TEXACO STATION # 63232 0037
KING Co. - Seattle
LUST # 2298

EMCON
18912 North Creek Parkway • Suite 100 • Bothell, Washington 98011-8016 • (206) 485-5000 • Fax (206) 486-9766

SR 4/22/96 ok

March 8, 1996
Project 40368-013.011

Ms. Theresa Geijer
Texaco Environmental Services
3400 188th Street SW, Suite 630
Lynnwood, Washington 98037

Re: Groundwater Sampling Report
Texaco Service Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Dear Ms. Geijer:

This letter report documents recent groundwater sampling activities that EMCON conducted at Texaco Service Station 63-232-0037, 8701 Greenwood Avenue North, Seattle, Washington (Figure 1). On February 27, 1996, EMCON measured the groundwater depth in five monitoring wells, collected groundwater samples, and submitted the samples for laboratory analysis.

Attached are a site vicinity map, a groundwater data map, historical tables of groundwater monitoring data and groundwater laboratory results, the field sampling data sheets, a chain-of-custody form, and laboratory report for the February 27, 1996, sampling event.

If you have any questions about this report, please call.

Sincerely,

EMCON

Holly Corner
Holly Corner
Project Manager

Michelle Lange for Michael Paulsen
Michael Paulsen
Project Chemist

Attachments: Figures 1 and 2
Tables 1 and 2
Field Sample Data Sheets, February 27, 1996
Laboratory Report and Chain-of-custody Documentation

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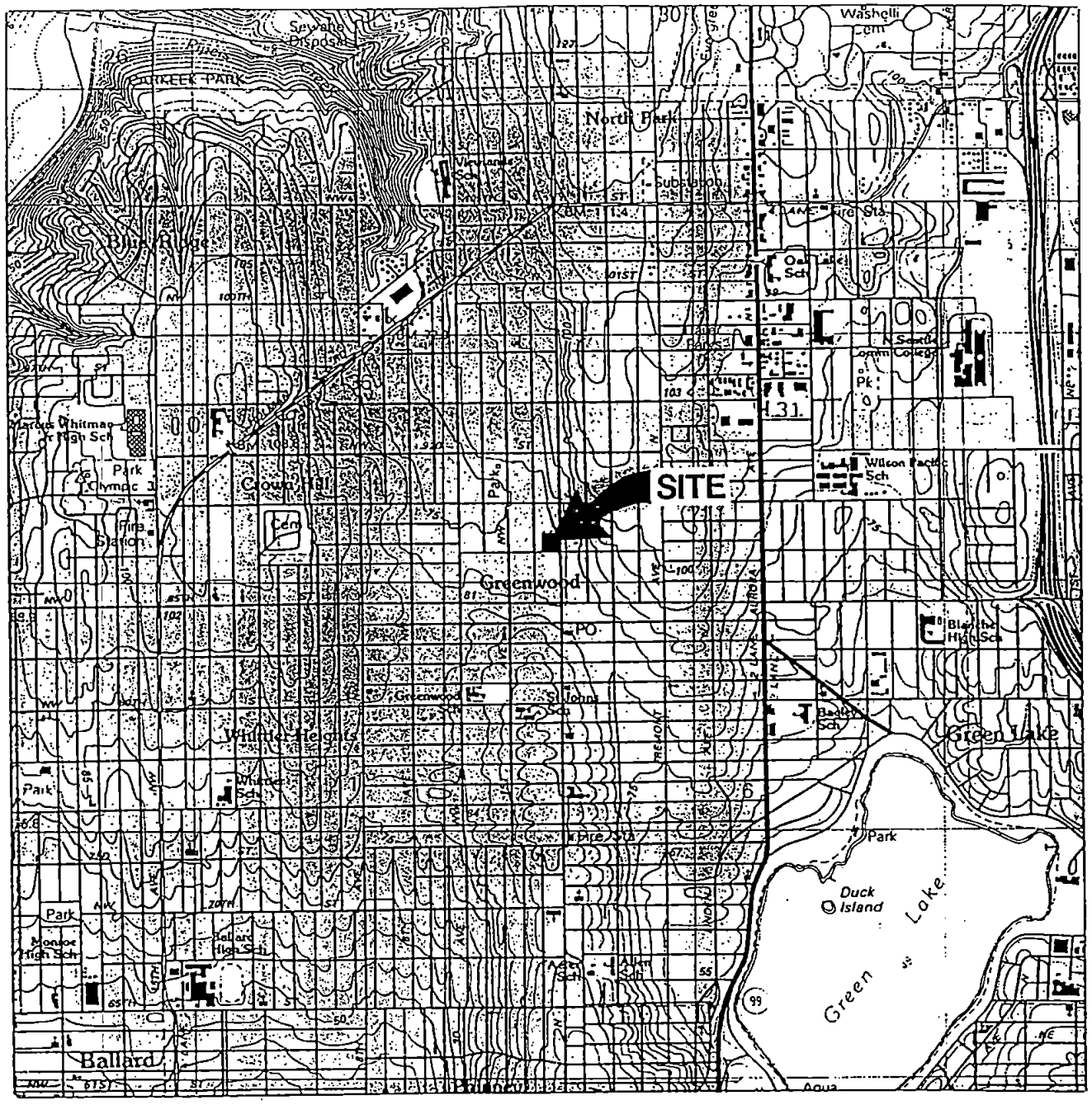
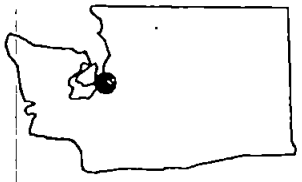


SOURCE: U.S.G.S. 7.5' x 15' Quadrangle, Seattle North, WA.



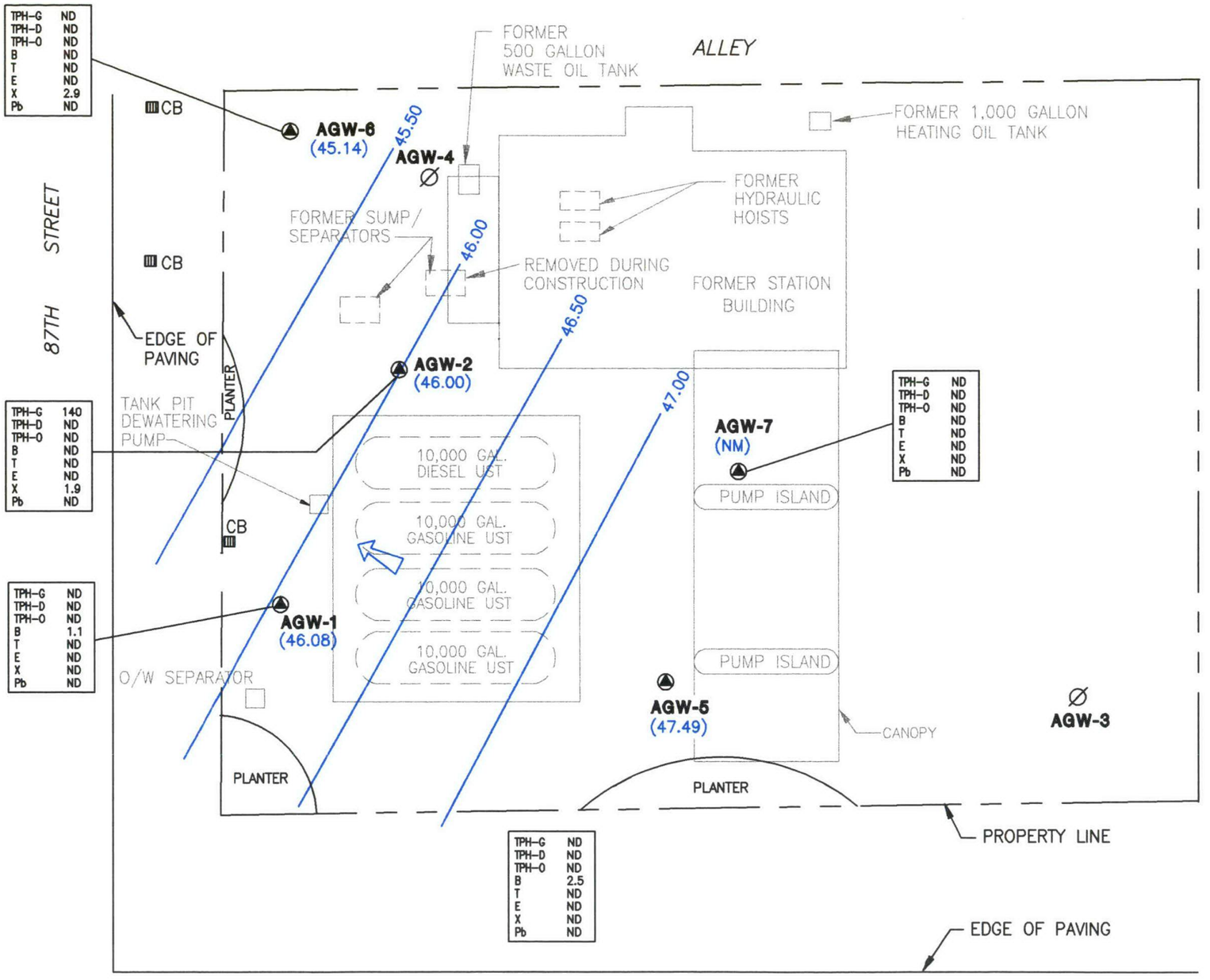
WASHINGTON

EMCON

DATE 3-95
DWN. MLP
REV.
APPR.
PROJECT NO.
0368-013.11

Figure 1
TEXACO SERVICE STATION
8701 GREENWOOD AVENUE NORTH
SEATTLE, WASHINGTON

SITE LOCATION MAP



GREENWOOD AVENUE NORTH

LEGEND:

- **AGW-1** ▲ Monitoring Well Location and Well Number
- **AGW-3** ∅ Decommissioned Monitoring Well
- CB Catch Basin
- —— 46.00 —— Groundwater Elevation Contour
- (46.08) Relative Groundwater Elevation
- Inferred Groundwater Flow Direction
- (NM) Actual elevation could not be calculated because of flowing conditions at the well.

Contours may not reflect potential effects of the former UST basin.

TPH-G	ND
TPH-D	ND
TPH-O	ND
B	2.5
T	ND
E	ND
X	ND
Pb	ND

Laboratory Results in Parts per Billion

TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-O = Total Petroleum Hydrocarbons as Oil
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
Pb = Total Lead
ND = Not Detected at or Above Method Reporting Limits
-- = Not Analyzed

EMCON

0 20 40
SCALE (ft)

DATE 3-96
DWN. MLP
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APPR.
PROJECT NO.
40368-013.011

Figure 2
TEXACO SITE # 63-232-0037
8701 GREENWOOD AVENUE NORTH
SEATTLE, WASHINGTON
GROUNDWATER DATA, FEBRUARY 27, 1996

I=20 3-07-96 G:\DWG\0368\013\011\BOR00102

Table 1

Groundwater Monitoring Data
Texaco Service Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Screened Interval (feet bgs)	Top of Casing Elevation (feet)	Date	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (feet)	Groundwater Elevation Change Since Last Measurement (feet)
AGW-1	4.5 - 19.5	47.36	04/03/91	3.18	None	44.18	—
			05/15/91	—	None	—	—
			08/15/91	0.62	None	46.74	+2.56
			11/21/91	0.70	None	46.88	+0.14
			03/06/92	0.47	None	46.89	+0.01
			11/06/92	0.46	None	46.90	+0.01
			03/26/93	0.49	None	46.87	-0.03
			06/09/93	0.42	None	46.94	+0.07
		47.36*	03/17/94	1.99	None	45.37	-1.57
			11/10/94	1.21	None	46.15	+0.78
			02/24/95	6.90	None	40.46	-5.69
			06/28/95	5.93	None	41.43	+0.97
			09/11/95	2.31	None	45.05	+3.62
			12/11/95	1.17	None	46.19	1.14
			02/27/96	1.28	None	46.08	-0.11
AGW-2	4.5 - 19.0	47.59	04/03/91	3.43	None	44.16	—
			05/15/91	—	None	—	—
			08/15/91	1.65	None	45.94	+1.78
			11/21/91	1.30	None	46.29	+0.35
			03/06/92	1.14	None	46.45	+0.16
			11/06/92	1.18	None	46.41	-0.04
			03/26/93	1.18	None	46.41	0.00

Table 1

Groundwater Monitoring Data
Texaco Service Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Screened Interval (feet bgs)	Top of Casing Elevation (feet)	Date	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (feet)	Groundwater Elevation Change Since Last Measurement (feet)
AGW-2			06/09/93	1.06	None	46.53	+0.12
(continued)			03/17/94	2.18	None	45.46	-0.07
		47.64*	11/10/94	1.57	None	46.07	+0.61
			02/24/95	5.84	None	41.80	-4.27
			06/28/95	5.41	None	42.23	+0.43
			09/11/95	2.12	None	45.52	+3.29
			12/11/95	1.38	None	46.26	+0.74
			02/27/96	1.64	None	46.00	-0.26
AGW-3	4.5 - 19.0	49.10	03/29/91	—	None	49.10	—
Well Decommissioned							
AGW-4	4.5 - 19.5	47.97	04/03/91	4.61	None	43.36	—
			05/15/91	—	None	—	—
			08/15/91	2.76	None	45.21	+1.85
			11/21/91	2.45	None	45.52	+0.31
			03/06/92	2.45	None	45.52	0.00
			11/06/92	3.21	None	44.79	-0.76
			03/26/93	3.03	None	44.94	+0.18
			06/09/93	2.66	None	45.31	+0.37
Well Decommissioned							

Table 1

Groundwater Monitoring Data
Texaco Service Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Screened Interval (feet bgs)	Top of Casing Elevation (feet)	Date	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (feet)	Groundwater Elevation Change Since Last Measurement (feet)
AGW-5	4.5 - 19.5	49.47	04/03/91	2.78	None	46.69	—
			05/15/91	—	None	—	—
			08/15/91	1.53	None	47.94	+1.25
			11/21/91	2.40	None	47.07	-0.87
			03/06/92	1.45	None	48.02	+0.95
			11/06/92	2.27	None	47.20	-0.82
			03/26/93	2.05	None	47.42	+0.22
			06/09/93	1.95	None	47.52	+0.10
		49.11*	03/17/94	1.65*	None	47.46	-0.06
			11/10/94	3.52	None	45.59	-1.87
			02/24/95	3.79	None	45.32	-0.27
			06/28/95	3.61	None	45.50	+0.18
			09/11/95	3.62	None	45.49	-0.01
			12/11/95	2.16	None	46.95	+1.46
			02/27/96	1.62	None	47.49	+0.54
AGW-6	14.0 - 24.0	46.17*	03/17/94	.51	None	45.66	—
			11/10/94	1.58	None	44.59	-1.07
			02/24/95	2.62	None	43.55	-1.04
			06/28/95	3.97	None	42.20	-1.35
			09/11/95	1.70	None	44.47	+2.27
			12/11/95	1.21	None	44.96	+0.49
			02/27/96	1.03	None	45.14	+0.18

Table 1

Groundwater Monitoring Data
Texaco Service Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Screened Interval (feet bgs)	Top of Casing Elevation (feet)	Date	Depth to Water (feet)	Depth to Product (feet)	Groundwater Elevation (feet)	Groundwater Elevation Change Since Last Measurement (feet)
AGW-7	16.0 - 26.0	48.70	03/17/94	.05	None	48.65	—
			11/10/94	0.00	None	48.70	+0.05
			02/24/95	1.64	None	47.06	-1.64
			06/28/95	1.26	None	47.44	+0.38
			09/11/95	NM	None	—	—
			12/11/95	NM	None	—	—
			02/27/96	NM	None	—	—

NOTE: * = resurveyed March 16, 1994.
NM = not measurable due to flowing conditions.

Table 2

Groundwater Laboratory Results
Texaco Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Date	Results of Analyses (µg/L)							
		Ecology Method WTPH-G	Ecology Method WTPH-D (extended)		EPA Method 5030/602				EPA Method 7421
		TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
MTCA Method A Cleanup Levels[a]		1,000	1,000	1,000	5	40	30	20	5
AGW-1	04/03/91	ND	—	—	ND	ND	ND	ND	—
	05/15/91	—	—	—	440	1,000	92	670	—
	08/15/91	361,000	—	—	1,400	7,400	1,000	8,100	ND
	11/21/91	47,000	ND	ND	680	6,400	2,000	13,000	—
	03/06/92	48,000	ND	ND	710	3,200	1,400	8,700	ND
	11/06/92	37,000	—	—	95.1	260	1,400	8,200	ND
	03/26/93	18,400	—	—	42.8	27	397	1,450	ND
	06/09/93	15,000	—	—	35.2	23	415	1,530	ND
	03/17/94	1,960	730	ND	17.8	8	24	104	ND
	11/10/94	ND	840	ND	2.2	ND	ND	2	ND
	*11/10/94	ND	—	—	2.2	ND	ND	2	—
	02/24/95	180	ND	ND	4.8	ND	6	6	ND
	02/24/95	190	—	—	5.3	ND	6	7	—
	06/28/95	60	ND	ND	5.3	ND	2	3	ND
	06/28/95	60	ND	ND	5.3	ND	2	3	ND
	09/11/95	ND	ND	ND	0.7	ND	ND	ND	ND
	09/11/95	ND	—	—	0.8	ND	ND	ND	—
	12/11/95	ND	ND	ND	ND	ND	ND	ND	4.3
	02/27/96	ND	ND	ND	1.1	ND	ND	ND	ND

Table 2

Groundwater Laboratory Results
Texaco Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Date	Results of Analyses (µg/L)							
		Ecology Method WTPH-G	Ecology Method WTPH-D (extended)		EPA Method 5030/602				EPA Method 7421
		TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
MTCA Method A Cleanup Levels[a]		1,000	1,000	1,000	5	40	30	20	5
AGW-2	04/03/91	—	—	—	ND	ND	ND	ND	—
	05/15/91	—	—	—	ND	ND	ND	ND	—
	08/15/91	1,030	—	—	250	220	15	86	ND
	11/21/91	7,300	ND	1,200	910	1,300	260	1,200	—
	03/06/92	24,000	ND	1,100	870	3,700	760	4,900	ND
	11/06/92	3,230	—	—	152	98	175	804	ND
	03/26/93	3,390	340	ND	113	33	149	642	ND
	06/09/93	3,270	ND	ND	108	18	164	666	3
	03/17/94	470	270	ND	18.4	ND	17	68	ND
	11/10/94	470	ND	ND	11.5	ND	10	72	ND
	02/24/95	110	ND	ND	2.8	ND	2	14	ND
	06/28/95	60	440	ND	0.6	ND	ND	1	ND
	09/11/95	ND	ND	ND	ND	ND	ND	ND	ND
	12/11/95	74	ND	ND	0.7	ND	ND	1.2	ND
	02/27/96	140	ND	ND	ND	ND	ND	1.9	ND
AGW-2 (dup)	02/27/96	100	—	—	0.99	ND	ND	1.3	—

Table 2

Groundwater Laboratory Results
Texaco Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Date	Results of Analyses (µg/L)							
		Ecology Method WTPH-G	Ecology Method WTPH-D (extended)		EPA Method 5030/602				EPA Method 7421
		TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
MTCA Method A Cleanup Levels[a]		1,000	1,000	1,000	5	40	30	20	5
AGW-3	03/29/91	—	—	—	ND	ND	ND	ND	—
Well Decommissioned									
AGW-4	04/03/91	—	—	—	2.6	20	2.7	31	—
	05/15/91	—	—	—	8.4	19	2.4	20	—
	08/15/91	1,200	3,260	—	11	4	1	7	4
	11/21/91	3,500	ND	2,040	660	700	21	133	—
	03/06/92	ND	ND	800	139	182	3	18	ND
	11/06/92	90	—	—	20.9	13	4	17	ND
	03/26/93	999	480	ND	31.8	35	51	246	ND
	06/09/93	1,900	1,060	ND	61.1	64	108	533	ND
	03/17/94	—	—	—	—	—	—	—	—
Well Decommissioned									
AGW-5	04/03/91	—	—	—	30	10	5	7	—
	05/15/91	—	—	—	220	53	3.5	12	—
	08/15/91	—	—	—	9.4	ND	ND	ND	ND
	11/21/91	100	ND	ND	2.5	ND	ND	ND	—
	03/06/92	ND	ND	ND	0.9	ND	ND	ND	ND

Table 2

Groundwater Laboratory Results
Texaco Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Date	Results of Analyses (µg/L)							
		Ecology Method WTPH-G	Ecology Method WTPH-D (extended)		EPA Method 5030/602				EPA Method 7421
		TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
MTCA Method A Cleanup Levels[a]		1,000	1,000	1,000	5	40	30	20	5
AGW-5, continued	11/06/92	ND	—	—	ND	ND	ND	ND	ND
	03/26/93	ND	—	—	ND	ND	ND	ND	ND
	06/09/93	ND	—	—	ND	ND	ND	ND	ND
	03/17/94	ND	ND	ND	ND	ND	ND	ND	ND
	11/10/94	ND	ND	ND	ND	ND	ND	ND	ND
	02/24/95	ND	ND	ND	30.6	1	2	ND	ND
	06/28/95	ND	ND	ND	ND	ND	ND	ND	ND
	09/11/95	ND	ND	ND	ND	ND	ND	ND	ND
	12/11/95	ND	ND	ND	ND	ND	ND	ND	ND
	02/27/96	ND	ND	ND	2.5	ND	ND	ND	ND
AGW-6	03/17/94	300	ND	ND	10.6	1	14	56	4
	11/10/94	200	ND	ND	7.4	ND	6	29	ND
	02/24/95	460	ND	ND	8.3	2	8	20	ND
	06/28/95	80	ND	ND	4.7	ND	1	7	ND
	09/11/95	ND	ND	ND	3.2	ND	ND	3	ND
	12/11/95	ND	ND	ND	2.8	ND	ND	3.8	ND
	02/27/96	ND	ND	ND	ND	ND	ND	2.9	ND

Table 2

Groundwater Laboratory Results
Texaco Station 63-232-0037
8701 Greenwood Avenue North
Seattle, Washington

Well Number	Date	Results of Analyses (µg/L)							
		Ecology Method WTPH-G	Ecology Method WTPH-D (extended)		EPA Method 5030/602				EPA Method 7421
		TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total Lead
MTCA Method A Cleanup Levels[a]		1,000	1,000	1,000	5	40	30	20	5
AGW-7	03/17/94	ND	ND	ND	ND	ND	ND	ND	ND
	11/10/94	ND	ND	ND	ND	ND	ND	ND	ND
	02/24/95	ND	ND	ND	ND	ND	ND	ND	ND
	06/28/95	ND	ND	ND	ND	ND	ND	ND	ND
	09/11/95	ND	ND	ND	ND	ND	ND	ND	ND
	12/11/95	ND	ND	ND	ND	ND	ND	ND	ND
	02/27/96	ND	ND	ND	ND	ND	ND	ND	ND

NOTE: Shaded values equal or exceed MTCA Method A Cleanup Levels.
ND = not detected at or above method reporting limit.
µg/L = micrograms per liter; approximates parts per billion.
— = not analyzed.
* = results for duplicate sample, designated AGW-8-1194.
TPH-G = total petroleum hydrocarbons as gasoline.
TPH-D = total petroleum hydrocarbons as diesel.
TPH-O = total petroleum hydrocarbons as oil.

[a] Chapter 173-340 WAC, "The Model Toxics Control Act Cleanup Regulation; Method A Cleanup Levels." Amended December 1993.

FIELD SAMPLING DATA SHEET

EMCON
18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016
Office: (206) 485-5000 Fax: (206) 486-9766

Project Name: Texaco-Greenwood Well ID: AGW- 1
Site Address: 8701 Greenwood Ave. N., Seattle, Washington Sample ID: AGW- 1 -296
EMCON Contact: Holly Corner Client Contact: Theresa Geijer Project #: 40368-113.011

Weather:	(Part) Sun	(Part) Cloudy	Rain		Temperature: 35 °F

WATER LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

Date	Time	DT-Bottom	DT-Water	DTB-DTW	DT-Product	DTP-DTW
2/27/96	0818	19.40	1.28	18.12		

Well dia. = Gal/ft: 1"=0.041 2"=0.163 4"=0.653 6"=1.469 10"=4.080 12"=5.875

[Water Col x Gal/ft]

	Volume (gal)
X 1	11.8
X 3	35.4

WATER QUALITY DATA

Pore Vol	Method §	Purged (gal)	pH	Temp (°C)	E Cond (µS)			Other
1	PP	12	7.26	11	270			
2	PP	24	7.31	11	265			
3	PP	36	7.30	11	263			
4	PP							
5	PP							

§ METHOD: (SB) Submersible Pump (PP) Peristaltic Pump (DB) Disposable Bailer (PTB) PVC/Teflon Bailer (Ded B) Dedicated Bailer (DP) Dedicated Pump

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Parameter	Date	Time	Method §	# Bottles	Volume (ml)	Type	Preservative	Ice	Filter
GAS/BTEX	2/27/96	1040	DB	2	40	glass	HCl	Yes	No
WTPH-D (ext)	"	"	PP	1	1000	glass	none	Yes	No
Lead (Total)	"	"	PP	1	500	poly	none	Yes	No

Total Bottles (include duplicate count): | Duplicate ID: | Time:

Water Characterization			Decontamination Materials			
Color	Clarity	Odor	Liquinox	Methanol	HCl	Nitric
gray	slightly turbid	None	D.I. Water	Distilled water	Hexane	

Notes:

SAMPLER: Michael Paulsen
(PRINTED NAME) (SIGNATURE)

FIELD SAMPLING DATA SHEET

EMCON
18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016
Office: (206) 485-5000 Fax: (206) 486-9766

Project Name: Texaco-Greenwood Well ID: AGW- 2
Site Address: 8701 Greenwood Ave. N., Seattle, Washington Sample ID: AGW- 2 -296
EMCON Contact: Holly Corner Client Contact: Theresa Geijer Project #: 40368-113.011

Weather:	(Part) Sun	(Part) Cloudy	Rain		Temperature: 35 °F

WATER LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

Date	Time	DT-Bottom	DT-Water	DTB-DTW	DT-Product	DTP-DTW
2/27/96	0819	19.65	1.64	18.01		

Well dia. = Gal/ft: 1"=0.041 2"=0.163 4"=0.653 6"=1.469 10"=4.080 12"=5.875

[Water Col x Gal/ft]

	Volume (gal)
x1	11.8
x3	35.4

WATER QUALITY DATA

Pore Vol	Method §	Purged (gal)	pH	Temp (°C)	E Cond (µS)			Other
1	PP	12	6.70	11	280			
2	PP	24	6.82	11	282			
3	PP	36	6.81	11	286			
4	PP							
5	PP							

§ METHOD: (SB) Submersible Pump (PP) Peristaltic Pump (DB) Disposable Bailer (PTB) PVC/Teflon Bailer (Ded B) Dedicated Bailer (DP) Dedicated Pump.

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Parameter	Date	Time	Method §	# Bottles	Volume (ml)	Type	Preservative	Ice	Filter
GAS/BTEX	2/27/96	1100	DB	2	40	glass	HCl	Yes	No
WTPH-D (ext)	↓	↓	PP	1	1000	glass	none	Yes	No
Lead (Total)	↓	↓	PP	1	500	poly	none	Yes	No

Total Bottles (include duplicate count): Duplicate ID: Dup-2-022796 Time: 1240

Water Characterization			Decontamination Materials			
Color	Clarity	Odor	Liquinox	Methanol	HCl	Nitric
None	Clear	None	D.I. Water	Distilled water	Hexane	

Notes:

SAMPLER: Michael Paulsen (PRINTED NAME) (SIGNATURE) Michael Paulsen

FIELD SAMPLING DATA SHEET

EMCON
18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016
Office: (206) 485-5000 Fax: (206) 486-9766

Project Name: Texaco-Greenwood **Well ID:** AGW-5
Site Address: 8701 Greenwood Ave. N., Seattle, Washington **Sample ID:** AGW-5 -296
EMCON Contact: Holly Corner **Client Contact:** Theresa Geijer **Project #:** 40368-113.011

Weather: (Part) Sun | (Part) Cloudy | Rain | | Temperature: 35 °F

WATER LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

Date	Time	DT-Bottom	DT-Water	DTB-DTW	DT-Product	DTP-DTW
2/27/96	0821	19.11	1.62	17.49		

Well dia. = Gal/ft: 1"=0.041 2"=0.163 4"=0.653 6"=1.469 10"=4.080 12"=5.875

[Water Col x Gal/ft]

	Volume (gal)
X 1	11.4
X 3	34.2

WATER QUALITY DATA

Pore Vol	Method §	Purged (gal)	pH	Temp (°C)	E Cond (µS)			Other
1	PP	11.4	6.89	10	396			
2	PP	22.8	7.30	11	291			
3	PP	34	7.38	11	278	MP		
4	PP							
5	PP							

§ METHOD: (SB) Submersible Pump (PP) Peristaltic Pump (DB) Disposable Bailer (PTB) PVC/Teflon Bailer (Ded B) Dedicated Bailer (DP) Dedicated Pump

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Parameter	Date	Time	Method §	# Bottles	Volume (ml)	Type	Preservative	Ice	Filter
GAS/BTEX	2/27/96	1130	DB	2	40	glass	HCl	Yes	No
WTPH-D (ext)	"	"	PP	1	1000	glass	none	Yes	No
Lead (Total)	"	"	PP	1	500	poly	none	Yes	No

Total Bottles (include duplicate count): | **Duplicate ID:** | Time:

Water Characterization			Decontamination Materials			
Color	Clarity	Odor	Liquinox	Methanol	HCl	Nitric
None	Clear	None	D.I. Water	Distilled water	Hexane	

Notes: Dry at two pore volumes. Allow to recharge, then sample

SAMPLER: Michael Paulsen (PRINTED NAME) Michael Paulsen (SIGNATURE)

FIELD SAMPLING DATA SHEET

EMCON
18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016
Office: (206) 485-5000 Fax: (206) 486-9766

Project Name:	Texaco-Greenwood	Well ID:	AGW- 6
Site Address:	8701 Greenwood Ave. N., Seattle, Washington	Sample ID:	AGW- 6 -296
EMCON Contact:	Holly Corner	Client Contact: Theresa Geijer	Project #: 40368-113.011

Weather:	(Part) Sun	(Part) Cloudy	Rain		Temperature: 35 °F

WATER LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

Date	Time	DT-Bottom	DT-Water	DTB-DTW	DT-Product	DTP-DTW
2/27/96	0820	23.82	1.03	22.79		

Well dia. = Gal/ft: 1"=0.041 2"=0.163 4"=0.653 6"=1.469 10"=4.080 12"=5.875

[Water Col x Gal/ft]

	Volume (gal)
X 1	14.9
X 3	45

WATER QUALITY DATA

Pore Vol	Method §	Purged (gal)	pH	Temp (°C)	~~E Cond (µS)~~	~~ORP~~		Other
1	PP	15	6.64	11	321			
2	PP	30	6.80	11	333			
3	PP	45	7.10	11	305			
4	PP							
5	PP							

§ METHOD: (SB) Submersible Pump (PP) Peristaltic Pump (DB) Disposable Bailer (PTB) PVC/Teflon Bailer (Ded B) Dedicated Bailer (DP) Dedicated Pump

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Parameter	Date	Time	Method §	# Bottles	Volume (ml)	Type	Preservative	Ice	Filter
GAS/BTEX	2/27/96	1030	DB	2	40	glass	HCl	Yes	No
WTPH-D (ext)	↓	↓	PP	1	1000	glass	none	Yes	No
Lead (Total)	↓	↓	PP	1	500	poly	none	Yes	No

Total Bottles (include duplicate count): | Duplicate ID: | Time:

Water Characterization			Decontamination Materials			
Color	Clarity	Odor	Liquinox	Methanol	HCl	Nitric
None	Clear	None	D.I. Water	Distilled water	Hexane	

Notes:

SAMPLER: Michael Paulsen (PRINTED NAME) Michael Paulsen (SIGNATURE)

FIELD SAMPLING DATA SHEET

EMCON
18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016
Office: (206) 485-5000 Fax: (206) 486-9766

Project Name: Texaco-Greenwood **Well ID:** AGW- 7
Site Address: 8701 Greenwood Ave. N., Seattle, Washington **Sample ID:** AGW- 7 -296
EMCON Contact: Holly Corner **Client Contact:** Theresa Geijer **Project #:** 40368-113.011

Weather:	(Part) Sun	(Part) Cloudy	Rain		Temperature: 35 °F

WATER LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

Date	Time	DT-Bottom	DT-Water	DTB-DTW	DT-Product	DTP-DTW
2/27/96	0815	25.40	0 *	25.40		

Well dia. = Gal/ft: 1"=0.041 2"=0.163 4"=0.653 6"=1.469 10"=4.080 12"=5.875

[Water Col x Gal/ft]

	Volume (gal)
X 1	16.6
X 3	50

WATER QUALITY DATA

Pore Vol	Method §	Purged (gal)	pH	Temp (°C)	E Cond (µS)			Other
1	PP	16.6	7.35	11	266			
2	PP	33	7.40	12	260			
3	PP	50	7.13	12	263			
4	PP							
5	PP							

§ METHOD: (SB) Submersible Pump (PP) Peristaltic Pump (DB) Disposable Bailer (PTB) PVC/Teflon Bailer (Ded B) Dedicated Bailer (DP) Dedicated Pump.

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Parameter	Date	Time	Method §	# Bottles	Volume (ml)	Type	Preservative	Ice	Filter
GAS/BTEX	2/27/96	1200	DB	2	40	glass	HCl	Yes	No
WTPH-D (ext)	↓	↓	PP	1	1000	glass	none	Yes	No
Lead (Total)	↓	↓	PP	1	500	poly	none	Yes	No

Total Bottles (include duplicate count): | **Duplicate ID:** | Time:

Water Characterization			Decontamination Materials			
Color	Clarity	Odor	Liquinox	Methanol	HCl	Nitric
None	Clear	None	D.I. Water	Distilled water	Hexane	

Notes:

* Flowing conditions present at well head. Actual depth to water could not be measured.

SAMPLER: Michael Paulsen (PRINTED NAME) Michael Paulsen (SIGNATURE)

NORTH CREEK ANALYTICAL

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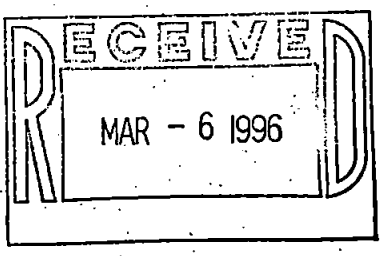
EMCON Northwest	Project Name:	Texaco Seattle, #63-232-0037	
18912 N. Creek Parkway, #100	Client Project :	#40368-113.011	
Bothell, WA 98011			Received: Feb 27, 1996
Attention: Holly Corner	NCA Project #:	B602439	Reported: Feb 29, 1996

PROJECT SUMMARY PAGE



Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled
B602439-01	AGW-1-0296	Water	2/27/96
B602439-02	AGW-2-0296	Water	2/27/96
B602439-03	AGW-5-0296	Water	2/27/96
B602439-04	AGW-6-0296	Water	2/27/96
B602439-05	AGW-7-0296	Water	2/27/96
B602439-06	AGW-8-0296	Water	2/27/96

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.

Matthew T. Essig
Project Manager

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EMCON Northwest	Client Project ID:	Texaco Seattle, #63-232-0037	Sampled:	Feb 27, 1996
18912 N. Creek Parkway, #100	Sample Matrix:	Water	Received:	Feb 27, 1996
Bothell, WA 98011	Analysis Method:	WTPH-G	Analyzed:	Feb 28, 1996
Attention: Holly Corner	First Sample #:	B602439-01	Reported:	Feb 29, 1996

TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE

Sample Number	Sample Description	Sample Result µg/L (ppb)	Surrogate Recovery %
B602439-01	AGW-1-0296	N.D.	97
B602439-02	AGW-2-0296	140	119
B602439-03	AGW-5-0296	N.D.	97
B602439-04	AGW-6-0296	N.D.	99
B602439-05	AGW-7-0296	N.D.	100
B602439-06	AGW-8-0296	100	120
BLK022896	Method Blank	N.D.	100

Reporting Limit:	50

4-Bromofluorobenzene surrogate recovery control limits are 50 - 150 %.
Volatile Total Petroleum Hydrocarbons are quantitated as Gasoline Range Organics (toluene - dodecane).
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig
Project Manager

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EMCON Northwest
18912 N. Creek Parkway, #100
Bothell, WA 98011
Attention: Holly Corner

Client Project ID: Texaco Seattle, #63-232-0037
Sample Matrix: Water
Analysis Method: WTPH-G
Units: µg/L (ppb)

Analyzed: Feb 28, 1996
Reported: Feb 29, 1996

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT
Laboratory Control Sample

Gasoline

Spike Conc. Added:	100
Spike Result:	108
% Recovery:	108
Upper Control Limit %:	132
Lower Control Limit %:	56

PRECISION ASSESSMENT
Sample Duplicate

Gasoline Range Organics

Sample Number:	B602439-01
Original Result:	N.D.
Duplicate Result:	N.D.
Relative % Difference	Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Detection Limit.
Maximum RPD:	50

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Matthew T. Essig
Project Manager

$$\text{\% Recovery:} \quad \frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$$

$$\text{Relative \% Difference:} \quad \frac{\text{Original Result - Duplicate Result}}{(\text{Original Result + Duplicate Result}) / 2} \times 100$$

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EMCON Northwest	Client Project ID:	Texaco Seattle, #63-232-0037	Sampled: Feb 27, 1996
18912 N. Creek Parkway, #100	Sample Matrix:	Water	Received: Feb 27, 1996
Bothell, WA 98011	Analysis Method:	EPA 8020	Analyzed: Feb 28, 1996
Attention: Holly Corner	First Sample #:	B602439-01	Reported: Feb 29, 1996

BTEX DISTINCTION

Sample Number	Sample Description	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes µg/L (ppb)	Surrogate Recovery %
B602439-01	AGW-1-0296	1.1	N.D.	N.D.	N.D.	102
B602439-02	AGW-2-0296	N.D.	N.D.	N.D.	1.9	116
B602439-03	AGW-5-0296	2.5	N.D.	N.D.	N.D.	102
B602439-04	AGW-6-0296	N.D.	N.D.	N.D.	2.9	106
B602439-05	AGW-7-0296	N.D.	N.D.	N.D.	N.D.	105
B602439-06	AGW-8-0296	0.99	N.D.	N.D.	1.3	118
BLK022896	Method Blank	N.D.	N.D.	N.D.	N.D.	102
Reporting Limits:		**0.50**	**0.50**	**0.50**	**1.0**	

4-Bromofluorobenzene surrogate recovery control limits are 59 - 144 %.
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig
Project Manager

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EMCON Northwest
18912 N. Creek Parkway, #100
Bothell, WA 98011
Attention: Holly Corner

Client Project ID: Texaco Seattle, #63-232-0037
Sample Matrix: Water
Analysis Method: EPA 8020
Units: µg/L (ppb)
QC Sample #: B602439-01

Analyzed: Feb 28, 1996
Reported: Feb 29, 1996

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Sample Result:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10.0	10.0	10.0	30.0
Spike Result:	9.7	9.6	10.1	31.1
Spike % Recovery:	97%	96%	101%	104%
Spike Dup. Result:	9.8	9.7	10.1	32.2
Spike Duplicate % Recovery:	98%	97%	101%	107%
Upper Control Limit %:	115	116	122	122
Lower Control Limit %:	82	81	85	85
Relative % Difference:	1.0%	1.0%	0.0%	3.5%
Maximum RPD:	16	16	16	17

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Laura Dutton

Matthew T. Essig
Project Manager

$$\%\ \text{Recovery:} \quad \frac{\text{Spike Result - Sample Result}}{\text{Spike Conc. Added}} \times 100$$

$$\text{Relative \% Difference:} \quad \frac{\text{Spike Result - Spike Dup. Result}}{(\text{Spike Result + Spike Dup. Result}) / 2} \times 100$$

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EMCON Northwest
18912 N. Creek Parkway, #100
Bothell, WA 98011
Attention: Holly Corner

Client Project ID: Texaco Seattle, #63-232-0037
Sample Matrix: Water
Analysis Method: WTPH-D
Units: mg/L (ppm)

Extracted: Feb 27, 1996
Analyzed: Feb 28, 1996
Reported: Feb 29, 1996

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT
Laboratory Control Sample

Diesel

Spike Conc. Added:	2.04
Spike Result:	1.67
% Recovery:	82
Upper Control Limit %:	107
Lower Control Limit %:	69

PRECISION ASSESSMENT
Sample Duplicate

Diesel Range Organics

Sample Number:	B602439-01
Original Result:	N.D.
Duplicate Result:	N.D.
Relative % Difference	Relative Percent Difference values are not reported at sample concentration levels less than 10 times the Reporting Limit.
Maximum RPD:	44

NORTH CREEK ANALYTICAL In

Matthew T. Essig
Project Manager

% Recovery: $\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$

Relative % Difference: $\frac{\text{Original Result - Duplicate Result}}{(\text{Original Result + Duplicate Result}) / 2} \times 100$

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EMCON Northwest	Client Project ID:	Texaco Seattle, #63-232-0037	Sampled:	Feb 27, 1996
18912 N. Creek Parkway, #100	Sample Matrix:	Water	Received:	Feb 27, 1996
Bothell, WA 98011	Analysis Method:	EPA 7421	Digested:	Feb 28, 1996
Attention: Holly Corner	First Sample #:	B602439-01	Analyzed:	Feb 28, 1996
			Reported:	Feb 29, 1996

METALS ANALYSIS FOR: TOTAL LEAD

Sample Number	Sample Description	Reporting Limit µg/L (ppb)	Sample Result µg/L (ppb)
B602439-01	AGW-1-0296	2.0	N.D.
B602439-02	AGW-2-0296	2.0	N.D.
B602439-03	AGW-5-0296	2.0	N.D.
B602439-04	AGW-6-0296	2.0	N.D.
B602439-05	AGW-7-0296	2.0	N.D.
BLK	Method Blank	2.0	N.D.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig
Project Manager

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EMCON Northwest
18912 N. Creek Parkway, #100
Bothell, WA 98011
Attention: Holly Corner

Client Project ID: Texaco Seattle, #63-232-0037
Sample Matrix : Water
Units: µg/L (ppb)

Digested: Feb 28, 1996
Reported: Feb 29, 1996

METALS QUALITY CONTROL DATA REPORT

ANALYTE
Lead

EPA Method: 7421
Date Analyzed: Feb 28, 1996

ACCURACY ASSESSMENT

LCS Spike Conc. Added: 25

LCS Spike Result: 24

LCS Spike % Recovery: 96

Upper Control Limit: 122

Lower Control Limit: 88

Matrix Spike Sample #: B602439-01

MS/MSD % Recovery: 97/99

PRECISION ASSESSMENT

Sample #: B602439-01

Original: N.D.

Duplicate: 2.7

Relative % Difference: RPD values are not reported at sample concentration levels <10 X the Reporting Limit.

NORTH CREEK ANALYTICAL In

Matthew T. Essig
Project Manager

Lab Control Sample % Recovery: $\frac{\text{Conc. of L.C.S.}}{\text{L.C.S. Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Original Result - Duplicate Result}}{(\text{Original Result + Duplicate Result}) / 2} \times 100$

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

EMCON Northwest	Client Project ID:	Texaco Seattle, #63-232-0037	Sampled: Feb 27, 1996
18912 N. Creek Parkway, #100	Sample Matrix:	Water	Received: Feb 27, 1996
Bothell, WA 98011	Analysis Method:	WTPH-D Extended	Extracted: Feb 27, 1996
Attention: Holly Corner	First Sample #:	B602439-01	Analyzed: Feb 28, 1996
			Reported: Feb 29, 1996

TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE EXTENDED

Sample Number	Sample Description	Diesel Result mg/L (ppm)	Heavy Oil Result mg/L (ppm)	Surrogate Recovery %
B602439-01	AGW-1-0296	N.D.	N.D.	99
B602439-02	AGW-2-0296	N.D.	N.D.	97
B602439-03	AGW-5-0296	N.D.	N.D.	96
B602439-04	AGW-6-0296	N.D.	N.D.	90
B602439-05	AGW-7-0296	N.D.	N.D.	98
BLK022796	Method Blank	N.D.	N.D.	94
Reporting Limit:		**0.25**	**0.75**	

2-Fluorobiphenyl surrogate recovery control limits are 50 - 150%.
Extractable Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24) and Heavy Oil Range Organics (>C24).
Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig
Project Manager

NORTH CREEK ANALYTICAL

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

TEXACO CHAIN OF CUSTODY REPORT Work Order #:

CONSULTANT: EMCON
PROJECT MANAGER: Holly Corner
ADDRESS: 18912 N. Creek Pkwy Bothell WA 98105
PHONE: 485-5000 FAX: 486-9766
PROJECT NAME: Texaco - Greenwood
PROJECT NUMBER: 40368-113.011
SAMPLED BY: Michael Paulsen

TEXACO INFORMATION
TEXACO PROJECT MANAGER: Theresa Geiger
TEXACO FACILITY NUMBER:
SITE ADDRESS: 8701 Greenwood Ave N Seattle WA
State Hydrocarbon Methods (please circle): (WA) OR AK ID

TURNAROUND REQUEST in Business Days
Organic & Inorganic Analyses *: 10 | 5 | 3 | (1)
Air Analyses *: 3 | 1
OTHER Specify:
* Standard Turnaround for Organic & Inorganic Analyses is 10 Days
* Standard Turnaround for Air Analyses is 3 Days

NCA SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	Analysis Request: TPH-G/BTEX	TPH-D	TPH-D Extended	TPH-418.1	TPH-HCID	Tot/Diss Lead	MATRIX (W, S, O)	# OF CONTAINERS	COMMENTS & PRESERVATIVES USED
B602439-01	1. AGW-1-0296	2/27/96 1040	X		X			X	W	4	
-02	2. -2-	1100	X		X			X		4	
-03	3. -5-	1130	X		X			X		4	
-04	4. -6-	1030	X		X			X		4	
-05	5. -7-	1200	X		X			X		4	
-06	6. -8-	1240	X							2	
	7.										
	8.										
	9.										
	10.										

RELINQUISHED BY: Michael Paulsen DATE: 2/27/96
PRINT NAME: Michael Paulsen FIRM: EMCON TIME: 1755

RECEIVED BY: Rochelle M Rose DATE: 2/27/96
PRINT NAME: R. Rose FIRM: NCA TIME: 1755

RELINQUISHED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

PAGE OF

REV2

DR CREEK ANALYTICAL

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Ea[illegible] Mon[illegible], Suit[illegible] Spokane [illegible]9206-[illegible] (509)[illegible] F[illegible]290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

TEXACO CHAIN OF CUSTODY REPORT Work Order #:

CONSULTANT: EMCON

PROJECT MANAGER: Holly Corner

ADDRESS: 18912 N. Creek Pkwy Bothell WA 98105

PHONE: 485-5000 FAX: 486-9766

PROJECT NAME: Texaco - Greenwood

PROJECT NUMBER: 40368-113.011

SAMPLED BY: Michael Paulsen

TEXACO INFORMATION

TEXACO PROJECT MANAGER: Theresa Geiger

TEXACO FACILITY NUMBER:

SITE ADDRESS: 8701 Greenwood Ave N Seattle WA

State Hydrocarbon Methods (please circle): (WA) OR AK ID

TURNAROUND REQUEST in Business Days

Organic & Inorganic Analyses *: 10 | 5 | 3 | 1

Air Analyses *: 3 | 1

OTHER Specify:

* Standard Turnaround for Organic & Inorganic Analyses is 10 Days

* Standard Turnaround for Air Analyses is 3 Days

NCA SAMPLE NUMBER	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	Analysis Request: TPH-G/BTEX	TPH-D	TPH-D Extended	TPH-418.1	TPH-HCID	Tot/Diss Lead	MATRIX (W, S, O)	# OF CONTAINERS	COMMENTS & PRESERVATIVES USED
B602439-01	1. AGW-1-0296	2/27/96 1010	X		X			X	W	4	
-02	2. -2-	1100	X		X			X		4	
-03	3. -5-	1130	X		X			X		4	
-04	4. -6-	1030	X		X			X		4	
-05	5. -7-	1200	X		X			X		4	
-06	6. -8-	1240	X							2	
	7.										
	8.										
	9.										
	10.										

RELINQUISHED BY: Michael Paulsen DATE: 2/27/96

PRINT NAME: Michael Paulsen FIRM: EMCON TIME: 1755

RECEIVED BY: Rachelle M Rose DATE: 2/27/9

PRINT NAME: R. Rose FIRM: NCA TIME: 1755

RELINQUISHED BY: DATE:

PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:

PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

PAGE OF

TEXCOC.REV2, 11/95