.5	<0.5	<0.5	<1.5	2.5
3/29/04		9-5	1	1	1	<50 <50	<0.5	<0.5	<0.5	<1.5	2.5
6/10/04	**	4	)	ĝ	ì	<50	<0.5	<0,5	<0.5	<1.5	<2.5
9/17/04	*	-	- Service	1	1	<50	<0.5	<0.5	<0.5	<1.5	<2.5
4/22/05		4	4	ł	ť	<50	<0.5	<0.5	<0.5	<1.5	2.5
7/8/05		1	ł		-	<50	<0.5	<0.5	<0.5	<1.5	<2.5
9/1/05	ì	1	4	i	1	<50	<0.5	<0.5	<0.5	<1.5	2.5
1/4/064	1	ł	4	1		<48	<0.5	<0.5	<0.5	<1.5	<2.5
3/15/06	1	7	ì	1	,	1	1	-	1	1	ŧ
7/2/06	1	4	ı	ì	1	<48	<0.5	<0.5	<0.5	<1.5	<2.5
9/28/06	Y	-	*	ĵ	)	<48	<0.5	<0.5	<0.5	<1.5	2.5
11/21/06			-	,	1	<48	<0.5	<0.5	<0.5	<1.5	2.5
2/15/07	1	1	1	-	6	<48	<0.5	<0.5	<0.5	<1.5	2.5
6/2/07	1		+	1		<50	<0.5	<0.5	<0.5	<1.5	2.5
20/1/6	ĭ	1		ŧ		<50	<0.5	<0.5	<0.5	<1.5	2.5
11/20/07	1	-		1000	ĭ	<50	<0.5	<0.5	<0.5	<1.5	2.5
2/16/08	1	+	4	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5
6/2/08	Y	ı	-	-	1	<50	<0.5	<0.5	<0.5	<1.5	2.5
80/17/6	4	•	1		}	05>	<0.5	<0.5	<0.5	<1.5	<2.5
12/2/08	Y	1			1	<\$0	<0.5	<0.5	<0.5	<1.5	5.5
3/19/09	4	1	3	+	-	<50	<0.5	<0.5	<0.5	<1.5	2.5
60/08/9	1	1	1	-	-	<50	<0.5	<0.5	<0.5	<1.5	2.5
9/12/09	-		4	1		<50	<0.5	<0.5	<0.5	<1.5	2.5
12/1/09	-	-	-	-		<50	<0.5	<0.5	<0.5	4.5	2.5
2/23/10	-	-			1	<50	<0.5	<0.5	<0.5	<1.5	2.5
8/21/10	1		-			<50	<0.5	<0.5	<0.5	<1.5	2.5
	Standard	Standard Laboratory Reporting 1	orting Limits:	i	-	50	0.5	0.5	0.5	1.5	2.5
		MTCA Method A	thod A CULs:	500	500	800/1/008	. 5	1.000	700	1,000	20
		C	Current Method:	NWTPH-Dx + Extended	+ Extended			NWTPH-Gx and EPA 8260	md EPA 8260		



#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Ave. South TABLE 1

Concentrations reported in µg/L Seattle, Washington

#### EXPLANATIONS:

Historical data has been requested, but electronic file has not yet been received.

CULs = Cleanup levels QC = Quality control

TPH-HRO = TPH as heavy oil-range organics TPH-GRO = TPH as gasoline-range organics MTBE = Methyl Tertiary Butyl Ether MTCA = Model Toxics Control Act QA = Quality Assurance/Trip Blank -- Not Measured/Not Analyzed μg/L = Micrograms per liter TPH-DRO = TPH as diesel-range organics TPH = Total Petroleum Hydrocarbons GWE = Groundwaler Elevation (msl) = Mean Sea Level DTW = Depth to Water TOC = Top of Casing (ft.) = Feet

\* TOC elevations have been surveyed in feet relative to msl.

1 Analyzed with silica-gel cleanup.

Reported as ABANDONED/DESTROYED because confirmation has not yet been received.

3 Analysis was not performed as requested on the chain of custody,

4 Due to a scheduling error, monitoring and sampling was performed in 2006 but reflects the 4th quarter 2005 event.

5 Samples were not received by laboratory.

6 Laboratory report indicates due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

7 Laboratory report indicates due to the presence of an interferent near its retention time, the normal reporting limit was not attained for henzene. The presence or concentration of this 8 Laboratory report indicates due to the presence of an interferent near its retention time, the normal reporting limit was not attained for benzene and total xylenes. The presence or compound cannot be determined due to the presence of this interferent.

concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.

9 Insufficient water to determine GWE.

10 Laboratory report indicates the reporting limits were raised because sample dilution was necessary to bring internal standard within the QC limits.

11 Laboratory confirmed result.





RECEIVED

MAR 23 2012

March 19, 2012

Mr. Mark Horne Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, California 94583

Subject: Fourth Quarter 2011 Groundwater Monitoring and Sampling Report

Former Texaco Service Station No. 21-1558

1366 31<sup>st</sup> Avenue South Seattle, Washington

Dear Mr. Horne:

SAIC Energy, Environment & Infrastructure, LLC (SAIC) on behalf of Chevron Environmental Management Company (CEMC), prepared this letter summarizing the fourth quarter 2011 groundwater monitoring and sampling event at former Texaco Service Station No. 21-1558 (the site) in Seattle, Washington (Figure 1).

#### FIELD ACTIVITIES

Gettler-Ryan Inc. (Gettler-Ryan) conducted the groundwater monitoring and sampling field event on November 30 and December 1, 2011. They collected depth-to-groundwater measurements and checked for the presence of separate-phase hydrocarbons (SPH) in twelve monitoring wells on site.

Groundwater samples were collected from eleven monitoring wells on site (monitoring well MW-18 was dry) and submitted to Lancaster Laboratories, Inc. in Lancaster, Pennsylvania for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Washington State Department of Ecology (Ecology) Method NWTPH-Gx; and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiarybutyl ether (MTBE) by United States Environmental Protection Agency (EPA) Method 8021B.

Field data sheets are provided in the Gettler-Ryan groundwater monitoring and sampling data package (Attachment A).

#### **FINDINGS**

Groundwater flows toward the southwest at a gradient of approximately 0.02 feet per foot (Figure 2).

The following analytes were detected at concentrations exceeding their respective Model Toxics Control Act (MTCA) Method A cleanup levels (CULs):

- TPH-GRO in monitoring wells MW-16, MW-17, MW-19, and MW-20.
- Benzene in monitoring wells MW-16, MW-17, MW-19, MW-20, and MW-21.
- MTBE in monitoring wells MW-16 and MW-21.

Historic groundwater elevation data and laboratory analytical results are summarized in Table 1. The laboratory analysis report is provided as Attachment B.

#### DISCUSSION

Five new monitoring wells were installed on the property in July 2011 and all new and existing wells were surveyed with respect to NAVD88 datum. Groundwater elevations and potential flow direction are consistent with historical data reported at the site.

The fourth quarter 2011 sampling event is the second time the new monitoring wells have been sampled. Petroleum-hydrocarbon constituents were detected at concentrations exceeding MTCA Method A CULs in three of the five new monitoring wells. The most significant groundwater contaminants relative to MTCA Method A CULs are TPH-GRO and benzene. The highest detections of these two contaminants occur in monitoring well MW-20, which is located down gradient from the former fuel dispensers. In addition, MTBE was detected in monitoring wells MW-16 and MW-21 at concentrations exceeding MTCA Method A CULs. Historical groundwater analytical data indicate that petroleum-hydrocarbon constituent concentrations fluctuate with seasonal changes in groundwater elevation. Lower concentrations are typically observed during high groundwater periods.

Gettler-Ryan will continue to perform groundwater monitoring and sampling on a quarterly basis. The next groundwater monitoring and sampling event is scheduled for February 2012.

If you have any questions or comments, please contact me at (425) 482-3319 or via email at michael.l.lange@saic.com.

Sincerely,

SAIC Energy, Environment & Infrastructure, LLC

Michael L. Lange

Senior Project Manager

Gabriel Cisneros, LG #2357

Geologist

Enclosures:

Figure 1 - Vicinity Map

Figure 2 - Potentiometric Map

Table 1 - Groundwater Monitoring Data and Analytical Results

Attachment A - Groundwater Monitoring and Sampling Data Package

Attachment B - Laboratory Analysis Report

cc: Ms. Liu Jing – Ecology NW Region, Toxics Cleanup Program 3190 160<sup>th</sup> Avenue SE, Bellevue, WA 98008-5452

Ms. Michelle Newlean – Washington State Department of Transportation 310 Maple Park Avenue SE, P.O. Box 47300, Olympia, WA 98504

Mr. Jared Smith – Neighboring Property Owner 1379 31<sup>st</sup> Avenue S, Seattle, WA 98144

Project File

#### REPORT LIMITATIONS

This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by SAIC. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and that SAIC shall have no responsibility or liability for the consequences thereof.

Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. SAIC has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

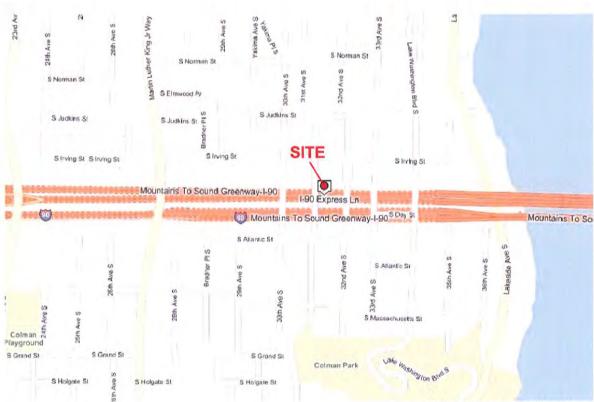
Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of SAIC's site visits or site work and cannot be applied to conditions and features of which SAIC is unaware and has not had the opportunity to evaluate.

All sources of information on which SAIC has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied upon by SAIC in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.









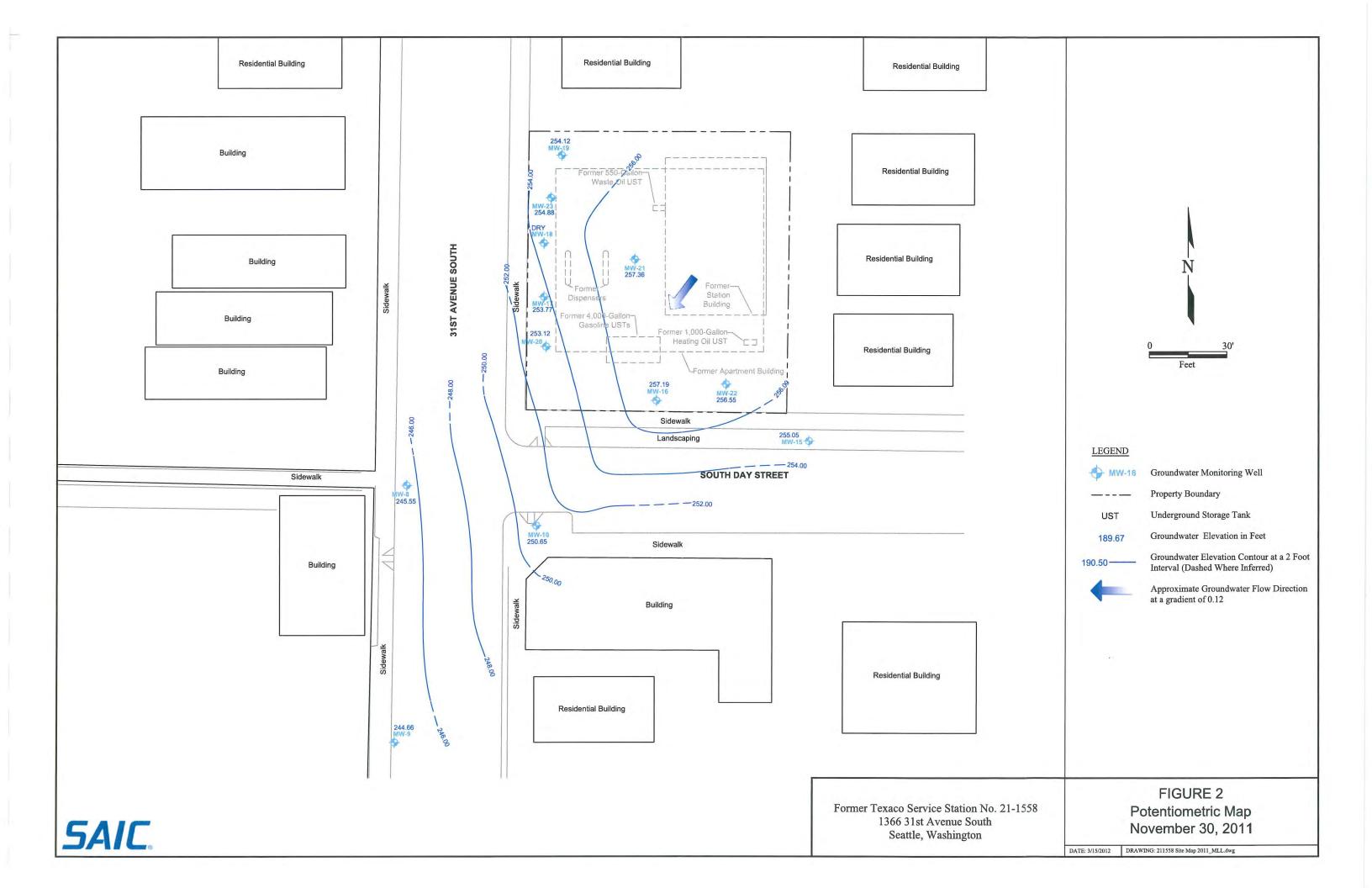
Maps Provided by Seattle.gov



Former Texaco Service Station No. 21-1558 1366 31st Avenue South Seattle, Washington FIGURE 1 Vicinity Map

FILE NAME: 211558\_VM2010.dwg ATE:

09/23/2011



## TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington

*20T	WIG	GWE						Ethyl-	Total	
(ft.)	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Вепхепе	Toluene	benzene	Xylenes	MTBE
262.58	25.73	236.85	1		8,820	579	184	272	808	1
262.58	20.20	242.38	250	-	1,500	61	16	29	34.	Ŷ
262.58	22.69	239.89	1	1	1,220	42.3	12.7	20.6	24.9	Í
262.58	-		-	-	-	-	-	1	300	t
262.58	í	1	-	1	7	1	1	1	770	1
262.58	22.23	240.35	1	1	164	1.1	QN	QN	QN	1
262.58	16.85	245.73	-	1	1,400	49.2	18.4	34	38.9	1
262.58	22.50	240.08	1	i,	1,640	49.4	18.1	28.8	36.5	1
262.58	26.00	236.58	1	ì	50.1	QN	QN.	QN	ON	1
262.58	23.31	239.27	1	4	530	5.07	QN	ON.	QX	1
262.58	14.71	247.87	1	4	QN	ND	QN	ON	ND	1
262.58	24.36	238.22	i	1	825	16.7	ND	ND	QN	1
262.58	27.13	235.45	9	V	ND	ND	ND	ND	1.3	ı
262.58	21.39	241.19	1		101	1.05	ND	QN	ON	1
262.58	18.20	244.38		1	606	14.9	2.84	6.32	7.38	1
262.58	20.95	241.63	-	-	1,480	79.3	27.2	67.3	8'65	1
262.58	25.63	236.95	1	-	1,090	31.6	8.45	11.6	17.6	1
262.58	28.24	234.34	1	ľ	1		•	1	t	t
262.58	21.85	240.73	+	-	1,660	20.1	6.92	14.9	14,4	4
262.58	23,91	238.67	-	7	1,190	22.6	6.05	7.93	11.5	1
262.58	27.79	234.79		-	527	2.17	<0.97	1.67	<3.28	<5.0
262.58	29.14	233.44	ď		371	1.72	<0.5	<0.800	<4.24	1
262.58	28.39	234.19	1		652	25.5>	<0.97	<4.23	<3.47	1
262.58	28.28	234.30	A	. •	153	1220	<0.5	<0.500	1.73	1
262.58	26.74	235.84	1		512	3,24	0.510	<0.500	2.64	1
262.58	24.31	238.27	2601	105/>	260	71	2.6	2.4	1.9	<2.5
262.58	- CAR PARKED OVER	ED OVER WELL	LL.		**	1	1	j	1	1
262.58	- CAR PARKED OVER	ED OVER WELL	TT		-	-	1	1	1	1
262.58	24.54	238.04	1	-	<50	05:0>	<0.50	<0.50	<1.5	<2.5
262.58	- CAR PARKED OVER	ED OVER WELL	TT		1	J	ŗ	ı	4	1
262.58	- CAR PARKED OVER	ED OVER WELL	LL.		1		1	1	*	4
262.58	- CAR PARKED OVER	ED OVER WELL	TIT		1		4	j	à	đ
262.58	- CAR PARKED OVER WELL	SD OVER WE	EL		-		-		1	1
262.58	25.50	237.08	1	-	<50	<0.5	<0.5	<0.5	<1,5	<2.5

## GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations reported in µg/L

Well ID/	TOC*	DTW	GWE						Ethyl-	Total	
Date	(ft.)	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
MW-8 (cont)											
9/17/04	262.58	- CAR PARK	- CAR PARKED OVER WELL	CL		1	į	į	1	1	1
4/22/05	262.58	- CAR PARKED OVE	ED OVER WELL	LL		4	4	1	1	1	1
7/8/05	262.58	- CAR PARK	- CAR PARKED OVER WELL	11		1	3	į	4	i	1
9/1/05	262.58	27.49	235.09	ţ	ı	<50	<0.5	<0.5	<0.5	<1.5	2.5
1/4/06	262.58	- CAR PARK	- CAR PARKED OVER WELL	TI		1	P	1			1
3/15/06	262.58	20.82	241.76	1	1	099	20	3.1	2.7	5.5	2.5
7/2/06	262.58	- CAR PARK	- CAR PARKED OVER WELL	TT		1	1		-	1	1
9/28/06	262.58	28.18	234.40	ŧ	i	<48	<0.5	<0.5	<0.5	<1.5	<2.5
11/21/06	262.58	- CAR PARK	- CAR PARKED OVER WELL	רנ		•	-	1	1	1	1
2/15/07	262.58	21.08	241.50	1	1	720	18	4.0	3.5	7.9	<20
6/2/07	262.58	23.68	238.90	À	4	260	7.3	<0.5	<0.5	1.6	3.3
20/1/6	262.58	/EHICLE PAF	/EHICLE PARKED OVER WELL	VELL		ij		j	-	-	1
11/20/07	262,58	/EHICLE PAF	/EHICLE PARKED OVER WELL	VELL		1	3		ì		i
2/16/08	262.58	21.93	240.65	ŕ	•	180	2.1	0.5	9.0	<1.5	2.5
8/2/08	262.58	23.90	238.68	t		<50	<0.5	<0.5	<0.5	<1.5	<2.5
9/17/08	262.58	27.23	235.35	-	-	<50	<0.5	5.0>	<0.5	<1.5	2.5
12/2/08	262.58	NACCESSIBLE	5.3	-		**	-	1	ł	ı	ŧ
3/19/09	262.58	23.82	238.76		-	05>	<0.5	<0.5	<0.5	<1.5	42.5
6/30/06	262.58	23.61	238.97	ì	I	<50	<0.5	<0.5	<0.5	<1.5	2.5
9/12/09	262.58	26.98	235.60	-		<20	<0.5	5.0>	<0.5	<1.5	2.5
12/1/09	262.58	24.04	238.54		-	<50	<0.5	5.0>	<0.5	<1.5	2.5
2/23/10	262.58	NACCESSIBLE	31	•	1			1	1	1	1
8/21/10	262.58	VACCESSIBLE	E	t	ŧ	1	1	ı	-	-	i
2/14/11	262.58	- CAR PARK	- CAR PARKED OVER WELL	T		1	1	1	1	,	1
8/4/11	273.05	24.20	248.85	+		370	-11	-13-	<0.59	<3.0	14
11/30/11	273.05	27.50	245.55	+	j	<50	<0.5	<0.5	<0.5	<1.5	2.5
6-WW											
3/25/96	261.20	21.80	239.40	1		ND	ND	ND	ON	ND	1
5/30/96	261.20	23.09	238.11	1	3-1	ND	ND	809.0	QN	ND	)
96/13/96	261.20	22.38	238.82	1	-	ND	ND	ND	QN	ND	i
9/26/96	261.20	25.70	235.50	j	1	ND	ND	ND	ND	ND	1
12/18/96	261.20		1	ì	j	-	1	***	ľ	Í	1
3/26/97	261.20	19.20	242.00			ND	ND	QN	ND	QN	I
6/30/97	261.20	i	1	Ť		1			1	1	1
9/29/97	261.20	i	1	f	ř	1	1	1	*	ı	1



#### SAIC

## GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South

1366 31st Avenue South Seattle, Washington

TOC*	nrw	ZWZ	)		AL			Ethvi-	Total	
(ft.)	(ft.)	(lsm)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
261.20	1	7		-		4	***	1	ŧ	1
261.20	i	ŧ	ſ	ť		-		1	l.	÷
261.20	-	ŧ	ŧ	1	i.			-	1	į
261.20	1	-	-	-	1	ĭ	7		Ţ	+
261.20	1	1		1	1		-	1	S-0	4
261.20	19.38	241.82	1	i	1		-	•	-	ĺ
261.20	21.46	239.74	1	1	<50	<0.5	<0,5	<0.5	<1.0	į
261.20	24.42	236.78	1	t	<50	<0.5	<0.5	<0.5	<1.0	1
261.20	ı	ı	1	1	d	1	4	1	7	4
261.20	23.37	237.83	3	1 - 7 -	<50	<0.5	<0.5	<0.5	<1.0	1
261.20	24.05	237.15	1	1	<50	<0.5	<0.5	<0.5	<1.0	1
261.20	26.59	234.61	1	j	05>	<0.5	<0.5	<0.5	<1.0	<5.0
261.20	27.68	233.52	i	t	433	<1.20	99.7	14.5	92.3	İ
261.20	25.82	235.38	i	t	<50.0	<0.500	<0.500	<0.500	<1.00	1
261.20	27.36	233.84	1		<50.0	<0.500	<0.500	<0.500	<1.00	ł
261.20	25.81	235.39	-	)	<50.0	<0.500	<0.500	<0.500	<1.00	1
261.20	- CAR PARK	- CAR PARKED OVER WELL	TTE		1		-		1	4
261.20	27.71	233.49	-	ï	-	1	t		-{	1
261.20	28.83	232.37	1	1	1	-	-(	4	9	1
261.20	20.57	240.63	-	1				1	1	1
261.20	21.68	239.52	+	i		-	-		-	t
261.20	27.43	233.77	d	1		•		4	t	t
261.20	24.59	236.61	-	•	-		-	1	4	1
261.20	20.94	240.26	1	1		t	í			1
261.20	23.02	238.18	4	t		+	ì	7	1	1
261.20	27.91	233.29	*	1	1	-	-	1	,	1
261.20	21.02	240.18	1	1	Ţ	-	1	j	-	1
261.20	23.00	238.20	1	j	Ì	•	**	1	•	
261.20	26.45	234.75	1	(mar)	3-6		7.0	1	*	t
261.20	19.31	241.89	-	-		3	4	+		+
261.20	16.77	241.43			1	-	ł	j	1	1
261.20	21.29	239.91	*	-	*	-	;	1	1	1
261.20	27.16	234.04	-			1	t	i.	b	1
261.20	27.21	233.99		•	t		ı	-	1	ţ

#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations reported in µg/L TABLE 1

	MTBE		1	4	1	į		j	1	ŧ	7	1	,	ı		2.5	1	2.5	<2.5		4	ď	1	Ü	t	ı	J	ı	ı	4	T	1	ŧ	1	1	<5.0	
Total	Xylenes		,	1	1	1	1	,		1	7	1	1	ŧ	1	<1.5	1	<1.5	<1.5		QN	ND	-	QN	1.	ND	1	ND	À	2.76	<1.80	<2.00		<1.40	<1.0	9.2	34.7
Ethyl-	benzene		į	1	ı	1	j	i	į	1	1		-	,		<0.5	1	<0.5	<0.5		ND	ND	ı	QN	ì	QN	J.	ND	1	<0.5	<0.5	<0.5	t	<0.800	<0.5	<2.36	5.03
	Toluene			1	1	1	,		1	1	1		ŧ		ı	<0.5	ì	<0.5	<0.5		ND	ND		ON	1	ND	ı	ON	)	0.535	<0.5	<0.5	ı	2.0	<0.5	<1.39	3.04
	Benzene		1	1	1	,		Į		1	1	1	ł	,		<0.5	1	<0.5	<0.5		ON	8.0		ON	,	ND	1	ND	1	1.72	<1.20	<1.10	1	<0.5	<0.5	<3.34	<0.592
	TPH-GRO		1	1	t	t	1		1	1	ı	1	1	1		<50	ù	>00	<50		152	232	-	ON	-	ND	¥	306	I	401	216	214	,	524	241	441	230
A. Sec. 1800.	TPH-HRO		3	į	į,	Å	į	1		į	-	1	1	į		i		4	•			ł	ì	-	-	1	ì		0		4	1	-	1	-	1	1
	TPH-DRO		i		-		t	1	j				-	1	k	4	T	1	t		1	1	ĭ		+	1		43	-				ï	1	1	4	
GWE	(lsm)		245.23	240.71	233.27	233.36	240.96	236.79	234.63	234.30	237.05	237.08	233.81	237.47		236.36	D OVER WELL	247.01	244.66		246.99	251.47	248.12	243.22	247.25	255.85	245.24	241.25	249.17	252.37	249.84	244.65	239.48	248.72	245.51	240.59	238.66
MLQ	(ft.)		15.97	20.49	27.93	27.84	20.24	24.41	26.57	26.90	24.15	24.12	27.39	23.73	NACCESSIBLE	24.84	- CAR PARKED OVER	24.60	26.95		15.58	11.10	14.45	19.35	15.32	6.72	17.33	21.32	13.40	10.20	12.73	17.92	23.09	13.85	17.06	21.98	23.91
TOC*	(ft.)		261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261.20	261,20	261,20	271.61	271.61		262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57	262.57
Well ID/	Date	MW-9 (cont)	2/15/07	6/2/07	70/1/6	11/20/07	2/16/08	6/2/08	9/12/08	12/2/08	3/16/06	6/30/06	9/12/09	12/1/09	2/23/10	8/21/10	2/14/11	8/4/11	11/30/11	MW-10	5/30/96	3/26/97	6/30/97	9/29/97	12/29/97	3/13/98	6/24/98	86/11/6	12/29/98	2/3/99	4/20/99	7/15/99	66/01/11	3/8/00	5/18/00	00/2/6	11/2/00



## GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations renorted in med.

#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 TABLE 1

Concentrations reported in µg/L 1366 31st Avenue South Seattle, Washington

8/4/11

MW-15

MTBE <2.5 2.5 250 2.5 1 1 1 Ì 1 1 <0.500 <0.500 Xylenes <0.500 <1.5 <1.5 <4.0 2.2 S ND 2 <0.5 <0.5 87.6 2 2 <0.500 benzene <0.500 <0.500 Ethyl-<0.5 <0.5 <0.5 1.58 <0.5 QN 2 ND 1.4 2 S 2 1 Toluene <0.500 <0.500 <0.500 <0.5 <0.5 <0.5 <0.5 1.07 99 ND R 2.5 9.0 2 Benzene <0,500 <0.500 <0.5 <0.500 <0.500 <0.5 <0.5 <2.09 <0.5 2.0 ND R R 2 N TPH-DRO TPH-HRO TPH-GRO <50.0 <50.0 <50.0 200 08> 510 <50 540 ND Q ND R R 200 62.3 1 1 1 2 1 N Û 1 1 1 1 1 1 ١ 1 I 1 1 ı 1 250.90 250.65 256.85 244.06 250.25 250.12 244.07 254.90 251.33 251.53 245.10 254.37 258.15 244.94 256.29 256.99 255.46 249.93 242.00 258.62 248.80 243.87 250.62 246.23 244.36 GWE 247.86 242.46 243.47 249.94 254.61 243.23 (lsm) 258.81 248.11 245.31 17.42 18,50 22.40 12.54 16.59 11.85 16.78 14.42 DTW 11.67 18.15 15.55 2.50 18.19 10.72 18.65 10.40 16.29 15,34 10.03 15.71 4.36 3.66 5.19 2.03 17.18 10.53 6.04 (ff.) 9.32 3.80 9.12 6.28 1.84 10.71 260.65 260.65 273.05 273.05 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 260.65 262.57 260.65 260.65 260.65 260.65 260.65 260.65 260.65 TOC\* 262.57 260.65 260.65 260.65 260.65 260.65 MW-10 (cont) Well ID/ 12/29/97 12/29/98 66/51/1 11/10/99 11/2/00 12/19/03 8/21/10 9/17/04 11/30/11 5/30/96 6/24/98 12/5/01 9/2/03 3/29/04 6/10/04 3/26/97 9/29/97 9/11/98 2/3/99 4/20/99 3/8/00 5/18/00 6/26/02 2/14/11 76/36/97 3/13/98 3/1/01 8/21/01 9/29/02 1/6/03 3/8/03 6/9/03

9/5/00



# TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations reported in µg/L

9/2/03 259.91 19.49 240.42	259.91 13.48	259.91 12.27	1/6/03 259.91 16.71 243	9/29/02 259.91 19.90 240	6/26/02 259.91 14.59 245	12/5/01 259.91 9.00 250.91	2/14/11 261.14 4.19 256	8/21/10 261.14 14.41 246	MW-17	12/1/11 272.59 15.40 257	8/4/11 272.59 13.50 259	2/23/10 261.14 4.55 256	12/1/09 261.14 5.70 255	9/12/09 261.14 17.54 243	6/30/09 261.14 11.69 249	3/19/09 261.14 8.45 252	12/2/08 261.14 15.27 245	9/12/08 261.14 17.79 243	10.98	2/16/08 261.14 5.40 255	18.30	261.14 17.60	6/2/07 261.14 11.21 249.93	2/15/07 261.14 6.51 254	11/21/06 261.14 17.34 243	9/28/06 261.14 18.30 242.84	7/2/06 261.14 12.08 249.06	261.14 5.92	1/4/06 261.14 5.83 255	261.14 16.54	7/8/05 261.14 11.65 249.49		261.14	6/10/04 261.14 11.63 249	
-	246.43	247.64	243.20	240.01	245.32	0.91	256.95	246.73		257.19	259.09	256.59	255.44	243.60	249.45	252.69 S	245.87 S.	243.35 S.	250.16	255.74	242.84	243.54	9.93	254.63	243.80	2.84	9.06	5.22	255.31	244.60	9.49	3.71	3.26	249.51	
(	ĭ	1	ţ	1	ı	1	t	t		1	1	1	į.	ŧ	1	SAMPLED ANNUALLY	SAMPLED ANNUALLY	SAMPLED ANNUALLY	ł	1	1	1	1	1	ŀ	,	Į.	1	~	4	1	+	•	ŧ	
1		1	r	1	)		I	1		+	-	1	t		×	NNUALLY	NNUALLY	NNUALLY	4		-			r				-					4		
		ı	í	1 1		25,600	4,100	5,900		6,000	5,500	4,300	4,800	7,000	6,900		,	ı	3,200			ì		t		Y	Y			-	-		-	1	
1		ţ	Į.		,	173	6.2	<20 <sup>6</sup>		15	<189	<106.8	12	8.7	14	-	1	1	8.4	,	1	-		1			ľ		1				Þ	Þ	
!	-		ì		-	757	4	12		111	11	4.7	10	35	10	-		r	5.2	-		-			1	T		-	-		-	-	•		
1		h	-	-	1	1,040	41	130		130	100	110	170	240	260		I	t,	150		ì	1		1	-	ı	-		1	1	1		-	¥	
6	E.		1		1	4,840	23	57		65	<569	41	51	160	110				49		4	•		,		-		1		ŀ	1		10	h	
4	1	1		I		4	33	<256		52	39	24	55	25	58	ſ		1	- 18	•	-	-0	ŀ	1	1	í	1	1	1	1	1	t	1	ŀ	



#### TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558

1366 31st Avenue South Seattle, Washington

				.0	Concentrations reported in µg/L	reported in µg	/L				
Well ID/ Date	TOC*	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xvlenes	MTBE
MW-15 (cont)											
4/22/05	260.65	37.71	222.94	1	1	4		Þ	Þ	i.	1
7/8/05	260.65	12.38	248.27	ı	j	1	IJ	1	•		į
9/7/05	260.65	15.75	244.90				ı		1	t	,
1/4/064	260.65	5.16	255,49	ı	ř.	ď	Į	ľ	1	1	1
3/15/06	260.65	5.09	255.56	1	1	1	1	ľ		1	ť
7/2/06	260.65	12.83	247.82	1	I	ı	-	1	ľ	t	i.
9/28/06	260.65	18.11	242.54	1	ı	Î	1	ľ	1	1	r
11/21/06	260.65	16.57	244.08	,		ĭ	1	r	1	1	1
2/15/07	260.65	5.92	254.73	ŧ		-		ì	1	1	1
6/2/07	260.65	10.51	250.14		į.	1		- 1	P	t l	ı
9/7/07	260.65	16.79	243.86	į.	1	1	1	k	ģ.	í	4
11/20/07	260.65	17.01	243.64	1	9		Ł	1	į	ï	į.
2/16/08	260.65	7.91	252.74	-	-	-		-	j	1	i
6/2/08	260.65	9.33	251.32		į.	-	-	-	1	1	1
9/12/08	260.65	16.81	243.84		l	1	1	(	1	-	1
12/2/08	260.65	15.69	244.96		ì		1	1	5	-	ı
3/19/09	260.65	8,45	252.20	1	1		J.	1	i	ı	į
6/30/09	260.65	11.53	249.12	4	1	i	IJ	1	I	ī	ľ
9/12/09	260.65	16.75	243.90				1	ſ	1	ı	ī
12/1/09	260.65	4.24	256.41		þ		ŧ	£.	t	ř.	1
2/23/10	260.65	2.96	257.69	1	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5
8/21/10	260.65	14.17	246.48	*		<50	<0.5	<0.5	<0.5	<1.5	2.5
2/14/11	260.65	2.09	258.56		-	<50	<0.5	<0.5	<0.5	<1.5	2.5
8/4/11	271.15	13.10	258.05			<50	<0.5	<0.5	<0.5	<1.5	2.5
12/1/11	271.15	16.10	255.05		1	<50	<0.5	<0.5	<0.5	<1.5	2.5
MW-16											
12/5/01	261.14	3.97	257.17	1	1	5,260	31.7	35.4	444	304	1
6/26/02	261.14	14.92	246.22	1	1	ť	t	1	-	ı	F
9/29/02	261.14	18.59	242.55	1	ķ	1	1	1	-	-	ï
1/6/03	261.14	12.58	248.56	r				-		1	i
3/8/03	261.14	8.03	253.11	7	4	-	J.	200	1	1	
6/9/03	261.14	9.31	251.83	1	-		-	4	-	1	1
9/2/03	261.14	17.59	243.55	-	1		1	t	ŀ	b	í
12/19/03	261.14	7.49	253.65		1		-	-			t
3/29/04	261.14	6.71	254.43		1	1	9	1	-	-	ŧ

#### TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations reported in µg/L

					The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	6.1					
Well ID/	TOC*	DTW (ft)	GWE (mel)	TPH.DRO	трн-нво	TPH-CBO	Renzene	Toluene	Ethyl-	Total	MTRE
MW-17 (cont)		(22)	(1500)	200		2000	2002000	2000	2000	constant of	200
TAMES OF STREET		10.10	217.40								
12/19/03	16:607	15.18	240.73	1		1	1		1	;	Î
3/29/04	259.91	9.82	250.09	1	1	1	1	1	1	1	ì
6/10/04	259.91	15.84	244.07		-	-	+	-	1	¥.	ì
9/11/04	159.91	16.61	240.00	+	1			1	1	i	1
4/22/05	259.91	12.03	247.88	-	1	1	1	1	1	1	1
2/8/05	259.91	15.24	244.67	1	)	,	1	1	1	1	1
50/1/6	259.91	18.46	241.45	•	1	1	1		1	ŧ	1
1/4/06	259.91	8.93	250.98	1	1	1	1		1	4	1
3/15/06	259.91	9.02	250.89		¥		1		Î	+	ł
7/2/06	259.91	15.65	244.26				1	ì	j	1	1
9/28/06	259.91	DRY	4		1	1	1	1	1	1	•
11/21/06	259.91	19.27	240.64	1	1	1	1	ı	t	t	t
2/15/07	259.91	8.56	251.35	1	r	6	1	b	1	1	f
6/2/07	259.91	13.37	246.54	1	1	1	,	1	1	1	
L0/L/6	259.91	19.12	240.79	1	1	1	1	7	1	1	1
11/20/07	259.91	DRY	1	1	1	,	,	1	1	1	1
2/16/08	259.91	7.82	252.09	1	J	1	1	1	1	1	1
80/2/9	259.91	13.50	246.41	1	1	7,900	37	140	170	290	<100 <sub>6</sub>
9/12/08	259.91	19.21	240.70	SAMPLED ANNUALLY	NUNTELY	1	1	ţ	1	t	t
12/2/08	259.91	19.84	L	SAMPLED ANNUALLY	NUNTELY	1	1	-	7	+	ı
3/19/09	259.91	12.15	247.76	SAMPLED ANNUALLY	NUALLY		-		-	-	-
60/08/9	259.91	BLE TO LOCATE	ATE	)	á	4	Į.	)	,	١	1
9/12/09	259.91	18.75	241.16	1	Ť	5,500	13	99	63	320	<200
12/1/09	259.91	8.37	251.54	4		2,000	23	18	32	16	180
2/23/10	259.91	5.50	254.41	1	ý	05>	<0.5	<0.5	<0.5	<1.5	<2.5
8/21/10	167657	15.98	243.93	1	Î	5,200	20	65	32	470	,05>
2/14/11	259.91	4.74	255.17	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5
8/4/11	273.82	15,22	258.60	ť	į	2,500	15	45	.78	140	34
12/1/11	273.82	19.85	253.97	1	1	1,400	5.8	10	24	41	18
MW-18											
12/5/01	259.72	69.6	250.03	1	ī	18,400	26.7	164	066	3,190	4
6/26/02	259.72	12.59	247.13	1	- 1	10	-	Priper	i		1
9/29/02	259.72	DRY	-	-		1	***	1	1	1	1
1/6/03	259.72	DRY	3	1	ψ.	4		4	Ď.	7	4
3/8/03	259.72	DRY	1	1	4		-		4	1	1



#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations reported in µg/L

Date MW-18 (cont) 6/9/03	000	17 1 71	LW						Ethyl	Total	
W-18 (cont 6/9/03	(ft.)	(ft.)	(lsu)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
6/9/03											
1	259.72	13.88	245.84	100	1	1	1	4	į	f	1
9/2/03	259.72	DRY	***	(1)	4	1	1	1	Í	1	1
12/19/03	259.72	17.06	242.66	ł	í	ı		1	j	1	d
3/29/04	259.72	98.6	249.86		j	í	Į,	1		4	,
6/10/04	259.72	DRY	î	1	1	1	1	1		1	1
4/22/05	259.72	13.71	246.01	T	į	1	}	1	*	*	
7/8/05	259.72	15.86	243.86		Ĭ	ı	1	J	,	1	,
50/2/6	259.72	DRY	1		I	1	1	1	1	1	1
1/4/064	259.72	5.07	250.65	t	-	ľ	1	1	)	1	0
3/15/06	259.72	9.19	250.53	1	1	f	1	)	3	,	
7/2/06	259.72	16.03	243.69	1	1		1	1			
9/28/06	259.72	DRY	į	f	á	1	1	d	d	1	1
11/21/06	259.72	DRY	i		1	-		1	,	1	1
2/15/07	259.72	8.72	251.00	1	+	1	1	-		1	1
6/2/07	259.72	13.75	245.97	1	1	,	1	-	1		1
20/2/6	259.72	DRY	ł	1	1	7	1	,			t
11/20/07	259.72	DRY	d	4	1	1	1	Y	1	1	1
2/16/08	259.72	8:38	251.34	1	+			,	1	,	1
6/2/08	259.72	13.98	245.74	1	1	25,000	_(09>	120	870	1,800	200
9/12/08	259.72	18.95	-7	SAMPLED AN	ANNUALLY	4	1	,	1	1	1
12/2/08	259.72	DRY	1	1	1	ı	,				1
3/19/09	259.72	12.67	247.05	SAMPLED AN	ANNUALLY	1	1	d	1	1	1
6/30/06	259.72	13.56	246.16	-	•	24,000	09	130	1,200	2,300	290
9/12/09	259.72	DRY	ļ	1	+	ŀ	4	i	ij	1	1
12/1/09	259.72	8.85	250.87		ř	20,000	53	100	920	1,400	270
2/23/10	259.72	6.28	253.44	-	1	15,000	<€00	52	290	790	150
8/21/10	259.72	16.29	243.43	-	1	21,000	<100 <sub>6</sub>	16	820	1,300	<150 <sup>6</sup>
2/14/11	259.72	86.9	252.74		1	15,000	26	58	092	850	210
8/4/11	274.01	15.23	258.78	-	•	19,000	58	100	870	1,200	180
11/30/11	274.01	DRY	1	-	,		1	1	1	1	1
MW-19											
8/4/11	274.52	16.47	258.05	•	ı	1,700	5.7	1.8	3.0	7.4	4.6
12/1/11	274.52	20.40	254.12	1	-	1,700	5.4	1.8	3.3	5.4	11
MW-20											
8/4/11	273.82	16.53	257.29	1	y	14,000	570	370	410	1,600	250
12/1/11	273.82	20.70	253.12	1	1	7,900	350	190	130	710	160

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## TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558

1366 31st Avenue South Seattle, Washington

Well ID/ Date	T0C* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Yylenes	MTBE
MW-21											ľ
8/4/11	273.06	13.75	259.31	*	ı	002	11	<0.5	1.6	<1.5	<2.5
12/1/11	273.06	15.70	257,36	-	I	092	17	6.0	9.9	2.2	33
MW-22											
8/4/11	272.60	13.54	259.06	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5
12/1/11	272.60	16.05	256.55	-	i	<50	<0.5	<0.5	<0.5	<1.5	<2.5
MW-23											
8/4/11	274,48	16.75	257.73	1	I	96	3.3	<0.5	<0.5	<1.5	425
12/1/11	274.48	19.60	254.88	(	1	62	<0.5	<0.5	<0.5	<1.5	<2.5
MW-1											
12/21/93	263.10	21.28	241.82	QN	,	QN	QN	ND	QN	ND	
3/7/95	263.10	9.36	253.74	-	-	08	7.97	- T	1	3	
8/4/95	263.10	19.57	243.53			08	116	2	3	3	
3/25/96	263.10	11.55	251.55	QN	1	QN	6.0	ND	QN	1.4	1
96/08/5	263.10	14.78	248.32	1	1	104	57.9	1.29	QN	1.65	j,
96/11/9	263.10	13.25	249.85	1	l.	ND	7.9	0.7	ON	ND	1
9/26/96	263.10	21.7	241.40	1	i	237	126.0	3.0	1.3	3.6	j.
12/18/96	263.10	.6	254.10	1	ì	218	32.5	1.2	ND	1.3	1
3/26/97	263.10	7.75	255.35		1	11	11	7.0	QN	1.4	1
6/30/97	263.10	15.155	247.95	1	J	268	110	4.05	ON	5.73	1
76/67/6	263.10	20.2	242.90		Ì	304	85	3.72	ND	ND	1
12/29/97	263.10	12.42	250.68		,	151	72	1.8	0.771	1.00	
3/13/98	263.10	5.15	257.95	1	•	QN	QN	ND	ND	ND	1
6/24/98	263.10	14.94	248.16	4		ON	ON	ND	ND	ON	1
86/11/6	263.10	18.42	244.68	1	ŧ	ON	2.7	ND	QN	1.07	
12/29/98	263.10	10.5	252.60	1	ī	ND	3.43	ND	ND	ND	1
2/3/99.	263.10	4.62	258.48	1	-	168	67.5	<2.00	<1.00	3.07	ı
4/20/99	263.10	8.35	254.75	1	i	129	8.06	<1,12	<1.00	<3.20	1
7/15/99	263.10	15.06	248.04	+	1	145	9.19	1.35	899.0	1.98	1
66/01/11	263.10	20.54	242.56	1	I	1	}	4	ý	ş	1
3/8/00	263.10	8.02	255.08	đ	4	441	46.6	<1.40	<0.650	2.38	1
5/18/00	263.10	13.13	249.97	4	•	438	74.3	1.81	68.0	2.26	4
00/2/6	263.10	10.61	244.09	+	•	682	5.69	4.73	6.14	33.0	<0.5
11/2/00	263.10	21.12	241.98	t	t	2,540	79.4	22.8	40.6	244	1
3/1/01	263.10	13.27	249.83	ì	ŧ	173	30.8	1.25	1.46	10.4	
PANDONE	A PANIDONIED/DECTPOVED	D-1									



## GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Society Consequence South

ND	ND
ND	ND
ND	ND
11,500         209         615         609         1,960            27,000         91.6         1,120         1,060         3,300                    16,800         196         841         781         2,560            8,980         196         586         478         1,460            17,600         64.6         896         703         3,240                    17,600         64.6         896         703         3,240	11,500         209         615         609         1,960            27,000         91.6         1,120         1,060         3,300                    16,800         196         841         781         2,560            8,980         196         586         478         1,460            17,600         64.6         896         703         3,240            17,600         64.6         896         703         3,240            17,600         64.6         896         703         3,240
1,100   1,060   3,300   1,060   1,060   3,300   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,060   1,06	<
<	16,800         196         841         781         2,560            8,980         196         841         781         2,560 <t< td=""></t<>
-         16,800         196         841         781         2,560           -         8,980         196         586         478         1,460           -         -         -         -         -         -           -         -         -         -         -         -           -         -         17,600         64.6         896         703         3,240           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -         -           -         -         -         -         -         -         -<	16,800         196         841         781         2,560            8,980         196         586         478         1,460                            17,600         64.6         896         703         3,240
8,980         196         586         478         1,460                          17,600         64.6         896         703         3,240	8,980         196         586         478         1,460                                                                                                               -
<	17,600         64.6         896         703         3,240                                                                                                             <
-         17,600         64.6         896         703         3,240           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	-17,600         64.6         896         703         3.240                                                                                                              <
-         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	-         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -
-         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	-         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -
-         -         23,000         74.5         854         852         3,750           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	-         23,000         74.5         854         852         3,750                                                                                                           <
<	<
<	<
<	<td< td=""></td<>
-         5,410         175         212         316         618           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         10,200         193         572         587         1,410         -           -         1,570         123         118         139         234           -         1,4700         219         714         826         1,950           -         -         1,4700         219         714         826         1,070           -         -         8,810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           -         -         -         -         -	-         5,410         175         212         316         618           -         -         -         -         -         -           -         -         -         -         -         -           -         -         10,200         193         572         587         1,410           -         1,570         123         118         139         234           -         -         1,4700         219         714         826         1,950           -         -         1,4700         219         714         826         1,950           -         -         8,810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -
-         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	<
-         8,450         164         394         408         994           -         -         10,200         193         572         587         1,410           -         -         1,570         123         118         139         234           -         -         14,700         219         714         826         1,950           -         -         14,700         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -	-         8,450         164         394         408         994           -         -         10,200         193         572         587         1,410           -         -         1,570         123         118         139         234           -         -         14,700         219         714         826         1,950           -         -         8,810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -
-         10,200         193         572         587         1,410           -         -         1,570         123         118         139         234           -         -         14,700         219         714         826         1,950           -         -         8,810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -	-         10,200         193         572         587         1,410           -         -         1,570         123         118         139         234           -         -         14,700         219         714         826         1,950           -         -         8,810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -         -           -         -         2,040         103         82.0         162         250
-         1,570         123         118         139         234           -         -         14,700         219         714         826         1,950           -         -         8,810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         - <th< td=""><td>-         1,570         123         118         139         234           -         -         14,700         219         714         826         1,950           -         -         8,810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -</td></th<>	-         1,570         123         118         139         234           -         -         14,700         219         714         826         1,950           -         -         8,810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -
14,700         219         714         826         1,950             8,810         194         493         549         1,070             5,120         182         228         372         641             1,990         149         68.9         206         227                      2,040         103         82.0         162         250	-14,700         219         714         826         1,950             8,810         194         493         549         1,070             5,120         182         228         372         641             1,990         149         68.9         206         227                      2,040         103         82.0         162         250
-         8.810         194         493         549         1,070           -         -         5,120         182         228         372         641           -         -         1,990         149         68.9         206         227           -         -         -         -         -         -         -           -         -         2,040         103         82.0         162         250	8.810         194         493         549         1,070             5,120         182         228         372         641             1,990         149         68.9         206         227                      2,040         103         82.0         162         250
-     -     5,120     182     228     372     641       -     -     -     1,990     149     68.9     206     227       -     -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -	-     -     5,120     182     228     372     641       -     -     -     1,990     149     68.9     206     227       -     -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -       -     -     -     -     -     -
59     -     -     1,990     149     68.9     206     227       21     -     -     -     -     -     -       87     -     -     2,040     103     82.0     162     250	59     -     -     1,990     149     68.9     206     227       21     -     -     -     -     -       87     -     -     -     -     -       87     -     -     -     -     -       87     -     -     -     -     -       87     -     -     -     -     -
21 87 162 250	21     —     —     —     —     —       87     —     —     2,040     103     82.0     162     250
87 2,040 103 82.0 162 250	87 2,040 103 82.0 162 250
.28 820 - 42,000 460 1,100 2,600 6,700 -	- 42,000 460 1,100 2,600
820 - 42,000 460 1,100 2,600	820 - 42,000 460 1,100 2,600 - 35,000 1,130 2,200 830
820 - 42,000 460 1,100 2,600	820          42,000         460         1,100         2,600             35,000         1,130         2,200         830           40,000         1,300         2,100         1,000
820          42,000         460         1,100         2,600             35,000         1,130         2,200         830           1500          40,000         1,300         2,100         1,000           1500          33,000         990         1,800         950	820          42,000         460         1,100         2,600             35,000         1,130         2,200         830           40,000         1,300         2,100         1,000           1500          33,000         990         1,800         950
820          42,000         460         1,100         2,600             35,000         1,130         2,200         830           1500          40,000         1,300         2,100         1,000           1500          33,000         990         1,800         950             28,600         867         2,180         1,000	820          42,000         460         1,100         2,600             35,000         1,130         2,200         830           1500          40,000         1,300         2,100         1,000            33,000         990         1,800         950             28,600         867         2,180         1,000

## GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington

Well ID/	*30T	DTW	GWE						Ethyl-	Total	
Date	(ft.)	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
MW-3 (cont)											
96/97/6	263.72	20.85	242.87	-	-	41,100	751	2,350	1,240	6,920	t
12/18/96	263.72	14.4	249.32	-	-	18,600	215	1,390	559	4,390	1
3/26/97	263.72	11	252.72			32,000	793	1,900	1,000	5,330	1
26/30/97	263.72	17	246.72	-		36,100	316	2,040	1,190	6,430	Ť
9/29/97	263.72	21.98	241.74	1	-	34,300	171	1,800	1,190	6,880	1
12/29/97	263.72	17.32	246.40	1		25,500	130	1,380	1112	5,530	1
3/13/98	263.72	7.2	256.52	3	-	3,400	906	2,160	1,240	6,480	1
6/24/98	263.72	13.01	250.71	1	į	38,400	341	1,790	1,120	6,570	1
86/11/6	263.72	20.05	243.67	1		28,100	280	1,490	656	5,580	1
12/29/98	263.72	15.4	248.32			19,200	121	694	244	5,130	1
2/3/99	263.72	7.85	255.87	4	1	30,600	554	1,460	830	5,770	I)
4/20/99	263.72	11.26	252.46	ē	1	25,700	783	1,650	1,020	5,370	1
7/15/99	263.72	16.23	247.49	Ď	1.00	19,800	490	997	616	2,960	1
66/01/11	263.72	21.64	242.08	ŧ		-	-			1	1
3/8/00	263.72	11.34	252.38	1		30,700	809	1,520	1,220	5,750	1
5/18/00	263.72	14.76	248.96	j	i	26,700	789	1,380	994	4,850	*
00/2/6	263.72	20.42	243.30	1	1	36,600	654	1,320	1,170	5,870	<250
11/2/00	263.72	22.79	240.93	ı	-	1	t	į		-	ŧ
3/1/01	263.72	100	243.50		-	32,400	333	1,650	1,340	7,700	<1.00
DONEL	ABANDONED/DESTROYED2	$D^2$									
MW-4											
3/7/95	264.54	6.56	257.98	4	1	ND	ND	ND	ND	ND	
8/4/95	264.54	16.46	248.08			ND	ND	ND	ND	ND	
3/25/96	264.54	•	d	***		í	-	1		- Committee	ì
5/30/96	264.54	11.36	253.18	1	ľ	ND	ND	ND	ND	ND	1
96/13/96	264.54	19.6	254.93	1	-	QN	ND	QN	ND	ND	Ĩ
9/56/96	264.54	17.9	246.64	4		QN	ND	QN	ND	ND	1
12/18/96	264.54	5.9	258.64	-	1	ND	ND	ND	ND	ND	1
3/26/97	264.54	4.45	260.09	-	7			1	•	-	f
6/30/97	264.54	10.65	253.89	-	(	4		-	-	+	1
9/29/97	264.54	16.25	248.29	-	1	ON	ND	ND	UN.	ND	1
12/29/97	264.54	9,21	255.33	-	,	-		1	1	1	1
3/13/98	264.54	5.43	259.11	-	1	i	ţ.	-	¢	-	1
6/24/98	264.54	14.64	249.90	-	-	4		ı	t	1	ľ

## GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations renorted in no/I.

Well ID/ Date	TOC*	DTW (ft.)	GWE (msl)	TPH-DRO	TPH-HRO	TPH-HRO TPH-GRO	Renzene	Toluone	Ethyl-	Total	MTBE
MW-4 (cont)								A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	200	estimate.	TOTAL
86/11/6	264.54	16.49	248.05	1		ND	QN	N	ND	ND	Ĭ
12/29/98	264.54	7.29	257.25		4	i	1	4	1	-	
2/3/99	264.54	3.88	260.66	-	1	<50	<0.5	<0.5	<0.5	<1.0	i
4/20/99	264.54	9.24	255.30	-	-	<20	<0.5	<0.5	<0.5	<1.0	ī
2/15/99	264.54	14.54	250.00		-	<50	<0.5	<0.5	<0.5	<1.0	1
66/01/11	264.54	20.08	244.46	1	1	1	1	1	-		4
3/8/00	264.54	29.7	256.86	-	1	<50	<0.5	<0.5	<0.5	<1.0	ì
5/18/00	264.54	12.42	252.12	4	i	08>	<0.5	<0.5	<0.5	<1.0	ţ
00/2/6	264.54	DRY	ì	1	1	1	ì	1	-	1	1
11/2/00	264.54	20.65	243.89	4	1	<50	<0.500	<0.500	<0.500	<1.00	,
3/1/01	264.54	12.53		-		<50	<0.500	<0.500	<0.500	<1.00	1
NED	ABANDONED/DESTROYED2	30									
3/7/95	263.27	26.19	237.08	1	1	00006	427	212	291	1.020	
8/4/95	263.27	32.13	231.14			730	13.2	٧	7	4	
3/25/96	263.27	26.11	237.16	069	-	11,000	610	280	280	1,200	i
96/08/9	263.27	28.62	234.65	-		18,300	870	349	484	1,360	
96/13/96	263.27	27.5	235.77	-	-	4,150	204	59.0	15.4	356	í
9/56/96	263.27	32.9	230.37	-	-	1,310	62.8	24.9	36.7	104	1
12/18/96	263.27	30.9	232.37	*	7	QN	6.0	ON	QN	ND	į
3/26/97	263.27	20.91	242.36		1	ND	QN	ND	QN	QN	-
26/30/97	263.27	28.55	234.72	1	ř	3,630	128	6'02	27.0	261	ŧ
9/29/97	263.27	32.35	230.92	1	-	ND	ND	ND	ON	QN	į
12/29/97	263.27	30.8	232.47	-	÷	ND	QN.	ND	ND	ON	ţ
3/13/98	263.27	25.12	238.15	-	+	ND	ON	ON	ND	ON	1
6/24/98	263.27	30.37	232.90	7	-	ND	ND	ND	QN	ON	į
86/11/6	263.27	33.35	229.92	-	).	QN	ND	ND	ON	ND	t
12/29/98	263.27	28.88	234.39	177	4	ND	QN	QN	ND	QN	ţ
2/3/99	263.27	24.17	239.10	*	4	8,480	275	183	312	898	1
4/20/99	263.27	26.67	236.60		1	6,250	289	165	220	726	1
66/51/2	263.27	31.72	231.55		*	6,070	309	169	144	772	1
11/10/99	263.27	34.61	228.66	-	ľ	j	1	1		1	İ
3/8/00	263.27	28.22	235.05	-		8,630	200	118	220	570	ŧ
2/18/00	263.27	30.23	233.04	1	+	7,320	216	143	180	650	t

# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South

1366 31st Avenue South Seattle, Washington

GWE (msl)
227.49
227.38
227.50
227.55
232.22 <250
228.22
226.66
229.58
231.52
227.94
226.92
233.05
230.57
227.39
230.02
238.31
247.02
237.95
234.32
235.68
242.65
236.23 -
233.46
237.60
245.08
240.66
236.69
- 232.45
1
236.19

#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington TABLE 1

Well ID/	*JOL	DTW	GWE						Ethyl-	Total	
Date	(ft.)	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
MW-6 (cont)											
11/2/00	263.75		i		•	4	1	1			1
3/1/01	263.75	31.58	232.17	t	1		1	ł		1	i
8/21/01	263.75	31.81	231.94	1		<50.0	<0.500	<0.500	<0.500	<1.00	)
12/5/01	263.75		1	1	1	1	1		1	4	1
6/26/02	263.75	LOCATE - P.	LOCATE - PAVED OVER		ì	1	1	1	1	1	i
9/29/02	263.75	LOCATE - P.	LOCATE - PAVED OVER		1		1	-	1	1	1
1/6/03	263.75	LOCATE - PAVED OVER	AVED OVER		1	1	1	7	;	1	ď
3/8/03	263.75	LOCATE - PAVED OVER	AVED OVER		1	-	ı	t		-	i
6/9/03	263.75	LOCATE - PAVED OVER	AVED OVER		,	1	1	7	ì	1	Ĭ
PAVED OVER	Jel.										
MW-7											
3/7/95	217.60	2.03	215.57	ł	1	QN	ON N	ND	ND	QN	i
8/4/95	217.60		-	-	ř	1	1	4	1		1
3/25/96	217.60	1.95	215,65	ND	1	QN	ND	ND	ND	ND	4
5/30/96	263.72	2.45	261.27	1	1	ND	ND	ND	ND	ND	*
96/13/96	217.60	2.27	215,33	t	1	1	1	1	1	1	r
9/26/96	217.60	3.40	214.20	+	ì	ND	ND	ND	ND	ND	1
12/18/96	217.60	2.10	215.50		-			Ė		1	į
3/26/97	217.60	1.45	216.15	-	-	ND	ND	ND	ND	ND	•
6/30/97	217.60	2.25	215.35	1			1	-	1	ļ	i
9/29/97	217.60	3.00	214.60	-	1	ND	ND	ND	QN	ND	
12/29/97	217.60	2.11	215.49	-	P	4	1	į	1	4	i
3/13/98	217.60	1.70	215.90	-	ł	ND	ND	ND	ND	ND	1
6/24/98	217.60	2.61	214.99	-	1	4	1	í	t	1	1
9/11/68	217.60	4.45	213.15	1	-	UN	0.756	ND	QN	1.78	į
12/29/98	217.60	2.05	215.55	1	-		ţ	1	-	1	į
2/3/99	217.60	1.21	216.39		4	+	1	1	1	1	•
4/20/99	217.60	-		1	4	d	1	ì	-	1	į
7/15/99	217.60	-	t	4	1			1	i	-	į
6/26/02	217.60	UNABLE TO	UNABLE TO LOCATE - OVERGROWN VEGETATION	<b>ERGROWN V</b>	EGETATION	1	-		- 14	í	ì
9/29/02	217.60	UNABLE TO	UNABLE TO LOCATE - OVERGROWN VEGETATION	<b>ERGROWN V</b>	EGETATION	-	1		j		ŧ
ABANDONED/DESTROYED <sup>2</sup>	D/DESTROY	ED <sup>2</sup>									

#### GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington TABLE 1

rations repo			
		ported in µg/L	
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Concentrations re	

Well ID/	TOC*	DTW	CWF						Ethvl-	Total	
Date Date	(ft.)	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Товиепе	benzene	Xylenes	MTBE
MW-11											
5/30/96		27.76	1	ı	Ţ	180	8.34	6.23	3.87	24	1
2/3/99	1	11.10	1	UN	QN	<50	<0.5	<0.5	<0.5	<1.0	1
4/20/99	1	25.54	1	-	4	<50	<0.5	<0.5	<0.5	<1.0	1
66/51/2	1	30.34	1	1	-			t	ı	P	1
11/10/99	1	DRY	1	-		•	-			Į.	1
3/8/00	ı	27.29	I,	1	L	-		-	1	1	T
5/18/00		29.78	1	1	1	08>	<0.5	<0.5	<0.5	<1.0	y
00/5/6	1	DRY		1	***	-		1	ţ	1	I
11/2/00	j	DRY	1	1	÷	1-3	•	1	t	Į	1
3/1/01	-	DRY	)		1	-			1	į.	1
8/21/01	1	DRY	ŧ		ŧ	i			1	-	4
12/5/01	ì	DRY		ı			4	4	1	1	1
6/26/02	i	30.49	1			-		*	1		1
9/29/02	Ĩ	DRY	4		1	-	-		į.	t	I.
1/6/03	1	DRY	3	1	*	*		-	-		1
3/8/03	4	30.37	Ŷ	-	i			į		4	1
6/9/03	1	30.44	Ŷ	p	ŧ		-	1	į	į	Í
9/2/03	1.	DRY	ì		+	1		Ţ	+	ì	ŧ
12/19/03	ŧ	DRY	ì	ì	-	*	*	1	į	Í	*
3/29/04	t	30.41	ì	1	-	T	1	1	i	į	1
6/10/04	1	30.92	ı			ı					-
9/11/04	-1	DRY	ű.	ŧ	í			1	9	1	1
4/22/05	4	30.32	4	NOT SAMPL	ED DUE TO I	SAMPLED DUE TO INSUFFICIENT WATER	WATER	1	i	4	t
ABANDONED	D										
MW-12											
96/08/5	4	DRY	1	7	-	1	ľ	4	ľ	1	ì
2/3/99	4		1	1	Í	ı	1	1	1	1	1
4/20/99	1	-	-	1	t	+	1	1	1	1	i
1/15/99	1	DRY	t	Y	)	1	1	-	}	1	1
66/01/11	t	DRY		1	,		1.	1	1	1	í
3/8/00	ŀ	DRY	1	-	1	1	ţ	ì	4	1	4
5/18/00	1	DRY	ı	•	(	•	)	q	đ	1	1
00/5/6	Î	DRY	4		-	1	-	1	1	1	1
11/2/00	1	DRY	4	1	)	1	Į.	+		-	1

# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations remarked in man

Date MW 12 (cont)		T. I. I.	2/11/2						E.L.	1.4.0	
W 17 (con	(#.)	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xvlenes	MTRE
1 1 - 1 - (COUR	(1										
3/1/01		DRY	)	1	4	-	1	ŧ	1	1	1
8/21/01	1	DRY	1	1	4	ì	t		4		4
12/5/01		DRY	t	1	1	-	ï	t	4		i
6/26/02	1	DRY/OBSTRUCTED AT 14.55 FEET	UCTED AT 14	LSS FEET	i	1	1				9
ABANDONED	D										
MW-13											
96/08/9	-	13.26	i		ı	26,700	298	718	520	4.900	į
2/3/99	1	1		Ĭ	1	31,800	909	1,500	229	6.500	1
4/20/99	1	10.33	į	1		31,700	629	1.850	1.100	7.260	1
7/15/99	£	15.46	4	+4	Ĭ	1	1	1		1	
11/10/99	t	21.78	ı	i	1		1	1	1		1
3/8/00	1	78.6	ı	1	1	29,300	386	1.700	1.300	6.840	1
5/18/00	-	13.64	1	1	ŧ	38,200	524	1.590	1.130	6.620	1
00/2/6	-	19.98	Ţ	Ü	T	40,400	476	1,920	1,420	8.520	<500
11/2/00		22.70	ì	1	Í		1	1			1
3/1/01	1	18.11	-	0-5	1	35,400	456	1,460	559	8.820	<1.00
8/21/01	4	1	-	-	4	1	1	t	1	1	1
12/5/01	-	ď	1	-	1		-	t	1	1	1
SANDONE	ABANDONED/DESTROYED2	ED <sup>2</sup>									
MW-14											
5/30/96	1	12.67	ı	-		39,800	704	2,990	854	7,050	1
2/3/99	1)	Ĺ	1	i		279	<0.5	0.582	2.05	9.876	1
4/20/99	1	9.51		1)	1	547	4.1	<4.10	19.5	23.1	1
7/15/99	1	DRY		1	i,		ı	-	1	1	;
11/10/99	1	14.35	-	-		9	d	1	ı		1
3/8/00	í	8.26		1	-	1,150	<0.550	4.05	22.8	<10.5	Ŧ
5/18/00	4	13.16	į			34,900	449	1,530	1,080	6.200	1
9/5/00	1	DRY	1	ţ	1	1	1	1	ſ	1	1
11/2/00	1	DRY	Ŷ	1	-	1		1	-		1
3/1/01	-	14.18	1	1	1	6,110	<30.8	103	225	579	
BANDONE	ABANDONED/DESTROYED <sup>2</sup>	SD <sup>2</sup>									
VEW-1											
3/7/95	263.17	7.70	255.47	I	1	44,000	953	2,030	1,050	7,700	ł
8/4/95	263.17	17.68	245,49			53,000	1.020	1.900	1,320	7.100	,

# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington

_	DTW	GWE						Ethyl-	Total	
	(ft.)	(msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	benzene	Xylenes	MTBE
	9.75	253.42	1	· •	*		*	-		1
	12.87	250.30	1	i	853,000	544	1,350	1,680	8,960	ŧ
	11.69	251.48	-	÷	25,800	702	2,820	699	5,060	1
	19.10	244.07	¢	7		į.		Ť	t	1
	8.00	255.17			43,800	646	1,420	1,300	7,320	1
	5.55	257.62	1	Ī	35,000	458	1,070	1,120	5,610	1
	12.42	250.75	1	7	429,000	908	1,230	1,280	5,890	ŧ
	18.03	245.14	í	1	1	Ť	14	Ą	1	4
	12.15	251.02	1	ì	39,900	869	1,580	1,550	8,450	1
	6.95	256.22	ì	1	48,000	507	1,310	1,310	7,250	1
	ı		-	-	*	3 144	-	-	*	4
	19.37	243.80	1	ŧ	ľ		-	i		ŧ
11.10	10.23	252.94	-	-	23,300	242	653	953	4,050	-
v = 0	5.13	258.04	-	-				1	*	1
	9.73	253.44	-	1	26,700	362	994	086	5,460	1
1	15.89	247.28	-	-	52,300	517	1,160	1,180	6,460	1
-	DRY		-	-	£	-	-	1	Y	•
-	9.02	254.15	1	t	27,700	214	800	1,210	5,700	
	14,12	249.05	1	t	35,700	365	1,040	1,140	6,450	į
1 4	DRY	-	7 4		1	-	1			đ
	DRY	-	-	-	1	-				1
	15.50	247.67	-	•	705,000	954	3,280	4,700	33,300	4
	19.54	243.63	t	t	193,000	734	3,080	3,310	17,600	3
_	9.38	253.79		£	38,800	440	1,760	1,360	8,590	i
ABANDONED/DESTROYED?	2									
-	6.28	256.74		ï	25,500	<10	858	166	4,800	1
	16.53	246.49			33,000	28	730	089	3,400	ŧ
	8.55	254.47		ŧ	4		200	ŧ		4
-	11.52	251.50		4	26,000	7.67	468	829	3,510	d
_	9.51	253.51	1	3	ď	-	-	-	1	1
	18.25	244.77		100	- 5	j	1	i	1	4
	5.90	257.12	1		1	1		-	4	4
	1	7	1		1	24	4	1	1	-

# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Consertel, Washington TABLE 1

				3	oncentrations	Concentrations reported in µg/L					
Well ID/ Date	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
VEW-2 (cont)											
6/30/97	263.02	17.25	245.77		-		t	1	d	1	4
9/29/97	263.02	-	ï	,		J	1	1	ı	1	4
12/29/97	263.02	1	-	-	,			J.	ı	1	4
3/13/98	263.02	4	ſ	1		1	1	1	1	1	í
6/24/98	263.02	•	ì	1		1	ï	1	1	1	1
86/11/6	263.02	1	Ì		-	-	1	1	1	1	1
12/29/98	263.02		4			1	ı	1	-	1	-
2/3/99	263.02	4.15	258.87	1	1	1	ı	+	1	1	7
4/20/99	263.02	8.60	254.42	1	1	17,300	09>	311	392	2,700	T
7/15/99	263.02	14.65	248.37		**	26,500	78.5	410	109	3,490	1
11/10/99	263.02	DRY	į	1	2	1	1	1	1	)	1
3/8/00	263.02	7.77	255.25	1	1	19,500	<10.0	201	286	1,970	1
5/18/00	263.02	12.56	250.46	-	1	19,800	21.6	309	320	2,980	4
00/2/6	263.02	19.06	243.96	4	1	1	1	1	ı	1	t
11/2/00	263.02	DRY	4	1	ı	ı	1	1	1	f	1
3/1/01	263.02	13.20		1	t	28,300	<85.0	531	808	4,070	1
ANDONE	ABANDONED/DESTROYED2	ID-									
TRIP BLANK											
QA											
6/26/02	-		-	4	·	<50	<0.50	<0.50	<0.50	<1.5	42.5
9/29/02	j	1	1		)	<50	<0.50	<0.50	<0.50	<1.5	<2.5
1/6/03	1	1	į	1	4	<50	<0.50	<0.50	<0.50	<1.5	2.5
3/8/033	Y	7	ï	1	1	1	1	ı	1	ı	ı
6/9/03	(	-	1	1	1	<50	<0.5	<0.5	<0.5	<1.5	2.5
9/2/03	+	37	1	1	1	<50	<0.5	<0.5	<0.5	<1.5	2.5
12/19/03	-	-	-	-	4	<50	<0.5	<0.5	<0.5	<1.5	2.5
3/29/04	+	-	1	,	4	<50	<0.5	<0.5	<0.5	<1.5	2.5
6/10/04	ì	-	i	1	1	<50	<0.5	<0.5	<0.5	<1.5	2.5
9/11/04	ł		÷	:	4	<50	<0.5	<0.5	<0.5	<1.5	<2.5
4/22/05	-		ŧ	1.		<50	<0.5	<0.5	<0.5	<1.5	<2.5
7/8/05		,		-		<50	<0.5	<0.5	<0.5	<1.5	<2.5
9/7/05		ı	-	~	1	05>	<0.5	<0.5	<0.5	<1.5	42.5
1/4/06	ì	-		-	**	<48	<0.5	<0.5	<0.5	<1.5	2.5
3/15/065	4		1	-	1	1	4	4	ì	ı	þ

# GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 TABLE 1

1366 31st Avenue South Seattle, Washington

				١	oncentrations	Concentrations reported in µg/L	7				
Well ID/ Date	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO	TPH-HRO	TPH-GRO	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
QA (cont)											
7/2/06		1	1	ì	4	<48	<0.5	<0.5	<0.5	<1.5	2.5
9/28/06	į	-	-	:	-	<48	<0.5	<0.5	<0.5	<1.5	2.5
11/21/06	Ĩ	Í	-	1		<48	<0.5	<0.5	<0.5	<1.5	2.5
2/15/07	1		-	1	ŧ	<48	<0.5	<0.5	<0.5	<1.5	2.5
6/2/07	1	ì	1	1		<50	<0.5	<0.5	<0.5	<1.5	2.5
20/1/6	*		*	1		<50	<0.5	<0.5	<0.5	<1.5	2.5
11/20/07	*	-	*		1991	05>	<0.5	<0.5	<0.5	<1.5	2.5
2/16/08		f	1	í	1	<50	<0.5	<0.5	<0.5	<1.5	2.5
6/2/08			1	ı		<50	<0.5	<0.5	<0.5	<1.5	2.5
9/12/08	ì	į		-	ľ	<50	<0.5	<0.5	<0.5	<1.5	425
12/2/08	•	1	ì		1447	<50	<0.5	<0.5	<0.5	<1.5	423
3/19/09	ì	3				<50	<0.5	<0.5	<0.5	<1.5	2.5
6/30/06	t		7	-		<50	<0.5	<0.5	<0.5	<1.5	2.5
9/12/09	ĺ	-	•	i		<50	<0.5	<0.5	<0.5	<1.5	2.5
12/1/09	-	1	i	ŧ	***	<50	<0.5	<0.5	<0.5	<1.5	2.5
2/23/10	0	1	-	-	-	<50	<0.5	<0.5	<0.5	<1.5	425
8/21/10	Ť		-	7	+	<50	<0.5	<0.5	<0.5	<1.5	<2.5
2/14/11	1	t	*			<50	<0.5	<0.5	<0.5	<15	2.5
8/4/11	ĺ	i		+		<50	<0.5	<0.5	<0.5	<1.5	2.5
11/30/11	í	1	Î	t		<50	<0.5	<0.5	<0.5	<1.5	<2.5
	Standard	Standard Laboratory Reporting	porting Limits:	ä	•	50	0.5	0.5	0.5	1.5	2.5
		MTCA Method A	ethod A CULs:	200	200	800/1/008	5	1,000	700	1,000	20
		Ü	Current Method:	- 1	NWTPH-Dx + Extended			NWTPH-Gx	NWTPH-Gx and EPA 8260		
SINORETINT REAG	27.00			Ш							

EXPLANATIONS:

Analytical results in bold font indicate concentrations exceed MTCA Method A CULs. Historical data has been requested, but electronic file has not yet been received.

GWE = Groundwater Elevation DTW = Depth to Water CULs = Cleanup levels (ft.) = Feet

(msl) = Mean Sea Level

MTBE = Methyl Tertiary Butyl Ether QA = Quality Assurance/Trip Blank MTCA = Model Toxics Control Act

TPH-HRO = TPH as heavy oil-range organics TPH-GRO = TPH as gasoline-range organics TPH-DRO = TPH as diesel-range organics TPH = Total Petroleum Hydrocarbons -- = Not Measured/Not Analyzed μg/L = Micrograms per liter TOC = Top of Casing

QC = Quality control

# TABLE 1 GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS FORMER TEXACO SERVICE STATION NO. 21-1558 1366 31st Avenue South Seattle, Washington Concentrations reported in µg/L

# XPLANATIONS (cont.)

- \* Prior to 8/4/11 TOC elevations have been surveyed in feet relative to msl. Wells were surveyed on 8/1/11 by GeoDimensions of Bellevue, WA. The coordinates are on Washington State Plane Coordinated NAD83 and the elevations are NAVD88. Groundwater elevations are relative to benchmark with elevation of 273.28 feet.
- 1 Analyzed with silica-gel cleanup.
- 2 Reported as ABANDONED/DESTROYED because confirmation has not yet been received.
- 3 Analysis was not performed as requested on the chain of custody.
- 4 Due to a scheduling error, monitoring and sampling was performed in 2006 but reflects the 4th quarter 2005 event.
- 5 Samples were not received by laboratory.
- 6 Laboratory report indicates due to the presence of an interferent near its retention time, the normal reporting limit was not attained for this compound. The presence or concentration of this compound cannot be determined due to the presence of this interferent.
  - 7 Insufficient water to determine GWE.
- 8. Laboratory report indicates the reporting limits were raised. See individual report for details.
- 9 Laboratory report indicates that reporting limits were raised due to interference from the sample matrix.



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# REPORT OF PERMANENT UST DECOMMISSIONING AND CLOSURE AT THE BARRET PROPERTY 416 RAINIER AVENUE SOUTH SEATTLE, WASHINGTON

Fluor Daniel GTI Project 106580

October 14, 1998

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### EXECUTIVE SUMMARY

Fluor Daniel GTI, Inc. was contracted to observe decommissioning of three (3) steel underground storage tanks (USTs) and ancillary piping at the Barret Property located at 416 Rainier Avenue South in Seattle, Washington.

## Observations and findings:

- The three steel USTs, two 3,000-gallon and one 1,000 gallon, appeared to be intact and in good condition, except for the 1,000-gallon tank on the north end of the property which showed evidence of rusting and pitting.
- Forty-seven soil samples collected from the tank pit excavation extents, below the dispensers, and from the soil excavated from the tank pit were analyzed for benzene, toluene, ethyl-benzene, total xylenes (BTEX), total phase hydrocarbons-as-gasoline (TPH-G), total phase hydrocarbons-as-diesel (TPH-D), and total phase hydrocarbons-as-oil (TPH-O) concentrations. Benzene concentrations were reported to exceed the Washington State Department of Ecology (WDOE) Method A Compliance Cleanup Levels [CCL(a)s] in soil samples DISP-3B and SP-2E at concentrations of 0.56 milligrams per kilogram (mg/kg) and 0.55 mg/kg. TPH-G concentrations were reported to exceed the CCL(a) in soil samples SP-2A, SW-2, TPB-1, TPB-4, DISP-3A, SW-6, SP-2E, SWB-N, SWB-N1, and OX-1 at concentrations ranging between 120 mg/kg, 3,800 mg/kg. TPH-D concentrations were reported to exceed the CCL(a) in soil samples DISP-3B and DISP-3C at concentrations of 3,700 mg/kg and 1,400 mg/kg, respectively.
- One groundwater sample (TP-2W) was collected from the north tank pit, which was approximately eight feet deep and contained approximately one foot of standing water. TP-2W was analyzed for BTEX, TPH-G, TPH-D, and TPH-O. Benzene and TPH-G concentrations were reported above the CCL(a)s in sample TP-2W at concentrations of 13.4 micrograms per liter (ug/L) and 2,500 ug/L, respectively. TPH-D and TPH-O were not detected at the method detection limits.
- Approximately 400 cubic yards of soil was excavated from the site and transported to TPS Technologies of Tacoma, WA.
- Soil exceeding the CCL(a) for TPH-G was left in place along the west sidewall, beneath the sidewalk adjacent to Rainier Avenue South.



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- Summary of Laboratory Results Water 2.

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- Laboratory Analytical Results Standard Operating Procedures C.

## 1.0 INTRODUCTION/BACKGROUND

Fluor Daniel GTI was contracted by Joe Hall Construction (Joe Hall) to observe and document the permanent closure of two 3,000-gallon and one 1,000-gallon steel underground storage tanks (USTs) at the Barret Property located at 416 Rainier Avenue South, Seattle, Washington (Figure 1). Tank decommissioning and removal were performed by Joe Hall of Fife, Washington. Soil samples were collected by Fluor Daniel GTI personnel and analyzed by a mobile laboratory operated by Transglobal Environmental Geosciensces Northwest Inc. (TEG) of Lacey, Washington, and by North Creek Analytical of Bothell, Washington. The UST system closure was conducted in accordance with Washington Department of Ecology (WDOE) UST Site Check Assessment Guidelines (WAC 173-360).

# 1.1 Work Scope

The following outline summarizes the specific work steps involved.

- Observed and documented the removal of two 3,000-gallon and one 1,000-gallon steel USTs and ancillary piping.
- Collected soil samples from the excavations and analyzed selected samples for benzene, toluene, ethyl-benzene, total xylenes (BTEX), total petroleum hydrocarbonsas-gasoline (TPH-G), total petroleum hydrocarbons-as-diesel (TPH-D), and total petroleum hydrocarbons-as-oil (TPH-O) concentrations.
- Collected and analyzed one water sample for BTEX, TPH-G, TPH-D, and TPH-O.
- Excavated and transported approximately 400 cubic yards of petroleum contaminated soil (PCS) to TPS Technologies of Tacoma, Washington.
- Prepared this report which summarizes the work performed, including results and findings.

### 1.2 Background

The site is located in a mixed residential and commercial area in Seattle, Washington, east of Rainier Avenue South and north of King Street. The site is situated in the northwest quarter of the northwest quarter of Section 4, Township 24 North, Range 4 East. Topographically, the site slopes to the south. The site was a former gas station. Historically, leaded gasolines were stored in the two 3,000- gallon USTs located west of the building and dispensed from islands located north and south of the USTs (Figure 2). Kerosene was stored in the 1,000-gallon UST located on the north end of the site and dispensed from the island to the west (Figure 2).



# 2.0 UNDERGROUND STORAGE SYSTEM DECOMMISSIONING

On August 18, 1998, Sound Testing of Seattle, Washington, inerted the USTs with carbon dioxide in preparation for removal. The two 3,000-gallon steel USTs appeared to be in good condition prior to removal. The 1,000-gallon steel UST showed signs of rusting and pitting on the southern end of the tank, but no holes were observed. On August 18, the USTs were removed and transported to General Metals of Tacoma, Washington for disposal. Fluor Daniel GTI personnel observed and documented the decommissioning by removal of the UST system by Joe Hall. The WDOE UST Closure and Site Assessment Notice is included in Appendix A.

During the removal of the USTs and the subgrade equipment, excavated soil was screened using a field photo-ionization detector (PID) calibrated to an isobutylene gas standard. Selected soil samples were placed in sealed plastic bags and allowed to volatilize for ten minutes prior to measuring the concentration of volatile organics in the sample headspace. Soil samples were collected at the excavation extents following tank removal and from the location of the former dispensers. Based on the results from the on-site analysis of soil samples, soil was removed until MTCA Method A cleanup levels were obtain or until a point at which continued excavation would undermine the Rainier Avenue sidewalk. The excavation activity spanned the period from August 18 through August 22, 1998. A total of fifty soil samples were collected from the excavations to guide soil removal, characterize soil for disposal, and document the final excavation extents. The sample locations are shown in Figure 3. The final excavation extent soil samples are shown in Figure 4.

Soils encountered during decommissioning activities included dark to medium brown, fine-grained sand and silt, with some gravel. Very dense, grey, glacial-till was encountered at a depth of approximately eight feet below grade under the location of dispenser #3. The top of the till sloped south to a depth of approximately 15 feet beneath the location of the two 3,000-gallon USTs.

The final PCS excavation extended from the north side of the dispenser #3 pit at the depth of the glacial till (8 feet) to the south end of the gasoline UST pit, also at the depth of till (15 feet). Soil was removed across this area to the depth of the till and excavation extent soil samples were collected for documentation. Groundwater was not encountered in this excavation to a depth of fifteen feet below grade.

A second area was excavated around the north UST and samples were collected at the excavation extents. These sample locations are also shown on Figures 3 and 4. Water was noted to be seeping into the excavation through the northern side wall from a depth of 8 to 9 feet. Approximately one foot of standing water eventually pooled in the bottom of this excavation on August 18, 1998, but on August 19 only 2-3 inches remained. A water sample, TP-2W, was collected on August 18 and analyzed for BTEX, TPH-G, TPH-D, and TPH-O concentrations.

Approximately 400 cubic yards of PCS was transported to Fife Sand And Gravel for treatment. Clean imported material was used to backfill the excavations to grade.



### 3.0 ANALYTICAL RESULTS

Soil and groundwater samples were analyzed by a mobile laboratory operated by TEG of Lacey, Washington. The final six confirmation soil samples were analyzed by North Creek Analytical of Bothell, Washington.

### Soil

Forty-one soil samples were analyzed for BTEX, TPH-G, TPH-D, and TPH-O by EPA Method 8020 and WDOE Method NWTPH-Gx and NWTPH-Dx/Dx-Extended. An additional six samples were analyzed for BTEX and TPH-G. Analytical results and MTCA Method A Compliance Cleanup Levels [CCL(a)s] for soil are summarized in Table 1. A complete laboratory report is contained in Appendix B.

Only one sample collected at the excavation extents exceeded a CCL(a). This sample, OX-1, was collected from beneath the Rainier Avenue sidewalk at a depth of 8 feet. Only TPH-G exceeded the CCL(a) at concentration of 3,110 mg/kg.

### Water

Water sample TP-2W was analyzed for BTEX, TPH-G, TPH-D, and TPH-O by EPA Method 8020 and WDOE Method NWTPH-Gx and NWTPH-Dx/Dx-Extended. Chemical analytical results and MTCA Method A Compliance Cleanup Levels [CCL(a)s] for water are summarized in Table 2. A complete laboratory report is contained in Appendix B.

The reported BTEX and TPH-G concentrations exceeded CCL(a)s. Benzene was reported at a concentration of 13.4 micrograms per liter (ug/L), and TPH-G at a concentration of 2,500 ug/l.

## 4.0 CONCLUSIONS/RECOMMENDATIONS

Three steel underground storage tanks, two 3,000-gallon and one 1,000-gallon, and the ancillary piping were decommissioned as part of the closure of the UST system at the Barret property located at 416 Rainier Avenue South in Seattle, Washington. The UST and subgrade equipment removal was conducted on August 18, 1998, by Joe Hall Construction. During the tank decommissioning, the three steel USTs were taken to General Metals of Tacoma, Washington, for disposal. Prior to removal, the USTs appeared to be intact and in good condition, except for the 1,000-gallon tank on the north end of the property which showed evidence of rusting and pitting.

Based on laboratory results, approximately 400 cubic yards of soil was removed from the area between the northern dispenser and the southern tank pit, and from the southern tank pit southwest and east sidewalls and bottom to a maximum depth of approximately fifteen feet below grade. Excavation extent confirmation soil samples SW-5, SWB-E, SW-W1, TPB-5, TPB-6, OXB-1, OX-2, OX-3, and OX-4 collected along the final excavation sidewalls and bottom confirmed that PCS was removed from these areas.

Confirmation soil sample, OX-1, collected along the western sidewall of the excavation in the area between the northern dispenser and the southern tank pit, contained a TPH-G concentration in excess of the CCL(a). Water sample TP-2W collected from the northern tank pit contained BTEX and TPH-G concentrations exceeding the CCL(a)s.

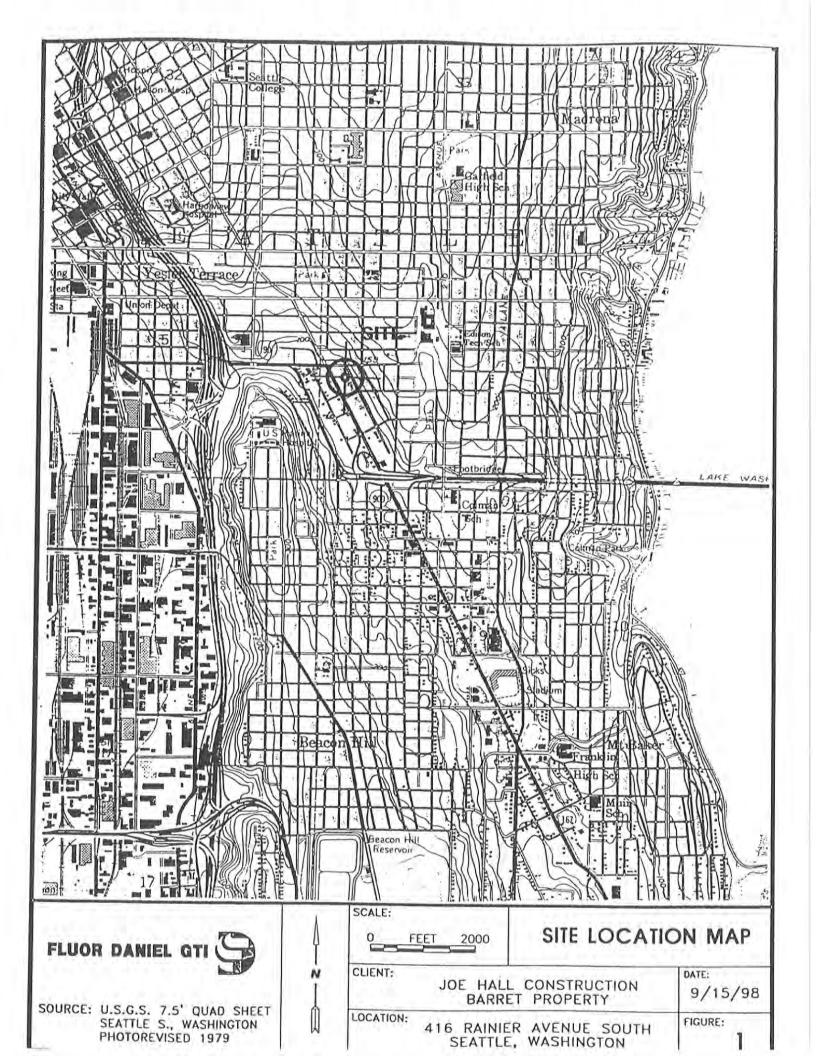
Joe Hall personnel backfilled the excavation to grade with clean imported backfill. Based on the

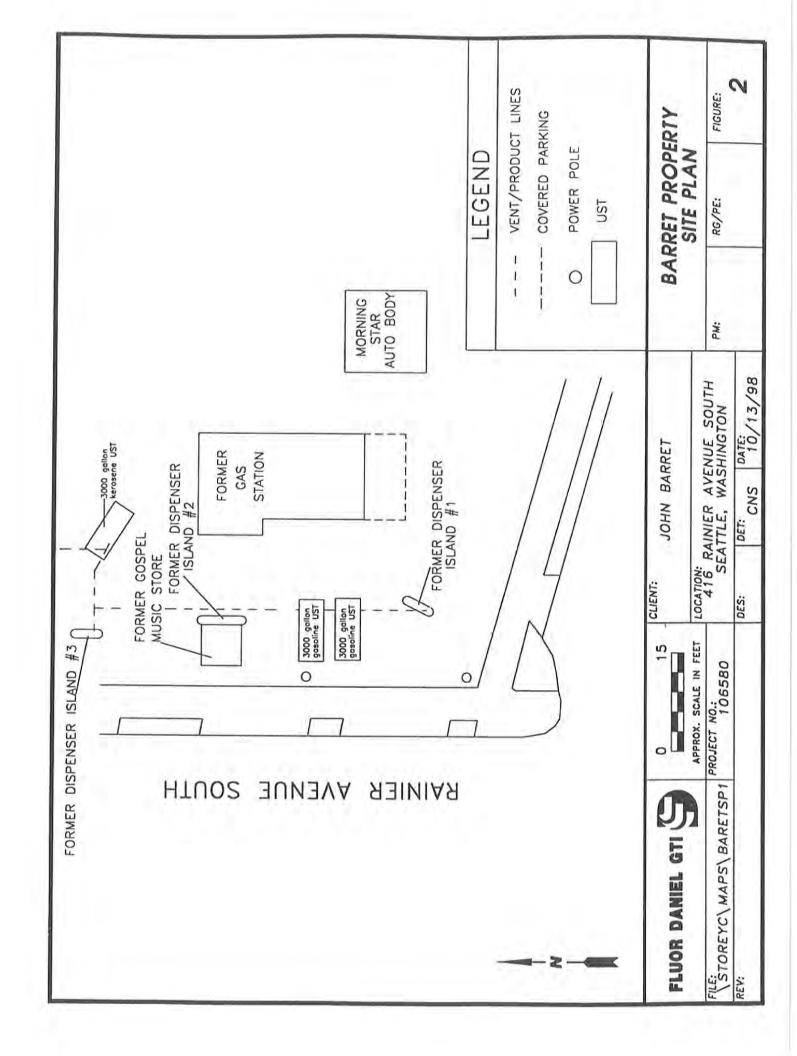


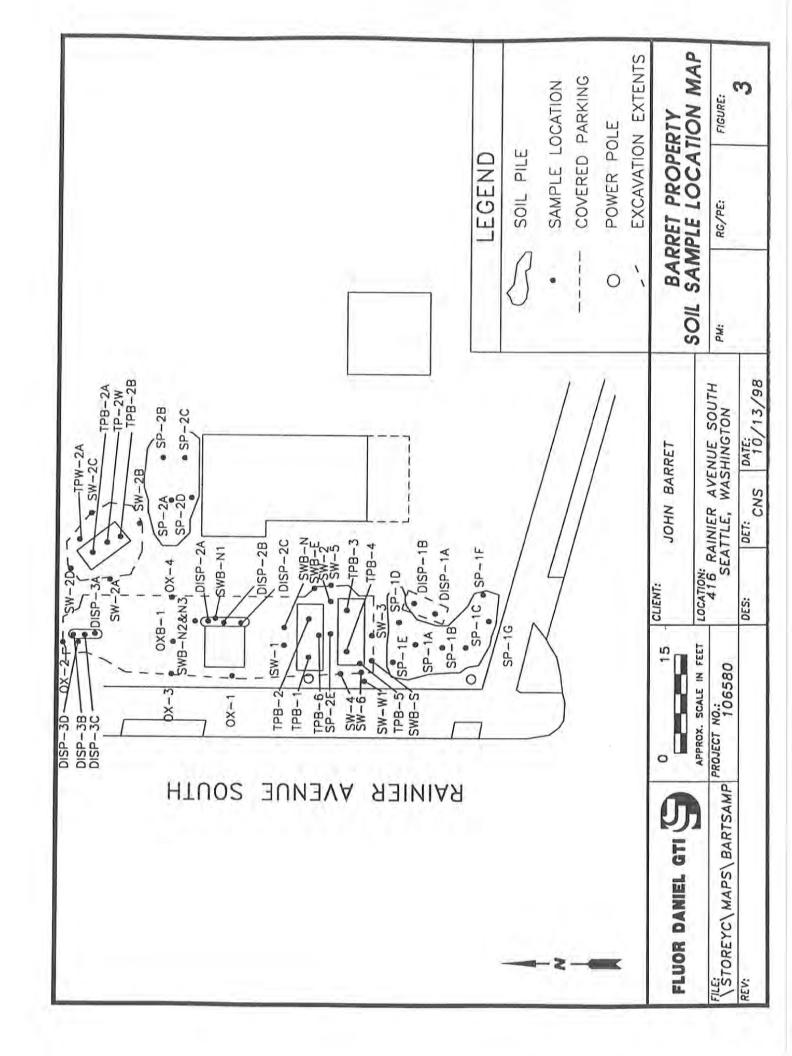
results of this investigation, petroleum impacted soil and groundwater remain in place between the western sidewall of the excavation and Rainier Avenue South.

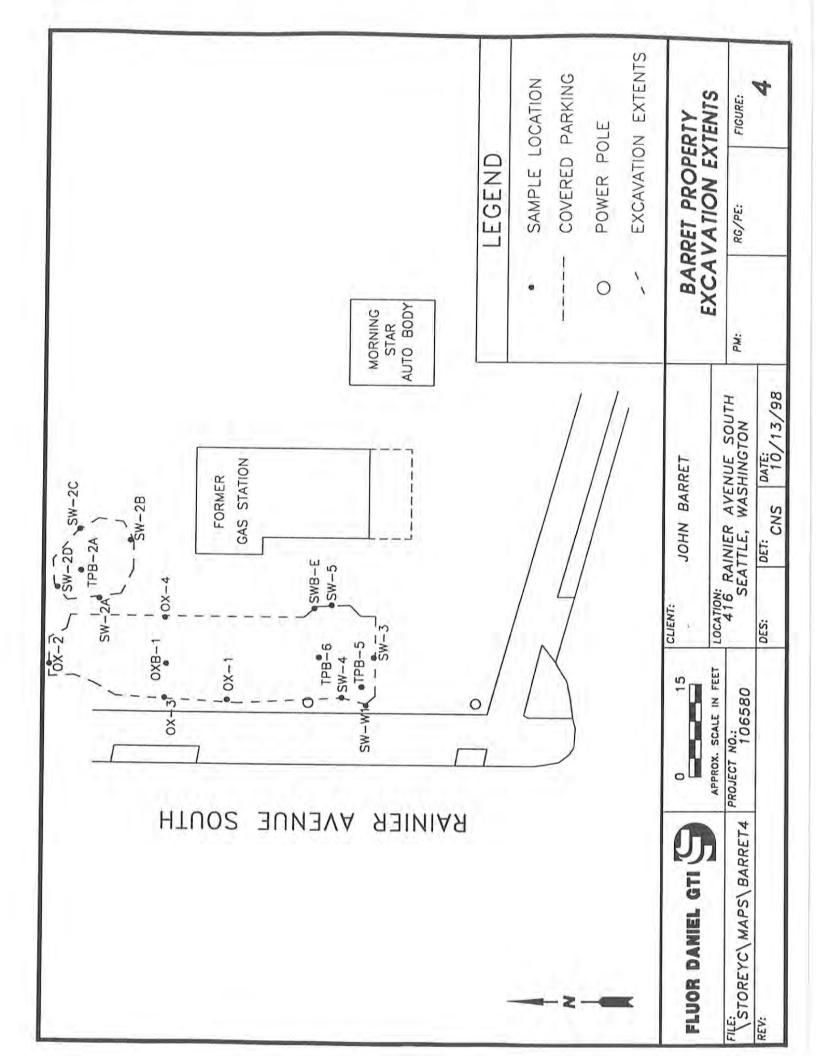
Based on the results of the tank closure investigation and laboratory results, further assessment activities are recommended along the Rainier Avenue sidewalk.

# **FIGURES**









# TABLES



# TABLE 1 SUMMARY OF LABORATORY RESULTS - SOIL BARRET PROPERTY 416 RAINIER AVENUE SOUTH SEATTLE, WASHINGTON

(Results in milligrams per kilogram) August 18-22, 1998

Sample ID	Sample Depth (feet bg)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-G	TPH-D	TPH-O
	d Detection its for TEG	0.05	0.05	0.05	0.05	20	50	100
DISP-1A	3	<0.05	<0.05	<0.05	0,32	<20	<50	<100
DISP-1B	3	<0.05	<0.05	<0.05	<0.05	<20	<50	<100
DISP-2A	3	<0.05	<0.05	<0.05	<0.05	<20	<50	<100
DISP-2B	3	<0:05	<0.05	<0.05	<0.05	<10	<50	<100
DISP-2C	3	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
DISP-3A	4	<0.05	<0.05	<0.05	0.26	1,200	<50	<100
DISP-3B	4	0.56	1.42	<0.05	0.63	<10	3,700	<100
DISP-3C	4	<0.05	<0.05	<0.05	0.72	<10	1,400	<100
DISP-3D	8	<0.05	0.37	<0.05	0.25	<10	<50	<100
TPB-1	12	<0.05	<0.05	<0.05	0.38	120	<50	<100
TPB-2	12	<0.05	<0.05	<0.05	<0.05	68	<50	<100
TPB-4	12	<0.05	<0.05	<0.05	12	1,200	<50	<100
TPB-5	15	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
TPB-6	15	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
TPB-2A	8	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SP-1A	(FE)	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SP-1C		<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SP-1D	1 ( <del>2-</del> )	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SP-1E	-	<0.05	<0.05	<0.05	0.18	<10	<50	<100
SP-1F	<u> -</u>	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SP-1G	-	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SP-2A	1 2	<0.05	0.55	<0.05	3.6	720	<50	<100
SP-2B	-	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SP-2D		0.2	0.68	<0.05	6.1	<10	<50	<100
SP-2E	12	0.55	1.7	<0.05	1.43	330	<50	<100



# TABLE 1 SUMMARY OF LABORATORY RESULTS - SOIL BARRET PROPERTY 416 RAINIER AVENUE SOUTH SEATTLE, WASHINGTON

(Results in milligrams per kilogram) August 18-22, 1998

	5 P		Augu	50 10-22, 19	90			
Sample ID	Sample Depth (feet bg)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-G	TPH-D	TPH-O
	d Detection its for TEG	0.05	0.05	0.05	0.05	20	50	100
SW-1	10	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SW-2	10	<0.05	0.01	<0.05	15	2,100	<50	<100
SW-3	10	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SW-4	10	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SW-5	10	<0.05	0.15	<0.05	<0.05	<10	<50	<100
SW-6	10	<0.05	0.19	<0.05	6.87	800	<50	<100
SW-2A	6	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SW-2B	6	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SW-2C	6	<0.05	<0.05	<0.05	2.6	<10	<50	<100
SW-2D	6	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SWB-S	15	<0.05	<0.05	<0.05	0.19	15	<50	<100
SWB-E	15	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SWB-N	12	<0.05	<0.05	< 0.05	0.23	670	<50	1,000
SWB-N1	8-10	<0.05	1.85	5.23	30.6	3,800	<50	<100
SWB-N2	6	<0.05	<0.05	<0.05	<0.05	<10	<50	<100
SWB-N3	10	<0.05	<0.05	<0.05	<0.05	<10	<50	<100

# TABLE 1 SUMMARY OF LABORATORY RESULTS - SOIL BARRET PROPERTY 416 RAINIER AVENUE SOUTH SEATTLE, WASHINGTON

(Results in milligrams per kilogram) August 18-22, 1998

Sample ID	Sample Depth (feet bg)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-G	TPH-D	TPH-O
Method I Limits f		0.05	0.05	0.05	0.1	5	1-	i i
SW-W1	15	<0.05	<0.05	<0.05	<0.1	36		
OX-1	8	<0.05	<0.05	<0.05	<0.1	3,110	52	J-
OX-2	8	<0.05	<0.05	<0.05	<0.1	<5	1 4	4
OX-3	9	<0.05	<0.05	<0,05	<0.1	<5	(H_	- 1
OX-4	9	<0.05	<0.05	<0.05	<0.1	<5		1.5
OXB-1	- 11	<0.05	<0.05	<0.05	<0.1	<5		-
MTC	CA-CCL (a)	0.5	40	20	20	100	200	200

TPH-G = Total petroleum hydrocarbons-as-gasoline
TPH-D = Total petroleum hydrocarbons-as-diesel
TPH-O = Total petroleum hydrocarbons-as-oil

MTCA-CCL[a] = Model Toxics Control Act Method A Compliance Cleanup Level

Less than the method detection limit

- = Not Sampled bg = Below grade

TEG = Transglobal Environmental Geosciences Northwest Inc.

NCA = North Creek Analytical

Bold values exceed MTCA-CCL[a] Sample depths are approximate.



# TABLE 2 SUMMARY OF LABORATORY RESULTS - WATER BARRET PROPERTY 416 RAINIER AVENUE SOUTH SEATTLE, WASHINGTON

(Results in micrograms per liter) August 18, 1998

Sample ID	Sample Location	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-G	TPH-D	TPH-O
Method	d Detection Limit	1	1	1	1	100	200	400
TP-2W	North	13.4	130	42.5	287	2,500	<200	<400
MTC	CA-CCL (a)	5	40	30	20	1,000	1,000	1,000

TPH-G = Total petroleum hydrocarbons-as-gasoline
TPH-D = Total petroleum hydrocarbons-as-diesel
TPH-O = Total petroleum hydrocarbons-as-oil

TPH-O = Total petroleum hydrocarbons-as-oil
MTCA-CCL[a] = Model Toxics Control Act Method A Compliance Cleanup

Level

Less than the method detection limit

Bold values exceed MTCA-CCL[a]

# APPENDIX A UST SITE CLOSURE NOTICE





# UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

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resor ID	,				333

See back of form for instructions

Please ✓ the a	appropriate box(es) emporary Tank Clo	sure 🗌 Change-Ir	Sendo A Per	managet Tools Classes		And the last
	Site Infor		A ren		Information or returned to this address)	Assessment
Site ID Number			UST	Owner/Operator_+		11300
(Available from Eco Site/Business Na	logy if the tanks are regis	sterod)				
	A	1	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	g Address 2400	Street HELL	B17
Site Address		einer Avenue	2.	*	P.O. Box	
City/State	Scattle,	WA	City/S	tate SOME		
Zlp Code	Telepho	enc	ZIp Co	ode <u>98112.</u> Tel	Jeobone (206) 32	2-4163
Owner's Signati	uro Have	iet c Bar			0.511.011	
0-1-0	T			ervice Company	,	
Service Company	1	1411	-onsyruct	ion		12.5
Certified Supervis	sor Den	rista del	Decon	nmissioning Certification	on No. 10577	23-26
Supervisor's Sig	nature	un to	mells		7 9 2 2 2 2 2	
ress  31	7 54th A	ME BART				
Street	*	WA	P.O. Box	2.	7. W.2.C.S.Y.	1 1/1.051
City		State	98424-12		ophone (253) 922	6815
			-			
	- /	Site	Check/Site As	ssessor		
Certified Site Asse	essor	ris 11.	Storev			¥
Address Street	555 5	. Renjon 1	Villay Pl. P.O. Box	TP\$		
City	Scattle	State 7	WA ZID Code	98055 Tele	phone (425) 22	8-9645
		ank Information	6.5		Contamination	
Tank ID	Closure Date	Closure Method		415000000	at the Time o	f Closure
. [	8/19/48	Remove/	Tank Capacity	Substance Stored	/X D	
2	8/18/98	Removal	3000		Yes No Check unknown If	Unknown no obvious
3	Oligias	11	- Joseph	GAS	contamination was	
	- Ofter to		1000	Kerosene	sample results hat received from and	
					X	
\$\hat{3}	<del></del>				Yes	No
<u> </u>					If contamination is	Description of the second second second
					release been repo appropriate region	
					and the second second second second	A CONTRACTOR OF THE PARTY OF

# APPENDIX B LABORATORY ANALYTICAL RESULTS



Page 1

# RAINEER AVE. S. PROJECT Scattle, Washington Fluor Daniel GTI

# BTEX (EPA 8020) Analyses for Soils

Sample Number	Date Analyzed	Benzene mg/kg	Toluene mg/kg	Eth Benz mg/kg	Xylene mg/kg	Recovery (%)
OB TAKEN			-0.6			777
Meth Blank	08/18/98	nd	nd	ba	nd	76
SP 1A	08/18/98	nd	nd	nd	ba	97
SP 1C	08/18/98	ba	nd	nd	nd	105
SP 1D	08/18/98	ba	nd	nd	ba	103
SP 1D Dup.	08/18/98	nd	nd	nd	nd	103
SP 1E	08/18/98	nd	nd	nd	0.18	103
SP 2A	08/18/98	nd	0.55	nd	3.6	68
SP 2B	08/18/98	nd	bd	nd	nd	76
SP 2D	08/18/98	0.2	0.68	nd	6.1	68
SW 1	08/18/98	nd	nd	nd	nd	97
SW 2	08/18/98	nd	0.1	nd	15	100
SW 3	08/18/98	nd	nd	nd	nd	100
SW 4	08/18/98	nd	nd	nd	nd	76
SW 2A	08/18/98	nd	nd	ba	nd	100
SW 2B	08/18/98	nd	nd	nd	nd	107
SW 2C	08/18/98	nd	nd	nd	2.6	107
SW 2D	08/18/98	nd	nd	nd	nd	95
TPB 1	08/18/98	nd	nd	nd	0.38	107
TPB 2	08/18/98	ba	nd	nd	nd	84
TPB 4	08/18/98	nd	nd	nd	12	131
TPB 2A	08/18/98	nd	nd	nd	nd	102
Detection Lim	iite	0.05	0,05	0.05	0,05	

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limits.

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<sup>&</sup>quot;int" Indicates that interferences prevent determination.

Page 2

RAINEER AVE. S. PROJECT Seattle, Washington Fluor Daniel GTI

# BTEX (EPA 8020) Analyses for Water

=====	=====	SSEERS	=====	=====	=====
Date Analyzed	Benzene ug/l	Toluene ug/l	Eth Benz ug/l	Xylene ug/l	Recovery (%)
08/18/98	nd	nd	nd	nd	74
08/18/98	13.4	130	42.5	287	88
08/18/98	19.1	139	50.9	338	69
mits	1	1	1	1	
	Analyzed 08/18/98 08/18/98	Analyzed ug/l  08/18/98 nd  08/18/98 13.4  08/18/98 19.1	Analyzed ug/l ug/l  08/18/98 nd nd  08/18/98 13.4 130  08/18/98 19.1 139	Analyzed ug/l ug/l ug/l  08/18/98 nd nd nd  08/18/98 13.4 130 42.5  08/18/98 19.1 139 50.9	Analyzed ug/l ug/l ug/l ug/l ug/l  08/18/98 nd nd nd nd  08/18/98 13.4 130 42.5 287  08/18/98 19.1 139 50.9 338

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limits.

<sup>&</sup>quot;int" Indicates that interferences prevent determination.

Page 3

# RAINEER AVE. S. PROJECT Seattle, Washington Fluor Daniel GTI

# Hydrocarbon Identification by NWTPH-HCID for Soils

Sample		Date	Recovery	Gasoline	Diesel	Heavy Oil
Number			%	mg/kg	mg/kg	mg/kg
Meth. Blank		08/18/98	92	nd	nd	nd
SP 1A		08/18/98	131	nd	nd	nd
SP 1C		08/18/98	113	nd	nd	nd
SP 1D		08/18/98	116	nd	nd	nd
SP 1D Dup.		08/18/98	131	nd	nd	ba
SP 1E		08/18/98	99	nd	nd	nd
SP 2A		08/18/98	90	D	nd	nd
SP 2B		08/18/98	107	nd	nd	nd
SP 2D		08/18/98	81	nd	nd	nd
SW 1		08/18/98	114	nd	nd	nd
SW 2		08/18/98	int	D	nd	nd
SW 3		08/18/98	70	nd	nd	nd
SW 4		08/18/98	101	nd	nd	nd
SW 2A		08/18/98	79	nd	nd	nd
SW 2B		08/18/98	102	nd	nd	nd
SW 2C		08/18/98	88	nd	nd	bd
SW 2D		08/18/98	81	nd	nd	nd
TPB 1		08/18/98	72	D	nd	nd
TPB 2		08/18/98	97	D	nd	nd
TPB 4		08/18/98	94	D	nd	pd
TPB 2A		08/18/98	76	nd	nd	nd
Method Detec	tion Limits			20	50	100

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limit.

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<sup>&</sup>quot;D" Indicates detected above the listed detection limit.

Page 4

RAINEER AVE. S. PROJECT Seattle, Washington Fluor Daniel GTI

# Hydrocarbon Identification by NWTPH-HCID for Water

===== ==	==== =	=====	=====		=====	=====
Sample		Date	Recovery	Gasoline	Diesel	Heavy Oil
Number			%	ug/I	ug/I	ug/l
=========						=====
Meth. Blank		08/18/98	92	nd	nd	nd
TP 2W		08/18/98	74	D	nd	nd
TP 2W Dup.		08/18/98	133	D	nd	nd
MDL				200	500	1000
	عد ا فوقته عمد	المحمد والمحاط			CHARLEST CO.	

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limit.

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<sup>&</sup>quot;D" Indicates detected above the listed detection limit.

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RAINEER AVE, S. PROJECT Seattle, Washingtoon Fluor Daniel GTI

# Gasoline, Diesel and Oil in Soil by NWTPH-Gx and NWTPH-Dx/Dx-Extended

Date	Recovery	Gasoline	Diesel	Heavy Oil
	%	mg/kg	mg/kg	mg/kg
08/18/98	100	nd	nd	nd
08/18/98	116	nd	nd	nd
08/18/98	90	nd	nd	nd
08/18/98	128	nd	nd	nd
08/18/98	105	nd	nd	nd
08/18/98	103	nd	nd	nd
08/18/98	124	720	nd	nd
08/18/98	123	nd	nd	nd
08/18/98	103	ba	nd	nd
08/18/98	119	nd	nd	nd
08/18/98	int	2100	nd	nd
08/18/98	133	nd	nd	nd
08/18/98	120	nd	ba	ba
08/18/98	89	nd	nd	nd
08/18/98	123	nd	nd	nd
08/18/98	100	nd	nd	nd
08/18/98	104	nd	nd	nd
08/18/98	99	120	nd	nd
08/18/98	113	68	nd	ba
08/18/98	92	1200	nd	nd
08/18/98	71	nd	nd	ba
		10	20	40
	Date   08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98  08/18/98	Date Recovery  %  ====== 08/18/98 100 08/18/98 116 08/18/98 90 08/18/98 105 08/18/98 105 08/18/98 103 08/18/98 124 08/18/98 123 08/18/98 103 08/18/98 119 08/18/98 119 08/18/98 119 08/18/98 120 08/18/98 120 08/18/98 123 08/18/98 120 08/18/98 123 08/18/98 120 08/18/98 123 08/18/98 199 08/18/98 100 08/18/98 100 08/18/98 104 08/18/98 99 08/18/98 99	Date Recovery Gasoline mg/kg  ====== 08/18/98 100 nd 08/18/98 116 nd 08/18/98 128 nd 08/18/98 105 nd 08/18/98 103 nd 08/18/98 103 nd 08/18/98 124 720 08/18/98 123 nd 08/18/98 123 nd 08/18/98 103 nd 08/18/98 103 nd 08/18/98 103 nd 08/18/98 103 nd 08/18/98 103 nd 08/18/98 103 nd 08/18/98 103 nd 08/18/98 100 nd 08/18/98 120 nd 08/18/98 120 nd 08/18/98 120 nd 08/18/98 120 nd 08/18/98 120 nd 08/18/98 120 nd 08/18/98 123 nd 08/18/98 120 nd 08/18/98 120 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd 08/18/98 123 nd	Date   Recovery   Gasoline   Diesel   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   mg/kg   md   nd   nd   nd   nd   nd   nd   nd

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limit.

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<sup>&</sup>quot;int" Indicates that interference peaks prevent determination.

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RAINEER AVE. S. PROJECT Seattle, Washington Fluor Daniel GTI

# Gasoline, Diesel and Oil in Water by NWTPH-Gx and NWTPH-Dx/Dx-Extended

	====	=====	=====			
Sample		Date	Recovery	Gasoline	Diesel	Heavy Oil
Number			%	ug/l	ug/l	ug/I
=========	====	=====	=====	=====	=====	=====
Meth. Blank		08/18/98	100	nd	nd	nd
TP 2W		08/18/98	106	2500	nd	nd
TP 2W Dup.		08/18/98	94	3000	nd	nd
MDL				100	200	400

<sup>&</sup>quot;nd" Indicates not detected at the listed detection Limit.

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<sup>&</sup>quot;int" Indicates that interference peaks prevent determination.

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GEOSCIENCES

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7 8/18/18 1 Note Number Laboratory Total Numbers of Containers de 20 Prison dept. UNDSCHOOM DATE OF COLLECTION hollan TR. DOMAN MONO LOMING (K) X OMOS w  $\mathcal{E}$ V HOLD (03) 620) (17000 FIELD NOTES Sidrunde 1.10(0) ? tauking LABORATORY NOTES Sid SNO 1221 JAN L 100 7.17 といる Siri 3 PAGE 爾 116 20th "Kilda HDC 4 86/81/ SOLSBEST PROJECT NAME: CHAIN OF CUSTODY SEALS YANNA X TOTAL NUMBER OF CONTAINERS RECEIVED GOOD COND./COLD OVET THEOL COLLECTOR: SAMPLE RECEIPT LOCATION: SEALS INTACT? YANNA DATE: PROJECT MANAGER: Stru HOSKIMS FAX: (435)238-9793 S. Renton Villow Place, Kenton 11/1/6 DATE/TIME DATE/TIME NO SON RECEIVED BY (Signature) RECEIVED BY (Signature) OLORIOS VON SISATUND × O Pickup SAMPLE DISPOSAL INSTRUCTIONS Container Type 4 34 nu 8/154/81800 O Return 61005 2/1/25 CITEG DISPOSAL @ \$2.00 each CLIENT: Fluch DOLLIA SEASON SESSION STANTON L PHONE (405) 228 - 9645 CLIENT PROJECT #: Sample DATE/TIME DATE/TIME 7.4% until D. 3 4 9501 10/ 33 250 858 1115 6501 Depth Time 904. 845 848 046 1334 1153 K 11 30 148 1/39 ELINQUISHED BY (Signature) (Signature) Sample Number D - 4 4 100 4-· 6. 17.4. mt-d 4 ELINQUISHED BY SP-10 PB·参 PA-M P-20 78-4 rp8-3 çà. 5m3 D-14 Sp-10 31-05 SP-38 4. M 7-MV 1-MV 1-02 1-00

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TRÂNSGLOBAL ENVIRONIMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD Sonk \*\*\* Total Number of Containers DATE OF COLLECTION 9/16 37 4 300 15 12 Ti 13 Vá. 13 1 P AVO FIELD NOTES LABORATORY NOTES: A)OH PROJECT NAME: 4/6 740,00 SNO PAGE Hoe 1. Klar LOCATION: "Say 1/P DATE: 8/18/98 SOLSBEST CHAIN OF CUSTODY SEALS YANNA TOTAL NUMBER OF CONTAINERS RECEIVED GOOD COND/COLD COLLECTOR: SEALS INTACT? YANNA NOTES: Eblb -8:1 (514) DATE/TIME DATE/TIME 3/11/5 PROJECT MANAGER: RECEIVED BY (Signature) RECEIVED BY (Signature) 8/13/95 10:00 Jun May 18 ☐ Return : ☐ Pickup SAMPLE DISPOSAL INSTRUCTIONS Container Type HINCS CITEG DISPOSAL @ \$2.00 each DATE/TIME Sample Type CLIENT: Flug Panic | GT.
ADDRESS: 515 5. Pratur
PHONE (425) 128-9645 Rentur 1.0/1 2:33 2 38 2:36 Time 2:43 7:27 Sample Number Depth IELINQUISHED BY (Signature) ELINQUISHED BY (Signature) CLIENT PROJECT #: 10 14 TPB- 28: 3W-2C1 ... 72 S. K. A. 5W-2B ( ) 作中で 5W-)

Page 1

RAINEER AVE. S. PROJECT Seattle, Washington Fluor Daniel GTI

# BTEX (EPA 8020) Analyses for Soils

Sample Number	Date Analyzed	Benzene mg/kg	Toluene mg/kg	Eth Benz mg/kg	Xylene mg/kg	Recovery (%)
Meth. Blank	08/19/98	nd	nd	nd	nd	80
Disp 1A	08/19/98	ba	nd	nd	0.32	107
Disp 1B	08/19/98	nd	nd	nd	nd	110
Disp 2A	08/19/98	nd	nd	nd	ba	105
Disp 2A Dup.	08/19/98	nd	nd	nd	nd	71
Disp 2B	08/19/98	nd	nd	nd	ba	105
Disp 2C	08/19/98	nd	nd	nd	nd	90
Disp 3A	08/19/98	nd	nd	nd	0.26	105
<b>Disp 3B</b>	08/19/98	0.56	1.42	nd	0.63	90
Disp 3C	08/19/98	nd	nd	nd	0.72	123
Disp 3D	08/19/98	nd	0.37	nd	0.25	70
TPB 5	08/19/98	nd	nd	nd	nd	110
TPB 6	08/19/98	nd	nd	nd	nd	108
SW 5	08/19/98	nd	0.15	nd	nd	121
SW 6	08/19/98	nd	0.19	nd	6.87	123
SP 1F	08/19/98	nd	nd	nd	ba	94
SP 1G	08/19/98	nd	nd	nd	nd	102
SP 2E	08/19/98	0.55	1.7	nd	1.43	71
SWB S	08/19/98	nd	nd	nd	0.19	116
SWB E	08/19/98	nd	nd	nd	nd	125
SWB N	08/19/98	nd	nd	nd	0.23	118
SWB N1	08/19/98	nd	1.85	5.23	30,6	70
SWB N2	08/19/98	ba	nd	nd	nd	113
SWB N3	08/19/98	nd	nd	nd	nd	126
Detection Limits		0.05	0.05	0.05	0.05	

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limits.

<sup>&</sup>quot;int" Indicates that interferences prevent determination.

Page 2

RAINEER AVE. S. PROJECT Seattle, Wushington Fluor Daniel GTI

# Hydrocarbon Identification by NWTPH-HCID for Soils

Sample	Date	Recovery	Gasoline	Diesel	Heavy Oil
Number		%	mg/kg	mg/kg	mg/kg
Meth. Blank	08/19/98	92	ba	nd	nd
Disp 1A	08/19/98	96	nd	nd	nd
Disp 1B	08/19/98	111	nd	nd	nd
Disp 2A	08/19/98	98	nd	nd	nd
Disp 2A Dup.	08/19/98	102	ba	nd	nd
Disp 2B	08/19/98	97	ba	nd	nd
Disp 2C	08/19/98	92	bd	nd	nd
Disp 3A	08/19/98	100	D	nd	nd
Disp 3B	08/19/98	114	nd	D	nd
Disp 3C	08/19/98	119	nd	D	ba
Disp 3D	08/19/98	99	nd	nd	nd
TPB 5	08/19/98	112	nd	nd	nd
TPB 6	08/19/98	86	nd	nd	nd
SM 2	08/19/98	108	nd	nd	nd
SW 6	08/19/98	int	D	nd	nd
SP 1F	08/19/98	91	nd		nd
SP 1G	08/19/98	99	nd	nd	nd
SP 2E	08/19/98	111	D	nd	nd
SWB S	08/19/98	112	D	nd	nd
SWB E	08/19/98	124	nd	nd	nd
SWB N	08/19/98	74	D	nd	D
SWB N1	08/19/98	int	D	nd	nd
SWB N2	08/19/98	71	nd	nd	nd
SWB N3	08/19/98	129	nd	ba	nd
Method Detection Limits			20	50	100

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limit.

<sup>&</sup>quot;D" Indicates detected above the listed detection limit.

Page 3

RAINEER AVE. S. PROJECT Scattle, Washington Fluor Daniel GTI

# Gasoline, Diesel and Oil in Soil by NWTPH-Gx and NWTPH-Dx/Dx-Extended

Sample	Date	Recovery	Gasoline	Diesel	Heavy Oil
Number		96	mg/kg	mg/kg	mg/kg
Meth. Blank	08/19/98	95	nd	nd	nd
Disp 1A	08/19/98	106	nd	nd	nd
Disp 1B	08/19/98	100	nd	nd	nd
Disp 2A	08/19/98	101	nd	nd	nd
Disp 2A Dup.	08/19/98	102	nd	nd	nd
Disp 2B	08/19/98	107	nd	nd	nd
Disp 2C	08/19/98	101	nd	nd	nd
Disp 3A	08/19/98	95	1200	nd	nd
Disp 3B	08/19/98	int	nd	3700	nd
Disp 3C	08/19/98	int	nd	1400	nd
Disp 3D	08/19/98	106	nd	nd	nd
TPB 5	08/19/98	108	nd	nd	nd
TPB 6	08/19/98	88	nd	nd	nd
SW 5	08/19/98	103	nd	nd	nd
SW 6	08/19/98	int	800	nd	nd
SP 1F	08/19/98	99	nd	nd	nd
SP 1G	08/19/98	120	nd	nd	nd
SP 2E	08/19/98	97	330	nd	nd
SWB S	08/19/98	109	15	nd	nd
SWB E	08/19/98	108	nd	ba	nd
SWB N	08/19/98	127	670	nd	1000
SWB N1	08/19/98	125	3800	nd	nd
SWB N2	08/19/98	127	nd	nd	nd
SWB N3	08/19/98	125	nd	nd	nd
MDL			10	20	40

<sup>&</sup>quot;nd" Indicates not detected at the listed detection limit.

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<sup>&</sup>quot;int" Indicates that interference peaks prevent determination.

TRANSCLOBAL ENVIRONMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

\*\* South Total Number of Containers Harrien. de, COLLECTION AVENUE 25 용 FIELD NOTES LABORATORY NOTES: 416 Rainer PAGE CMS 85/51/8 CHAIN OF CUSTODY SEALS Y/N/NA PROJECT NAME: TOTAL NUMBER OF CONTAINERS RECEIVED GOOD COND/COLD COLLECTOR: OVEN NUOT SAMPLE RECEIPT LOCATION: SEALS INTACT? Y/N/NA DATE: 7000 FAX: (425) 228- 4793. DATE/TIME DATE/TIME 819181 6:00 PROJECT MANAGER: RECEIVED BY (Signature) RECEIVED BY (Signature) Jun 119 (1) D Pickup SAMPLE DISPOSAL INSTRUCTIONS Container Type □ Return PHONE (415) 228-96 14 GII ADDRESS: 1556 S. HANTON 26/2/20 LITEG DISPOSAL @ \$2.00 each DATE/TIME DATE/TIME Sample Type Time 50.6 9:30 9:25 7.70 3.00 30:00 14:13 4p:U 12:15 Chill? 11:54 54. 00 15 1. 1.3 CLIENT FLOOP (S)gnature) Sample Number Depth CLIENT PROJECT #: 6 3 15 ( a 2 ELINQUISHED BY ELINQUISHED BY Dr. 30 JE. 11.25 11.30 11.7 A 1:50-2 2.50-2 41011 ... 1

TRANSGLOBAL ENVIRONIMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

OF THE	1.	S. Carrier	DATE OF COLLECTION	otal Number of Containers aboratory	T D				0		74				LABORATORY NOTES:	DRY NOTES:	- E	, t	\ \tag{\tau}	- E	- E
DATE: "//1//8 PAGE	CT NAME:		COLLECTOR: CUS	OUT ONLY PRODUCED TO THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OF THE OUT OUT OF THE OUT OF THE OUT OUT OF THE OUT OUT OUT OUT OUT OUT OUT OUT OUT OUT	)	××										SAMPLE RECEIPT LABORATO TOTAL NUMBER OF CONTAINERS	4	CEIPT NTAINERS	CEIPT NTAINERS EALS Y/N/NA	CEIPT NTAINERS EALS Y/N/NA	CEIPT NTAINERS EALS Y/N/NA D/COLD
	VIII. 4 1 744		PROJECT MANAGER:	Container Type (20) (20) (20) (20) (20) (20) (20) (20)	X										ПІМЕ	DATE/TIME	DATE/TIME	DATE/TIME    15.   10.     5:   10.     DATE/TIME	3Y (Signature) DATE/TIME  1/( \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \( \int \) \(	SY (Signature) DATE/TIME  1((1) (1/2) (2.00)  SY (Signature) DATE/TIME	3Y (Signature) DATE/TIME  1((, ()
LIENT: Fluid Minel GIT	DDRESS: 555 5. E. F. 16,1	HONE 415 -225-11-45	LIENT PROJECT #:	Sample Sample Time Type Cor	13, 4.1/1	C 18 11.94	2	1.1.13 .0" 6:100							NQUISHED BY (Signature) DATE/TIME		ISHED BY (Signature)	ISHED BY (Signature)	ISHED BY (Signature)	ISHED BY (Signature)	ISHED BY (Signature)  ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (



BOTHELL \* (425) 420-9200 \* FAX 420-9210 SPOKANE \* (509) 924-9200 \* FAX 924-9290 PORTLAND # (503) 906-9200 # FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700

Renton, WA 98055

Project Number:

Project: Joe Hall/Rainier

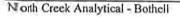
106580 Project Manager: Stan Haskins Sampled: 8/20/98

Received: 8/24/98

Reported: 8/25/98 14:33

### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled		
SW-W1	B808427-01	Soil	8/20/98		
DX-1	B808427-02	Soil	8/20/98		
DX-2	B808427-03	Soil	8/20/98		
DX-3	B808427-04	Sail	8/20/98		
0X-4	B808427-05	Soil	8/20/98		
DXB-1	B808427-06	Soil	8/20/98		



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.





BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 906-9200 = FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Joe Hall/Rainier

Project Number: Project Manager:

106580

Stan Haskins

Sampled: 8/20/98

Received: 8/24/98

Reported: 8/25/98 14:33

### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B North Creek Analytical - Bothell

433633 B	Batch	Date	Date	Surrogate	Reporting		18500	111.0
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes
SW-WI			B8084	27-01			Soil	
Gasoline Range Hydrocarbons	0880665	8/24/98	8/25/98		5.00	36.0	mg/kg dry	1,4
Benzene	N. S. S.				0.0500	ND	"	
Toluene	0	ii i	30		0.0500	ND	0.	
Ethylbenzene		*	w.		0.0500	ND	W.	
Xylenes (total)			0		0.100	ND	- iir	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		98.2	%	
Surrogate: 4-BFB (PID)	ŵ		,	50.0-150		94.4	"	
OX-1			B80842	27-02			Soil	
Gasoline Range Hydrocarbons	0880665	8/24/98	8/24/98	2007/04	250	3110	mg/kg dry	1.4
Benzene		10			2.50	ND	10	
Toluene	9	"	**		2.50	ND		
Ethylbenzene	ű.		41		2.50	ND	in.	
Xylenes (total)	74.7	W.	0		7.50	ND	W.	2
Surrogate: 4-BFB (FID)	"		- i	50.0-150	Annual Parison	NR	%	3
Surrogate: 4-BFB (PID)	"	"	or .	50.0-150		NR	и	3
OX-2			B80842	27-03			Soil	
Gasoline Range Hydrocarbons	0880665	8/24/98	8/25/98		5.00	ND	mg/kg dry	
Benzene			*		0.0500	ND	ü	
Toluene	345		**		0.0500	ND		
Ethylbenzene					0.0500	ND		
Xylenes (total)			"		0.100	ND	9.	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		91.3	%	
Surrogate: 4-BFB (PID)	ii.		"	50.0-150		93.3	<i>m</i>	
OX-3			B80842	7-04			Soil	
Gasoline Range Hydrocarbons	0880665	8/24/98	8/25/98		5.00	ND	mg/kg dry	
Benzene		10			0.0500	ND	1000	
Toluene	W.		4		0.0500	ND		
Ethylbenzene	"	10	ü		0.0500	ND	*	
Xylenes (total)			9		0.100	ND	•	
Surrogate: 4-BFB (FID)	H		"	50.0-150		95.9	%	
Surrogate: 4-BFB (PID)	*	n	и	50.0-150		96.6	"	
OX-4			B80842	7-05			Soil	
Gasoline Range Hydrocarbons	0880665	8/24/98	8/24/98		5.00	ND	mg/kg dry	
Benzene	"	u			0.0500	ND	1	

North Creek Analytical - Bothell

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





BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 906-9200 = FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700 Renton, WA 98055

Project: Joe Hall/Rainier

Project Number: 106580 Project Manager: Stan Haskins Sampled: 8/20/98

Received: 8/24/98 Reported: 8/25/98 14:33

### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B North Creek Analytical - Bothell

to to ve	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
OX-4 (continued)			B8084	27-05			Soil	
Toluene	0880665	8/24/98	8/24/98		0.0500	ND	mg/kg dry	
Ethylbenzene					0.0500	ND	"	
Xylenes (total)	0		Ú.		0.100	ND	Al .	
Surrogate: 4-BFB (FID)	"	re	"	50.0-150		93.2	%	_
Surrogate: 4-BFB (PID)	И.	"	**	50.0-150		94.1	ii.	
OXB-1			B80842	27-06			Soil	
Gasoline Range Hydrocarbons	0880665	8/24/98	8/25/98		5.00	ND	mg/kg dry	
Benzene					0.0500	ND	h	
Toluene		4	. a.		0.0500	ND	10	
Ethylbenzene	iii .		10		0.0500	ND	W	
Xylenes (total)	(ii)				0.100	ND		
Surrogate: 4-BFB (FID)		**	w	50.0-150		82.6	%	
Surrogate: 4-BFB (PID)	"	u.		50.0-150		90.9	*	

North Creek Analytical - Bothell

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

Joy B Chang, Project Manager



BOTHELL \* (425) 420-9200 \* FAX 420-9210 SPOKANE \* (509) 924-9200 \* FAX 924-9290 PORTLAND \* (503) 906-9200 \* FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Joe Hall/Rainier

Project Number: 106580

Project Manager: Stan Haskins

Sampled: 8/20/98

Received: 8/24/98

Reported: 8/25/98 14:33

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

a delicary	Batch	Date	Date	Surrogate	Reporting	11000	/7% /W	
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
SW-WI			B8084	27-01			Soil	
Diesel Range Hydrocarbons	0880666	8/24/98	8/25/98		10.0	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	n	0.0000			25.0	ND	" "	
Surrogate: 2-FBP	"	"	"	50.0-150		90.2	%	
OX-1			B80842	27-02			Soil	
Diesel Range Hydrocarbons	0880666	8/24/98	8/25/98		10.0	120	mg/kg dry	4
Heavy Oil Range Hydrocarbons					25.0	ND	11	
Surrogate: 2-FBP	"	"	"	50.0-150		87.7	%	
OX-2			B80842	27-03			Soil	
Diesel Range Hydrocarbons	0880666	8/24/98	8/25/98		10.0	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	4-77-376		11		25.0	ND	"	
Surrogate: 2-FBP	"	"	n	50.0-150	77.77	91.7	%	
OX-3			B80842	27-04			Soil	
Diesel Range Hydrocarbons	0880666	8/24/98	8/25/98	-	10.0	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons	u	H			25.0	ND	"	
Surrogate: 2-FBP	"	"	n	50.0-150		80.6	%	
OX-4			B80842	27-05			Soil	
Diesel Range Hydrocarbons	0880666	8/24/98	8/25/98		10.0	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons			10		25.0	ND	ii and and	
Surrogate: 2-FBP	"	"	ii .	50.0-150		81.9	%	
OXB-1			B80842	7-06			Soil	
Diesel Range Hydrocarbons	0880666	8/24/98	8/25/98	-	10.0	ND	mg/kg dry	
Heavy Oil Range Hydrocarbons		"	"		25.0	ND	"	
Surrogate: 2-FBP	ů.	"	"	50.0-150		91.7	%	

North Creek Analytical - Bothell

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

Joy B Chang, Project Manager



BOTHELL \* (425) 420-9200 \* FAX 420-9210 SPOKANE \* (509) 924-9200 \* FAX 924-9290

PORTLAND \* (503) 906-9200 \* FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700 Renton, WA 98055 Project: Joe Hall/Rainier Project Number: 106580

 Hall/Rainier
 Sampled:
 8/20/98

 580
 Received:
 8/24/98

 Haskins
 Reported:
 8/25/98 14:33

Project Manager: Stan Haskins

### Dry Weight Determination North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
SW-W1	B808427-01	Soil	89.0	%
DX-1	B808427-02	Soil	90.0	%
)X-2	B808427-03	Soil	83.2	%
0X-3	B808427-04	Soil	70.9	%
X-4	B808427-05	Soil	90.9	%
XB-I	B808427-06	Soil	83.0	%

North Creek Analytical - Bothell

Joy B Chang Project Manager



BOTHELL \* (425) 420-9200 \* FAX 420-9210 SPOKANE \* (509) 924-9200 \* FAX 924-9290

PORTLAND = (503) 906-9200 = FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Joe Hall/Rainier

Project Number: 106580

Project Manager: Stan Haskins

Sampled:

8/20/98

Received: 8/24/98

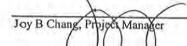
Reported: 8/25/98 14:33

### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B/Quality Control North Creek Analytical - Bothell

Walter Co.	Date	Spike	Sample	QC		eporting Limit		RPD	RPD	Towns of
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0880665	Date Prepa	red: 8/24/	98		Extraction	on Method: EP.	A 5030B	(MeOH)		
Blank	0880665-B1				ALOSE HISAIS	an invitation	1.00000	111100111		î
Gasoline Range Hydrocarbons	8/25/98			ND	mg/kg dr	y 5.00				-
Benzene	8-1-55			ND	"	0.0500				
Toluene				ND	N.	0.0500				
Ethylbenzene	A.			ND		0.0500				
Xylenes (total)				ND		0.100				
Surrogate: 4-BFB (FID)	"	4.00		4.06	"	50.0-150	101			
Surrogate: 4-BFB (PID)	n	4.00		4.11	**	50.0-150	103			
LCS	0880665-BS	51								
Gasoline Range Hydrocarbons	8/25/98	25.0		30.6	mg/kg dr	y 70.0-130	122			
Surrogate: 4-BFB (FID)	"	4.00		4.31	"	50.0-150	108			
Duplicate	0880665-Dt	JP1 B8	308427-04							
Gasoline Range Hydrocarbons	8/25/98		ND	ND	mg/kg dr	y.		50.0		
Surrogate: 4-BFB (FID)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.64		5.32	u	50.0-150	94.3			
Duplicate	0880665-DU	JP2 B8	808428-02							
Gasoline Range Hydrocarbons	8/25/98		19.4	20.2	mg/kg dr	y		50.0	4.04	
Surrogate: 4-BFB (FID)	,	4.38	1.1646	4.22	"	50.0-150	96.3			
Matrix Spike	0880665-M	SI BE	808427-05							
Benzene	8/25/98	0.550	ND	0.430	mg/kg dr	60.0-140	78.2			
Toluene	ü	0.550	ND	0.439		60.0-140	79.8			
Ethylbenzene	11	0.550	ND	0.443	4	60.0-140	80.5			
Xylenes (total)	0	1.65	ND	1.33	40	60.0-140	80.6			
Surrogate: 4-BFB (PID)	"	4.40		4.09	"	50.0-150	93.0			
Matrix Spike Dup	0880665-MS	SD1 B8	08427-05							
Benzene	8/25/98	0.550	ND	0.445	mg/kg dr	60.0-140	80.9	20.0	3.39	
Toluene		0.550	ND	0.457	"	60.0-140	83.1	20.0	4.05	
Ethylbenzene	0	0.550	ND	0.459	n .	60.0-140	83.5	20.0	3.66	
Xylenes (total)	ir .	1.65	ND	1.39		60.0-140	84.2	20.0	4.37	
Surrogate: 4-BFB (PID)	j#f.	4.40		4.29		50.0-150	97.5			-

North Creek Analytical - Bothell

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





BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE # (509) 924-9200 # FAX 924-9290

PORTLAND \* (503) 906-9200 \* FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

PPM LE

Project: Joe Hall/Rainier

Project Number:

106580

Project Manager: Stan Haskins

Sampled: 8/20/98

Received:

Reported: 8/25/98 14:33

8/24/98

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

	1	2012	и	S	
	٠,		Ŧ.	46	
		199			
		-			

Transfer	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% Notes
Batch: 0880666	Date Prepa	red: 8/24/9	98		Extractio	on Method: EP	A 3550B		
Blank	0880666-BI						-		
Diesel Range Hydrocarbons	8/25/98			ND	mg/kg dr	y 10.0			
Heavy Oil Range Hydrocarbons	W.			ND	"	25.0			
Surrogate: 2-FBP	"	11.0		9.85	"	50.0-150	89.5		
LCS	0880666-BS	i							
Diesel Range Hydrocarbons	8/25/98	66.7		64.5	mg/kg dry	60.0-140	96.7		
Surrogate: 2-FBP	"	11.0		10.4	"	50.0-150	94.5		
Duplicate	0880666-DU	JPI BE	808427-01						
Diesel Range Hydrocarbons	8/25/98	P 9	ND	ND	mg/kg dry	v		50.0	
Heavy Oil Range Hydrocarbons			ND	ND	"			50.0	
Surrogate: 2-FBP	,	12.3		12.1	"	50.0-150	98.4	-	

North Creek Analytical - Bothell

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

Joy B Chang, Proje



BOTHELL \* (425) 420-9200 \* FAX 420-9210 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 906-9200 = FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700 Renton, WA 98055

Project: Project Number:

Joe Hall/Rainier

106580 Project Manager: Stan Haskins Sampled: 8/20/98

Received: 8/24/98

Reported: 8/25/98 14:33

### Notes and Definitions

#	Note	
1	The chromatogram for this sample does not resemble a typical gasoline pattern.	
2	The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.	1
3	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.	
4	The sample chromatogram closely matches the stoddard solvent hydrocarbon pattern.	
DET	Analyte DETECTED	
ND	Analyte NOT DETECTED at or above the reporting limit	
NR	Not Reported	
dry	Sample results reported on a dry weight basis	
Recov.	Recovery	
RPD	Relative Percent Difference	

North Creek Analytical - Bothell

Joy B Chang, Pro ect Manage



18939 120th Avenue N.E., Suite 101, Bothell, WA 99011-9508 (206) 481-9200 FAX 485-2992

East 11115 Montgomery, Suite B. Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290

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

# CHAIN OF CUSTODY REPORT

Work Order # 12808427

REPUBLIOS STAT RIDGE DIGHIEL GTI	WHIEL GTE		INVOICETO: CONNIE NO	Nother	TURNAROUND REQUEST in Business Days *	s Days *
ATTENTION: SPEN HUSTLINS			ATTENTION:		Organic & Inorganic Analyses	
NODRESS: 555 5. APMYON	on Willinge	Place	#700 ADDRESS: It	*	10 7 5 4 3 2	1 Same
Kenton, WA	48055				Standard   Fluels & Hydrocarbon Analyses	1
549	FAX: (415)	228-9793	P.O. NUMBER:	NCA QUOTE #:		Che .
PROJECT NAME. JOE HALL	1 Ramer		Analysis / / /	11111	Netwest	
PROJECT NUMBER: 106 SBU			10	/////	OTHER COUNTY AS AS CALD CA	7.
SAMPLED BY:	54.2		1/3/9/20/	////		Rush Charges.
CLIENT SAMPLE	SAMPLING	NCA SAMPLE ID	10/Hd/85/	////	MATRUX # OF	
0 511/-11/1	9.20/68	ME (Lawranny Use Only)	1 7 ×		(W. S. A. O) CONTAINERS COMM	COMMENTS
1-XO .	3/24/43 2:50	0 7 000	7			
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# APPENDIX C STANDARD OPERATING PROCEDURES



### 1.0 DRILLING

- 1.1 The principle reason for requiring on-site drilling supervision is to acquire reliable information.
- 1.2 While supervising a test boring or well installation, the geologist should always make certain that the driller is making accurate depth measurements by ruler and not by visually "eyeballing" the measurements (five foot auger lengths or drill rods may vary in length by +/- .75 feet.
- 1.3 Discrepancies between the driller's statements of depth and the geologist's should be immediately clarified by remeasurement so that the driller and geologist are in agreement.
- 1.4 Note lithologic changes that occur between sampling depths. Lithologic changes can be estimated by: noting changes in the rate of penetration of the drilling tools; noting color and/or soil-type changes in the drill cuttings; and, noting the soil on the auger flights.
- 1.5 Samples obtained by split-spoon sampler should follow the standard penetration test procedure (see Section 2.0).
- 1.6 For each soil sample taken, the following information must be recorded on the well/boring log:
  - sample depth
  - sample number
  - sampling method: split-spoon (SS), wash sample, auger flight sample, drill cutting sample.
  - blow counts for every 6 inches penetration of the split-spoon sampler
  - sample description should follow the Unified Soil Classification System.
- 1.7 The sample brass tubes must be labeled with the following information
  - job number
  - date and time
  - well/boring number
  - sample number
  - sample depth
  - name of sampler
- 1.8 Insure that samples are sealed in brass tubes as nearly intact and undisturbed as possible. Soil structure can be an important feature in interpreting the subsurface geology.
- 1.9 Seal the ends of the brass tubes with aluminum foil or teflon tape prior to placing on the air tight cap. Place the sealed and labeled tube on ice in a cooler for shipment to the lab along with a chain-of-custody.
- 1.10 Seal the contents of a second brass tube in a plastic sample bag for vapor level measurements.
- 1.11 Measure vapor levels with a photoionization detector (PID) when the samples reach room temperature (70 degrees F). Otherwise keep the samples cool until an instrument is available. Bring the samples to room temperature prior to measuring the vapor levels.
- 1.12 Attempt to determine the depth to groundwater as drilling progresses. After a well has been installed, measure the initial groundwater level. If no well has been installed,

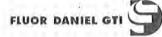


- measure the water level in the boring prior to removing all of the auger flights or casing and backfilling the borehole.
- 1.13 When drilling in soils such as loose sands and silts, which tend to run up into the borehole, whether it is stabilized with casing or augers or not, the driller should maintain a positive head of water in the borehole (that is above the water table) at ALL times.
- 1.14 All pertinent data concerning drilling method, groundwater, penetration resistance, soil description, etc. should be entered onto the well/boring log.
- 1.15 Locate each well/boring location by taping the distances to at least three permanent physical features at the site. These may include any feature that is shown on the site plan provided, such as building corners, pump island, light standards, fences, planters, etc. DO NOT measure to another well/boring as one of the three measurements unless it is absolutely necessary. DO include measurements between well/borings as additional location information. This information, entered onto the well/boring log, will be used in conjunction with survey data to complete the site map and to generate groundwater contour and petroleum distribution maps.
- 1.16 At the completion of drilling, arrange to survey the well/boring locations and elevations.
- 1.17 Groundwater Technology does not assume the responsibility of directing the operations of independent contractors or insuring the safety of their workmen. Inform the contractor of the project requirements. Do not drive contractor trucks or operate or borrow his equipment.
- 1.18 Comply with all applicable articles of the Occupational Safety and Health Act of 1970, (OSHA).



### 2.0 STANDARD PENETRATION TEST

- 2.1 The standard split-spoon sampler consists of a 2-inch O.D. by 1-3/8-inch I.D., 18-inch minimum length, heat treated, case hardened, steel head, split-spoon and shoe assembly.
- 2.2 The head is vented to prevent pressure buildup during sampling and must be kept clean. A ball check valve is located in the head to prevent downward water pressure during sampling and sample retrieval. Removal of the water check valve often results in sample loss.
- 2.3 The drive rods which connect the split-spoon must have a stiffness equal or greater than an A-rod. In order to reduce rod deflection, especially in deep holes, it may be preferable to use larger diameter rods. The size of the drive rods must be consistent throughout a specific exploration as the energy absorbed will vary with the size and the weight of the rods used. The type of drive rod should be noted on the well/boring log.
- 2.4 The drive head consists of a guide rod to give the drop hammer a free fall in order to strike the anvil attached to the lower end of the assembly. The rod must be a minimum of 3-1/2 feet in length to insure the correct 30-inch hammer drop.
- 2.5 The drop hammer must weigh 140 pounds and have a 2-1/2-inch diameter hole through the center for the passage of the drive head rod.
- 2.6 The hammer is raised with a rope activated by the drill rig cathead. No more than two turns of rope should be allowed on the cathead.
- 2.7 A 30-inch free hammer drop is mandatory and extreme care should be exercised to insure consistent results.
- 2.8 Automatic trip hammers are available which insure a 30-inch, free-fall drop. These are recommended when retaining soil-structure data is critical, such as in liquefaction studies.
- 2.9 Attach the split-spoon sampler to the drill rods and lower the assembly to the bottom of the hole. Measure the drill rod stickup to determine if the bottom of the sampler is resting on the bottom of the hole. If the sampler is not on the bottom (ex. blow-up of the stratum being sampled), remove the assembly and clean out the hole to the appropriate sampling depth.
- 2.10 Note any penetration of the sampler/rod assembly due to the weight of the rods. Do not drop the assembly to the bottom of the hole.
- 2.11 Raise the 140-pound hammer 30 inches above the drivehead anvil and then allow it to drop, free-fall, and strike the anvil. This procedure is repeated until the sampler has been driven 18 inches into the stratum at the bottom of the hole (a 24-inch sampler may be driven 24 inches).
- 2.12 The number of blows of the hammer required for each 6 inches of penetration of the sampler is counted and recorded.
- 2.13 A penetration rate of 100 blows per foot is normally considered refusal; however, this criterion may be varied depending on the nature of the project and the desired information.



- 2.14 The penetration resistance, density, is calculated by adding together the second and the third resistance blowcounts. (Ex: for blow counts 2-6-6, density = 12.)
- 2.15 The sampler is then withdrawn form the borehole, preferably by pulling the rope rather than by bumping it out using the cathead and hammer in reverse.
- 2.16 Keeping the casing/augers/borehole full of water when removing the sampler will enhance sample recovery. however, this practice may not be appropriate when drilling at contamination sites.
- 2.17 When sampling soils where recovery is poor, lining the sampler with a flexible material such as plastic wrap or placing a sand catch in the shoe will often increase sample recovery.
- 2.18 Careful measurement of all drilling tools, samplers, casing, etc. must be exercised throughout all phases of the test boring operation.
- 2.19 Carefully open the sampler and describe the contents, noting soil structure, color, characteristics, etc. following the Unified Soils Classification System.
- 2.20 All pertinent data concerning sampling activities including sampling, interval, blow counts and sample recovery should be entered on the well/boring log.



### 3.0 WATER QUALITY SAMPLING

- 3.1 Water samples should not be taken from the stagnant water in the well.
- 3.2 Water samples should be taken in triplicate.
- 3.3 Remove 3 to 5 volumes of water in the well prior to sampling. The water may be removed by bailing, submersible pump, or purge system. Wells with a slow recovery period should be bailed dry and then sampled within 1 hour or when recovered to 80%. Monitor pH, temperature and specific conductivity with each well volume to insure water quality stabilization has occurred. However, this is not necessary at every well or in all circumstances.
- 3.4 Use only Teflon, stainless steel, or glass bailers to obtain the sample. Use Teflon only for sampling water containing chlorinated compounds and also for bacteriological samples. PVC bailers can be used for one-time sampling for other than EPA 624 analysis. Using a bailer for a one-time sampling reduces the possibility for cross-contamination.
- 3.5 When sampling, avoid stirring up any sediments in the well and agitating the water to reduce volitization of any dissolved compounds that may be present.
- 3.6 All sampling equipment must be cleaned following the appropriate procedure to avoid cross contamination from site to site and sample to sample. The sampling equipment should be cleaned before each well sampling, between each sampling, and at the end of each sampling round.
- 3.7 Monitoring wells should be gauged prior to sampling.
- 3.8 If possible, the monitoring wells should be sampled starting with the cleanest well and ending with the most contaminated well.
- 3.9 Wells containing free-phase contaminants should not be sampled.
- 3.10 When filling out the chain of custody form:
  - enter the samples in the order in which they were collected;
  - make a note as to the cleaning fluid used to clean the sampling equipment;
  - attempt to identify which samples are the most contaminated;
  - complete all other requested information.
- 3.11 The laboratory sample identification label should be filled out with a waterproof pen and firmly affixed to each sample container. Typically, identification labels require that the following information be supplied:
  - job name
  - iob number
  - sampler's name
  - sample identification
  - date sampled and time
  - analysis requested
- 3.12 Acidification is required for samples that will be analyzed by the EPA 624 method. (see Acidification Procedure in this section)
- 3.13 Acidification is recommended for EPA method 601 and 602 samples to preserve them and increase their holding life. (see Acidification Procedure in this section)



- 3.14 Field blanks should be taken as part of each sampling round. A field blank consists of a sample of distilled water which has been collected by putting the distilled water into a sampling bailer after the bailer has been cleaned following the procedure used to clean that bailer during the sampling round. The field blank is stored with the samples. It is not analyzed unless requested by the Project Manager. The field blank should not be identified as such to the laboratory.
- 3.15 Handling of decontaminated equipment:
  - Always use "pristine" gloves (latex, solvex, etc.).
  - Place decontaminated bailers on clean surface (plastic).
  - Do not wipe down bailer with paper towels or cloth.
  - Follow decontamination procedure.
- 3.16 Sample accuracy can be adversely affected by the entrainment of sediment in wells which have not been properly developed. Contaminants adhering to the sediments can be released when samples are acidified for preservation. Therefore, if sediments are present, field filtering of the samples is recommended.
- 3.17 Chemical changes can take place because the sample was oxidized during sampling. It is critical to avoid oxidation of samples when sampling for volatile organic compounds (VOC). Therefore, take care to insure minimal agitation occurs during sampling.
- 3.18 All samples should be <u>properly</u> and <u>promptly</u> preserved.
- 3.19 All samples should be analyzed quickly; arrangements should be made with the testing laboratory to insure prompt analysis is performed within the allowable times for the specific analyses to be done.
- 3.20 Bailer strings that have contacted water or contaminants should be replaced between each well to avoid contamination from a bailer string which has absorbed contamination. A good practice is to replace the string between wells. <u>Caution</u>: some bailer strings are treated with a fungicide which may be detected in priority pollutant analysis.
- 3.21 Notify laboratory that samples are being shipped in advance of sampling to insure proper delivery and turnaround.
- 3.22 On the chain of custody, note what type of decontamination or preservation fluids, chemicals were used.



### 4.0 ACIDIFICATION PROCEDURE (EPA Methods 601,602, and 624)

- 4.1 At the start of each sampling round, the amount of acid required to lower a sampling container of water to be sampled to a pH of less than 2 should be determined.
- 4.2 After removing 3 to 5 well volumes from the first well to be sampled, put 5-10 drops of 50% HCL into a 40 ml sample vial (larger sampling container will require more acid) and fill the vial with water form the well; determine the pH of water in the vial with pH paper; if the pH is too high, repeat the procedure using 15-20 drops of acid in the vial; repeat until the pH of the water in the sample vial is a pH of less than 2 on the pH paper. Note the amount of acid required to lower the pH of the volume of water in the sampling vial. (pH paper should not be placed into sampling container. Pour sample onto pH paper to check for proper pH.)
- 4.3 Discard the practice acidified sample.
- 4.4 Once the amount of acid required to reach a pH of <2 is known, the acid can be routinely added to each sample container directly; the water to be analyzed is added to vial or container containing the appropriate amount of acid.</p>
- 4.5 Note that the amount of acid required is site specific and should be noted on the Chain of Custody form.
- 4.6 The procedure should be repeated for each site at the start of each sampling round.

### 4.7 Equipment

- Bailer or other means to remove 3 to 5 well volumes
- Sampling bailer
- Polyethylene squirt bottle of 50% hydrochloric (HCL) acid
- Narrow range pH paper (1.0 2.5 pH range)
- Paper towels
- Waterproof pen
- Laboratory sample identification labels
- Cooler with ice
- Chain of custody forms
- Sample containers (usually 40 ml glass vials with teflon faced septums)
- Alconox solution and/or methanol
- Distilled water
- Safety equipment (gloves, etc.)
- Dissolved oxygen meter (sometimes used in limited biorec projects in conjunction with bacteriological testing)



### 5.0 SURVEYING

### 5.1 Equipment Handling

- The level/transit is a sensitive, expensive instrument, handle it accordingly. Keep it dry and clean as possible. Never carry the instrument in the back of the truck.
- Never leave the instrument on the tripod without securely attaching it.
- Make sure that the tripod is stable at all times.
- Always setup the tripod and instrument so that it is easily seen.
- Never leave a tripod and instrument unattended when surveying in an area with vehicular traffic. Place protective cones around the survey station.
- Keep an eye on the equipment at all times.
- Keep the survey rod free of dirt and grit.

### 5.2 Leveling the Instrument

- Center the level and screw it into the tripod.
- Firmly plant the tripod legs.
- Use foot screw to level the instrument. The bubble must be within the setting circle in order for the instrument the be level.
- Rotate the level 360 degrees, checking to be sure that the bubble remains inside the circle at every point.

### 5.3 Focusing the Cross Hairs and Siting

- To focus the cross hairs, look through the instrument and turn the ring around the eyepiece until the hairs come into focus.
- Relax your eye while looking through the eyepiece.
- Use a sun shade.

### 5.4 Rod

- Be careful when using a rod around overhead power and utility lines.
- The rod is graduated into hundredths of a foot. The bottom of each black line is an odd hundredth; the top of each black line is an even hundredth.
- When surveying to the rod, the rod should be slowly rocked forward and back to determine the lowest, and most accurate, reading.



### 5.5 Stadia Surveys

- Readings should be taken at the intersection of the vertical cross hair with the three horizontal cross hairs. (A level survey requires reading only the center cross hair.)
- Distance (D) calculation:

```
D = (High Stadia - Low Stadia) x 100
```

ex:

High Stadia = 8.87

 $D = (8.87 - 8.29) \times 100$ 

Low Stadia = 8.29

D = 58.0

- Check the accuracy of your readings as you survey. An acceptable error is .01 feet difference between calculations per siting.
- Check Readings: high mid = mid low

### 5.6 Bench Marks

- Clearly note the location and type of the bench mark used for each survey. The location should be marked permanently in the field so that it may be reused.
- If an existing bench mark with a known elevation is within a reasonable distance of the site, the surveyors should attempt to use it as the bench mark for the survey. possible existing bench marks are sewer manhole rims, storm drains, USGS (from topo map)
- If there is no known bench mark in the area, a bench mark must be created arbitrarily.
- Use the following guidelines for establishing an arbitrary bench mark:
  - a) use permanent physical features such as the corner of a pump island, a cement floor slab, manhole or sewer <u>rim.</u>
  - assign an elevation to the bench mark; if the nearest 10-foot contour is known, use it as the BM elevation; if the contour elevation is not known, assign an arbitrary elevation.
  - c) clearly note the location and elevation of the BM in the field and on all site plans.
  - d) DO NOT USE MONITORING OR RECOVERY WELLS AS BENCH MARKS.

### 5.7 Level Surveys

- When surveying wells, make certain to choose a survey point that can be used when gauging the well; if the top of the PVC casing is greater than 6 inches below the ground surface, do not use it as the survey point, instead use the lip or rim of the protective casing. Clearly note the survey point of each well in the survey notes.
- Obtain the following for each monitoring well survey location:
  - a) the elevation of the top of the well casing (T.O.C.):
  - b) the elevation of the lip or rim of the protective casing (T.O.R.)
- Permanently mark the survey point with paint or permanent marker.



- Place the rod on the survey point and hold it vertical; move it backwards and forwards to determine the most accurate reading.
- Calculate the elevation from the middle cross hair reading.
- Limit the number of times the instrument must be moved.
- After completing level readings at each set up, shoot back to two or more wells to close the level run.
- In a multiple-station survey, always shoot at least two known points for each station.
- Where there is a significant topographic change across a site, additional survey information will be required in order to document the ground surface elevation differences; this information is critical when drawing cross-sections and in planning trenching and infiltration gallery installations.
- Calculate elevations before moving instrument to determine if there are any irregularities or errors.

### 5.8 Turning Points

- A TP (turning point) is used when all of the survey points cannot be seen form one instrument position and the instrument must be moved.
- The TP essentially establishes a new bench mark from which a new height of instrument is calculated.
- A TP can be a permanent structure, a PK, the original BM or a well. (A PK is a surveyor's nail driven into the ground/asphalt to create a hub for the rod to rest upon.)
- Complete the following steps to create a TP:
  - take a FS (foresight) on the TP and record the measurement under the FS column in the field book;
  - b) the FS is subtracted from the HI (height of instrument) for the current instrument location to determine the elevation of the TP:
  - c) the instrument is then moved to a new location and leveled:
  - a BS (backsight) reading is taken to the TP and entered in the BS column in the field book;
  - e) the BS is added to the TP to determine the new HI elevation;
  - NOTE: the TP entry in the survey data in the field book will always have 4 entries: BS, FS, HI, and elevation.

### 5.9 Taping locations

- Use a tape to verify distances that were surveyed with the instrument.
- Obtain three measurements for each location.
- Pull the tape tightly between points being measured.
- Measure dimensions of buildings on site to confirm base maps.



### 7.0 EXCAVATION AND TRENCH SOIL SAMPLING

### 7.1 Purpose

Underground Storage Tank (UST) decommissioning requires documentation of soil conditions. If tank closure is accomplished by excavation, removal and destruction of the tanks and lines, collection of representative samples for subsequent analysis is imperative. Utilizing the following procedures enables Groundwater Technology to secure the best possible retrieval of observations and samples.

### 7.2 Equipment

- Field Book, standard Surveyor's, waterproof, 5" x 7"
- Pencils
- Clipboard
- 6' folding ruler
- 50' cloth or fiberglass tape with weight
- Interface probe
- PID or other organic vapor screening device
- Sampling jars with air-tight Teflon lids, brass liners, 2" dia. x 6" long
- Aluminum foil or Teflon tape
- Bailer
- Rags probe wipers
- Alconox solution, distilled water, and H<sub>2</sub>O
- Contract Documents, site plan, site sampling plan (QAPP), Site Safety Plan
- Lumber crayon or waterproof marking pen
- Safety equipment such as hard hat, appropriate footwear, respirator, goggles, ear plugs, gloves
- Copies of maps such as topographic or site vicinity
- Pocket knife
- Camera

### 7.3 Procedure

There are a number of preparations to be made by the Geologist/ Environmental Scientist before a site investigation begins. Attending to these preparations can increase the efficiency and quality of the work to be accomplished.

Before going into the field, each Geologist/Environmental Scientist should be completely familiar with the long and short term project objectives. He or she should review all of the available information about a site including site geology and the nature of the project. He or she should be familiar with all installation and sampling procedures that will be required.

It is the responsibility of the Project Manager to clearly describe the nature of each project and the amount of and type of work to be performed at a site. It is the responsibility of the Geologist/Environmental Scientist to make certain they understand what they are being asked to find out or do and, if they do not understand, then to ASK QUESTIONS.

The importance of communication <u>and</u> documentation cannot be stressed enough. What is <u>not</u> written down is often lost. What is written down and not pointed out may be inadvertently overlooked.



- 7.3.1 The principle reason for requiring excavation supervision is to acquire reliable information.
- 7.3.2 While supervising a tank or piping excavation, the Geologist should always make certain that accurate depth measurements are made by ruler and not by visually "eyeballing" the measurements.
- 7.3.3 Discrepancies between the excavator's statements of depth and the Geologist's should be immediately clarified by remeasurement so that the operator and the Geologist are in agreement.
- 7.3.4 Note strata changes that occur during excavation. Strata changes can be estimated by observing changes in color, soil-type, or the ease of excavation.
- 7.3.5 Photographic records of site conditions are an important tool for filling in narrative discussion. Do not hesitate to take pictures of all site activities before, during, and after. Label and record each photograph in your field notes according to procedures similar to section 7.4.1 (b).

### 7.4 Sample Collection Methods

- 7.4.1 The following information must be kept during the sampling events:
- (a) A sketch of the site must be made which clearly shows all of the sample locations and identifies each location with a unique sample identification code.
- (b) Each soil and water sample must be clearly labeled with its sample identification code. A written record must be maintained which includes, but is not limited to: the date, time and location of the sample collection; the name of the person collecting the sample; how the sample was collected; and any unusual or unexpected problems encountered during the sample collection which may have affected the sample integrity.
- (c) Formal chain-of-custody records must be maintained for each sample.
- 7.4.2 If soil samples cannot be safely collected from the excavation, a backhoe may be used to remove a bucket of native soil from each of the sample areas. The soil is to be brought rapidly to the surface where samples are to be immediately taken from the soil in the bucket.
- 7.4.3 The following procedures must be used for the collection of soil samples from open pits or trenches:
  - (a) Just prior to collecting each soil sample, approximately three inches of soil must be rapidly scraped away from the surface of the sample location.
  - (b) To minimize the loss of volatile materials, it is recommended that samples be taken using a driven-tube type sampler. A clean brass or stainless steel tube of at least one inch in diameter and three inches in length may be used for this purpose. The tube should be driven into the soil with a suitable instrument such as a wooden mallet or hammer.
  - (c) The ends of the sample-filled tube must be immediately covered with clean aluminum foil or Teflon<sup>R</sup> tape. The foil must be held in place by plastic end caps which are then sealed onto the tube with a suitable tape.





### STATE OF WASHINGTON

### DEPARTMENT OF ECOLOGY

Northwest Regional Office, 3190 - 160th Ave S.E. • Bellevue, Washington 98008-5452 • (425) 649-7000

March 24, 1999

Harriet Barret 2400 East Helen St. Seattle, Washington 98144

Dear Mrs. Barret

Re: Independent Remedial Action

Barret Property 416 Rainier Avenue South, Seattle, WA.

Thank you for submitting the results of your independent remedial action(s) for review by the State of Washington Department of Ecology (Ecology). Ecology appreciates your initiative in pursuing this administrative option under the Model Toxics Control Act (MTCA).

Ecology's Toxics Cleanup Program has reviewed the following information regarding the former Barret Property located at 416 Rainier Avenue South, Seattle, Washington:

- Report of Permanent UST Decommissioning and Closure at the Barret Property 416 Rainier Avenue South, Seattle, WA.: October 14, 1998; Flour Daniel GTI.
- Request for Review of Completed Cleanup at the Barret Property 416 Rainier Avenue South Seattle, WA: October 21, 1998; Flour Daniel GTI.
- Addendum to "Review of Completed Cleanup at the Barret Property 416 Rainier Avenue South Seattle, WA: March 23, 1999; Flour Daniel GTI.

The report(s) listed above will be kept in the Central Files of the Northwest Regional Office (NWRO) of Ecology for review by appointment only. Appointments can be made by calling Sally Perkins at the NWRO at (425) 649-7190.

Based upon the information in the reports listed above, Ecology has determined that, at this time, the release of petroleum hydrocarbons into the soil and groundwater no longer poses a threat to human health or the environment.

Therefore, Ecology is issuing this determination that no further remedial action is necessary at this site under MTCA, chapter 70.105D RCW. However, please note that because your actions were not conducted under a consent decree with Ecology, this letter is written pursuant to RCW 70.105D.030(1)(i) and does not constitute a settlement by the state under RCW 70.105D.040(4) and is not binding on Ecology.

Harriet Barret March 23, 1999 Page 2

Ecology will update its Leaking Underground Storage Tank database to reflect this "No Further Action" determination. Your site will not appear in future publications of the LUST database.

The state, Ecology, and its officers and employees are immune from all liability and no cause of action of any nature may arise from any act or omission in providing this determination.

If you have any questions, please contact me at 425-649-4446.

Sincerely,

John Lillie

Toxics Cleanup Program

JTL:jtl

cc: Stan Haskins Flour Daniel GTI



I Corporation

555 South Renton Village Place, Suite 700 Renton, WA 98055-3295 Tel. 425.228.9645 Fas. 425.228.9793

A Member of The I'l Erung.

March 23, 1999

Mr. John Lilly Washington Department of Ecology 3190 160th Avenue SE Bellevue, WA 98008-4542 RECEIVED

MAR 2 1999

DEPT. OF EGOLOGY

RE:

Addendum to "Request for Review of Completed Cleanup at

The Barrett Property"

416 Rainier Avenue South Seattle, Washington

Dear Mr. Lilly:

IT Corporation (IT), on behalf of Harriet Barrett, is sending this Addendum to the letter "Request for Review of the Completed Cleanup at the Barrett Property", dated October 21, 1998. On March 1, 1999, IT collected a soil sample for Interim TPH analysis. The sample was collected from the petroleum impacted area located underneath the sidewalk bordering the western edge of the site (Figure 1). To ensure sample GB-1 was collected from the impacted soil interval identified in previous work it was taken at a depth of eight to nine feet below grade, from soil matching the lithology of the two previous soil samples impacted with TPH-G. Further, it was noted during collection that soil sample GB-1 had a petroleum odor.

Compounds analyzed by the Interim TPH method were not detected at or above the method reporting limit. A complete analytical breakdown can be found in the attached Laboratory report. This sample data limits the extent to which petroleum contaminated soil (PCS) could remain at the site to a very few cubic feet which we were unable to excavate due to the proximity of the sidewalk and a power pole.

Based on the GB-1 sample data and the information delineated in the previous letter we conclude that cleanup of petroleum hydrocarbons at the site has been achieved to the point that the Barrett Property warrants "No Further Action" status. Please call Stan Haskins at (425) 228-9645 if you have questions or comments.

Sincerely.

IT Corporation

Chris N. Storey

Tun Harfron for:

Staff Engineer

cc: John Barrett attachments

IT Corporation

Stan Haskins, R.G. Project Manager



In Corporation

555 South Renton Village Place, Suite 700 Renton, WA 98055-3295 Tel. 425.228.9645 Fux. 425.228.9793

A Member of The IT Group

Date: 3/23/97	Project:	Barrett	Fax Transmission
To: John 2,114 Location: WDOE 1			
Location: WDOE	VW		
Fax#:			
From: Stan Hast	10 12711797	s (including cover):	27
Originals to follow: Db	y mall	rier 🏻 🗇 fax only	
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		A	



IT Corporation

555 South Renton Village Place, Suite 700 Renton, WA 98055-3295 Tel. 425.228.9645 Fax. 425.228.9793

A Member of The IT Gampe

March 23, 1999

Mr. John Lilly Washington Department of Ecology 3190 160th Avenue SE Bellevue, WA 98008-4542

RE:

Addendum to "Request for Review of Completed Cleanup at

The Barrett Property"

416 Rainier Avenue South Seattle, Washington

Dear Mr. Lilly:

IT Corporation (IT), on behalf of Harriet Barrett, is sending this Addendum to the letter "Request for Review of the Completed Cleanup at the Barrett Property", dated October 21, 1998. On March 1, 1999, IT collected a soil sample for Interim TPH analysis. The sample was collected from the petroleum impacted area located underneath the sidewalk bordering the western edge of the site (Figure 1). To ensure sample GB-1 was collected from the impacted soil interval identified in previous work it was taken at a depth of eight to nine feet below grade, from soil matching the lithology of the two previous soil samples impacted with TPH-G. Further, it was noted during collection that soil sample GB-1 had a petroleum odor.

Compounds analyzed by the Interim TPH method were not detected at or above the method reporting limit. A complete analytical breakdown can be found in the attached Laboratory report. This sample data limits the extent to which petroleum contaminated soil (PCS) could remain at the site to a very few cubic feet which we were unable to excavate due to the proximity of the sidewalk and a power pole.

Based on the GB-1 sample data and the information delineated in the previous letter we conclude that cleanup of petroleum hydrocarbons at the site has been achieved to the point that the Barrett Property warrants "No Further Action" status. Please call Stan Haskins at (425) 228-9645 if you have questions or comments.

Sincerely,

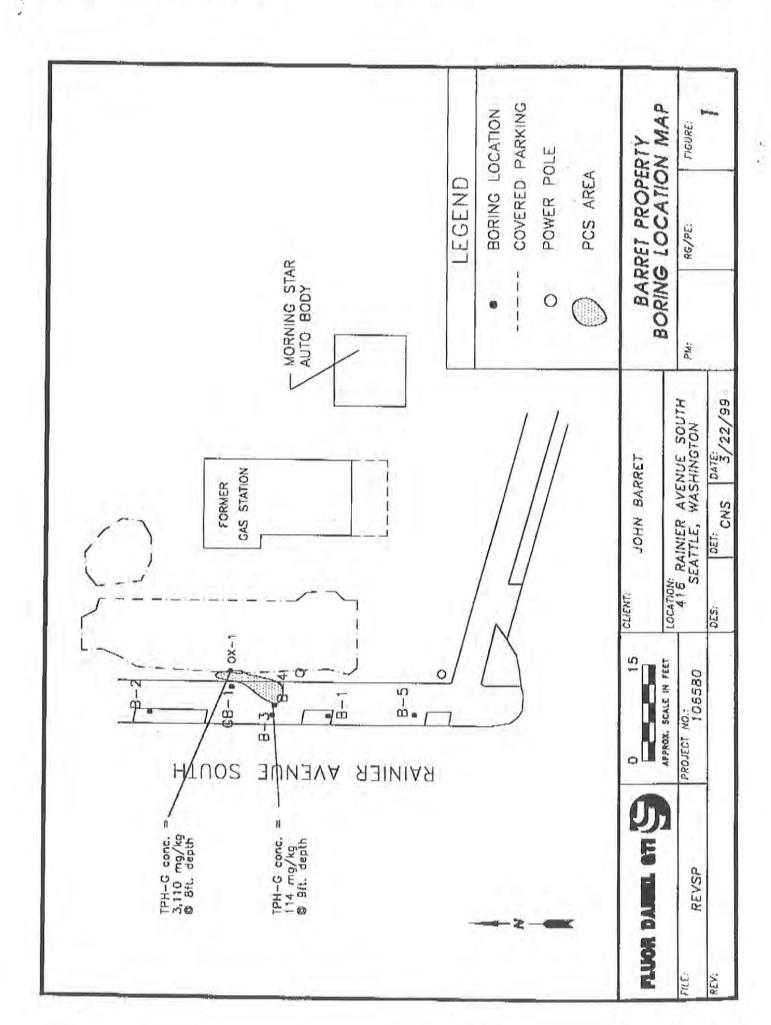
IT Corporation

tun Hartom for:

Chris N. Storey Staff Engineer

cc: John Barrett attachments IT Corporation

Stan Haskins, R.G. Project Manager





Seattle 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508 425.420.9200 fax 425.420.9710 East 11115 Montgomery, Suite B, Spekane, WA 99206-4776 508.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.908.9210 Bend 20354 Empire Avenue, Suite E-9, Bond, OR 97708-1883 541.383.9310 fex 541.382.7588

IT Corporation - Renton 555 South Renton Village Place, Ste 700

Project: Barrett

Sampled: 3/1/99 Received: 3/2/99

Renton, WA 98055

Project Number: 108314-60200000 Project Manager: Stan Haskins

Reported: 3/16/99 11:23

### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled	
GB-1	B903043-01	Soil	3/1/99	

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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.

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



Spettile 18939 12u... Avenue NE, Sulte 101, Botholl, WA 98011-9508 425.420.9200 fax 425.420.9210

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

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

Spokane

503,908,9200 fax 503,906,9210 20354 Empire Avenue, Suite E-9, Bend, DR 97708-1863 541.383.9310 fax 541.382.7588

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project:

Barrett

108314-60200000

Project Number: Project Manager: Stan Haskins

3/1/99 Sampled:

Received: 3/2/99

Reported: 3/16/99 11:23

### Volatile Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method North Creek Analytical - Bothell

ind. with	Batch	Date	Date	Surrogate	Reporting	man A		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GB-1			B9030	43-01			Soil	
C5-C6 Aliphatics	0390389	3/15/99	3/15/99	-10-17	5.00	ND	mg/kg dry	
C6-C8 Aliphatics	1.479.77	06			5.00	ND		
C8-C10 Aliphatics		146			5.00	ND	10	
C10-C12 Aliphatics		0	1.0-		5.00	ND	- 6-	
C8-C10 Aromatics		in.	, re		5.00	ND		
C10-C12 Aromatics	19		9		5.00	ND		
C12-C13 Aromatics		10	R		5.00	ND	10	
Surrogate: 4-BFB (FID)	"	ic	11	60.0-140		84.4	%	
Surrogate: 4-BFB (PID)	8	**	n	60.0-140		87.6	ů.	



Seattle 18939 120th Avenue NE, Suita 101, Bothell, WA 98011-9508 475.420.9200 1ax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 1ax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverron, DR 97008-7132 509.906.9200 1ax 503.906.9210

Spokane

Portland

20354 Empire Avenue, Suito E-9, Band, OR 97708-1883 541 383 9310 fox 541,382,7588

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Barrett

Project Manager: Stan Haskins

Project Number: 108314-60200000

Sampled: 3/1/99

Received: 3/2/99

Reported: 3/16/99 11:23

### BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS North Creek Analytical - Bothell

20000	Batch	Date	Date	Surrogate	Reporting	577		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GB-1			B9030	43-01			Soil	
Methyl tert-butyl ether	0390065	3/3/99	3/3/99		1.00	ND	mg/kg dry	
Benzene	0		9		0.100	ND		
Toluene	N.	0	0		0.100	ND		
Ethylbenzene	(4)	100			0.100	ND	ir	
m,p-Xylene	-0.	10	9		0.200	ND	0.0	
o-Xylene	0	in	9,		0.100	ND	0	
Naphthalene	100		ü		0.100	ND	9	
Surrogate: 2-Bromopropene	"	7,	- 0	70.0-130		91.6	%	****
Surrogate: 1,2-DCA-d4	"		**	70.0-130		81.4	"	
Surrogate: Toluene-d8	**	**	**	70.0-130		89.0	10	
Surrogate: 4-BFB	"	"	"	70.0-130		80.6	*	



Seattle 18939 120u, Avenuc NE, Suite 101, Bothell, WA 98011-9508 425.420.9200 fox 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99205-4776 509.924.9200 fax 509.924,9290 9405 SW Nimbus Avenuc, Beaverton, OR 97008-7132 503.905.9200 fax 509.905.9210 Bend 20354 Empire Avenuc, Suite E-9, Bend, OR 97708-1883 541.383.9310 fax 541.382.7588

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project:

Barrett

108314-60200000

Project Number: Project Manager: Stan Haskins Sampled:

3/1/99 Received: 3/2/99

Reported: 3/16/99 11:23

### Extractable Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
	- Tunious	rtoparcu	Matyzeo	Dimits	Limi	Reşun	Oillis	idote2.
GB-1			B9030	43-01			Soil	
C8-C10 Aliphatics	0390147	3/9/99	3/8/99	777	5.00	ND	mg/kg dry	
C10-C12 Aliphatics	in .		11		5.00	ND	"	
C12-C16 Aliphatics	10	16	11		5.00	ND	n	
C16-C21 Aliphatics	-0"	0.3	36		5.00	ND		
C21-C34 Aliphatics	ű.		n		5.00	ND	ii .	
C10-C12 Aromatics	(4)	**	3/13/99		5.00	ND	0	
C12-C16 Aromatics	0	**	31		5.00	ND	11	
C16-C21 Aromatics			10		5.00	ND	6	
C21-C34 Aromatics	10	10	0		5.00	ND	in the second	
Extractable Petroleum Hydrocarbons	ű.	à.	3/8/99		2,00	ND	11	
Surrogate: 2-FBP		· income	3/13/99	50.0-150		76.2	%	
Surrogate: Octacosane	"	*	3/8/99	50.0-150		64.5	"	
Surrogate: Undecane	n:		"	30.0-150		69.4	in .	



Seattla 18939 120m Avenue NE, Suite 101, Bothell, WA 98011-9508 425,420,9200 fax 425,420,9210 Eost 11115 Montgomery, Suite B, Spokene, WA 99206-4776 509,924,9200 fax 509,924,9290 9405 SW Nimbus Avenue, Beaverton, DR 97008-7132 503,906,9200 fax 503,906,9210 Eend 20354 Empire Avenue, Suite £-9, Bend, DR 97708-1863 541,383,9310 fax 541,382,7588

IT Corporation - Renton 555 South Renton Village Place, Ste 700 Renton, WA 98055

Project: Barrett

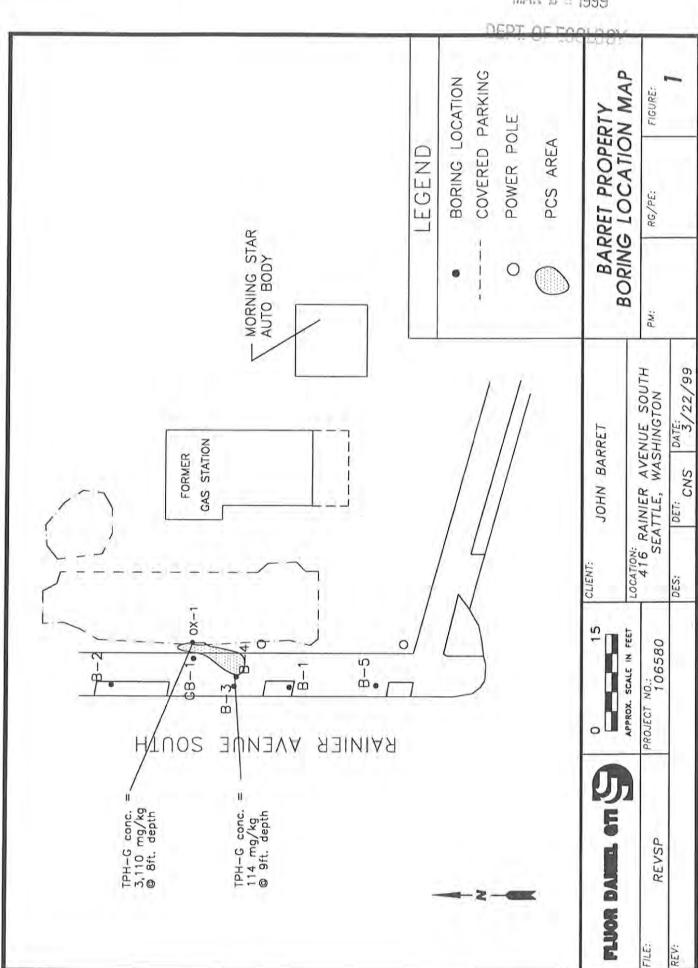
Project Number: 108314-60200000 Project Manager: Stan Haskins

Sampled: 3/1/99 Received: 3/2/99

Reported: 3/16/99 11:23

### Polynuclear Aromatic Hydrocarbons by GC/MS-SIM North Creek Analytical - Bothell

Analyte	Batch	Date	Date	Surrogate	Reporting			
Allaryte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GB-1			B9030	43-01			Soil	
Acenaphthene	0390147	3/9/99	3/12/99	22.0	0.0100	ND		
Acenaphthylene	1000	9			0.0100	ND	mg/kg dry	
Anthracene	iv.	39			0.0100	ND		
Benzo (a) anthracene		10.1	0.1					
Benzo (a) pyrene		ir			0.010.0	dИ		
Benzo (b) fluoranthene	. NO.				0.0100	ND		
Benzo (ghi) perylene	ō"		in .		0.0100	ND		
Benzo (k) fluoranthene			Ü.		0.0100	ND	4	
Chrysene					0.0100	ND	"	
Dibenz (a,h) anthracene			10		0.0100	ND		
Fluoranthene	Ü.				0.0100	ND	W.	
Fluorene					0.0100	ND	y	
	ï		3		0.0100	ND	9	
Indeno (1,2,3-cd) pyrene			1		0.0100	ND	0.	
2-Methylnaphthalene					0.0100	ND		
Naphthalene	w	in.			0.0100	ND	0	
Phenanthrene			*		0.0100	ND	10	
Pyrene	39.		96		0.0100	ND		
Surrogate: p-Terphenyl-d14	"	"		30.0-150		66.1	%	



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Portland

20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 541.383.9310 fax 541.382.7588

### DEPT, OF ECOLOGY

IT Corporation - Renton 555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Barrett

Project Number: 108314-60200000

Project Manager: Stan Haskins

Sampled: 3/1/99

Received: 3/2/99

Reported: 3/16/99 11:23

### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
GB-1	B903043-01	Soil	3/1/99

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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.

> North Creek Analytical, Inc. Environmental Laboratory Network

Page 1 of 12



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Spokane

9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 541.383.9310 fax 541.382,7588 Portland

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Barrett

Project Number:

108314-60200000

Project Manager: Stan Haskins

Sampled: 3/1/99

Received: 3/2/99

Reported: 3/16/99 11:23

### Volatile Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method North Creek Analytical - Bothell

And the second	Batch	Date	Date	Surrogate	Reporting		1,000	- 476
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GB-1			B9030	13-01			Soil	
C5-C6 Aliphatics	0390389	3/15/99	3/15/99		5.00	ND	mg/kg dry	
C6-C8 Aliphatics		0			5.00	ND		
C8-C10 Aliphatics	9.	40			5.00	ND	n.	
C10-C12 Aliphatics	•		0.0		5.00	ND	9	
C8-C10 Aromatics	•				5.00	ND	di	
C10-C12 Aromatics		- in	39		5.00	ND	ir.	
C12-C13 Aromatics		H.			5.00	ND	•	
Surrogate: 4-BFB (FID)	"	"	"	60.0-140		84.4	%	
Surrogate: 4-BFB (PID)		n	"	60.0-140		87.6	<i>n</i> .	

North Creek Analytical - Bothell

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

Joy B Chang, Project Manager



IT Corporation - Renton

Project: Barrett

Sampled: 3/1/99

555 South Renton Village Place, Ste 700

Project Number: 108314-60200000

Received: 3/2/99

Renton, WA 98055

Project Manager: Stan Haskins

Reported: 3/16/99 11:23

### BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS North Creek Analytical - Bothell

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Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
GB-1			B9030	43-01	18.00		Soil	
Methyl tert-butyl ether	0390065	3/3/99	3/3/99		1.00	ND	mg/kg dry	
Benzene	31	30			0.100	ND		
Toluene	50	6			0.100	ND		
Ethylbenzene	11				0.100	ND	. 10	
m,p-Xylene					0.200	ND	16	
o-Xylene	0	0.			0.100	ND		
Naphthalene	ii.	in.	•		0.100	ND	"	
Surrogate: 2-Bromopropene		"	"	70.0-130		91.6	%	
Surrogate: 1,2-DCA-d4		"	"	70.0-130		81.4		
Surrogate: Toluene-d8				70.0-130		89.0	"	
Surrogate: 4-BFB		"		70.0-130		80.6	**	
BACK SERVICE BY BY								

North Creek Analytical - Bothell

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

Joy B Chang, Pi ojech Mahager



1893. ... Avenue NE, Suite 101, Bothell, WA 98011-9508 475-420-9200 fax 425-420-9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509-924-9200 fax 509-924-9290 Seattle

Spokane

Portland

503.924.9200 1ax 503.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 1ax 503.906.9210 20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 541.383.9310 fax 541.382.7588 Bend

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project:

Barrett

Project Number: 108314-60200000

Project Manager: Stan Haskins

Sampled:

3/1/99

Received: 3/2/99

Reported: 3/16/99 [1:23

### Extractable Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method North Creek Analytical - Bothell

1. C. P. 10.	Batch	Date	Date	Surrogate	Reporting	177		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
an 4			20022	23.47			2011	
GB-1			B9030	43-01			Soil	
C8-C10 Aliphatics	0390147	3/9/99	3/8/99		5.00	ND	mg/kg dry	
C10-C12 Aliphatics	0	100	Ot -		5.00	ND	10	
C12-C16 Aliphatics	30	4	J.		5.00	ND	10	
C16-C21 Aliphatics	**	"	10		5.00	ND	10	
C21-C34 Aliphatics	30		0	*	5.00	ND		
C10-C12 Aromatics	.00		3/13/99		5.00	ND	0	
C12-C16 Aromatics	**		ii		5.00	ND	ir.	
C16-C21 Aromatics		94			5.00	ND		
C21-C34 Aromatics			· ·		5.00	ND	10	
Extractable Petroleum Hydrocarbons		0	3/8/99			ND		
Surrogate: 2-FBP		n	3/13/99	50.0-150		76.2	%	
Surrogate: Octacosane	"	e l	3/8/99	50.0-150		64.5	"	
Surrogate: Undecane	"	"	"	30.0-150		69.4	n	



18935 Avenue NE, Suite 101, Bothell, WA 98011-9508 425.420.9200 fax 425.420.9210 Seattle

Spokane

Portland

425.420.9200 fax 425.420.9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
ortland
9405 SW Nimbus Avenue, Beaverton, DR 97008-7132
503.906.9200 fax 503.906.9210

Bend 20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883
541.383.9310 fax 541.382.7588

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Project: Barrett

Sampled: 3/1/99

Renton, WA 98055

Project Number: 108314-60200000 Project Manager:

Received: 3/2/99

Stan Haskins

Reported: 3/16/99 11:23

### Polynuclear Aromatic Hydrocarbons by GC/MS-SIM North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GB-1			B9030	43-01			Soil	
Acenaphthene	0390147	3/9/99	3/12/99		0.0100	ND	mg/kg dry	
Acenaphthylene			0		0.0100	ND	"	
Anthracene	46		0		0.0100	ND		
Benzo (a) anthracene	ii.	97			0.0100	ND	9.	
Benzo (a) pyrene		9	ii.		0.0100	ND	**	
Benzo (b) fluoranthene	4				0.0100	ND		
Benzo (ghi) perylene	.9.	0.1			0.0100	ND		
Benzo (k) fluoranthene	8				0.0100	ND	9	
Chrysene	jii				0.0100	ND		
Dibenz (a,h) anthracene		ù.	H		0.0100	ND		
Fluoranthene			**		0.0100	ND		
Fluorene	(44)	0			0.0100	ND		
Indeno (1,2,3-cd) pyrene					0.0100	ND		
2-Methylnaphthalene	10				0.0100	ND	U#U	
Naphthalene	0.		0		0.0100	ND		
Phenanthrene	n.				0.0100	ND		
Pyrene	ir.	0	0		0.0100	ND		
Surrogate: p-Terphenyl-d14	"	"	"	30.0-150		66.1	%	



16. 20th Avenue NE, Suite 101, Bothell, WA 98011-95UJ 425.420.9200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.006.9200 fax 503.906.9210 20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 541.383.9310 fax 541.382.7588 Seattle

Spokane

Portland

Bend

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project:

Barrett

108314-60200000

Project Number: Project Manager: Stan Haskins Sampled: 3/1/99

Received: 3/2/99

Reported: 3/16/99 11:23

### Dry Weight Determination North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix	Result	Units
GB-1	B903043-01	Soil	84.3	%

North Creek Analytical - Bothell

Joy B Chang, Project

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

Page 6 of 12



1895. ...n Avenue NE, Suite 101, Bothell, WA 98011-9508 425-420.9200 fax 425-420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 Scattle

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503.924.3200 tax 503.924.930 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 tax 503.906.9210 20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 541.383.9310 fax 541.382.7588 Portland

Bend

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Barrett

Project Number: 108314-60200000

Project Manager: Stan Haskins Sampled: 3/1/99

Received: 3/2/99

Reported: 3/16/99 11:23

### Volatile Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method/Quality Control North Creek Analytical - Bothell

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Analyte	Analyzed	Leve	el Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0390389	Date Prepar	ed: 3/	15/99		Extractio	n Method: EP	A 5030B	(P/T)		
Blank	0390389-BL	KI	100					12-27		
C5-C6 Aliphatics	3/15/99			ND	mg/kg dry	5.00				
C6-C8 Aliphatics	W,			ND		5.00				
C8-C10 Aliphatics				ND	u .	5.00				
C10-C12 Aliphatics				ND	(90)	5.00				
C8-C10 Aromatics	*			ND	10	5.00				
C10-C12 Aromatics	4			ND	9	5.00				
C12-C13 Aromatics	tr .			ND	100	5.00				
Surrogate: 4-BFB (FID)	"	4.00	)	3.89	"	60.0-140	97.3			
Surrogate: 4-BFB (PID)	*	4.00	)	3.90		60.0-140	97.5			
LCS	0390389-BS	ı								
C5-C6 Aliphatics	3/15/99	2.00	O	1.83	mg/kg dry	70.0-130	91.5			
C6-C8 Aliphatics		1.00	o l	0.721	"	70.0-130	72.1			
C8-C10 Aliphatics		1.00	0	0.870		70.0-130	87.0			
C10-C12 Aliphatics		1.00	0	1.01		70.0-130	101			
C8-C10 Aromatics	90	4.00	)	3.96	*	70.0-130	99.0			
C10-C12 Aromatics		1,00	)	1.03	4	70.0-130	103			
C12-C13 Aromatics		2,00	)	2.64	ii .	70.0-130	132			1
Surrogate: 4-BFB (FID)	"	4.00	)	4.06		60.0-140	101	-		-
Surrogate: 4-BFB (PID)	W.	4.00	)	4.07	**	60.0-140	102			
Duplicate	0390389-DU	P1	B903043-01							
C5-C6 Aliphatics	3/15/99		ND	ND	mg/kg dry			25.0		
C6-C8 Aliphatics	9		ND	ND	"			25.0		
C8-C10 Aliphatics	A <del>t</del>		ND	ND	at.			25.0		
C10-C12 Aliphatics			ND	ND	36			25.0		
C8-C10 Aromatics	v		ND	ND	16			25.0		
C10-C12 Aromatics			ND	ND	W.			25.0		
C12-C13 Aromatics	4.		ND	ND				25.0		
Surrogate: 4-BFB (FID)	,n	4.75		4.42	"	60.0-140	93.1			
Surrogate: 4-BFB (PID)	**	4.75		4.57		60.0-140	96.2			
그는 일반으로 하다 하는 것이 없는 것은 집에 집에 집에 되었다.				1,47		TOTAL TILE TO	21.63.40			

North Creek Analytical - Bothell





18935 ... Avenue NE, Suite 101, Bothell, WA 98011-9508 425.420.9200 fax 425.470.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 Seattle 18935

Portland

20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 541,383,9310 fax 541,382,7588

IT Corporation - Renton

Project: Barrett

555 South Renton Village Place, Ste 700

108314-60200000

Sampled: 3/1/99

Renton, WA 98055

Project Number:

Received: 3/2/99

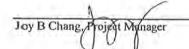
Project Manager: Stan Haskins

Reported: 3/16/99 11:23

### BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS/Quality Control North Creek Analytical - Bothell

a manage of	Date	Spike	Sample	QC	R	eporting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0390065	Date Prepa	red: 3/3/9	9		Extractio	n Method: EP	A 5030B	[MeOH]		
Blank	0390065-BI		7		and of the	1		1-1-11-		
Methyl tert-butyl ether	3/3/99	777		ND	mg/kg dry	1.00				
Benzene	4			ND		0.100				
Toluene	0			ND	û	0.100				
Ethylbenzene	ii .			ND	**	0.100				
m,p-Xylene	ii ii			ND	0	0.200				
o-Xylene	n.			ND	Or.	0.100				
Naphthalene	9			ND	9	0.100				
Surrogate: 2-Bromopropene	"	2.00		1.95	"	70.0-130	97.5			
Surrogate: 1,2-DCA-d4	"	2.00		1.96		70.0-130	98.0			
Surrogate: Toluene-d8		2.00		2.14	1.00	70.0-130	107			
Surrogate: 4-BFB	žė.	2.00		1.77	"	70.0-130	88.5			
LCS	0390065-BS	51								
Benzene	3/3/99	1.00	4	0.875	mg/kg dry	70.0-130	87.5			
Toluene	0	1.00		0.840	,	70.0-130	84.0			
Surrogate: 2-Bromopropene		2.00		1.89	"	70.0-130	94.5			
Surrogate: 1,2-DCA-d4	W.	2.00		1.84		70.0-130	92.0			
Surrogate: Toluene-d8	(A	2.00		1.91	"	70.0-130	95.5			
Surrogate: 4-BFB	"	2.00		1.66	"	70.0-130	83.0			
Matrix Spike	0390065-M	SI B	902473-04							
Benzene	3/3/99	1.12	ND	1.03	mg/kg dry	70.0-130	92.0			
Toluene	W 11/2 Pr	1.12	ND	0.915		70.0-130	81.7			
Surrogate: 2-Bromopropene	u	2.23		2.12		70.0-130	95.1			
Surrogate: 1,2-DCA-d4	yk.	2.23		2.08	**	70.0-130	93.3			
Surrogate: Toluene-d8	ii.	2.23		2.03	**	70.0-130	91.0			
Surrogate: 4-BFB		2.23		1.91	"	70.0-130	85.7			
Matrix Spike Dup	0390065-M	SD1 B	902473-04							
Benzene	3/3/99	1.12	ND	1.03	mg/kg dry	70.0-130	92.0	20.0	0	
Toluene	9	1.12	ND	1.06		70.0-130	94.6	20.0	14.6	
Surrogate: 2-Bromopropene	W	2.23		1.94	- "	70.0-130	87.0			
Surrogate: 1,2-DCA-d4	ii.	2.23		1.85	"	70.0-130	83.0			
Surrogate: Toluene-d8	ii.	2.23		2.19	**	70.0-130	98.2			
Surrogate: 4-BFB	vi.	2.23		1.82	**	70.0-130	81.6			

North Creek Analytical - Bothell





1893t ... a Avenue NE, Suite 101, Bothell, WA 98011-9508 425-420,9200 fax 425,420,9210 East 11115 Montgomery, Suite B. Spokane, WA 99206-4776 509,924,9200 fax 509,924,9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503,906,9200 fax 503,906,9210 Seattle

Spokane

Portland

20354 Empire Avenue, Suite E-9, Bend, OR 97708-18B3 541.383.9310 fax 541.382.7588

IT Corporation - Renton

Project; Barrett Sampled: 3/1/99

555 South Renton Village Place, Ste 700

108314-60200000 Project Number:

Received:

3/2/99

Renton, WA 98055

Project Manager:

Stan Haskins

Reported: 3/16/99 11:23

### Extractable Petroleum Hydrocarbons by modified WDOE Interim TPH Policy Method/Quality Control North Creek Analytical - Bothell

	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0390147	Date Prepa	red: 3/4/99			Extraction	on Method: EP	A 3550B			
Blank	0390147-BI	K1								
C8-C10 Aliphatics	3/13/99			ND	mg/kg dr	y 5.00				
C10-C12 Aliphatics	W			ND		5.00				
C12-C16 Aliphatics	U.			ND	16	5.00				
C16-C21 Aliphatics				ND		5.00				
C21-C34 Aliphatics	· u			ND	.0	5.00				
C10-C12 Aromatics	3/8/99			ND	JC.	5.00				
C12-C16 Aromatics				ND		5.00				
C16-C21 Aromatics	0			ND		5.00				
C21-C34 Aromatics	ir i			ND		5.00				
Extractable Petroleum Hydrocarbons	0.			ND	0					
Surrogate: 2-FBP	- 64	12.0		9.90	"	50.0-150	82.5			
Surrogate: Octacosane	3/13/99	12.3		10.7	"	50.0-150	87.0			
Surrogate: Undecane	u	13.3		9.72	"	30.0-150	73.1			
LCS	0390147-BS	31								
Extractable Petroleum Hydrocarbons	3/8/99	167		138	mg/kg dr	y 30.0-120	82.6			
Surrogate: 2-FBP	**	12.0		7.79	"	50.0-150	64.9			
Surrogate: Octacosane	3/12/99	12.3		14.2	"	50.0-150	115			
Surrogate: Undecane		13.3		10.9	**	30.0-150	82.0			
LCS Dup	0390147-BS	D1								
Extractable Petroleum Hydrocarbons	3/8/99	167		123	mg/kg dr	y 30.0-120	73.7	40.0	11.4	
Surrogate: 2-FBP	"	12.0		8.49	"	50.0-150	70.7			
Surrogate: Octacosane	"	12.3		6.23	"	50.0-150	50.7			
Surrogate: Undecane	"	13.3		10.5	n	30.0-150	78.9			
Matrix Spike	0390147-M	SI B9	02408-16							
Extractable Petroleum Hydrocarbons	3/8/99	194	3760	3640	mg/kg dr	y 30.0-120	NR			2
Surrogate: 2-FBP	"	14.0		10.4	"	50.0-150	74.3			
Surrogate: Octacosane	**	14.3		ND	"	50.0-150	NR			3
Surrogate: Undecane		15.4		11.1		30.0-150	72.1			

North Creek Analytical - Bothell

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

Joy B Chang, Project Manager



Seattle 189... "Oth Avenue NE, Suite 101, Bothell, WA 98011-9508 425.420.9200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spekane, WA 99206-4776 509.924.9200 fax 509.924.9290 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

Portland

20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 541.383.9310 fax 541.382.7588

IT Corporation - Renton

Project:

Barrett

3/1/99 Sampled:

555 South Renton Village Place, Ste 700

Project Number:

108314-60200000

Received: 3/2/99

Renton, WA 98055

Project Manager: Stan Haskins

Reported: 3/16/99 11:23

### Polynuclear Aromatic Hydrocarbons by GC/MS-SIM/Quality Control North Creek Analytical - Bothell

and a	Date	Spike	Sample	QC		Reporting Limit		RPD	RPD	B. I. A.
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0390147	Date Prepa	red: 3/4/9	9		Extract	ion Method: EP	A 3550B			
Blank	0390147-BI				2233,1133					
Acenaphthene	3/9/99	SOLD.		ND	mg/kg d	ry 0.0100				
Acenaphthylene	2, 3, 3, 3			ND	11	0.0100				
Anthracene				ND		0.0100				
Benzo (a) anthracene				ND		0.0100				
Benzo (a) pyrene	.0			ND		0.0100				
Benzo (b) fluoranthene	36			ND		0.0100				
Benzo (ghi) perylene	00			ND	44	0.0100				
Benzo (k) fluoranthene	ú.			ND		0.0100				
Chrysene				ND		0.0100				
Dibenz (a,h) anthracene	81			ND		0.0100				
Fluoranthene	#			ND		0.0100				
Fluorene	in			ND		0.0100				
Indeno (1,2,3-cd) pyrene				ND	C90	0.0100				
2-Methylnaphthalene	4			ND	**	0.0100				
Naphthalene				ND	W	0.0100				
Phenanthrene	i di			ND		0.0100				
Pyrene	iii			ND	**	0.0100				
Surrogate: p-Terphenyl-d14		0.267		0.224	"	30.0-150	83.9			
Blank	0390147-BI	K2								
Acenaphthene	3/12/99	JILL.		ND	mg/kg d	ry 0.0100				
Acenaphthylene	0			ND	mg/kg o	0.0100				
Anthracene				ND		0.0100				
Benzo (a) anthracene				ND		0.0100				
Benzo (a) pyrene				ND		0.0100				
Benzo (b) fluoranthene					ii.					
Benzo (ghi) perylene	V.			ND		0.0100				
Benzo (gni) peryiene Benzo (k) fluoranthene				ND	F.,	0.0100				
	a a			ND		0.0100				
Chrysene	Ü			ND		0.0100				
Dibenz (a,h) anthracene	, ä			ND		0.0100				
Fluoranthene	Ÿ.			ND		0.0100				
Fluorene	T.			ND		0.0100				
Indeno (1,2,3-cd) pyrene	S.			ND	3	0.0100				
2-Methylnaphthalene	1.			ND	15	0.0100				
Naphthalene	- 1 (M			ND	00	0.0100				
Phenanthrene	"			ND	*	0.0100				
Pyrene	u u			ND		0.0100				

North Creek Analytical - Bothell

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

Joy B Chang, Project Manager



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Spokane

Portland

503.924.3205 Nimbus Avenue, Beaverton, DR 97008-7132 503.906.9200 fax 503.906.9210 20354 Empire Avenue, Suite E-9, Bend, DR 97708-1883 541.383.9310 fax 541.382.7588

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Project: Barrett Sampled: 3/1/99

Project Number:

108314-60200000

Received: 3/2/99

Renton, WA 98055

Project Manager: Stan Haskins

Reported: 3/16/99 11:23

### Polynuclear Aromatic Hydrocarbons by GC/MS-SIM/Quality Control North Creek Analytical - Bothell

5 65	Date	Spike	Sample	QC	Re	porting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Blank (continued)	0390147-В	LK2								
Surrogate: p-Terphenyl-d14	3/12/99	0.267		0.214	mg/kg dry	30.0-150	80.1			
LCS	0390147-В	S2								
Chrysene	3/12/99	0.333		0.290	mg/kg dry	10.0-125	87.1			
Fluorene		0.333		0.291		11.0-116	87.4			
Indeno (1,2,3-cd) pyrene	- 10	0.333		0.316	· u	10.0-147	94.9			
Surrogate: p-Terphenyl-d14	"	0.267		0.197	"	30.0-150	73.8			
LCS Dup	0390147-В	SD2								
Chrysene	3/12/99	0.333		0.311	mg/kg dry	10.0-125	93.4	28.0	6.98	
Fluorene		0.333		0.292		11.0-116	87.7	32.0	0.343	
Indeno (1,2,3-cd) pyrene		0.333		0.345	à.	10.0-147	104	34.0	9.15	
Surrogate: p-Terphenyl-d14	"	0.267		0.213	"	30.0-150	79.8			
Matrix Spike	0390147-M	IS2 B	903043-01							
Chrysene	3/12/99	0.396	ND	0.382	mg/kg dry	10.0-125	96.5			
Fluorene	A CONTRACTOR	0.396	ND	0.320	"	10.0-154	80.8			
Indeno (1,2,3-cd) pyrene	ii ii	0.396	ND	0.419	· v	10.0-144	106			
Surrogate: p-Terphenyl-d14	*	0.316		0.259	"	30.0-150	82.0			



18. Juh Avenue NE, Suite 101, Bothell, WA 98011-9508 425.420.9200 fax 425.420.9210 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210 Seattle

Portland

20354 Empire Avenue, Suite E-9, Bend, DR 97708-1883 541.383.9310 [ax 541.382.7588

IT Corporation - Renton

555 South Renton Village Place, Ste 700

Renton, WA 98055

Project:

Barrett

108314-60200000

Project Number: Project Manager: Stan Haskins Sampled: 3/1/99

Received: 3/2/99

Reported: 3/16/99 11:23

### Notes and Definitions

#	Note
i	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
2	Analyses are not controlled on matrix spike RPD and/or percent recoveries when the sample concentration is significantly higher than the spike level.
3	Due to interference from coeluting organic compounds with the primary surrogate, results of the secondary surrogate have been used to control the analysis.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical - Bothell

Joy B Chang,



18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 East 11115 Montgomery, Suite B. Spokane, WA 99206-4779

FAX 420-9240 FAX 924-9290 (425) 420-9200 (509) 924-9200

FAX 906-9210 (503) 906-9200

B903043

Work Order #

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NOV 04 1998 DEPT. OF ECOLOGY

October 21, 1998

Washington Department of Ecology Independent Report Review 3190 160th Avenue SE Bellevue, WA 98008-4542

RE:

Request for Review of Completed Cleanup at The Barrett Property

416 Rainier Avenue South Seattle, Washington

Dear Sir or Madam:

Fluor Daniel GTI (FDGTI), on behalf of Harriet Barrett, is requesting review of the completed cleanup activities under the WDOE Voluntary Cleanup Program (VCP) for the above-referenced site. Enclosed with this letter report is a copy of "Permanent UST Decommissioning and Closure at the Barrett Property 416 Avenue South", receipts for soil disposal, a VCP Request for Assistance Form, VCP Site Summary, and a check for \$500.

### Background

The site is located in a mixed residential and commercial area in Seattle, Washington east of Rainier Avenue South and north of King Street. The site is situated in the northwest quarter of the northwest quarter of Section 4, Township 24 North, Range 4 East. Topographically, the site slopes to the south. The site was a former gas station. Historically, leaded fuels and kerosene have been stored and dispensed at the site. The former underground storage tank system included two 3,000-gallon and one 1,000-gallon steel tanks and the associated subgrade piping.

In August, 1998 the UST and subgrade equipment was decommissioned and removed by Joe Hall Construction. The USTs were intact and in good condition except for the 1,000 gallon tank on the north end of the property, which showed evidence of rusting and pitting. Two excavations were completed to remove Petroleum contaminated soil (PCS) from the site.

Based on laboratory results, approximately 400 cubic yards of soil was removed from the site. The two excavations were 8 to 15 feet deep and extended down to the top a very dense glacial till. Of the 17 soil samples collected at the excavation extents, only one failed to meet the Washington State Department of Ecology (WDOE) Method A Compliance Cleanup Levels (CCL(a)s). Confirmation soil sample OX-1, collected along the western sidewall of the excavation, contained a reported total petroleum hydrocarbons-as-gasoline (TPH-G) concentration exceeding the CCL(a) (Figure 3). A water sample TP-2W collected from the northern tank pit contained benzene, toluene, ethylbenzene, xylene, and TPH-G concentrations exceeding the CCL(a)s. No water was encountered in the larger and deeper of the two excavations.

### Site Assessment Soil Borings

A site assessment was completed at the site on September 17, 1998 to define the limits of PCS along Rainier Avenue South. During the investigation five soil borings up to 13 feet deep were drilled by Transglobal Environmental Geosciences Northwest Inc. (TEG) using mobile soil probe equipment. The borings were drilled along Rainier Avenue South west of the former excavation (Figure 3). The boring locations and depths were chosen based on their proximity to earlier sample locations where PCS had been confirmed. Soil samples were collected between 6 and 13 feet below grade to investigate the horizon represented by sample OX-1. The borings were driven into the glacial till observed during PCS excavation. Approximately 6 to 18 inches of moist to wet soil was encountered in each of the borings just above the glacial till, however the glacial till itself was dry.

Eleven soil samples were submitted to North Creek Analytical for BTEX and TPH-G analysis. Only one soil sample, B-4B, had an analyte concentration reported above CCL(a)s. Sample B-4B was collected at a depth of nine feet below grade and approximately ten feet southwest of sample OX-1. TPH-G was the only analyte reported above the CCL(a) at a concentration of 114 milligrams per kilogram. A complete listing of the analytical results from the assessment soil borings is shown in Table 1.

### Discussion

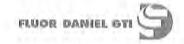
It appears that approximately 5-6 cubic yards of PCS containing TPH-G may remain in place along Rainier Avenue South. This soil is located in a 6 by 15 foot area in between samples OX-1 and B-4B in an 18 inch layer of soil at an approximate depth of eight feet below grade.

Groundwater was encountered at the site, but appears to be limited both areally and in quantity to local perched horizons resting on the glacial till. This assertion is supported by the fact that the large excavation at the site, which was 15 feet deep and extended to the top of the till, did not encounter water even though an 8 foot deep excavation 10 feet east collected some water. Further, during assessment drilling the glacial till was dry in each of five borings, although the soil immediately above it was moist to wet.

### Recommendations

Fluor Daniel GTI believes that no further actions are necessary at the subject site. The following list summarizes the data which supports our position:

- The underground storage tank system and subgrade piping, has been removed.
- Approximately ninety nine percent (389 out of 395 cubic yards) of the petroleum hydrocarbon mass has been mitigated by excavation.
- Petroleum impacted soil remaining along Rainier Avenue South is confined to an area approximately 6 by 15 feet in the vicinity of the samples OX-1 and B-4B. This constitutes an approximate soil volume of 5 to 6 cubic yards. Soil samples from this area did not contain detectable concentrations of BTEX.



- Although groundwater did accumulate briefly in one excavation and was impacted, the quantity
  was so small and limited in extent that an excavation open for seven days and seven feet deeper
  did not accumulate water.
- A review of WDOE records indicated that there are no drinking water wells within one mile of the subject property.

Based on this information FDGTI concludes that cleanup of petroleum hydrocarbons at the site has been achieved and that the Barrett Property warrants "No Further Action" status. Please call Stan Haskins at (425) 228-9645 if you have questions or comments.

Sincerely,

Fluor Daniel GTI

11/ NO

Chris N. Storey Associate Engineer

attachments

Fluor Daniel GTI

Stan Haskins, R.G. Project Manager

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Washington State - Department of Ecology - Toxics Cleanup Program

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Which of the following apply? Requesting assistance on a planned cleanup.  Requesting assistance on a ongoing cleanup.  Requesting review of a completed cleanup.  Requesting review of a completed cleanup.  Requesting review of a completed cleanup.  Note: If you submitted your Request for Assistance (ECY 020-74) previously without a Site Summary (this form) or this is a revised Site Summary, please provide this completed form to Ecology at least five (5) working days prior to the meeting/site visit/documentation review (whichever comes first).  A) Site Identification:  Name of Site:  Barret property  Alternate Name(s) for Site:  Street Address of Site:  416 Rainier Avenue South  City:  Seattle  State:  WA Zip:  County:  King  Walling Address (if different from above):  City:  State:  Zip:  Township 24N Range 4E Section 4 Quarter-Quarter NW-NW  If known:  Latitude:  Degree  Minute  Second  Method Used tp calculate Lat/Long:  How large (in Acres) is the site?  Less than 1/4 acre  Please attach two maps to this form.  1) An area map, showing general location of the site in relation to surrounding bodies of water, ities, highways, and streets. (Please mark site location.)  2) A site diagram showing surrounding cross-streets, labeled building outlines, sampling and well locations, etc  3) Person/Organization making request for Assistance/Review:  Name:  Stan Haskins  Tim:  Fluor Daniel GTI  Itreet Address: 555. S. Renton Village Place, Suite 700  State:  WA Zip: 98055	his summary is a required component of your request for assistance under the Voluntary Cle	anun Program
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aminant  pric  TPH=G  Benzene  TPH=D  TPH=O	Class (for Office Use)	Pounds of C Incinerated	ontaminant:  Washed Re    Ap   Ap     Ap   Ap     Ap   Ap     Ap   Ap	moved  a0 pr.3519 pr.0.66 pr.153 pr.60	Treated	Of the clea	e the quant
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METHODS/TREATMENTS USED	SOIL	GROUNDWATER	SURFACE	DRINKING	AIR	WASTES
Method A	X	X				
Method B						
Method C						
Have these levels been met throughout the site? Y or N	N	N				
Destruction or Detoxification						
Carbon Adsorption <sup>1</sup>	NA					NA
Biological Treatment					NA	
Chemical Destruction						
Incineration		NA	NA	NA		
'Carbon followed by regeneration; use of granular activated c	d carbon f	arbon followed by landfilling would be classified in these tables as volume reduction and off-site	ould be classifie	d in these tables	as volume	reduction and off-
Media Transfer						
Air Stripping/Air Sparging	NA					NA
Aeration/Vapor Extraction		- NA	AN	NA	NA	
Thermal Desorption		NA	NA AN	NA		NA
Immobilization						
Vitrification		NA	NA	NA		
Solidification/Stabilization		NA	NA	NA		
Reuse/Recycling <sup>2</sup>						
Specify						
For example, reuse of free petroleum product recovered in a		pump and treat system.		1		
Separation/Volume Reduction						
Solvent Extraction		NA	NA	NA	*	
Soll Washing		NA	NA	NA		
Physical Separation <sup>3</sup>						
For example, oil/water separators.						
Land Disposal/Containment						
Containment or On-site Landfill	X		NA			
Off-site Landfill		NA	NA	NA		
Institutional Controls						
Specify						
Others						
Specify Treatment Method						+

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E)	Documentation:	
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Property Type			Industrial				
roperty currently	being used	i? _ x _ y	Yes No	)			
lans for change in	use?	_Yes X	No If yes	s, please s	pecify:		
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Type (code) of Owner/Operator (for below):
Private(1) Municipal(2) County (3) Federal (4) State(5) Tribal(6) Mixed(7) Other (8) Unknown (9) Public Entity Acquisition via Bankruptcy (10) Financial Institution Acquisition via Bankruptcy (11)

1) Current Site Own	ner: Harriet	Barret			Type: _1
Street Address:	East Hele	en	de de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya della companya della companya de la companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya della companya del		
City:	Seattle	State:	WA	Zip:	98122
Contact Person (if d	ifferent than ow	mer, above):		- 17.18(3.5	
Street Address:	A director Deli				
City:		State:		7in	
Telephone Number:	()		Extension:		
Fax Number: (	)		E-Mail Address	V	
Dates of Ownership:		to			
2) Current Facility C	LECTION .		0		La Co
Street Address:	perator:				Type:
Sueet Address.		6		5 1007	***
Contact Person GC 4		State: _		Zip:	
Street Address:	merent than ope	erator, above)			
City:		State:			
Telephone Number	( )	State	Extension:	_ Zip.	
Fax Number: (	)''-		E-Mail Address:		
Dates of Operation:		to	D-Iviali Address.		
3) Former Site Owner	er:				Tyme
Street Address:				_	Type
City:		State:		7in:	
Contact Person (if di	fferent than ow	mer shove):		_ Zip.	
Street Address:	and one than ow	ner, above)		_	·
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Telephone Number:	( )	State	Extension: E-Mail Address:	_ z.p.	
Fax Number: (	)`/		E-Mail Address:		
Dates of Ownership:					
A CONTROL NOT SERVICE					•
4) Former Facility O	perator:				Туре:
Street Address:					туре
City:		State:		7in	
Contact Person (if di	fferent than one	erator above		_ Zip:	
C4 4 1 1 1		raior, above)			
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Dates of Operation:		to	E-Mail Address:		
operation.		10			

(Please photocopy and attach copie	s if additional	parties are involve	:d)	
1) Environmental Consultant:	Stan Haski	ns	C.	
Representing: Harriet Barre	t	-4		
Idoi Daniel Gil				
Street Address: 555 S. Renton	Village Pl	ace. #700		× %
orej. Kenton	Stata.	LIA	CY.	98055
Telephone Number: (425) 228-96	545	Extension:	Zip	30033
Telephone Number: (425) 228-90 Fax Number: (425) 228-9703		E-Mail Addre	, cc.	
2) Site Control Person if other than during normal working hours and is or a person who is available during r the remediations)  Name: Chris Storey	Owner/Opera authorized ar normal busine	ator. (This must be ad qualified to answ ss hours and has lo	a person w	ho is on-site
Relation to site/owner/operator: As Firm: Fluor Daniel GTI	soc. Engine	eer		
Street Address: 555				PH
Street Address: 555 S. Renton V	illage Plac	ce, #700		10-4
Kenton Kenton	State	TATA	7:	98055
Telephone Number: ( 425) 228-96 Fax Number: ( 425) 228-9793	45	Extension:		
Dates of Involvement with site: Aug	ust '98 to	present		
3)Name:				
Polation to site /				
Relation to site/owner/operator:				
Sueer Address.				
City:	State:		Zin:	
City: Telephone Number: () Fax Number: ()		Extension:		
Dates of Involvement with site:	to			
1)Name:				
Relation to site/owner/operator:				
Firm:				
Street Address:				
City:	C.			
Telephone Number: ()	State:	11217 - 001	Zip: _	
Fax Number: ( )		Extension:		
Dates of Involvement with site	44			

K) Other Involved Parties:



Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700 Renton, WA 98055

Project Number: 106580 Project Manager: Stan Haskins

Project: Barret Property

Sampled: 9/17/98 Received: 9/21/98

Reported: 9/28/98 13:11

### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled	
3-1B	B809515-01	Soil	9/17/98	
3-2B	B809515-02	Soil	9/17/98	
3-4B	B809515-03	Soil	9/17/98	
3-5B	B809515-04	Soil	9/17/98	
1-3A	B809515-05	Soil	9/17/98	
-1A	B809515-06	Soil	9/17/98	
-2A	B809515-07	Soil	9/17/98	
-2C	B809515-08	Soil	9/17/98	
-4A	B809515-09	Soil	9/17/98	
-4C	B809515-10	Soil	9/17/98	
-5A	B809515-11	Soil	9/17/98	

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.





Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700 Project: Barret Property
Project Number: 106580

Sampled: 9/17/98 Received: 9/21/98

Renton, WA 98055

Project Manager: Stan Haskins

Reported: 9/28/98 13:11

### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B North Creek Analytical - Bothell

- cultural	Batch	Date	Date	Surrogate	Reporting	15.7.7	Taylor	377
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes
B-1B			B8095	15-01			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	40	4	11		0.0500	ND	"	
Toluene	10	**	ar III		0.0500	ND	(9)	
Ethylbenzene	(46)	ta .	94		0.0500	ND	. H	
Xylenes (total)	0	**	11		0.100	ND	·	
Surrogate: 4-BFB (FID)	,,,	#	· · · · · · · · · · · · · · · · · · ·	50.0-150		102	%	
Surrogate: 4-BFB (PID)	in		. ii	50.0-150		96.5	n	
B-2B			B8095	15-02			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene		0"	Jr.		0.0500	ND		
Toluene					0.0500	ND	11	
Ethylbenzene	0		10		0.0500	ND	**	
Xylenes (total)		"	"		0.100	ND	(6)	
Surrogate: 4-BFB (FID)				50.0-150		102	%	
Surrogate: 4-BFB (PID)	)r	<i>n</i> .	<i>y</i> r.	50.0-150		96.0	n	
B-4B			B8095	15-03			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98		10.0	114	mg/kg dry	1
Benzene	4	0	90.00		0.100	ND	0	
Toluene	.16		11		0.100	ND	n.	
Ethylbenzene	30	**	,,		0.100	ND	**	
Xylenes (total)	W.		<i>H</i>		0.400	ND	**	2
Surrogate: 4-BFB (FID)	<i>n</i> .	"	"	50.0-150		137	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		103	"	
B-5B			B8095	15-04			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene					0.0500	ND		
Γoluene	"	10	a.		0.0500	ND		
Ethylbenzene			31.		0.0500	ND	,	
Xylenes (total)	"	i jiri	ir.		0.100	ND	"	
Surrogate: 4-BFB (FID)		"	"	50.0-150		104	%	
Surrogate: 4-BFB (P1D)	"	"	"	50.0-150		99.6	ii .	
B-3A			B80951	15-05			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/25/98	779	5.00	27.7	mg/kg dry	1
Benzene	0	0	ii.		0.0500	ND	,	

North Creek Analytical - Bothell





BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND \* (503) 906-9200 = FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700

Project: Barret Property

Sampled: 9/17/98

Renton, WA 98055

Project Number: 106580

Received: 9/21/98

Reported: 9/28/98 13:11

Project Manager: Stan Haskins

### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B North Creek Analytical - Bothell

10940	Batch	Date	Date	Surrogate	Reporting		- Kiron	3000
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes'
B-3A (continued)			B8095	15-05			Soil	
Toluene	0980726	9/23/98	9/25/98		0.0500	ND	mg/kg dry	
Ethylbenzene		**	71		0.0500	ND	"	
Xylenes (total)	0		10		0.100	ND	ů i	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		102	%	
Surrogate: 4-BFB (PID)	"	ir .	**	50.0-150		93.6		
B-1A			B8095	15-06			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98	-	5.00	ND	mg/kg dry	
Benzene	W. Carlotte	20,20,00	0		0.0500	ND	"	
Toluene	(ii)		ë.		0.0500	ND	0.	
Ethylbenzene	-0	ű	ir i		0.0500	ND	oi .	
Xylenes (total)	tr.		W.		0.100	ND	90	
Surrogate: 4-BFB (FID)	"		· · · · · · · · · · · · · · · · · · ·	50.0-150	0.100	102	%	
Surrogate: 4-BFB (PID)	"	ir.	**	50.0-150		92.7	,,	
B-2A			B80951	5-07			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98		5.00	ND	mg/kg dry	
Benzene	0		0		0.0500	ND	"	
Foluene	4				0.0500	ND	30	
Ethylbenzene	h.	- ii	W		0.0500	ND	a.	
Xylenes (total)			ii .		0.100	ND	·	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150	47.122	106	%	
Surrogate: 4-BFB (PID)	"	"	u	50.0-150		102	*	
B-2C			B80951	5-08			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98	and the	5.00	ND	mg/kg dry	
3enzene	m .		.11		0.0500	ND	"	
Foluene	96	. 0	9-		0.0500	ND	0	
Ethylbenzene		0.	1.8.		0.0500	ND		
Kylenes (total)		W.	W.		0.100	ND	10	
Surrogate: 4-BFB (FID)	.,		"	50.0-150		99.1	%	
Surrogate: 4-BFB (PID)	"	"	n	50.0-150		91.7	"	
3-4A			B80951	5-09			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98	- Constitution	5.00	ND	mg/kg dry	
Benzene	"	"	"		0.0500	ND	"	
Coluene	0	or .	n .		0.0500	ND	M	
Ethylbenzene	n.	n.			0.0500	ND		

North Creek Analytical - Bothell





BOTHELL = (425) 420-9200 = FAX 420-9210 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 906-9200 = FAX 906-9210

Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Project Number: 106580

Barret Property

Project Manager: Stan Haskins

Sampled: 9/17/98

Received: 9/21/98

Reported: 9/28/98 13:11

### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B North Creek Analytical - Bothell

	Batch	Date	Date	Surrogate	Reporting	100		
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
B-4A (continued)			B8095	15-09			Soil	
Xylenes (total)	0980726	9/23/98	9/24/98	The same	0.100	ND	mg/kg dry	
Surrogate: 4-BFB (FID)	"	#	"	50.0-150		90.6	%	-
Surrogate: 4-BFB (PID)	n	"	"	50.0-150		93.9	"	
B-4C			B8095	15-10		44	Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/25/98	- Daniel St.	5.00	ND	mg/kg dry	
Benzene	2000		9		0.0500	ND	"	
Toluene	0		9		0.0500	ND	N.	
Ethylbenzene	XI .		0		0.0500	ND	i ie	
Xylenes (total)	AL.	.00	n.		0.100	ND	THE	
Surrogate: 4-BFB (FID)		-6	,	50.0-150		93.4	%	
Surrogate: 4-BFB (PID)	**	"	**	50.0-150		94.8	11	
B-5A			B8095	15-11			Soil	
Gasoline Range Hydrocarbons	0980726	9/23/98	9/24/98	0.71	5.00	ND	mg/kg dry	
Benzene	A 200 A 7.35				0.0500	ND	ii and and	
Foluene -	.0	a a	0		0.0500	ND		
Ethylbenzene	AQ10	11	u		0.0500	ND	9	
Xylenes (total)	10				0.100	ND	ii.	
Surrogate: 4-BFB (FID)	7	"	"	50.0-150	5.100	96.2	%	
Surrogate: 4-BFB (PID)	**		ie .	50.0-150		93.9	"	

North Creek Analytical - Bothell





Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700

Renton, WA 98055

Project Number: 106580 Project Manager: Stan Haskins

Project: Barret Property

Sampled: 9/17/98

Received: 9/21/98

Reported: 9/28/98 13:11

### **Dry Weight Determination** North Creek Analytical - Bothell

Sample Name	Lab ID	Matrix		Result	Units
3-1B	B809515-01	Soil		87.9	%
3-2B	B809515-02	Soil		88.7	%
5-4B	B809515-03	Soil	12.	86.6	%
-5B	B809515-04	Soil		89,8	%
-3A	B809515-05	Soil		82.8	%
-1A	B809515-06	Soil		88.6	%
-2A	B809515-07	Soil		88.0	%
-2C	B809515-08	Soil		87.6	%
-4A	B809515-09	Soil		89.6	%
4C	B809515-10	Soil		90.6	%
-5A	B809515-11	Soil		89.8	%

North Creek Analytical - Bothell





Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700

Project: Barret Property

Sampled: 9/17/98

Renton, WA 98055

Project Number: 106580

Received: 9/21/98

Renton, WA 98055

Project Manager: Stan Haskins

Reported: 9/28/98 13:11

## Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B/Quality Control North Creek Analytical - Bothell

Angluta	Date	Spike	and the second second	QC		eporting Limit		RPD	RPD
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% Notes*
Batch: 0980726	Date Prepa	red: 9/2.	3/98		Extractio	n Method: EP.	A 5030B	(MeOH)	
Blank	0980726-B	LK1			V.3*			ACCESSED.	
Gasoline Range Hydrocarbons	9/24/98			ND	mg/kg dry	5.00			
Benzene				ND		0.0500			
Toluene				ND		0.0500			
Ethylbenzene	90			ND		0.0500			
Xylenes (total)	W.			ND		0.100			
Surrogate: 4-BFB (FID)	#	4.00		4.20	"	50.0-150	105		
Surrogate: 4-BFB (PID)	)	4.00		4.41		50.0-150	110		
LCS	0980726-BS	81							
Gasoline Range Hydrocarbons	9/24/98	25.0		21.0	mg/kg dry	70.0-130	84.0		
Surrogate: 4-BFB (FID)	"	4.00		4.69	"	50.0-150	117		
Duplicate	0980726-DI	JP1	B809503-07						
Gasoline Range Hydrocarbons	9/24/98		14.2	8.69	mg/kg dry	,		50.0	48.1
Surrogate: 4-BFB (F1D)	"	4.82	97.5	4.25	"	50.0-150	88.2	7,77.4	1000
Duplicate	0980726-DI	JP2	B809515-09						
Gasoline Range Hydrocarbons	9/24/98		ND	ND	mg/kg dry	,		50.0	
Surrogate: 4-BFB (FID)	"	4.46		4.55	"	50.0-150	102	-11/1-	*
Matrix Spike	0980726-M	S1 )	B809515-01						
Benzene	9/25/98	0.569	ND	0.477	mg/kg dry	60.0-140	83.8		
Toluene		0.569	ND	0.486		60.0-140	85.4		
Ethylbenzene		0.569	ND	0.473		60.0-140	83.1		
Xylenes (total)	10	1.71	ND	1.43		60.0-140	83.6		
Surrogate: 4-BFB (PID)		4.55		4.37	**	50.0-150	96.0		
Matrix Spike Dup	0980726-MS	SD1 1	3809515-01						
Benzene	9/25/98	0.569	ND	0.421	mg/kg dry	60.0-140	74.0	20.0	12.4
Toluene		0.569	ND	0.428	"	60.0-140	75.2	20.0	12.7
Ethylbenzene	1.0	0.569	ND	0.414		60.0-140	72.8	20.0	13.2
Xylenes (total)		1.71	ND	1.25		60.0-140	73.1	20.0	13.4
Surrogate: 4-BFB (PID)	"	4.55	4.77	3.91	"	50.0-150	85.9	a OID	

North Creek Analytical - Bothell





Fluor Daniel - GTI, Inc. - Renton 555 South Renton Village Place, Ste 700

Renton, WA 98055

Project: Bärret Property
Project Number: 106580

Project Manager: Stan Haskins

Sampled: 9/17/98

Received: 9/21/98 Reported: 9/28/98 13:11

### Notes and Definitions

Note
The chromatogram for this sample does not resemble a typical gasoline pattern. The sample appears to contain extractable diesel range hydrocarbon.
The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
Analyte DETECTED
Analyte NOT DETECTED at or above the reporting limit
Not Reported
Sample results reported on a dry weight basis
Recovery
Relative Percent Difference

North Creek Analytical - Bothell





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

## Work Order #

CHAIN OF CUSTODY REPORT

REPORT TO: FIVER DEALE!	ICTI		INVOICE TO: //	1		
ATTENTION: SIGN 1/1.5	Histors		ATTENTION:	W. Fman	UKNAKOUND KEQUEST in Business Days *	n Business Days *
ADDRESS: 557 5. L	<	V. 1 Jaco 21 2700	1	1	10 7 5 4 3	2 Sume
Renton, W.	50				nale & Hode	1
PHONE 425-228 -9645	FAX:	228-4783	P.O. NUMBER:	NCA QUOTE #;	3-4 2	Same I Same
PROJECT NAME: BGILLET	Property		Analysis	11111	Disputely (	
PROJECT NUMBER: 106,580	, D	8	Request: 1917	/////	OTHER	
SAMPLED BY: CNS /AC	ſ	3	1/2//2/	/////	* Turnaround Requests less than standard may incur Rush Charges.	I may incur Rush Charges.
CLIENT SAMPLE IDENTIFICATION	SAMPLING	NCA SAMPLE ID	1	////	MATRIX # 0F	
B-18	30:5	fun and fundament	XX		(W.S.A.U) CONTAINERS	COMMENTS
8-28	10:27					
36-48	11:28					
8-28	17:14					
R-34	95001					
B-14	DE36					Held
. B-34 ·	16:20					11010
\$ 0-2€ ·	16:32					1019
· K4-8.	11:19	V				1010
10 B-4C , 2	11:39	\			7	000
RELINQUISHED BY (dignaure)	11 How		DATE 7/10/7 RECEIVED BY LEGISLAND	BY Greenwer S. C. C. D.	TERMAN	DATE 9/19
PRINTNAME: CALL, S 1.	5 royer	FIRM: TOGIT	TIME: 9:30 PRINT NAME:	- Y	FIRME	TIME
	1			1111	127	

C

PAGE

DATE

RECEIVED BY 15s

DATE

RELINQUISHED BY CSyndowell

ADDITIONAL REMARKS;

COC Res 8, 1/46

PRINT NAME:

PRINT NAME:

TIME

FIRM:

TIME

FIRM:



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

# Work Order #

CHAIN OF CUSTODY REPORT

Same "Turnaround Requests less than standard may incur Rush Charges. TURNAROUND REQUEST in Business Days \* DATE Same DATE TIME TIME Fuels & Hydrocarbon Analyses Organic & Inorganic Analyses 3 5 3.4 CONTAINERS 1 TEPMA # OF OTHER Specify. FIRM FIRM 1 (W.S.A.0) MATRIX 10 Sandard 50; NCA QUOTE #: RECEIVED BY (Signature) RECEIVED BY (5) gra PRINT NAME: PRINT NAME: Ý, DATE 71-5/13 1 20 TIME J. J. INVOICE TO: DATE TIME ATTENTION: P.O. NUMBER: ADDRESS: Analysis Request: 901 7 425-228-973 (Laboratory Use Only) NCA SAMPLE ID FIRM FIRM: 10/01/1 SAMPLING DATE/TIME 7010 FAX REPORTTO: Floor Hangel (27 ] Dullet CLIENT SAMPLE IDENTIFICATION RELINQUISHED BY (Synamor) RELINQUISHED BY (Signature) 5 ADDITIONAL REMARKS; PROJECT NUMBER: PROJECT NAME: SAMPLED BY: PRINT NAME: ATTENTION: PRINT NAME: ADDRESS PHONE

PAGE 2 OF 2

### TABLE 1 SUMMARY OF LABORATORY RESULTS - SOIL BARRET PROPERTY 416 RAINIER AVENUE SOUTH SEATTLE, WASHINGTON

(Results in milligrams per kilogram) September 17, 1998

Sample ID	Sample Depth (feet bg)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-G
Metho	d Detection Limits	0,05	0.05	0.05	0.1	5
B-1A	10	<0.05	<0.05	<0.05	<0.1	<5
B-1B	12.5	<0.05	<0.05	<0.05	<0.1	<5
B-2A	6	<0.05	<0.05	<0.05	<0.1	<5
B-2B	8,5	<0.05	<0.05	<0.05	<0,1	<5
B-2C	12	<0.05	<0.05	<0.05	<0.1	<5
В-ЗА	8.5	<0.05	<0.05	<0.05	<0.1	27.7
B-4A	6	<0.05	<0.05	<0.05	<0.1	<5
B-4B	9	<0.05	<0.05	<0.05	<0.1	114
B-4C	10	<0.05	<0.05	<0.05	<0.1	<5
B-5A	9	<0.05	<0.05	<0.05	<0,1	<5
B-5B	12.5	<0.05	<0.05	<0.05	<0.1	<5
МТС	CA-CCL (a)	0.5	40	20	20	100

TPH-G

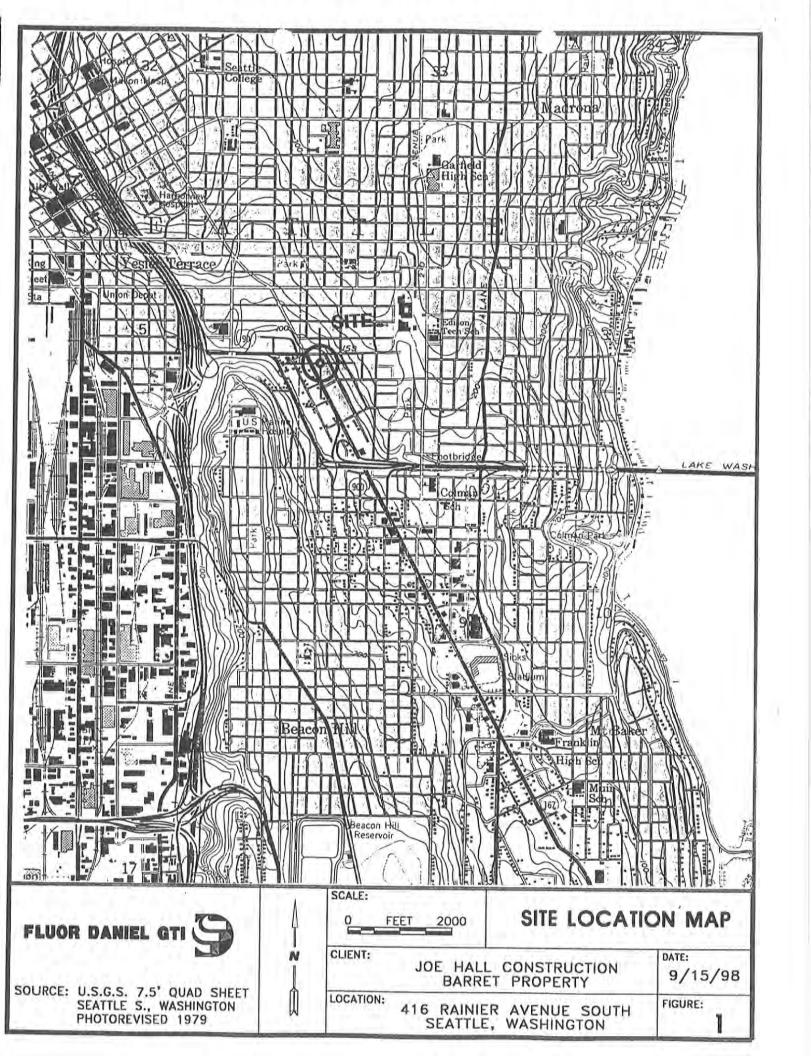
Total petroleum hydrocarbons-as-gasoline Model Toxics Control Act Method A Compliance Cleanup Level MTCA-CCL[a]

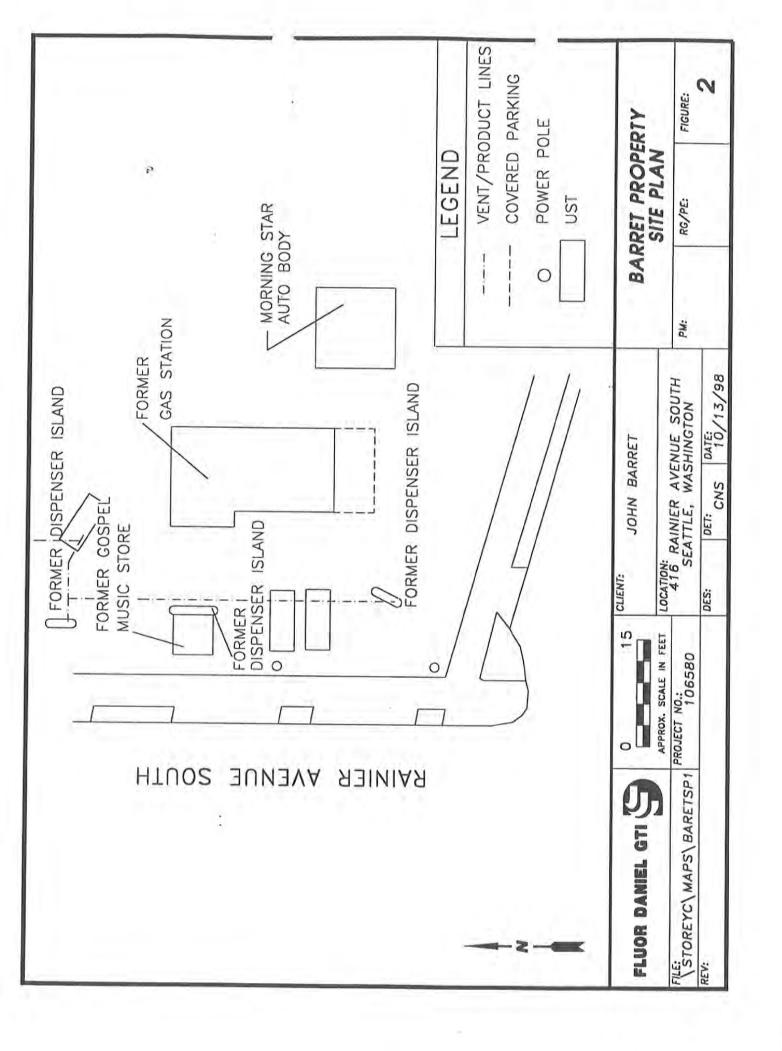
Less than the method detection limit

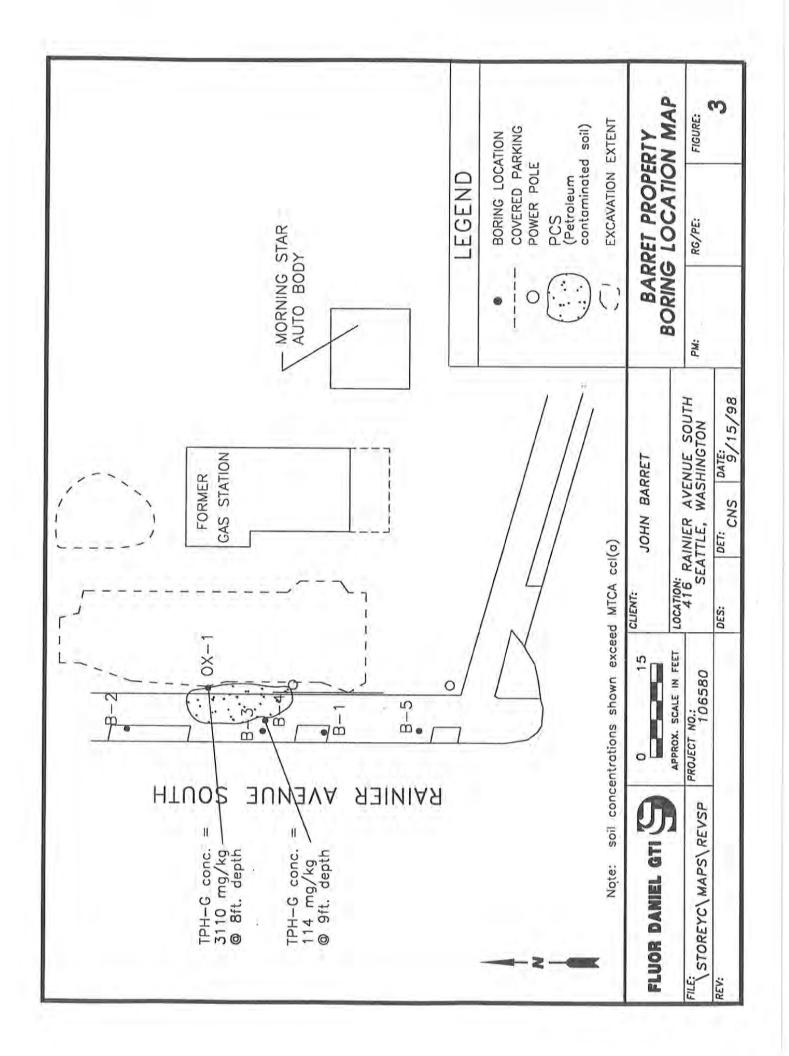
Not Sampled Below grade bg

Bold values exceed MTCA-CCL[a] Sample depths are approximate.











3120 Freeman Road East Fife, Washington 98424-3623 Phone: (253) 922-7710 Fax: (253) 926-0815

FIFE SAND & GRAVEL BIOREMEDIATION FACILITY HAS:

RECEIVED: 584.24 TONS OF MATERIAL;

FROM: BARRETT, 416 RAINIER AVE
SOUTH, SEATTLE

ON THE FOLLOWING DATES: 8/20/98 - 8/24/98.

THIS MATERIAL WILL BE BIOREMEDIATED IN ACCORDANCE WITH THE TERMS OF FSG'S SOLID WASTE PERMIT, #27-705.

SUSAN Kellef Wilson, MNGR



3120 Freeman Road East Fife, Washington 98424-3623 Phone: (253) 922-7710 Fax: (253) 926-0815

FIFE SAND & GRAVEL BIOREMEDIATION FACILITY HAS:

TREATED: 584.24 TONS OF MATERIAL:

FROM: BARRETT, 416 RAINIER AVE
SOUTH, SEATTLE

THIS MATERIAL HAS BEEN TREATED IN ACCORDANCE WITH THE TERMS OF FS&G'S SOLID WASTE PERMIT, #27-705.

SUSAN KELLEY WILSON, MNGR



#### STATE OF WASHINGTON

# DEPARTMENT OF ECOLOGY

Northwest Regional Office, 3190 - 160th Ave S.E. • Bellevue, Washington 98008-5452 • (425) 649-7000 11/04/98

Stan Haskins Fluor Daniel GTI 555 S. Renton Village Pl., #700 Renton, WA 98055

Dear Mr. Haskins:

Re: Request for Review: Independent Remedial Action

Barret Property, 416 Rainier Avenue South, Seattle, WA 98144

Thank you for submitting the independent remedial action report(s) for this site for Ecology's review. Ecology appreciates your initiative in pursuing a voluntary cleanup under the Model Toxics Control Act.

This is to acknowledge receipt of your *Request* and your \$500 deposit. A copy of the *Request* form is enclosed. All correspondence relating to this project should include the site name and a reference to the TCP identification number printed on the bottom right-hand corner of this form.

The Department of Ecology (Ecology) will publish a notice in the *Site Register* that we have received the report(s) and of your request for Ecology review of the independent remedial action. The Site Register is a bi-weekly publication regarding sites undergoing cleanup or remedial action throughout the state.

If you have any questions about this letter or the Voluntary Cleanup Program, please do not hesitate to call me at (425) 649-7023.

Sincerely,

Lydia S. Lindwall

Toxics Cleanup Program

LL:II

Enclosure





HOME

**FORMS** 

**Site Profile** 

User: GLWH461 Role: Ecology User Environment: Production

**RCRA Site ID:** WAH000015305

Facility/Site ID: 27591293

Texaco Downstream 211558 1366 31ST AVE S SEATTLE, WA 98144-3966

#### Start a New Report

**Create New Annual Report** 

# Work In Progress (Unsubmitted Data)

All records for this site have been submitted.

# Other Options

# **View Submitted Data**

Open Pre-printed Site ID Form

#### **Site Comments**

No comments exist for this facility.

#### Alternate RCRA Site ID's

No Alternate RCRA Site ID's exist for this facility.

# **Current Site Information**

#### **Location Info**

1366 31ST AVE S SEATTLE, WA 98144-3966 KING

Washington State UBI Number: 601238698

NAICS Code: 562910

Business Type: Remediation Site

### **Mailing Address**

Chevron Products Co PO Box 6004 San Ramon, CA 94583-2324 UNITED STATES

#### **Legal Owner**

WA DOT Facilities HazMat PO Box 6004 San Ramon, CA 94583-2324 UNITED STATES 877-386-6044 Org Type: Private

#### **Land Owner**

Equillon Enterprises LLC PO Box 2648 HOUSTON, TX 77252 UNITED STATES 877-386-6044 Org Type: Private

#### Operator Address

Chevron Products Co PO Box 6004 San Ramon, CA 94583-2324 UNITED STATES 877-386-6044 Org Type: Private

#### Site Contact

Waste Desk PO Box 6004 San Ramon, CA 94583-2324 UNITED STATES 877-386-6044

Email: NAWTDesk@chevron.com

#### **Forms Contact**

Waste Desk PO Box 6004

San Ramon, CA 94583-2324 UNITED STATES 877-386-6044

Email: NAWTDesk@chevron.com

<u>Waste Activities</u> No Regulated Waste Generated (XQG)

User Guide Help Support





HOME

**FORMS** 

«« Site Profile

**Reporting History** 

User: GLWH461 Role: Ecology User Environment: Production

**RCRA Site ID: WAH000015305** 

Facility/Site ID: 27591293

Texaco Downstream 211558 1366 31ST AVE S

SEATTLE, WA 98144-3966

Site ID Histor	r <b>y</b>					
Туре	Statu	s Legal Owner	Submitted	Effective	E-Filer	
AR: RY2015	XQG	WA DOT Facilities HazMat	2/3/2016	12/31/2015	Yes	<u>View</u> <u>Print</u>
AR: RY2014	XQG	WA DOT Facilities HazMat	2/2/2015	12/31/2014	Yes	<u>View</u> <u>Print</u>
AR: RY2013	XQG	WA DOT Facilities HazMat	2/6/2014	12/31/2013	Yes	<u>View</u> <u>Print</u>
AR: RY2012	XQG	WA DOT Facilities HazMat	2/4/2013	12/31/2012	Yes	<u>View</u> <u>Print</u>
AR: RY2011	XQG	WA DOT Facilities HazMat	2/21/2012	12/31/2011	Yes	<u>View</u> <u>Print</u>
Revised	XQG	WA DOT Facilities HazMat	2/3/2011	2/3/2011	Yes	<u>View</u> <u>Print</u>
AR: RY2010	XQG	WA DOT Facilities HazMat	2/3/2011	12/31/2010	Yes	<u>View</u> <u>Print</u>
AR: RY2009	XQG	WA DOT Facilities HazMat	2/11/2010	12/31/2009	Yes	<u>View</u> <u>Print</u>
AR: RY2008	XQG	WA DOT Facilities HazMat	2/17/2009	12/31/2008	Yes	<u>View</u> <u>Print</u>
AR: RY2007	XQG	WA DOT Facilities HazMat	2/11/2008	12/31/2007	Yes	<u>View</u> <u>Print</u>
Revised	XQG	WA DOT Facilities HazMat	2/15/2007	2/15/2007	Yes	<u>View</u> <u>Print</u>
AR: RY2006	XQG	WA DOT Facilities HazMat	2/15/2007	12/31/2006	Yes	<u>View</u> <u>Print</u>
AR: RY2006	XQG	WA DOT Facilities HazMat	2/15/2007	12/31/2006	Yes	<u>View</u> <u>Print</u>
AR: RY2005	XQG	WA DOT Facilities HazMat	2/20/2006	12/31/2005	Yes	<u>View</u> <u>Print</u>
AR: RY2004	XQG	WA DOT Facilities HazMat	2/23/2005	12/31/2004	Yes	<u>View</u> <u>Print</u>
AR: RY2003	XQG	WA DOT Facilities HazMat	3/3/2004	12/31/2003	No	<u>View</u> <u>Print</u>
AR: RY2002	XQG	WA DOT Facilities HazMat	4/11/2003	12/31/2002	No	<u>View</u> <u>Print</u>
AR: RY2001	LQG	WA DOT Facilities HazMat	3/1/2002	12/31/2001	No	<u>View</u> Print
New	MQG	WA DOT Facilities HazMat	6/18/2001	6/18/2001	No	<u>View</u> <u>Print</u>

## **Annual Report History**

Reporting Year: 2015

Sent: **Received:** 2/3/2016

No

No

**Effective:** 12/31/2015

**Delinq. Letter Sent:** 

**Review Data** 

**Export Files** 

Submitted: Yes E-Filer: Yes Reply Expected: No Follow-up Required: No Verified: No

**GM Waste Streams WR Waste Streams** 

Site ID Form: Yes

OI Facilities (0)

**Comments:** 

Reviewed:

Reporting Year: 2014

**Potential Planner:** 

Sent: **Delinq. Letter Sent: Received:** 2/2/2015 **Effective:** 12/31/2014

Submitted: Yes Site ID Form: Yes **Review Data** E-Filer: Yes **Export Files** Reply Expected: No **GM Waste Streams** Follow-up Required: No WR Waste Streams Verified: No OI Facilities (0) Reviewed: No **Potential Planner:** No Comments:

Reporting Year: 2013 **Delinq. Letter Sent:** Sent: Received: 2/6/2014 **Effective:** 12/31/2013 Submitted: Yes Site ID Form: Yes **Review Data** E-Filer: **Export Files** Yes Reply Expected: No **GM Waste Streams** Follow-up Required: No WR Waste Streams Verified: No OI Facilities (0) Reviewed: Nο **Potential Planner:** No **Comments:** 

Reporting Year: 2012 Sent: **Delinq. Letter Sent: Received:** 2/4/2013 **Effective:** 12/31/2012 Submitted: Yes Site ID Form: Yes **Review Data** E-Filer: Yes **Export Files** Reply Expected: No **GM Waste Streams** Follow-up Required: No **WR Waste Streams** Verified: No OI Facilities (0) Reviewed: No **Potential Planner:** Nο Comments:

Reporting Year: 2011 Sent: **Delinq. Letter Sent: Received:** 2/21/2012 **Effective:** 12/31/2011 Submitted: Yes Site ID Form: Yes **Review Data** E-Filer: Yes **Export Files** Reply Expected: No **GM Waste Streams** Follow-up Required: No WR Waste Streams Verified: Nο OI Facilities (0) Reviewed: No **Potential Planner:** No **Comments:** 

Reporting Year: 2010 Sent: Received: 2/3/2011 **Effective:** 12/31/2010 **Deling. Letter Sent:** Submitted: Yes Site ID Form: Yes **Review Data** E-Filer: Yes **Export Files** Reply Expected: No **GM Waste Streams** Follow-up Required: Nο **WR Waste Streams** Verified: No OI Facilities (0) Reviewed: No **Potential Planner:** No **Comments:** 

Reporting Year: 2009 Sent: Received: 2/11/2010 **Effective:** 12/31/2009 **Deling. Letter Sent:** Submitted: Yes Site ID Form: Yes Review Data E-Filer: Yes **Export Files** Reply Expected: Nο **GM Waste Streams** Follow-up Required: No

**Review Data** 

**Export Files** 

**Review Data** 

**Export Files** 

**Review Data** 

**Export Files** 

**Review Data** 

**Export Files** 

**Review Data** 

**Export Files** 

Verified:NoWR Waste StreamsReviewed:NoOI Facilities(0)Potential Planner:No

### **Comments:**

Reporting Year: 2008

Sent: Received: 2/17/2009 Effective: 12/31/2008 Delinq. Letter Sent:

Submitted: Yes E-Filer: Yes Reply Expected: No

No

GM Waste Streams
WR Waste Streams
OI Facilities (0)

Site ID Form: Yes

Verified: No Reviewed: No

Potential Planner: No

**Comments:** 

Reporting Year: 2007

Follow-up Required:

Sent: Received: 2/11/2008 Effective: 12/31/2007 Delinq. Letter Sent:

Submitted: Yes
E-Filer: Yes
Reply Expected: No
Follow-up Required: No
Verified: No

GM Waste Streams
WR Waste Streams
OI Facilities (0)

Site ID Form: Yes

**Reviewed:** No **Potential Planner:** No

**Comments:** 

Reporting Year: 2006

Sent: Received: 2/15/2007 Effective: 12/31/2006 Delinq. Letter Sent:

Submitted:YesSite ID Form: YesE-Filer:YesReply Expected:NoGM Waste StreamsFollow-up Required:NoWR Waste StreamsVerified:NoOI FacilitiesDeviated:No

Reviewed: No Potential Planner: No

Reporting Year: 2006

**Comments:** 

Sent: Received: 2/15/2007 Effective: 12/31/2006 Deling. Letter Sent:

Site ID Form: Yes

Submitted: Yes
E-Filer: Yes
Reply Expected: No
Follow-up Required: No

No GM Waste Streams
No WR Waste Streams
No OI Facilities (0)

Reviewed: No Potential Planner: No

**Comments:** 

Verified:

Reporting Year: 2005

Sent: Received: 2/20/2006 Effective: 12/31/2005 Delinq. Letter Sent:

Site ID Form: Yes

Submitted: Yes E-Filer: Yes

Reply Expected:NoGM Waste StreamsFollow-up Required:NoWR Waste StreamsVerified:NoOI Facilities(0)Reviewed:No

Potential Planner: No

**Review Data** 

**Export Files** 

**Review Data** 

**Export Files** 

Co	 	_			
LU	 	e	••	LS	G

Reporting Year: 2004

Sent: Received: 2/23/2005 Effective: 12/31/2004 Delinq. Letter Sent:

Site ID Form: Yes

Submitted: Yes E-Filer: Yes

Reply Expected: No GM Waste Streams
Follow-up Required: No WR Waste Streams
Verified: No OI Facilities (0)
Potential Planner: No

Comments:

Reporting Year: 2003

**Sent:** 12/30/2003 **Received:** 3/3/2004 **Effective:** 12/31/2003 **Delinq. Letter Sent:** 

Submitted: Yes Site ID Form: Yes E-Filer: No Reply Expected: No **GM Waste Streams** Follow-up Required: No **WR Waste Streams** Verified: No OI Facilities (0) Reviewed: No

Potential Planner: No

**Comments:** 

Reporting Year: 2002

Sent: 12/30/2002 Received: 4/11/2003 Effective: 12/31/2002 Delinq. Letter Sent:

 Submitted:
 Yes
 Site ID Form: Yes
 Review Data

 E-Filer:
 No
 Export Files

Reply Expected:NoGM Waste StreamsFollow-up Required:NoWR Waste StreamsVerified:NoOI Facilities(0)Reviewed:No

Potential Planner: No

**Comments:** 

Sent: 12/10/2001 Received: 3/1/2002 Effective: 12/31/2001 Delinq. Letter Sent:

Submitted: Yes Site ID Form: Yes Review Data
E-Filer: No Export Files

Reply Expected: No GM Waste Streams (1)

Follow-up Required: No WR Waste Streams (1)
Verified: No OI Facilities (1)

Reviewed: No OI Facilities (1)

Generated: 3440 lbs

**Comments:** 

Help Support User Guide





User: GLWH461 Role: Ecology User Environment: Production

# Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2015 Reporting Year: 2015

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698 NAICS Code 562910

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324 **UNITED STATES** 

Country Phone Number 877-386-6044 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number 877-386-6044

Private Owner Type

7. Site Operator

Person Name		
Mail Address	PO Box 6004	
	San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Operator Since	<i>77</i> 300 00 1.	
Operator Type	Private	
8. Site Contact		
Person Name	Waste Desk	
Title		
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
9. Forms Contact		
Person Name	Waste Desk	
Title		
Mailing Address	PO Box 6004 San Ramon, CA	
	94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
10. Type of Regulated Waste	e Activity	
A. Dangerous Waste Activ	rities	
1. Generator of Danger	ous Waste	☐ 10. Dangerous Waste Permitted Facility - also
a. LQG: Large Quantit (Greater than 2,200 II	y Generator os/mo)	called a Treatment, Storage, or Disposal (TSD) Facility. (Requires an Ecology Part A or Part B permit for
□ b. MQG: Medium Quar (Between 220 - 2,200		Dangerous Waste management). Note: On-site accumulation of waste by a generator does not usually require a permit for storage.
c. SQG: Small Quantit (Less than 220 lbs/mo	0)	☐ 11. Recycler of Dangerous Waste Received from
✓d. XQG: No Regulated	Waste Generated	Off-Site (Regulated under the State Dangerous Waste Regulations – WAC 173-303-120).
2. Frequency of Genera	ation	12. Dangerous Waste Fuel Activity
☐ a. Monthly		a. Generator of fuel
□ b. Batch		b. Generator Marketing to Burner
☐ c. One-time Only☐ 1. Spills		C. Other Marketers (i.e., blender, distibutor, etc.)
2. Clean Up		d. Burner (indicate type of combustion unit) $\Box$ 1. Utility Boiler
3. Transporter of Dang	erous Waste	2. Industrial Boiler
a. Transport own wast		3. Industrial Furnace
☐ b. Transport for comm	ercial purposes	e. Deferrals/Exemptions (in federal registry only)
4. Recycler of On-Sit	te Waste	1. Smelter deferral
(i.e., on-site use, reus after it has been gene	se or reclamation of a waste	$\square$ 2. Small quantity exemption $\square$ 3. Other (list)
$\Box$ 5. Transfer Facility $\circ$	of Dangerous Waste	
☐ 6. Permit-by-Rule (F	PBR)	☐ 13. Generator of Special Waste Regulated under the State Dangerous Waste Regulations – WAC 173-303-073)
7. Treatment-by-Ge	nerator (TBG)	J
$\Box$ 8. Generator of Mixe	ed Radioactive Waste	
$\square$ 9. Importer of Dang	erous Waste	

B. Universal Waste Activities  1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)	1. Off-specification used oil burner Indicate type(s) of Combustion devices a. Utility boiler b. Industrial boiler c. Industrial furnace			
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment (Including Thermostats)  d. Lamps	2. Used oil transporter Indicate type(s) of activity(s) a. Transporter b. Transfer Facility 3. Used oil processor/re-refiner Indicate type(s) of activity(s) a. Process b. Re-refine			
2. Destination Facility for Universal Waste	4. Used Oil Fuel Marketer  □ a. Directs shipment of used oil to used oil burner □ b. First claim the used oil meets the specifications			
<b>D. Eligible Academic Entities with Laboratories</b> – Notification management under, the State Academic Laboratory Rule (Subpaunder WAC 173-303-235.				
1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)  a. College or University.  b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.  c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.  2. Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)  11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)				
<b>B. Waste Codes for State Regulated Dangerous Wastes:</b> Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)				
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.				
12. Comments				
Ecology Comments				
Help Support User Guide				





User: GLWH461 Role: Ecology User Environment: Production

# Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2014 Reporting Year: 2014

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698 NAICS Code 562910

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004 San Ramon, CA

94583-2324

**UNITED STATES** Country Phone Number 877-386-6044 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number 877-386-6044

Private Owner Type

7. Site Operator

Person Name			
Mail Address	PO Box 6004 San Ramon, CA 94583-2324		
Country	UNITED STATES		
Phone Number	877-386-6044		
Operator Since			
Operator Type	Private		
8. Site Contact			
Person Name	Kathy Norris		
Title			
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324		
Country	UNITED STATES		
Phone Number	877-386-6044		
Email Address	NAWTDesk@chevron.com		
9. Forms Contact			
Person Name	Kathy Norris		
Title	DO Boy 6004		
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324		
Country	UNITED STATES		
Phone Number	877-386-6044		
Email Address	NAWTDesk@chevron.com		
10. Type of Regulated Waste	e Activity		
A. Dangerous Waste Activ	ities		
1. Generator of Danger	ous Waste	☐ 10. Dangerous Waste Permitted Facility - also	
☐ a. LQG: Large Quantitities (Greater than 2,200 III	os/mo)	called a Treatment, Storage, or Disposal (TSD) Facility. (Requires an Ecology Part A or Part B permit for Dangerous Waste management). Note: On-site	
□ b. MQG: Medium Quar (Between 220 - 2,200 □ c. SQG: Small Quantit	lbs/mo)	accumulation of waste by a generator does not usually require a permit for storage.	
(Less than 220 lbs/mo	o)	11. Recycler of Dangerous Waste Received from	
☑d. XQG: No Regulated		Off-Site (Regulated under the State Dangerous Waste Regulations – WAC 173-303-120).	
2. Frequency of Genera	ation	12. Dangerous Waste Fuel Activity	
☐ a. Monthly☐ b. Batch		a. Generator of fuel	
c. One-time Only		b. Generator Marketing to Burner	
1. Spills		C. Other Marketers (i.e., blender, distibutor, etc.) d. Burner (indicate type of combustion unit)	
2. Clean Up		1. Utility Boiler	
3. Transporter of Dang	erous Waste	2. Industrial Boiler	
a. Transport own wast	e	3. Industrial Furnace	
$\square$ b. Transport for commercial purposes		e. Deferrals/Exemptions (in federal registry only)	
4. Recycler of On-Site Waste (i.e., on-site use, reuse or reclamation of a waste after it has been generated)		☐ 1. Smelter deferral ☐ 2. Small quantity exemption	
	,	☐ 3. Other (list)	
☐ 5. Transfer Facility of Dangerous Waste ☐ 6. Permit-by-Rule (PBR)		☐ <b>13. Generator of Special Waste</b> Regulated under the	
7. Treatment-by-Generator (TBG)		State Dangerous Waste Regulations – WAC 173-303-073)	
8. Generator of Mixed Radioactive Waste			
9. Importer of Dang			
_ 9. Importer or Dang	erous waste		

B. Universal Waste Activities  1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)	1. Off-specification used oil burner Indicate type(s) of Combustion devices a. Utility boiler b. Industrial boiler c. Industrial furnace			
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment (Including Thermostats)  d. Lamps	2. Used oil transporter Indicate type(s) of activity(s) a. Transporter b. Transfer Facility 3. Used oil processor/re-refiner Indicate type(s) of activity(s) a. Process b. Re-refine			
2. Destination Facility for Universal Waste	4. Used Oil Fuel Marketer  □ a. Directs shipment of used oil to used oil burner □ b. First claim the used oil meets the specifications			
<b>D. Eligible Academic Entities with Laboratories</b> – Notification management under, the State Academic Laboratory Rule (Subpaunder WAC 173-303-235.				
1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)  a. College or University.  b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.  c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.  2. Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)  11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)				
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I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.				
12. Comments				
Ecology Comments				
Help Support User Guide				





User: GLWH461 Role: Ecology User Environment: Production

# Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2013 Reporting Year: 2013

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

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SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698 NAICS Code 562910

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324 **UNITED STATES** 

Country Phone Number 877-386-6044 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number 877-386-6044

Private Owner Type

7. Site Operator

Person Name		
Mail Address	PO Box 6004	
	San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Operator Since	<i>77</i> 300 00 1.	
Operator Type	Private	
8. Site Contact		
Person Name	Kathy Norris	
Title	•	
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
9. Forms Contact		
Person Name	Kathy Norris	
Title		
Mailing Address	PO Box 6004 San Ramon, CA	
	94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
10. Type of Regulated Waste	e Activity	
A. Dangerous Waste Activ	rities	
1. Generator of Danger	ous Waste	☐ 10. Dangerous Waste Permitted Facility - also
a. LQG: Large Quantity (Greater than 2,200 lb	y Generator os/mo)	called a Treatment, Storage, or Disposal (TSD) Facility. (Requires an Ecology Part A or Part B permit for
□ b. MQG: Medium Quar (Between 220 - 2,200		Dangerous Waste management). Note: On-site accumulation of waste by a generator does not usually require a permit for storage.
☐ c. SQG: Small Quantity (Less than 220 lbs/mo	0)	$\square$ 11. Recycler of Dangerous Waste Received from
✓d. XQG: No Regulated	Waste Generated	<b>Off-Site</b> (Regulated under the State Dangerous Waste Regulations – WAC 173-303-120).
2. Frequency of Genera	ation	12. Dangerous Waste Fuel Activity
☐ a. Monthly☐ b. Batch		a. Generator of fuel
c. One-time Only		b. Generator Marketing to Burner
1. Spills		☐ c. Other Marketers (i.e., blender, distibutor, etc.) d. Burner (indicate type of combustion unit)
2. Clean Up		1. Utility Boiler
3. Transporter of Dang	erous Waste	2. Industrial Boiler
a. Transport own wast	e	3. Industrial Furnace
$\square$ b. Transport for comm	ercial purposes	e. Deferrals/Exemptions (in federal registry only)
	se or reclamation of a waste	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
after it has been gene	erated)	3. Other (list)
6. Permit-by-Rule (F	_	☐ 13. Generator of Special Waste Regulated under the
	-	State Dangerous Waste Regulations – WAC 173-303-073)
7. Treatment-by-Ger		
	ed Radioactive Waste	
☐ 9. Importer of Dang	erous Waste	

B. Universal Waste Activities  1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)	C. Used Oil Activities  1. Off-specification used oil burner Indicate type(s) of Combustion devices  a. Utility boiler b. Industrial boiler c. Industrial furnace			
Generated Accumulate  a. Batteries  b. Thermostats  c. Mercury containing equipment (Including Thermostats)  d. Lamps   2. Destination Facility for Universal Waste	2. Used oil transporter Indicate type(s) of activity(s)  a. Transporter b. Transfer Facility  3. Used oil processor/re-refiner Indicate type(s) of activity(s)  a. Process b. Re-refine  4. Used Oil Fuel Marketer  a. Directs shipment of used oil to used oil burner  b. First claim the used oil meets the			
D. Eligible Academic Entities with Laboratories – Notification to participate in, withdraw from, or to report management under, the State Academic Laboratory Rule (Subpart K) for managing laboratory dangerous waste under WAC 173-303-235.  1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)  a. College or University.  b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.  c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.				
2.				
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.				
12. Comments				
Ecology Comments				
Help Support User Guide				





User: GLWH461 Role: Ecology User Environment: Production

# Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2012 Reporting Year: 2012

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698 NAICS Code 562910

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004 San Ramon, CA

94583-2324

**UNITED STATES** Country Phone Number 877-386-6044 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number 877-386-6044

Private Owner Type

7. Site Operator

Person Name		
Mail Address	PO Box 6004	
	San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Operator Since	<i>77</i> 300 00 1.	
Operator Type	Private	
8. Site Contact		
Person Name	Kathy Norris	
Title	•	
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
9. Forms Contact		
Person Name	Kathy Norris	
Title		
Mailing Address	PO Box 6004 San Ramon, CA	
	94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
10. Type of Regulated Waste	e Activity	
A. Dangerous Waste Activ	rities	
1. Generator of Danger	ous Waste	☐ 10. Dangerous Waste Permitted Facility - also
a. LQG: Large Quantity (Greater than 2,200 lb	y Generator os/mo)	called a Treatment, Storage, or Disposal (TSD) Facility. (Requires an Ecology Part A or Part B permit for
□ b. MQG: Medium Quar (Between 220 - 2,200		Dangerous Waste management). Note: On-site accumulation of waste by a generator does not usually require a permit for storage.
☐ c. SQG: Small Quantity (Less than 220 lbs/mo	0)	$\square$ 11. Recycler of Dangerous Waste Received from
✓d. XQG: No Regulated	Waste Generated	<b>Off-Site</b> (Regulated under the State Dangerous Waste Regulations – WAC 173-303-120).
2. Frequency of Genera	ation	12. Dangerous Waste Fuel Activity
☐ a. Monthly☐ b. Batch		a. Generator of fuel
c. One-time Only		b. Generator Marketing to Burner
1. Spills		☐ c. Other Marketers (i.e., blender, distibutor, etc.) d. Burner (indicate type of combustion unit)
2. Clean Up		1. Utility Boiler
3. Transporter of Dang	erous Waste	2. Industrial Boiler
a. Transport own wast	e	3. Industrial Furnace
$\square$ b. Transport for comm	ercial purposes	e. Deferrals/Exemptions (in federal registry only)
	se or reclamation of a waste	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
after it has been gene	erated)	3. Other (list)
6. Permit-by-Rule (F	_	☐ 13. Generator of Special Waste Regulated under the
	-	State Dangerous Waste Regulations – WAC 173-303-073)
7. Treatment-by-Ger		
	ed Radioactive Waste	
☐ 9. Importer of Dang	erous Waste	

B. Universal Waste Activities  1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)  Generated Accumulated a. Batteries b. Thermostats c. Mercury containing equipment (Including Thermostats)	C. Used Oil Activities  1. Off-specification used oil burner Indicate type(s) of Combustion devices  a. Utility boiler b. Industrial boiler c. Industrial furnace  2. Used oil transporter Indicate type(s) of activity(s) a. Transporter b. Transfer Facility  3. Used oil processor/re-refiner Indicate type(s) of activity(s)			
d. Lamps	☐ a. Process☐ b. Re-refine			
	4. Used Oil Fuel Marketer			
2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner			
	b. First claim the used oil meets the specifications			
D. Eligible Academic Entities with Laboratories – Notification to participate in, withdraw from, or to report management under, the State Academic Laboratory Rule (Subpart K) for managing laboratory dangerous waste under WAC 173-303-235.  1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)   a. College or University.   b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.   c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.  2. Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)  11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)  B. Waste Codes for State Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)				
$\square$ I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification				
information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.				
12. Comments				
Ecology Comments				
Help Support User Guide				





User: GLWH461 Role: Ecology User Environment: Production

# Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2011 Reporting Year: 2011

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698 NAICS Code 562910

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324

**UNITED STATES** Country Phone Number 877-386-6044 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number 877-386-6044

Private Owner Type

7. Site Operator

Person Name		
Mail Address	PO Box 6004	
	San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Operator Since	<i>77</i> 300 00 1.	
Operator Type	Private	
8. Site Contact		
Person Name	Kathy Norris	
Title	•	
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
9. Forms Contact		
Person Name	Kathy Norris	
Title		
Mailing Address	PO Box 6004 San Ramon, CA	
	94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
10. Type of Regulated Waste	e Activity	
A. Dangerous Waste Activ	rities	
1. Generator of Danger	ous Waste	☐ 10. Dangerous Waste Permitted Facility - also
a. LQG: Large Quantity (Greater than 2,200 lb	y Generator os/mo)	called a Treatment, Storage, or Disposal (TSD) Facility. (Requires an Ecology Part A or Part B permit for
□ b. MQG: Medium Quar (Between 220 - 2,200		Dangerous Waste management). Note: On-site accumulation of waste by a generator does not usually require a permit for storage.
☐ c. SQG: Small Quantity (Less than 220 lbs/mo	0)	$\square$ 11. Recycler of Dangerous Waste Received from
✓d. XQG: No Regulated	Waste Generated	<b>Off-Site</b> (Regulated under the State Dangerous Waste Regulations – WAC 173-303-120).
2. Frequency of Genera	ation	12. Dangerous Waste Fuel Activity
☐ a. Monthly☐ b. Batch		a. Generator of fuel
c. One-time Only		b. Generator Marketing to Burner
1. Spills		☐ c. Other Marketers (i.e., blender, distibutor, etc.) d. Burner (indicate type of combustion unit)
2. Clean Up		1. Utility Boiler
3. Transporter of Dang	erous Waste	2. Industrial Boiler
a. Transport own wast	e	3. Industrial Furnace
$\square$ b. Transport for comm	ercial purposes	e. Deferrals/Exemptions (in federal registry only)
	se or reclamation of a waste	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
after it has been gene	erated)	3. Other (list)
6. Permit-by-Rule (F	_	☐ 13. Generator of Special Waste Regulated under the
	-	State Dangerous Waste Regulations – WAC 173-303-073)
7. Treatment-by-Ger		
	ed Radioactive Waste	
☐ 9. Importer of Dang	erous Waste	

B. Universal Waste Activities  1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)	1. Off-specification used oil burner Indicate type(s) of Combustion devices a. Utility boiler b. Industrial boiler c. Industrial furnace			
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment (Including Thermostats)  d. Lamps	2. Used oil transporter Indicate type(s) of activity(s) a. Transporter b. Transfer Facility 3. Used oil processor/re-refiner Indicate type(s) of activity(s) a. Process b. Re-refine			
2. Destination Facility for Universal Waste	4. Used Oil Fuel Marketer  □ a. Directs shipment of used oil to used oil burner □ b. First claim the used oil meets the specifications			
<b>D. Eligible Academic Entities with Laboratories</b> – Notification management under, the State Academic Laboratory Rule (Subpaunder WAC 173-303-235.				
1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)  a. College or University.  b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.  c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.  2. Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)  11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)				
<b>B. Waste Codes for State Regulated Dangerous Wastes:</b> Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)				
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.				
12. Comments				
Ecology Comments				
Help Support User Guide				





User: GLWH461 Role: Ecology User Environment: Production

Site ID Form - View Only

Administration

Date Received 2/3/2011

Date Acknowledgment Sent

1. Reason for Submittal

To provide **Revised** Site Identification Information

Effective Date: 2/3/2011

Latitude: 47.59057

Longitude: 122.293766

Reporting Year:

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698

NAICS Code 562910

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

San Ramon, CA

94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324

**UNITED STATES** Country 877-386-6044 Phone Number Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

Country **UNITED STATES** 877-386-6044 Phone Number

Owner Type	Private		
7. Site Operator			
Organization Name	Chevron Products Co		
Person Name	0.101.011.1.000000		
Mail Address	PO Box 6004		
Inali Address	San Ramon, CA		
	94583-2324		
Country	UNITED STATES		
Phone Number	877-386-6044		
Operator Since			
Operator Type	Private		
8. Site Contact			
Person Name	Jocko Rodriguez		
Title			
Mailing Address	PO Box 6004		
	San Ramon, CA 94583-2324		
Carratur			
Country	UNITED STATES		
Phone Number	877-386-6044		
Email Address	NAWTDesk@chevron.com		
9. Forms Contact			
Person Name	Jocko Rodriguez		
Title			
Mailing Address	PO Box 6004		
3	San Ramon, CA		
	94583-2324		
Country	UNITED STATES		
Phone Number	877-386-6044		
Email Address	NAWTDesk@chevron.com		
10. Type of Regulated Waste	Activity		
A. Dangerous Waste Activ			
1. Generator of Danger	rous Waste	□ 48 B B B	
a. LQG: Large Quantity		☐ 10. Dangerous Waste Permitted Facility - also called a Treatment, Storage, or Disposal (TSD)	
(Greater than 2,200 lb		<b>Facility.</b> (Requires an Ecology Part A or Part B permit for	
□ b. MQG: Medium Quar	ntity Generator	Dangerous Waste management). Note: On-site	
(Between 220 - 2,200		accumulation of waste by a generator does not usually require a permit for storage.	
☐ c. SQG: Small Quantit			
(Less than 220 lbs/mo		☐ 11. Recycler of Dangerous Waste Received from Off-Site (Regulated under the State Dangerous Waste	
d. XQG: No Regulated		Regulations – WAC 173-303-120).	
2. Frequency of Genera	ition	12. Dangerous Waste Fuel Activity	
☐ a. Monthly		a. Generator of fuel	
☐ b. Batch		☐ b. Generator Marketing to Burner	
☐ c. One-time Only		c. Other Marketers (i.e., blender, distibutor, etc.)	
1. Spills		d. Burner (indicate type of combustion unit)	
☐ 2. Clean Up		└ 1. Utility Boiler	
3. Transporter of Dangerous Waste		2. Industrial Boiler	
a. Transport own waste		3. Industrial Furnace	
☐ b. Transport for commercial purposes		e. Deferrals/Exemptions (in federal registry only)	
4. Recycler of On-Site Waste		☐ 1. Smelter deferral	
	se or reclamation of a waste	$\square$ 2. Small quantity exemption	
after it has been gene		3. Other (list)	
☐ 5. Transfer Facility of Dangerous Waste			
☐ 6. Permit-by-Rule (F	PBR)	$\square$ 13. Generator of Special Waste Regulated under the	

7. Treatment-by-Generator (TBG)	State Dangerous Waste Regulations – WAC 173-303-073)	
8. Generator of Mixed Radioactive Waste		
9. Importer of Dangerous Waste		
B. Universal Waste Activities  1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)	C. Used Oil Activities  1. Off-specification used oil burner Indicate type(s) of Combustion devices  a. Utility boiler b. Industrial boiler c. Industrial furnace  2. Used oil transporter	
Generated Accumulated	Indicate type(s) of activity(s)	
a. Batteries	☐a. Transporter	
b. Thermostats	□ b. Transfer Facility	
c. Mercury containing equipment [Including Thermostats]	3. Used oil processor/re-refiner Indicate type(s) of activity(s)	
d. Lamps	a. Process	
	☐ b. Re-refine	
2 Postination Facility for Universal Wests	4. Used Oil Fuel Marketer	
☐ 2. Destination Facility for Universal Waste	☐ a. Directs shipment of used oil to used oil burner	
	$\square$ b. First claim the used oil meets the specifications	
D. Eligible Academic Entities with Laboratories – Notific management under, the State Academic Laboratory Rule (Standard WAC 173-303-235.  1. Yes, I am managing dangerous wastes under this rule a. College or University.  b. Teaching Hospital that is owned by (or has university.  c. Non-profit Institute that is owned by (or has university.  2. Yes, I wish to withdraw from this rule. (If you were maked that the participate, see	Subpart K) for managing laboratory dangerous waste e. (Mark all that apply) a a formal written affiliation agreement with) a college or as a formal written affiliation agreement with) a college or anaging dangerous wastes under the State Academic	
11. Description of Dangerous Waste		
A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)  B. Waste Codes for State Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)		
☐ I am interested in the electronic filing of my Dangerous		
☐ I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.		
12. Comments		
Ecology Comments		

Help Support User Guide





User: GLWH461 Role: Ecology User Environment: Production

# Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2010 Reporting Year: 2010

Latitude: 47.59057

Longitude: 122.293766

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698 NAICS Code 562910

Type of Business Remediation Site

4. Company Mailing Address

Organization Name

Chevron Products Co

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324

**UNITED STATES** Country Phone Number 877-386-6044 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number 877-386-6044

Private Owner Type

7. Site Operator

Person Name		
Mail Address	PO Box 6004	
	San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Operator Since		
Operator Type	Private	
8. Site Contact		
Person Name	Jocko Rodriguez	
Title		
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
9. Forms Contact		
Person Name	Jocko Rodriguez	
Title		
Mailing Address	PO Box 6004 San Ramon, CA	
	94583-2324	
Country	UNITED STATES	
Phone Number	877-386-6044	
Email Address	NAWTDesk@chevron.com	
10. Type of Regulated Waste		
A. Dangerous Waste Activ	ities	
1. Generator of Danger		☐ 10. Dangerous Waste Permitted Facility - also
□ a. LQG: Large Quantit (Greater than 2,200 ll	os/mo)	called a Treatment, Storage, or Disposal (TSD) Facility. (Requires an Ecology Part A or Part B permit for Dangerous Waste management). Note: On-site
□ b. MQG: Medium Quar (Between 220 - 2,200		accumulation of waste by a generator does not usually require a permit for storage.
c. SQG: Small Quantit (Less than 220 lbs/mo	0)	$\square$ 11. Recycler of Dangerous Waste Received from
✓d. XQG: No Regulated	Waste Generated	<b>Off-Site</b> (Regulated under the State Dangerous Waste Regulations – WAC 173-303-120).
2. Frequency of Genera	ation	12. Dangerous Waste Fuel Activity
☐ a. Monthly		a. Generator of fuel
□ b. Batch		b. Generator Marketing to Burner
☐ c. One-time Only☐ 1. Spills		c. Other Marketers (i.e., blender, distibutor, etc.)
2. Clean Up		d. Burner (indicate type of combustion unit) $\Box$ 1. Utility Boiler
3. Transporter of Dang	erous Waste	2. Industrial Boiler
a. Transport own wast		3. Industrial Furnace
b. Transport for comm		e. Deferrals/Exemptions (in federal registry only)
4. Recycler of On-Sit	te Waste	1. Smelter deferral
☐ 4. Recycler of On-Site Waste  (i.e., on-site use, reuse or reclamation of a waste after it has been generated)		2. Small quantity exemption 3. Other (list)
☐ 5. Transfer Facility o	of Dangerous Waste	
☐ 6. Permit-by-Rule (PBR)		☐ <b>13. Generator of Special Waste</b> Regulated under the State Dangerous Waste Regulations – WAC 173-303-073)
7. Treatment-by-Ge	nerator (TBG)	
$\square$ 8. Generator of Mixe	ed Radioactive Waste	
$\square$ 9. Importer of Dang	erous Waste	

B. Universal Waste Activities  1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)	1. Off-specification used oil burner Indicate type(s) of Combustion devices a. Utility boiler b. Industrial boiler c. Industrial furnace		
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment (Including Thermostats)  d. Lamps	2. Used oil transporter Indicate type(s) of activity(s) a. Transporter b. Transfer Facility 3. Used oil processor/re-refiner Indicate type(s) of activity(s) a. Process b. Re-refine		
2. Destination Facility for Universal Waste	4. Used Oil Fuel Marketer  □ a. Directs shipment of used oil to used oil burner □ b. First claim the used oil meets the specifications		
<b>D. Eligible Academic Entities with Laboratories</b> – Notification management under, the State Academic Laboratory Rule (Subpaunder WAC 173-303-235.			
1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)  a. College or University.  b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.  c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.  2. Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)  11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)			
<b>B. Waste Codes for State Regulated Dangerous Wastes:</b> Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)			
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.			
12. Comments			
Ecology Comments			
Help Support User Guide			





User: GLWH461 Role: Ecology User Environment: Production

# Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2009

Latitude: 47.59057

Longitude: 122.293766

Reporting Year: 2009

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698 NAICS Code 562910

Type of Business Remediation Site

4. Company Mailing Address

Organization Name

Chevron Products Co

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324 **UNITED STATES** 

Country Phone Number 360705-7812 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number (713)241-5036

Owner Type Private

7. Site Operator

☐ 10. Dangerous Waste Permitted Facility - also
called a Treatment, Storage, or Disposal (TSD) Facility. (Requires an Ecology Part A or Part B permit for Dangerous Waste management). Note: On-site
accumulation of waste by a generator does not usually require a permit for storage.
☐ 11. Recycler of Dangerous Waste Received from
<b>Off-Site</b> (Regulated under the State Dangerous Waste Regulations – WAC 173-303-120).
12. Dangerous Waste Fuel Activity
a. Generator of fuel
$\square$ b. Generator Marketing to Burner
$\square$ c. Other Marketers (i.e., blender, distibutor, etc.)
d. Burner (indicate type of combustion unit)
☐ 1. Utility Boiler
☐ 2. Industrial Boiler
☐ 3. Industrial Furnace e. Deferrals/Exemptions (in federal registry only)
1. Smelter deferral
2. Small quantity exemption 3. Other (list)
☐ 13. Generator of Special Waste Regulated under the State Dangerous Waste Regulations – WAC 173-303-073)
State Dangerous waste Regulations - WAC 173-303-073)

B. Universal Waste Activities  1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)	1. Off-specification used oil burner Indicate type(s) of Combustion devices a. Utility boiler b. Industrial boiler c. Industrial furnace		
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment (Including Thermostats)  d. Lamps	2. Used oil transporter Indicate type(s) of activity(s) a. Transporter b. Transfer Facility 3. Used oil processor/re-refiner Indicate type(s) of activity(s) a. Process b. Re-refine		
2. Destination Facility for Universal Waste	4. Used Oil Fuel Marketer  □ a. Directs shipment of used oil to used oil burner □ b. First claim the used oil meets the specifications		
<b>D. Eligible Academic Entities with Laboratories</b> – Notification management under, the State Academic Laboratory Rule (Subpaunder WAC 173-303-235.			
1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)  a. College or University.  b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.  c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.  2. Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)  11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)			
<b>B. Waste Codes for State Regulated Dangerous Wastes:</b> Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)			
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.			
12. Comments			
Ecology Comments			
Help Support User Guide			





User: GLWH461 Role: Ecology User Environment: Production

# Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2008 Reporting Year: 2008

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698

NAICS Code 56291

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324

**UNITED STATES** Country Phone Number 360705-7812 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number (713)241-5036

Owner Type Private

7. Site Operator

Person Name			
Mail Address	PO Box 6004		
	San Ramon, CA		
	94583-2324		
Country	UNITED STATES		
Phone Number	925-842-5931		
Operator Since Operator Type	Private		
	riivate		
8. Site Contact	Kathari I Namia Clarkan		
Person Name	Kathy L Norris-Slusher		
Title Mailing Address	PO Box 6004		
Mailing Address	San Ramon, CA 94583-2324		
Country	UNITED STATES		
Phone Number	925-842-5931		
Email Address	NAWTDesk@chevron.com		
9. Forms Contact			
Person Name	Kathy L Norris-Slusher		
Title			
Mailing Address	PO Box 6004		
	San Ramon, CA 94583-2324		
Country	UNITED STATES		
Phone Number	925-842-5931		
Email Address	NAWTDesk@chevron.com		
10. Type of Regulated Waste	e Activity		
A. Dangerous Waste Activ	•		
1. Generator of Danger		□ 40 P	
a. LQG: Large Quantity		☐ 10. Dangerous Waste Permitted Facility - also called a Treatment, Storage, or Disposal (TSD)	
(Greater than 2,200 II	os/mo)	Facility. (Requires an Ecology Part A or Part B permit for	
□ b. MQG: Medium Quar (Between 220 - 2,200		Dangerous Waste management). Note: On-site accumulation of waste by a generator does not usually	
☐ c. SQG: Small Quantit		require a permit for storage.	
(Less than 220 lbs/mo	•	☐ 11. Recycler of Dangerous Waste Received from Off-Site (Regulated under the State Dangerous Waste	
2. Frequency of Genera		Regulations – WAC 173-303-120).	
a. Monthly		12. Dangerous Waste Fuel Activity	
b. Batch		☐ a. Generator of fuel	
C. One-time Only		☐ b. Generator Marketing to Burner☐ c. Other Marketers (i.e., blender, distibutor, etc.)	
3. Transporter of Dang	erous Waste	d. Burner (indicate type of combustion unit)	
a. Transport own wast	e	1. Utility Boiler	
☐ b. Transport for comm	ercial purposes	2. Industrial Boiler	
4. Recycler of On-Site Waste		☐ 3. Industrial Furnace	
(i.e., on-site use, reuse or reclamation of a waste after it has been generated)		e. Deferrals/Exemptions (in federal registry only) $\Box$ 1. Smelter deferral	
$\square$ 5. Transfer Facility $\alpha$	of Dangerous Waste	2. Small quantity exemption	
☐ 6. Permit-by-Rule (F	PBR)	☐ 3. Other (list)	
☐ 7. Treatment-by-Ge	nerator (TBG)		
$\square$ 8. Generator of Mixe	ed Radioactive Waste		
$\square$ 9. Importer of Dangerous Waste			

B. Universal Waste Activities	C. Used Oil Activities		
1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)	Off-specification used oil burner     Indicate type(s) of Combustion devices     □ a. Utility boiler     □ b. Industrial boiler		
(Mark all boxes that apply)			
(Mark all boxes that apply)	☐ c. Industrial furnace  2. Used oil transporter		
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment	- 11		
(Including Thermostats)	Indicate type(s) of activity(s)		
d. Lamps	☐ a. Process☐ b. Re-refine		
	4. Used Oil Fuel Marketer		
2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner		
	b. First claim the used oil meets the specifications		
D. Eligible Academic Entities with Laboratories – Notification to participate in, withdraw from, or to report management under, the State Academic Laboratory Rule (Subpart K) for managing laboratory dangerous waste under WAC 173-303-235.			
<ol> <li>Yes, I am managing dangerous wastes under this rule. (Mark all that apply)         <ul> <li>a. College or University.</li> <li>b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.</li> <li>c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.</li> </ul> </li> <li>Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)</li> </ol>			
11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)			
<b>B. Waste Codes for State Regulated Dangerous Wastes:</b> Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)			
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.			
12. Comments			
Ecology Comments			
Help Support User Guide			





User: GLWH461 Role: Ecology User Environment: Production

#### Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2007 Reporting Year: 2007

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698

NAICS Code 56291

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324

**UNITED STATES** Country Phone Number 360705-7812 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number (713)241-5036

Owner Type Private

7. Site Operator

Person Name		
Mail Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Operator Since		
Operator Type	Private	
8. Site Contact		
Person Name	Kathy L Norris-Slusher	
Title		
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	NAWTDesk@chevron.com	
9. Forms Contact Person Name	Kathy L Norris-Slusher	
Title Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	NAWTDesk@chevron.com	
10. Type of Regulated Waste  A. Dangerous Waste Activ  1. Generator of Danger  a. LQG: Large Quantity (Greater than 2,200 lt  b. MQG: Medium Quan (Between 220 - 2,200  c. SQG: Small Quantity (Less than 220 lbs/mod  d. XQG: No Regulated  2. Frequency of General a. Monthly b. Batch c. One-time Only 3. Transporter of Dang a. Transport own wast b. Transport for comm  4. Recycler of On-Sit (i.e., on-site use, reus after it has been general 5. Transfer Facility of 6. Permit-by-Rule (Facility Company)	rous Waste  y Generator ps/mo) httity Generator lbs/mo) y Generator b) Waste Generated ation  erous Waste e ercial purposes te Waste se or reclamation of a waste erated) of Dangerous Waste PBR)	□ 10. Treatment, Storage, Disposal or Recycling (TSDR) Facility (Note: A RCRA Permit is required for this activity) □ 11. Immediate Recycler of Off-Site Waste (Up to 72 hours with Ecology permission) 12. Dangerous Waste Fuel Activity □ a. Generator of fuel □ b. Generator Marketing to Burner □ c. Other Marketers (i.e., blender, distibutor, etc.) d. Burner (indicate type of combustion unit) □ 1. Utility Boiler □ 2. Industrial Boiler □ 3. Industrial Furnace e. Deferrals/Exemptions (in federal registry only) □ 1. Smelter deferral □ 2. Small quantity exemption □ 3. Other (list)
	ed Radioactive Waste	
9. Importer of Dangerous Waste		
- 5. Importer of Dality	c. cas truste	

B. Universal Waste Activities	C. Used Oil Activities		
1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)	Off-specification used oil burner     Indicate type(s) of Combustion devices     □ a. Utility boiler     □ b. Industrial boiler		
(Mark all boxes that apply)			
(Mark all boxes that apply)	☐ c. Industrial furnace  2. Used oil transporter		
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment	- 11		
(Including Thermostats)	Indicate type(s) of activity(s)		
d. Lamps	☐ a. Process☐ b. Re-refine		
	4. Used Oil Fuel Marketer		
2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner		
	b. First claim the used oil meets the specifications		
D. Eligible Academic Entities with Laboratories – Notification to participate in, withdraw from, or to report management under, the State Academic Laboratory Rule (Subpart K) for managing laboratory dangerous waste under WAC 173-303-235.			
<ol> <li>Yes, I am managing dangerous wastes under this rule. (Mark all that apply)         <ul> <li>a. College or University.</li> <li>b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.</li> <li>c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.</li> </ul> </li> <li>Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)</li> </ol>			
11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)			
<b>B. Waste Codes for State Regulated Dangerous Wastes:</b> Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)			
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.			
12. Comments			
Ecology Comments			
Help Support User Guide			





User: GLWH461 Role: Ecology User Environment: Production

Site ID Form - View Only

Administration

Date Received 2/15/2007

Date Acknowledgment Sent

1. Reason for Submittal

To provide **Revised** Site Identification Information

Effective Date: 2/15/2007

Latitude: 47.59057

Reporting Year:

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698

NAICS Code 56291

Type of Business Remediation Site

4. Company Mailing Address

Chevron Products Co Organization Name

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324

**UNITED STATES** Country 360705-7812 Phone Number Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

Country **UNITED STATES** Phone Number (713)241-5036

Owner Type	Private	
7. Site Operator		
Organization Name	Chevron Products Co	
Person Name	chevion roddes co	
Mail Address	PO Box 6004 San Ramon, CA	
	94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Operator Since		
Operator Type	Private	
8. Site Contact		
Person Name	Kathy L Norris-Slusher	
  Title	•	
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	knorris@chevron.com	
9. Forms Contact		
Person Name	Kathy L Norris-Slusher	
Title	, , , , , , , , , , , , , , , , , , , ,	
Mailing Address	PO Box 6004	
Maining Address	San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	knorris@chevron.com	
10. Type of Regulated Waste	Activity	
A. Dangerous Waste Activ		
1. Generator of Danger	rous Waste	
a. LQG: Large Quantity (Greater than 2,200 lb	y Generator	☐ 10. Treatment, Storage, Disposal or Recycling (TSDR) Facility (Note: A RCRA Permit is required for this activity)
□ b. MQG: Medium Quar	ntity Generator	☐ 11. Immediate Recycler of Off-Site Waste (Up to 72
(Between 220 - 2,200 C. SQG: Small Quantit	• •	hours with Ecology permission)
(Less than 220 lbs/mo	o)	12. Dangerous Waste Fuel Activity  a. Generator of fuel
✓ d. XQG: No Regulated		☐ b. Generator Marketing to Burner
2. Frequency of Genera	ition	c. Other Marketers (i.e., blender, distibutor, etc.)
☐ a. Monthly		d. Burner (indicate type of combustion unit)
└ b. Batch		1. Utility Boiler
☐ c. One-time Only		2. Industrial Boiler
3. Transporter of Dangerous Waste		3. Industrial Furnace
a. Transport own waste		e. Deferrals/Exemptions (in federal registry only)
$\Box$ b. Transport for comm	ercial purposes	1. Smelter deferral
4. Recycler of On-Sit (i.e., on-site use, reus after it has been gene	se or reclamation of a waste	$\square$ 2. Small quantity exemption $\square$ 3. Other (list)
$\Box$ 5. Transfer Facility of	of Dangerous Waste	
☐ 6. Permit-by-Rule (F	PBR)	
7. Treatment-by-Ger	nerator (TBG)	

8. Generator of Mixed Radioactive Waste			
☐ 9. Importer of Dangerous Waste			
B. Universal Waste Activities	C. Used Oil Activities		
1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you	1. Off-specification used oil burner Indicate type(s) of Combustion devices		
accumulate 2,200 pounds of lamps at any time)	☐ a. Utility boiler☐ b. Industrial boiler		
(Mark all boxes that apply)	c. Industrial furnace		
	2. Used oil transporter		
Generated Accumulated	Indicate type(s) of activity(s)		
a. Batteries	b. Transfer Facility		
c. Mercury containing equipment	3. Used oil processor/re-refiner		
(Including Thermostats)	Indicate type(s) of activity(s)		
d. Lamps	└─ a. Process ☐ b. Re-refine		
	4. Used Oil Fuel Marketer		
2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner		
	$\Box$ b. First claim the used oil meets the specifications		
<b>D. Eligible Academic Entities with Laboratories</b> – Notification to participate in, withdraw from, or to report management under, the State Academic Laboratory Rule (Subpart K) for managing laboratory dangerous waste under WAC 173-303-235.			
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11. Description of Dangerous Waste			
<b>A. Waste Codes for Federally Regulated Dangerous Wastes:</b> Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)			
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12. Comments			
Ecology Comments			
Help Support User Guide			





User: GLWH461 Role: Ecology User Environment: Production

#### Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2006

Latitude: 47.59057

Reporting Year: 2006

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698

NAICS Code 56291

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**UNITED STATES** 

Country

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**UNITED STATES** Country Phone Number 360705-7812 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

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Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number (713)241-5036

Owner Type Private

7. Site Operator

B. Universal Waste Activities	C. Used Oil Activities		
1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)	Off-specification used oil burner     Indicate type(s) of Combustion devices     □ a. Utility boiler     □ b. Industrial boiler		
(Mark all boxes that apply)			
(Mark all boxes that apply)	☐ c. Industrial furnace  2. Used oil transporter		
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment	- 11		
(Including Thermostats)	Indicate type(s) of activity(s)		
d. Lamps	☐ a. Process☐ b. Re-refine		
	4. Used Oil Fuel Marketer		
2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner		
	b. First claim the used oil meets the specifications		
D. Eligible Academic Entities with Laboratories – Notification to participate in, withdraw from, or to report management under, the State Academic Laboratory Rule (Subpart K) for managing laboratory dangerous waste under WAC 173-303-235.			
<ol> <li>Yes, I am managing dangerous wastes under this rule. (Mark all that apply)         <ul> <li>a. College or University.</li> <li>b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.</li> <li>c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.</li> </ul> </li> <li>Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)</li> </ol>			
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Ecology Comments			
Help Support User Guide			





User: GLWH461 Role: Ecology User Environment: Production

#### Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2006 Reporting Year: 2006

Latitude: 47.59057

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Person Name		
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Country	UNITED STATES	
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Title		
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	knorris@cehvrontexaco.com	
9. Forms Contact		
Person Name	Kathy L Norris-Slusher	
Title		
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	KNorris@cehvrontexaco.com	
10. Type of Regulated Waste A. Dangerous Waste Activ	•	
1. Generator of Danger		$\square$ 10. Treatment, Storage, Disposal or Recycling
☐ a. LQG: Large Quantit (Greater than 2,200 II	bs/mo)	(TSDR) Facility (Note: A RCRA Permit is required for this activity)
□ b. MQG: Medium Quar (Between 220 - 2,200	) lbs/mo)	<b>11. Immediate Recycler of Off-Site Waste</b> (Up to 72 hours with Ecology permission)
☐ c. SQG: Small Quantit (Less than 220 lbs/mo		12. Dangerous Waste Fuel Activity
✓d. XQG: No Regulated	Waste Generated	☐ a. Generator of fuel☐ b. Generator Marketing to Burner
2. Frequency of Genera	ation	C. Other Marketers (i.e., blender, distibutor, etc.)
a. Monthly		d. Burner (indicate type of combustion unit)
☐ b. Batch		$\square$ 1. Utility Boiler
☐ c. One-time Only		$\square$ 2. Industrial Boiler
3. Transporter of Dang		3. Industrial Furnace
☐ a. Transport own wast		e. Deferrals/Exemptions (in federal registry only)
☐ b. Transport for comm		☐ 1. Smelter deferral
(i.e., on-site use, reus after it has been gene	se or reclamation of a waste	☐ 2. Small quantity exemption ☐ 3. Other (list)
$\Box$ 5. Transfer Facility (	of Dangerous Waste	
☐ 6. Permit-by-Rule (F	PBR)	
7. Treatment-by-Ge	nerator (TBG)	
8. Generator of Mixe	ed Radioactive Waste	
$\square$ 9. Importer of Dangerous Waste		
,		

B. Universal Waste Activities	C. Used Oil Activities		
1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)	Off-specification used oil burner     Indicate type(s) of Combustion devices     □ a. Utility boiler     □ b. Industrial boiler		
(Mark all boxes that apply)			
(Mark all boxes that apply)	☐ c. Industrial furnace  2. Used oil transporter		
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment	- 11		
(Including Thermostats)	Indicate type(s) of activity(s)		
d. Lamps	☐ a. Process☐ b. Re-refine		
	4. Used Oil Fuel Marketer		
2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner		
	b. First claim the used oil meets the specifications		
D. Eligible Academic Entities with Laboratories – Notification to participate in, withdraw from, or to report management under, the State Academic Laboratory Rule (Subpart K) for managing laboratory dangerous waste under WAC 173-303-235.			
<ol> <li>Yes, I am managing dangerous wastes under this rule. (Mark all that apply)         <ul> <li>a. College or University.</li> <li>b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.</li> <li>c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.</li> </ul> </li> <li>Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)</li> </ol>			
11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)			
<b>B. Waste Codes for State Regulated Dangerous Wastes:</b> Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)			
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.			
12. Comments			
Ecology Comments			
Help Support User Guide			





User: GLWH461 Role: Ecology User Environment: Production

#### Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2005

Latitude: 47.59057

Longitude: 122.293766

Reporting Year: 2005

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698

NAICS Code 56291

Type of Business Remediation Site

4. Company Mailing Address

Organization Name

Chevron Products Co

Person Name

Mail Address PO Box 6004

> San Ramon, CA 94583-2324

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO Box 6004

San Ramon, CA 94583-2324

**UNITED STATES** Country Phone Number 360705-7812 Owner Since 6/18/2001

6. Land Owner

Owner Type

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

Private

**UNITED STATES** Country Phone Number (713)241-5036

Private Owner Type

7. Site Operator

Person Name		
Mail Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Operator Since	323 0.2 0302	
Operator Type	Private	
8. Site Contact		
Person Name	Kathy L Norris	
Title	Ratily L NOTTIS	
	DO D 6004	
Mailing Address	PO Box 6004 San Ramon, CA 94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	knorris@cehvrontexaco.com	
9. Forms Contact		
Person Name	Kathy L Norris	
Title		
Mailing Address	PO Box 6004 San Ramon, CA	
	94583-2324	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	KNorris@cehvrontexaco.com	
10. Type of Regulated Waste	•	
A. Dangerous Waste Activ	rities	
1. Generator of Dange	rous Waste	$\square$ 10. Treatment, Storage, Disposal or Recycling
a. LQG: Large Quantit (Greater than 2,200 I	bs/mo)	(TSDR) Facility (Note: A RCRA Permit is required for this activity)
b. MQG: Medium Quar (Between 220 - 2,200	lbs/mo)	☐ <b>11. Immediate Recycler of Off-Site Waste</b> (Up to 72 hours with Ecology permission)
c. SQG: Small Quantit (Less than 220 lbs/m	0)	12. Dangerous Waste Fuel Activity  a. Generator of fuel
✓d. XQG: No Regulated	Waste Generated	□ b. Generator Marketing to Burner
2. Frequency of General		C. Other Marketers (i.e., blender, distibutor, etc.)
☐ a. Monthly		d. Burner (indicate type of combustion unit)
☐ b. Batch		1. Utility Boiler
☐ c. One-time Only		$\square$ 2. Industrial Boiler
3. Transporter of Dang		3. Industrial Furnace
☐ a. Transport own wast		e. Deferrals/Exemptions (in federal registry only)
☐ b. Transport for comm		☐ 1. Smelter deferral☐ 2. Small quantity exemption
4. Recycler of On-Site Waste (i.e., on-site use, reuse or reclamation of a waste after it has been generated)		3. Other (list)
☐ 5. Transfer Facility (	•	
☐ 6. Permit-by-Rule (I	PBR)	
☐ 7. Treatment-by-Ge	nerator (TBG)	
8. Generator of Mixe	ed Radioactive Waste	
9. Importer of Dang	erous Waste	
1		

B. Universal Waste Activities	C. Used Oil Activities	
1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you	1. Off-specification used oil burner Indicate type(s) of Combustion devices	
accumulate 2,200 pounds of lamps at any time)	☐ a. Utility boiler	
	└ b. Industrial boiler	
(Mark all boxes that apply)	☐ c. Industrial furnace	
Generated Accumulated	2. Used oil transporter Indicate type(s) of activity(s)	
a. Batteries	🖳 a. Transporter	
b. Thermostats	☐ b. Transfer Facility	
c. Mercury containing equipment (Including Thermostats)	3. Used oil processor/re-refiner Indicate type(s) of activity(s)	
d. Lamps	☐ a. Process	
	☐ b. Re-refine	
	4. Used Oil Fuel Marketer	
☐ 2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner	
	b. First claim the used oil meets the specifications	
<b>D. Eligible Academic Entities with Laboratories</b> – Noti management under, the State Academic Laboratory Rule (under WAC 173-303-235.		
1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)  a. College or University.  b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.  c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.  2. Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)  11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)		
B. Waste Codes for State Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)		
I am interested in the electronic filing of my Dangerous Waste Annual Reporting and Site Identification information to Ecology over the Internet. Ecology will issue a PIN number, along with electronic filing instructions, in a letter addressed to the Form Contact in Section 9 on this form.		
12. Comments		
Ecology Comments		
Help Support User Guide		





User: GLWH461 Role: Ecology User Environment: Production

#### Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2004 Reporting Year: 2004

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County KING

Tax Registration Number 601238698

NAICS Code 44719

Type of Business

4. Company Mailing Address

Organization Name chevron Texaco

Person Name

Mail Address PO Box 6004

San Ramon, CA

94583

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO BOX 47352

OLYMPIA, WA 98504-7358

Country **UNITED STATES** Phone Number 360705-7812 Owner Since 6/18/2001

Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number (713)241-5036

Private Owner Type

7. Site Operator

Organization Name

Person Name	Kathy Norris	
Mail Address	PO Box 6004	
	San Ramon, CA 94583	
Country	UNITED STATES	
Phone Number	925-842-5931	
Operator Since	323 OTZ 3331	
Operator Type	Private	
8. Site Contact		
Person Name	Kathy Norris	
Title	Ratify Norths	
Mailing Address	PO Box 6004 San Ramon, CA	
	94583	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	knorris@cehvrontexaco.com	
9. Forms Contact		
Person Name	Kathy Norris	
Title	DO D - C004	
Mailing Address	PO Box 6004 San Ramon, CA	
	94583	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	knorris@cehvrontexaco.com	
10. Type of Regulated Waste	Activity	
A. Dangerous Waste Activ	ities	
1. Generator of Danger		$\square$ 10. Treatment, Storage, Disposal or Recycling
☐ a. LQG: Large Quantity (Greater than 2,200 lb	os/mo)	(TSDR) Facility (Note: A RCRA Permit is required for this activity)
□ b. MQG: Medium Quan (Between 220 - 2,200	lbs/mo)	<b>11. Immediate Recycler of Off-Site Waste</b> (Up to 72 hours with Ecology permission)
□ c. SQG: Small Quantity (Less than 220 lbs/mo	o)	<b>12. Dangerous Waste Fuel Activity</b> ☐ a. Generator of fuel
d. XQG: No Regulated  d. XQG: No Regulated		□ b. Generator Marketing to Burner
2. Frequency of Genera	ıtion	c. Other Marketers (i.e., blender, distibutor, etc.)
□ a. Monthly □ b. Batch		d. Burner (indicate type of combustion unit)
c. One-time Only		☐ 1. Utility Boiler
3. Transporter of Dange	erous Waste	2. Industrial Furnace
a. Transport own waste		☐ 3. Industrial Furnace e. Deferrals/Exemptions (in federal registry only)
$\Box$ b. Transport for comm		☐ 1. Smelter deferral
4. Recycler of On-Sit	te Waste	$\square$ 2. Small quantity exemption
	se or reclamation of a waste	3. Other (list)
$\square$ 5. Transfer Facility o	of Dangerous Waste	
$\Box$ 6. Permit-by-Rule (P	PBR)	
$\Box$ 7. Treatment-by-Ger	nerator (TBG)	
$\square$ 8. Generator of Mixe	ed Radioactive Waste	
$\Box$ 9. Importer of Dange		
J. Importor or Jung.		

B. Universal Waste Activities	C. Used Oil Activities		
1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)	Off-specification used oil burner     Indicate type(s) of Combustion devices     □ a. Utility boiler     □ b. Industrial boiler		
(Mark all boxes that apply)			
(Mark all boxes that apply)	☐ c. Industrial furnace  2. Used oil transporter		
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment	- 11		
(Including Thermostats)	Indicate type(s) of activity(s)		
d. Lamps	☐ a. Process☐ b. Re-refine		
	4. Used Oil Fuel Marketer		
2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner		
	b. First claim the used oil meets the specifications		
<b>D. Eligible Academic Entities with Laboratories</b> – Not management under, the State Academic Laboratory Rule (under WAC 173-303-235.			
<ol> <li>Yes, I am managing dangerous wastes under this rule. (Mark all that apply)         <ul> <li>a. College or University.</li> <li>b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.</li> <li>c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.</li> </ul> </li> <li>Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)</li> </ol>			
11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - F			
<b>B. Waste Codes for State Regulated Dangerous Wast</b> (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corr			
$\square$ I am interested in the electronic filing of my Dangerous information to Ecology over the Internet. Ecology will issuin a letter addressed to the Form Contact in Section 9 on the section 9 on the Ecology will be section 9 on the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecology will be set to the Ecol	e a PIN number, along with electronic filing instructions,		
12. Comments			
Ecology Comments			
Help Support User Guide			





HOME

«« History Site ID Form - View Only

User: GLWH461 Role: Ecology User Environment: Production

#### Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2003 Reporting Year: 2003

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Downstream 211558

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County KING

Tax Registration Number 601238698 NAICS Code 44719

Type of Business

4. Company Mailing Address

Organization Name chevron Texaco

Person Name

Mail Address PO Box 6004

San Ramon, CA

94583

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO BOX 47352

OLYMPIA, WA 98504-7358

Country **UNITED STATES** Phone Number 360705-7812 Owner Since 6/18/2001 Owner Type Private

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number (713)241-5036

Private Owner Type

7. Site Operator Organization Name

Person Name	Kathy Norris	
Mail Address	PO Box 6004	
	San Ramon, CA 94583	
Country	UNITED STATES	
Phone Number	925-842-5931	
Operator Since	323 OTZ 3331	
Operator Type	Private	
8. Site Contact		
Person Name	Kathy Norris	
Title	Ratify Norths	
Mailing Address	PO Box 6004 San Ramon, CA	
	94583	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	knorris@cehvrontexaco.com	
9. Forms Contact		
Person Name	Kathy Norris	
Title	DO D - C004	
Mailing Address	PO Box 6004 San Ramon, CA	
	94583	
Country	UNITED STATES	
Phone Number	925-842-5931	
Email Address	knorris@cehvrontexaco.com	
10. Type of Regulated Waste	Activity	
A. Dangerous Waste Activ	ities	
1. Generator of Danger		$\square$ 10. Treatment, Storage, Disposal or Recycling
☐ a. LQG: Large Quantity (Greater than 2,200 lb	os/mo)	(TSDR) Facility (Note: A RCRA Permit is required for this activity)
□ b. MQG: Medium Quan (Between 220 - 2,200	lbs/mo)	<b>11. Immediate Recycler of Off-Site Waste</b> (Up to 72 hours with Ecology permission)
□ c. SQG: Small Quantity (Less than 220 lbs/mo	o)	<b>12. Dangerous Waste Fuel Activity</b> ☐ a. Generator of fuel
d. XQG: No Regulated  d. XQG: No Regulated		□ b. Generator Marketing to Burner
2. Frequency of Genera	ıtion	c. Other Marketers (i.e., blender, distibutor, etc.)
□ a. Monthly □ b. Batch		d. Burner (indicate type of combustion unit)
c. One-time Only		☐ 1. Utility Boiler
3. Transporter of Dange	erous Waste	2. Industrial Furnace
a. Transport own waste		☐ 3. Industrial Furnace e. Deferrals/Exemptions (in federal registry only)
$\Box$ b. Transport for comm		☐ 1. Smelter deferral
4. Recycler of On-Sit	te Waste	$\square$ 2. Small quantity exemption
	se or reclamation of a waste	3. Other (list)
$\square$ 5. Transfer Facility o	of Dangerous Waste	
$\Box$ 6. Permit-by-Rule (P	PBR)	
$\Box$ 7. Treatment-by-Ger	nerator (TBG)	
$\square$ 8. Generator of Mixe	ed Radioactive Waste	
$\Box$ 9. Importer of Dange		
J. Importor or Jung.		

B. Universal Waste Activities	C. Used Oil Activities	
1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you	<ul><li>1. Off-specification used oil burner</li><li>Indicate type(s) of Combustion devices</li><li>a. Utility boiler</li></ul>	
accumulate 2,200 pounds of lamps at any time)	☐ b. Industrial boiler	
(Mark all boxes that apply)	$\square$ c. Industrial furnace	
	2. Used oil transporter	
Generated Accumulated		
a. Batteries	☐ a. Transporter	
b. Thermostats	☐ b. Transfer Facility	
c. Mercury containing equipment	3. Used oil processor/re-refiner Indicate type(s) of activity(s)	
d. Lamps	☐ a. Process	
	☐ b. Re-refine	
2. Destination Facility for Universal Waste	4. Used Oil Fuel Marketer	
2. Destination Facility for Universal Waste	a. Directs shipment of used oil to used oil burner	
	☐ b. First claim the used oil meets the specifications	
<b>D. Eligible Academic Entities with Laboratories</b> – Not management under, the State Academic Laboratory Rule (under WAC 173-303-235.		
1. Yes, I am managing dangerous wastes under this rule. (Mark all that apply)  a. College or University.  b. Teaching Hospital that is owned by (or has a formal written affiliation agreement with) a college or university.  c. Non-profit Institute that is owned by (or has a formal written affiliation agreement with) a college or university.  2. Yes, I wish to withdraw from this rule. (If you were managing dangerous wastes under the State Academic Laboratory Rule and you no longer wish to participate, select withdraw.)  11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc)  B. Waste Codes for State Regulated Dangerous Wastes: Identify those codes that best describe your waste. (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, etc)		
(cigi, wide roxio, wide relation, were some con-		
I am interested in the electronic filing of my Dangerous information to Ecology over the Internet. Ecology will issue in a letter addressed to the Form Contact in Section 9 on t	e a PIN number, along with electronic filing instructions,	
12. Comments		
Ecology Comments		
Help Support User Guide		





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«« History Site ID Form - View Only

User: GLWH461 Role: Ecology User Environment: Production

#### Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2002 Reporting Year: 2002

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Service Station Former 128202

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County KING

Tax Registration Number 601238698

NAICS Code 44719

Type of Business

4. Company Mailing Address

Organization Name Equilon Enterprises LLC

Person Name

Mail Address PO Box 2648

> HOUSTON, TX 77252-2099

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO BOX 47352

OLYMPIA, WA 98504-7358

Country **UNITED STATES** Phone Number 360705-7812 Owner Since 6/18/2001

Owner Type

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number (713)241-5036

Owner Type

7. Site Operator Organization Name

Person Name					
Mail Address					
Truit Addi Coo	ı				
Country					
Phone Number					
Operator Since					
Operator Type					
8. Site Contact					
Person Name	JEFF GOOLD				
Title					
Mailing Address	10602 NE 38TH PLACE KIRKLAND, WA 98033				
Country	UNITED STATES				
Phone Number	(425)844-2355				
Email Address					
9. Forms Contact					
Person Name	Sondra Bienvenu				
Title					
Mailing Address	PO BOX 2648 HOUSTON, TX 77252-2648				
Country	UNITED STATES				
Phone Number	(713)241-5036				
Email Address					
10. Type of Regulated Waste	Activity				
A. Dangerous Waste Activ					
1. Generator of Danger	ous Waste	☐ 10. Treatment, Storage, Disposal or Recycling			
a. LQG: Large Quantity Generator (Greater than 2,200 lbs/mo)		(TSDR) Facility (Note: A RCRA Permit is required for this activity)			
b. MQG: Medium Quar (Between 220 - 2,200	ntity Generator Ibs/mo)	<b>11. Immediate Recycler of Off-Site Waste</b> (Up to 72 hours with Ecology permission)			
c. SQG: Small Quantity (Less than 220 lbs/mo	0)	12. Dangerous Waste Fuel Activity  a. Generator of fuel			
✓d. XQG: No Regulated	Waste Generated	b. Generator of fuel  b. Generator Marketing to Burner			
2. Frequency of Genera		c. Other Marketers (i.e., blender, distibutor, etc.)			
☐a. Monthly		d. Burner (indicate type of combustion unit)			
□ b. Batch		1. Utility Boiler			
☐ c. One-time Only	anna Marka	2. Industrial Boiler			
3. Transporter of Dang  a. Transport own wast		3. Industrial Furnace e. Deferrals/Exemptions (in federal registry only)			
b. Transport for comm		Deterrals/exemptions (in rederal registry only)     1. Smelter deferral			
		2. Small quantity exemption			
4. Recycler of On-Site Waste (i.e., on-site use, reuse or reclamation of a waste after it has been generated)		3. Other (list)			
$\square$ 5. Transfer Facility of Dangerous Waste					
☐ 6. Permit-by-Rule (F	☐ 6. Permit-by-Rule (PBR)				
7. Treatment-by-Ge					
☐ 8. Generator of Mixe	ed Radioactive Waste				
$\square$ 9. Importer of Dangerous Waste					
3. Universal Waste Activities C. Used Oil Activities					

1. Large Quantity Handler of Universal Waste (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)	1. Off-specification used oil burner Indicate type(s) of Combustion devices a. Utility boiler b. Industrial boiler c. Industrial furnace
Generated Accumulated  a. Batteries  b. Thermostats  c. Mercury containing equipment (Including Thermostats)  d. Lamps	<ul> <li>2. Used oil transporter Indicate type(s) of activity(s) a. Transporter b. Transfer Facility</li> <li>3. Used oil processor/re-refiner Indicate type(s) of activity(s) a. Process</li> </ul>
	☐ b. Re-refine
$\square$ 2. Destination Facility for Universal Waste	4. Used Oil Fuel Marketer  a. Directs shipment of used oil to used oil
	burner  b. First claim the used oil meets the specifications
<b>D. Eligible Academic Entities with Laboratories</b> – Notificatio management under, the State Academic Laboratory Rule (Subpaunder WAC 173-303-235.	n to participate in, withdraw from, or to report
1. Yes, I am managing dangerous wastes under this rule. (Man	
b. Teaching Hospital that is owned by (or has a form university.	
<ul> <li>□ c. Non-profit Institute that is owned by (or has a for university.</li> <li>2. □ Yes, I wish to withdraw from this rule. (If you were managing the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the propert</li></ul>	
Laboratory Rule and you no longer wish to participate, select w	ithdraw.)
11. Description of Dangerous Waste  A. Waste Codes for Federally Regulated Dangerous Wastes waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive	
B. Waste Codes for State Regulated Dangerous Wastes: Ide (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive,	
$\square$ I am interested in the electronic filing of my Dangerous Waste information to Ecology over the Internet. Ecology will issue a PIN in a letter addressed to the Form Contact in Section 9 on this for	number, along with electronic filing instructions,
12. Comments	
Ecology Comments	
Help Support User Guide	
Help Support User Guide	





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«« History Site ID Form - View Only

User: GLWH461 Role: Ecology User Environment: Production

#### Site ID Form - View Only

1. Reason for Submittal

As a component of the Dangerous Waste Annual Report

Effective Date: 12/31/2001 Reporting Year: 2001

Latitude: 47.59057

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Company Name Texaco Service Station Former 128202

Site Address 1366 31ST AVE S Longitude: 122.293766

SEATTLE, WA

98144-3966

County KING

Tax Registration Number 601238698

NAICS Code 44719

Type of Business

4. Company Mailing Address

Organization Name Equilon Enterprises LLC

Person Name

Mail Address PO Box 2648

> HOUSTON, TX 77252-2099

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO BOX 47352

OLYMPIA, WA 98504-7358

Country **UNITED STATES** Phone Number 360705-7812 Owner Since 6/18/2001

Owner Type

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

**UNITED STATES** Country Phone Number (713)241-5036

Owner Type

7. Site Operator Organization Name

Person Name				
Mail Address				
Trail Address	,			
Country				
Phone Number				
Operator Since				
Operator Type				
8. Site Contact				
Person Name	JEFF GOOLD			
Title				
Mailing Address	10602 NE 38TH PLACE KIRKLAND, WA 98033			
Country	UNITED STATES			
Phone Number	(425)844-2355			
Email Address				
9. Forms Contact				
Person Name	Sondra Bienvenu			
Title				
Mailing Address	PO BOX 2648 HOUSTON, TX 77252-2648			
Country	UNITED STATES			
Phone Number	(713)241-5036			
Email Address				
10. Type of Regulated Waste	e Activity			
A. Dangerous Waste Activ	ities			
1. Generator of Danger	ous Waste	$\square$ 10. Treatment, Storage, Disposal or Recycling		
■a. LQG: Large Quantity (Greater than 2,200 lb	y Generator os/mo)	(TSDR) Facility (Note: A RCRA Permit is required for this activity)		
b. MQG: Medium Quantity Generator (Between 220 - 2,200 lbs/mo)		<b>11. Immediate Recycler of Off-Site Waste</b> (Up to 72 hours with Ecology permission)		
c. SQG: Small Quantit (Less than 220 lbs/mo		12. Dangerous Waste Fuel Activity  ☐ a. Generator of fuel		
d. XQG: No Regulated	Waste Generated	b. Generator Marketing to Burner		
2. Frequency of Genera	ation	c. Other Marketers (i.e., blender, distibutor, etc.)		
a. Monthly		d. Burner (indicate type of combustion unit)		
b. Batch		$\square$ 1. Utility Boiler		
☐ c. One-time Only		2. Industrial Boiler		
3. Transporter of Dang		3. Industrial Furnace		
☐a. Transport own wast		e. Deferrals/Exemptions (in federal registry only)		
☐ b. Transport for comm		$\square$ 1. Smelter deferral $\square$ 2. Small quantity exemption		
4. Recycler of On-Site Waste (i.e., on-site use, reuse or reclamation of a waste after it has been generated)		3. Other (list)		
$\square$ 5. Transfer Facility of Dangerous Waste				
☐ 6. Permit-by-Rule (F	PBR)			
7. Treatment-by-Ge				
☐ 8. Generator of Mixe	ed Radioactive Waste			
$\square$ 9. Importer of Dang	erous Waste			
B. Universal Waste Activit	3. Universal Waste Activities C. Used Oil Activities			

1. Large Quantity Handler of Universal Waste  (You accumulate 11,000 pounds or more of batteries, mercury containing equipment, and lamps; or you accumulate 2,200 pounds of lamps at any time)  (Mark all boxes that apply)  Generated Accumulated  a. Batteries	1. Off-specification used oil burner Indicate type(s) of Combustion devices  a. Utility boiler  b. Industrial boiler  c. Industrial furnace  2. Used oil transporter Indicate type(s) of activity(s)  a. Transporter  b. Transfer Facility		
c. Mercury containing equipment (Including Thermostats)	3. Used oil processor/re-refiner Indicate type(s) of activity(s)		
d. Lamps	☐ a. Process☐ b. Re-refine		
	4. Used Oil Fuel Marketer		
2. Destination Facility for Universal Waste	$\square$ a. Directs shipment of used oil to used oil burner		
	b. First claim the used oil meets the specifications		
<b>D. Eligible Academic Entities with Laboratories</b> – Notification management under, the State Academic Laboratory Rule (Subpaunder WAC 173-303-235.			
1. Yes, I am managing dangerous wastes under this rule. (Mar	k all that apply)		
b. Teaching Hospital that is owned by (or has a form university.	nal written affiliation agreement with) a college or		
$\square$ c. Non-profit Institute that is owned by (or has a for university.	rmal written affiliation agreement with) a college or		
2. Yes, I wish to withdraw from this rule. (If you were managir Laboratory Rule and you no longer wish to participate, select wi			
11. Description of Dangerous Waste			
A. Waste Codes for Federally Regulated Dangerous Wastes waste. (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive			
<b>B. Waste Codes for State Regulated Dangerous Wastes:</b> Ide (e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - Persistent, WSC2 - Solid Corrosive, e.g., WT02 - Toxic, WP02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 - WT02 -			
$\square$ I am interested in the electronic filing of my Dangerous Waste information to Ecology over the Internet. Ecology will issue a PIN in a letter addressed to the Form Contact in Section 9 on this form	number, along with electronic filing instructions,		
12. Comments			
Ecology Comments			
Help Support User Guide			





User: GLWH461 Role: Ecology User Environment: Production

Site ID Form - View Only

Administration

Date Received 6/18/2001

Date Acknowledgment Sent

1. Reason for Submittal

To provide **New** Notification of Regulated Waste Activity

Effective Date: 6/18/2001

Latitude: 47.59057

Reporting Year:

2. RCRA Site ID Number: WAH000015305

3. Site Location Information

Texaco Service Station Former 128202 Company Name

Site Address Longitude: 122.293766 1366 31ST AVE S

SEATTLE, WA

98144-3966

County **KING** 

Tax Registration Number 601238698

NAICS Code 44719

Type of Business

4. Company Mailing Address

Organization Name Equilon Enterprises LLC

Person Name

Mail Address PO Box 2648

> HOUSTON, TX 77252-2099

**UNITED STATES** Country

5. Legal Owner

Organization Name WA DOT Facilities HazMat

Person Name

Mail Address PO BOX 47352

OLYMPIA, WA

98504-7358

Country **UNITED STATES** 360705-7812 Phone Number Owner Since 6/18/2001

Owner Type

6. Land Owner

Organization Name Equillon Enterprises LLC

Person Name

Mail Address PO Box 2648

HOUSTON, TX

77252

Country **UNITED STATES** Phone Number (713)241-5036

Owner Type		
7. Site Operator		
Organization Name		
Person Name		
Mail Address		
Country	1	
Phone Number		
Operator Since		
Operator Type		
8. Site Contact		
Person Name	JEFF GOOLD	
Title		
Mailing Address	10602 NE 38TH PLACE KIRKLAND, WA 98033	
Country	UNITED STATES	
Phone Number	(425)844-2355	
Email Address		
9. Forms Contact		
Person Name		
Title		
Mailing Address	1	
Country	•	
Phone Number		
Email Address		
10. Type of Regulated Waste		
A. Dangerous Waste Activ		
1. Generator of Danger		10. Treatment, Storage, Disposal or Recycling
☐ a. LQG: Large Quantit _ (Greater than 2,200 II		(TSDR) Facility (Note: A RCRA Permit is required for this activity)
	ntity Generator I lbs/mo)	11. Immediate Recycler of Off-Site Waste (Up to 72 hours with Ecology permission)
c. SQG: Small Quantit		12. Dangerous Waste Fuel Activity
(Less than 220 lbs/mo		a. Generator of fuel
2. Frequency of Genera		☐ b. Generator Marketing to Burner
a. Monthly		c. Other Marketers (i.e., blender, distibutor, etc.) d. Burner (indicate type of combustion unit)
<b>☑</b> b. Batch		1. Utility Boiler
C. One-time Only		2. Industrial Boiler
3. Transporter of Dang	erous Waste	3. Industrial Furnace
a. Transport own wast		e. Deferrals/Exemptions (in federal registry only)
☐ b. Transport for comm	ercial purposes	1. Smelter deferral
4. Recycler of On-Sit (i.e., on-site use, reus after it has been gene	se or reclamation of a waste	2. Small quantity exemption 3. Other (list)
☐ 5. Transfer Facility of	of Dangerous Waste	
☐ 6. Permit-by-Rule (F	PBR)	
7. Treatment-by-Ge	nerator (TBG)	
8. Generator of Mixe	ed Radioactive Waste	
$\square$ 9. Importer of Dang	erous Waste	

B. Universal Waste Activities  1. Large Quantity Handler of Uni (You accumulate 11,000 pounds of mercury containing equipment, ar accumulate 2,200 pounds of lamp	r more of batteries, d lamps; or you	C. Used Oil Activities  1. Off-specification used oil burner Indicate type(s) of Combustion devices  a. Utility boiler b. Industrial boiler
(Mark all boxes that apply)		c. Industrial furnace 2. Used oil transporter
a. Batteries b. Thermostats c. Mercury containing equipment (Including Thermostats) d. Lamps	Generated Accumulat	Indicate type(s) of activity(s)  a. Transporter b. Transfer Facility  3. Used oil processor/re-refiner Indicate type(s) of activity(s)  a. Process
2. Destination Facility for Univ	versal Waste	b. Re-refine  4. Used Oil Fuel Marketer  a. Directs shipment of used oil to used oil burner  b. First claim the used oil meets the specifications
		otification to participate in, withdraw from, or to report e (Subpart K) for managing laboratory dangerous waste
university.  c. Non-profit Inst university.	ital that is owned by (or itute that is owned by (or own this rule. (If you wer	has a formal written affiliation agreement with) a college or r has a formal written affiliation agreement with) a college or e managing dangerous wastes under the State Academic , select withdraw.)
<b>11. Description of Dangerous Wa A. Waste Codes for Federally I</b> waste. (e.g., D001 - Ignitable, D0	Regulated Dangerous	<b>S Wastes:</b> Identify those codes that best describe your - Reactive, etc)
<b>B. Waste Codes for State Regu</b> (e.g., WT02 - Toxic, WP02 - Persi		<b>estes:</b> Identify those codes that best describe your waste. prrosive, etc)
	nternet. Ecology will iss	us Waste Annual Reporting and Site Identification sue a PIN number, along with electronic filing instructions, n this form.
12. Comments		
Ecology Comments new		
Help Support User Guide		



# **Appendix J**Site Visit Checklist





### **GENERAL INFORMATION**

Date	10.12.2016	Arrival Time:	1253	Departure Time:	1355
Wea	ther Conditions: SUNNY	CLEAR, COL	oF.		
Inspe	ector (Name, Title): 🔝 💆 😇	GARDIER			
Site (	Contact (Name, Title): NA	(VACANT)			
The sc	ource (Name/Agency/Publicat	tion) of all data sho	ould be provided	l with the data.	
1.0	PHYSICAL SITE DESCR	RIPTION			
	Facility/Project Name:	VACANT PA	RUELS		
	Address:	IRVING &	AKIMA -	1300 BLOCK YAK	MA AVES
	City, State, Zip:	SEATTLE, 1	NA	·	
	County:	KING			
	Property Boundaries (Street	names, developm	ent, woods, lake	es, etc.)	
	North: RESIDENTIAL	(1302 YAKIN	AA), S. Ju	DKINS ST	
	South: RESIDENTIAL		WSDo-	T 1-90 FACILITY	
	East: RESIDENTIAL	. (1311, 1315,	1319,1323,	1325 30TH AVE	5)
	West: YAKIMA ANE	S, RESIDEN	Th As_		
	Methods of Investigation (\		eter, etc.): wa	LK BOUTH WEST	NORTH PERIMETER
	PORTIONS OF BAST				
	BRAMBLES ON SITE		<del>)                                    </del>		
	Accessed/Did Not Access:		PROPERTY	LINE ( OVERGROWN	W/ BRAMBLES)
2.0 G	ENERAL PHYSICAL CON				
	Size of Site (Acres/sqft):	1 37 ACDES			
		ECTANGULAR			
		even	*		
Land U		EVEN			
		sidontial commor	aial industrially		
	PA RCEVS	isidential, commer	ciai, industriai):	VACANT, UNDEVE	LOPED, OVERGROWA
	Zoned:	RESIDENTI.	AL (LOW	- eise lr2)	
	Percentage of Occupancy:	ZERO			
	Tenant Life (Use):	NA			
	Land Cover:	OVERGROWN	VEGETAT	107	
	Number of Buildings:	7.50.0			



	Number of Stories:	NA			-			<u></u>
	Age of Buildings:	NA						-
	Size of Buildings:	NA						
	Materials Building Con	structed of:	- 1 -					
	Condition and Cleanline		gs and Surro	unding Area	(Debris, dui	mps, equipment	clutter):	
		NA						
	Warnings, Notices and	Dormite Dienl	laved (Typo):		1			
	warnings, notices and	remins Dispi	ayeu (Type).	NUT	NOTED			
	Evidence of Past Use (D	isturbed area	as/patched p	avement/de	molition rei	mains):		
	GROUND WHENE							
		,						
Odors								
040/5	5		13					
	Description (Gasoline, p	paint, chemica	al): <u>NOT</u>	HOTED				
	Location:					·		
	·							
Cnille								-
Spills								
	Location: NOT	MOTED						
	Description /Size comp							
	Description (Size, comp	osition):				<del>-</del>		
	/o		**					
stainin	g (On walls, ceilings, floo	rs, ground, so	ııl, etc.)					
	Location: Not	NOTED						
	Color:						- <del></del>	
	Description (Size comp.	osition):						
	Description (Size, comp	JSILIOIIJ		•				
•								
/acet=	ution.							
/egeta								
	Ground Cover (Trees, gr							
	MAPLE, HOLLY, HA	WHORK, CH	HERRIES,	LAURELS	- BRAN	ABLES		



	Discoloration (Description/location/probable cause):
	Bare Spots (Location/probable cause): FILL, CONCRETE FUBBLE, SE COLNER
	Stunted Vegetation Growth (Location/description):
	Increased Vegetation Growth (Location/description): NA
Тород	raphy
	Relief (Flat, gently rolling, sloping, hilly, karst): TERRACED INTO STEEP HILLSIDE
	Regional and Local Slope: SLOPES DONNHUL TO WARD THE WEST
	Elevation:
	Depression/pits/lagoons (Description/location): NOT NOTED
	Evidence of Fill (Changed topography, immature vegetation, mining activities-description/location):  SE CORNER FILLED FOR RETAINING WALL AT BEHIND 1325 SOTH ME
	Source of Fill (Source of information):
Hydrol	logy
	Ponds, Streams, Ditches, etc. (Location, direction, distance): NOT NOTES
	Wetlands (Detailed study required?):
	Source of Water (Where water in streams, rivers, ditches is flowing from: NA
	Discharge Points of Water: NA
	Site Receives/Surface Water Run-off from. (Direction):
	Run-off from Site Flows to (Direction into inlets, street, adjacent land): NEST AND YAKINA AVE
	Wastewater Discharge:
	Flood Plain:



Geolog	gy and Hydrogeology (Record Review)
	Soil Type. (Clay, sand, loam): GLACIAL TILL, SILTY SAND WITH GRAVAL (SM)  Drainage (Good, fair, poor): POOL INFILTRATION, SLOPES FAVORABLE FOR RUNOFF  Depth of Bedrock: 7/00 FT  Groundwater Depth/Flow Direction: PRESUMED WEST PERCHED < 10 FT, DEEP 50-10
3.0 S	TORAGE
USTs	
	Evidence of On-Site/Adjacent Site UST's (Pipes, vents, pump islands, fill caps, patching): NA
	Monitor Systems (Location):
	Contents
	Tank ID #:
	SIZE:
	Age: Tank Type (Steel, fiberglass, composite): Records (Tightness, testing, inventory):
ASTs	Location: NA
	Contents:
	Age/Condition of Tank/Type of Tank/Size:
	Evidence of Spills/Leaks/Containment:
4.0 P	CBS (TRANSFORMERS, FLORESCENT LIGHT BALLASTS, HYDRAULIC LIFTS)
	Type/Number of Equipment:
	ID#:
	Labeled:
	Location:
	Condition of Units:



C	Condition of Surroundings:					
	Owner of Units:					
P	CB Content:					
5.0 EQU	JIPMENT USED ON SITE					
Т	ype of Equipment (Processing, maintenance):					
L	ocation:					
С	hemicals Used by Equipment (Process):					
Chemicals Used in Cleaning Equipment (Maintenance):						
C	leanliness/Upkeep of Equipment:					
ilTU 0.	LITIES (INCLUDE NAME OF PUBLIC UTILITY)					
С	ity/Well Water (Age/test results): SERVICES NOT CONNECTED					
	ewer Water (Leach field, dry wells, age): MUNICIPAL STUBS IN STREET (SEATLE					
<u> </u>	USLIC UTILITIES)					
Se	eptic System (Tiles or leach field/age/records): NA					
_						
O	n-Site Treatment Facility (Lagoons, ponds, age/records): NA					
	Common News (Acc): 22 2000 in the INFORMATION OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME OF A LIGHT NAME					
	ower (Company Name/Age): PROPERTY NOT CONNECTED, SEATTLE CITY LIGHT					
_11	N RIGHT. OF. WAY					
- N	atural Gas (Age): PROPERTY NOT CONNECTED PUCHET SOUND ENDECTY IN ROW					



#### 7.0 WASTE AND CHEMICAL HANDLING

	Size/Numbers/Type of Storage Containers:
	Location:
	Contents:
	Condition of Containers (Covered, labeled, corroded):
	Disposal Methods (Who/frequency):
	Spills/Leaks:
	On-Site Chemicals (MSDS) (Get copies):
	Purpose of Chemicals (Process, cleaning):
	rulpose of chefficals (Frocess, clearing).
	Use of Herbicides or Pesticides:
8.0 A	CMs
	ACM Inspector: NA
	Suspect ACMs Observed:
_	
	Condition:
	Classification:
	Location:
	Quantity:
-	



## 9.0 LEAD/LEAD IN PAINT

Lead in Paint Inspector:
Maps Checked:
Agency Personnel, Records, Surveys:
Samples (Number, location, date, method):
Maps Checked:
Agency Sources, etc.:
Maps Checked:
Agency Sources, etc.:
WETLANDS/SEISMIC/OIL AND GAS/HYDROGEOLOGIC/TRANSMISSION TOWER
Maps, Agency Personnel, Records, Surveys Checked:
Description (Reported/observed):
ADJACENT LAND USE
Property Use (North): DESIDENTIAL - 1302 YAKIMA AVE.S.
Property Use (South): 251 DEN TIAL
Property Use (East): 231DENTIAL - 1311, 1315, 1319, 1323, 1325 30TH AVE S
Property Use (West): RESIDENTIAL -
Potential Concerns (USTs, ASTs, spills, operations, age) NA - POT ENTAL HEATING OIL



## 12.0 PAST USE OF PROPERTY AND SURROUNDING AREA

	Topography: SL	opes over	40%	DOWN HILL	. TOWARD THE	WEST		
			_					
USTs (For on-site USTs include all information): NEABY OFF - PROPERTY RESIDEN								
ORIGINALLY EQUIPPED WITH OIL-BURNING HEAT SYSTEM								
ASTs (Include all information):								
	Solid/Hazardous Was	te: NA						
	••••••••••••••••••••••••••••••••••••••			· · ·				
	Spills and Leaks:	NA						
	opino ana Leako.	1021						
				-				
13.0 I	INTERVIEWS							
	Property Owner/Tena	nt (Name):						
	Adjacent Properties:							
	Local Regulatory:							
14.0 ľ	MISCELLANEOUS I	NFORMATION						
		· · · · · · · · · · · · · · · · · · ·		<u> </u>		<del></del>		
		<del></del>		<u> </u>				