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SEATTLE**KLEINFELDER***An employee-owned company*

April 6, 2001

Kleinfelder Project No: 60-5071-05

Mr. Joe Hickey
Washington Department of Ecology
Voluntary Cleanup Program
3190 – 160th Avenue SE
Bellevue, WA 98008

**Subject: First Quarter 2001 Groundwater Monitoring Report
Former Mobil Oil Service Station #99-NWA
14357 Lake City Way, N.E.
Seattle, Washington**



Dear Mr. Hickey:

This report presents the results of first quarter 2001 groundwater monitoring at former Mobil service station #99-NWA, located in Seattle, Washington (Figure 1). Kleinfelder conducts groundwater monitoring on behalf of Mobil Oil Corporation (Mobil).

The contents of this report include the following:

- Progress Report Summary Sheet
- Table 1 Well Data Summary and Groundwater Sample Results
- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Groundwater Elevation Contours—February 7, 2001
- Figure 4 BTEX Concentrations in Groundwater—February 7, 2001
- Figure 5 Benzene versus Groundwater Elevation Graphs
- Appendix A Site Exploration Methods
- Appendix B Laboratory Reports

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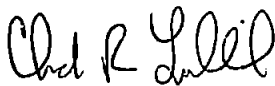
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Limitations

Kleinfelder has performed the services for this project in accordance with the current practices in this geographic area for site assessment sampling. No guarantees are either expressed or implied. There is no investigation that is thorough enough to preclude the presence of materials at the site that presently, or in the future, may be considered hazardous. Because regulatory criteria may change, acceptable concentrations of contaminants present at the time of investigation may in the future become subject to different regulatory standards.

Respectfully submitted,

KLEINFELDER, INC.



Chad R. Lukkarila
Environmental Engineering Staff



John Dillie
Senior Project Manager

cc: Mr. Brad Ledesma, Mobil Oil Corporation
Mr. Bart Bretherton, Kleinfelder

Quarterly Monitoring Report

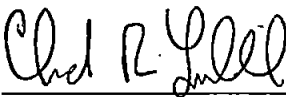
1st QUARTER 2001

Summary Sheet

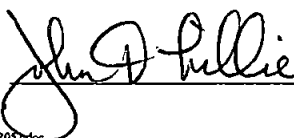
Former Mobil Service Station #99-NWA
14357 Lake City Way N.E.
Seattle, WA

Case # N/A
PSAPCA# N/A
DOE PERMIT# N/A

Number of water zones:	1	This Page	1		
FIELD ACTIVITY:		Date Sampled: February 7, 2001			
Number of groundwater wells on-site:	6	Groundwater wells monitored:	6		
Number of groundwater wells off-site:	1	Groundwater wells sampled:	6		
Phase of investigation:	Monitoring	Groundwater wells with free product:	0		
		Groundwater phase:	Monitoring		
2001 QUARTERLY MONITORING SCHEDULE:					
	<u>Well ID</u>	<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>
onsite:	MW-1	M/S	M/S	M/S	M/S
	MW-2	M/S	M/S	M/S	M/S
	MW-3	M/S	M/S	M/S	M/S
	MW-4	Well Abandoned 6/18/00			
	MW-5	M/S	M/S	M/S	M/S
	MW-7	M/S	M/S	M/S	M/S
	MW-8	M/S	M/S	M/S	M/S
offsite:	MW-6 (1)	---	---	---	---
M/S = Monitored and Sampled M = Monitored only (no sample) --- = Not sampled (1) MW-6 located in 145th Street NE has been paved over, no street use permit in place.					
SITE HYDROGEOLOGY:					
Approximate depth to groundwater below ground surface:					7.16 feet
Approximate elevation of potentiometric surface above Mean Sea Level:					219.27 feet
Average increase/decrease in groundwater elevations since last sampling episode:					+1.47 feet
Approximate flow direction and hydraulic gradient:					Southwest at 0.04 ft/ft
GROUNDWATER CONTAMINATION (BENZENE WA MTCA = 5.0 ppb):					
Wells containing free product:		0	Range in thickness of free product:		No FP detected
Number of wells with concentrations below MTCA:		2	Volume of free product recovered this period:		0
Number of wells with concentrations at or above MTCA:		4	Volume of free product recovered to date:		0
			Range in concentrations of benzene:		Non-detect to 1700 ppb
Nature of contamination:		Gasoline			
GROUNDWATER REMEDIATION PERFORMANCE					
Date started:					December 16, 1996
Date removed:					1998
Number of wells containing ORC:					0

Prepared by:  Chad R. Lukkarila

Kleinfelder Project No. 60-5071-05

Approved by:  John Lillie

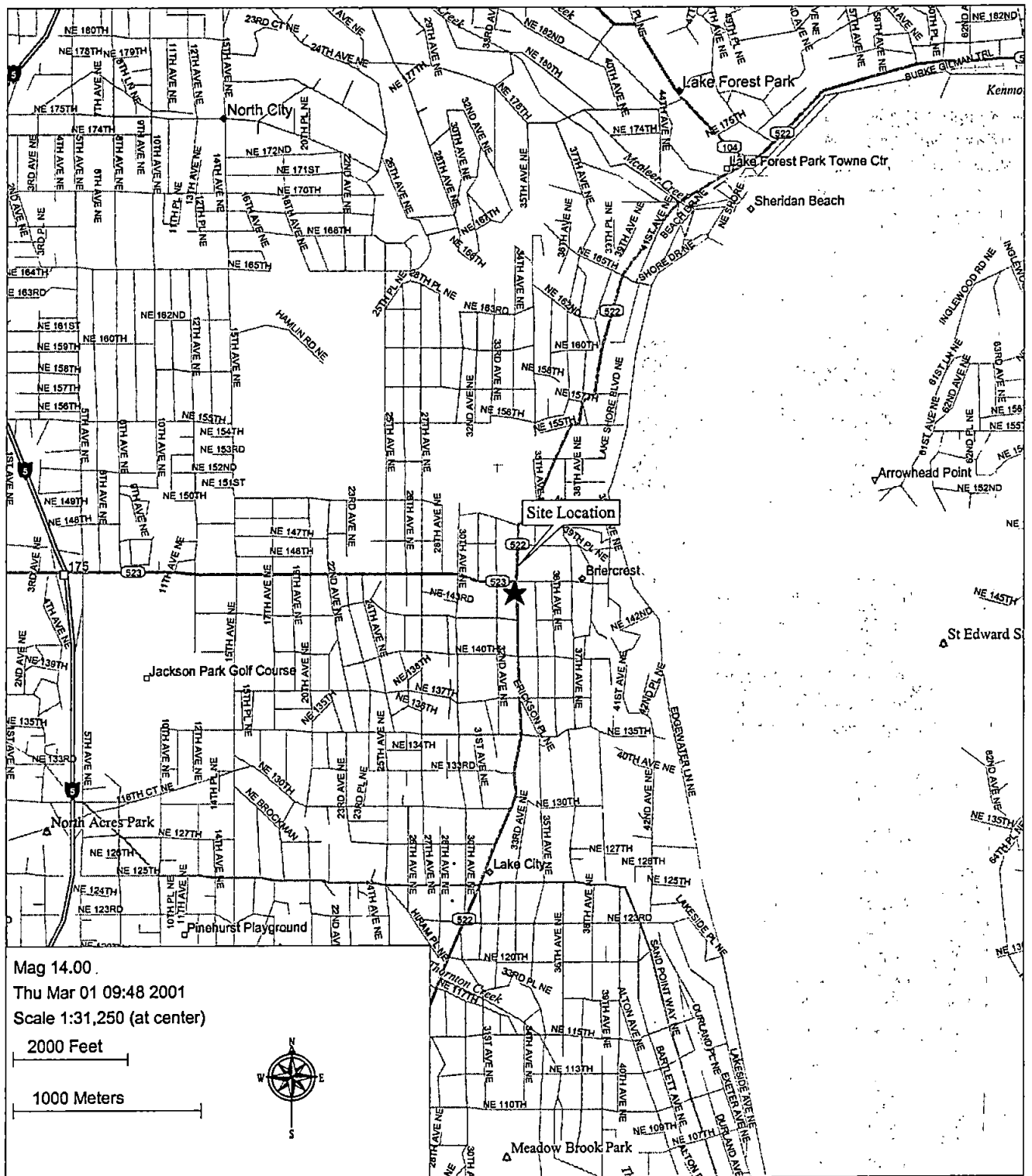
Submittal Date: March 19, 2001

TABLE 1
WELL DATA SUMMARY AND GROUNDWATER SAMPLE RESULTS
VOCs AND DISSOLVED LEAD
FORMER MOBIL STATION 99-NWA
14357 LAKE CITY WAY NE
SEATTLE, WASHINGTON

Well Number	Sample Date	Sample Identification Number	Depth to Ground Water [2]	Ground Water Elevation [4]	Product Thickness [5]	NWTPH-Gx [6] (ug/l)	NWTPH-Dx Diesel Range [7] (mg/l)	NWTPH-Dx Heavy Oil Range [7] (mg/l)	BENZENE [8] (ug/L)	TOLUENE [8] (ug/L)	ETHYL BENZENE [8] (ug/L)	TOTAL XYLENES [8] (ug/L)	TOTAL LEAD [8] (ug/L)
MW1	9/26/92	MW0109262	-	-	-	3,100	-	-	840	7	230	90	30
226.55	11/18/94	MW0111184	7.30	219.25	-	1,800	0.38	-	4.5	4.3	88	90	150
(6.5-16.5)	12/16/96	MW01-12168	8.53	218.02	-	2,580	0.518	-	59.9	<10	290	54	-
4	12/13/97	MW01-12137	8.90	217.85	-	5,000	<0.25	<0.5	14.8	2.86	21.2	<2.0	1.1
16.5	12/17/98	MW-1	8.56	217.99	-	860	-	-	2	3	37	4	-
	8/16/00	MW-1-81600	10.50	218.05	-	830	0.58	0.45J	4.7	2	3.3	7	38.5
	11/13/00	MW-1	10.61	215.94	-	720	0.49	0.40J	14	1.4	6.2	4	13.5
	2/7/01	MW-1-2701	9.51	217.04	-	710	0.53	0.38J	33	2.3	7.8	5.3	4.3
MW2	9/26/92	MW0209262	-	-	-	140,000	-	-	710.0	3,500	3,800	23,000	19
226.01	11/18/94	MW0211184	5.92	220.09	-	75,000	4.30	-	780.0	720	2,180	12,000	410
(4-13)	12/16/96	MW02-12168	5.51	220.50	-	55,100	2.45	-	387.0	216	1,310	6,500	-
4	12/13/97	MW02-12137	8.49	217.52	-	<80.0	<0.25	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0
13	12/17/98	(Not Sampled)	8.34	217.67	-	-	-	-	-	-	-	-	-
	8/16/00	MW-2-81600	9.50	216.51	-	13,000	1.8J	<4.0	170.0	37.0	350.0	1,700	226.0
	11/13/00	MW-2	6.65	218.38	-	15,000	2.2J	<2.0	190	43	420	1,700	216
	2/7/01	MW-2-2701	6.11	219.90	-	13,000	3.4	3.9J	340	88	490	2,100	504
MW3	9/26/92	MW0309262	-	-	-	16,000	-	-	42	10	980	430	10
226.35	11/18/94	MW0311184	6.28	220.07	-	4,500	4.3	-	38	17	50	200	60
(4-13)	12/17/96	MW03-12176	5.89	220.48	-	3,950	0.972	-	20.2	1.3	15.9	4.12	-
4	12/13/97	MW03-12137	7.88	218.47	-	153	<0.25	<0.5	1.14	<0.5	0.889	<1.0	<1.0
13	12/17/98	MW-3	7.98	218.37	-	880	-	-	2	2	11	1.4	-
	8/16/00	MW-3-81600	8.70	217.65	-	770	0.22J	0.28J	3.4	1.2	5.7	1.9J	2.4J
	11/13/00	MW-3	4.00	222.35	-	1,500	0.47	0.43J	5.1	2	11	11	30.1
	2/7/01	MW-3-2701	6.51	219.84	-	1,300	0.51	<0.4	4.1	3.5	6.7	2.5J	4.1
MW4	9/26/92	MW0409262	-	-	-	33,000	-	-	400	670	2,100	3,200	11
226.34	9/26/92	MW0409262-DUP*	-	-	-	27,000	-	-	420	720	2,200	3,300	7.9
(5-15)	11/18/94	MW0411184	6.78	219.56	-	9,500	2	-	840	290	1,000	590	11
4	12/17/96	MW04-12176	8.31	220.03	-	5,350	1.95	-	732	359	494	700	-
15	12/13/97	(Damaged)	-	-	-	-	-	-	-	-	-	-	-
	12/17/98	(Damaged)	-	-	-	-	-	-	-	-	-	-	-
Abandoned 8/19/00, Drilled MW8 as Replacement													
MW5	9/26/92	MW0509262	-	-	-	<50	-	-	<0.5	<0.5	<0.5	<1.0	<2.0
225.16	11/18/94	MW0511184	5.38	219.78	-	<50	<0.05	-	<0.5	<0.5	<0.5	<0.5	74
(5-15)	12/16/96	MW05-12168	6.83	218.33	-	126	<0.25	-	<0.5	<0.5	1.53	14.7	-
4	12/13/97	MW05-12137	7.46	217.70	-	18,500	<0.25	0.922	33.4	21	28.4	2,110	7.6
15	12/17/98	MW-5	8.17	216.99	-	<48	-	-	<0.2	<0.2	<0.2	<0.6	-
	8/16/00	MW-5-81600	8.82	216.34	-	<48	0.096J	<0.20	<0.20	<0.20	<0.20	<0.60	17.8
	11/13/00	MW-5	9.05	216.11	-	<48	<0.08	<0.2	0.54J	0.44J	0.47J	0.94J	33.3
	2/7/01	MW-5-2701	8.1	217.08	-	<48	<0.08	<0.2	<0.2	<0.2	<0.2	<0.6	1.9
MW6	9/26/92	MW0609262	-	-	-	830	-	-	<0.5	2.8	9.3	62	17
224.71	11/18/94	MW0611184	8.02	218.89	-	<50	0.3	-	<0.5	<0.5	<0.5	<0.5	9.6
(5-15)	12/17/96	MW06-12176	5.8	218.91	-	85	0.757	-	<0.5	<0.5	<0.5	<1.0	-
4	12/13/97	(Not Sampled)	-	-	-	-	-	-	-	-	-	-	-
15	12/17/98	MW-6	5.78	218.93	-	83	-	-	<0.2	0.3	<0.2	<0.6	-
	8/16/00	Not Sampled; Covered by new asphalt on 145th Street	-	-	-	-	-	-	-	-	-	-	-
MW7	9/26/92	MW0709262	-	-	-	15,000	-	-	<0.5	2.8	23	12	8.7
225.58	11/18/94	MW0711184	4.58	221.02	-	9,800	0.92	-	12	68	49	81	<2.0
(3-14.5)	12/17/96	MW07-12176	4.49	221.09	-	1,230	0.933	-	0.662	1.54	9.32	<1.0	-
4	12/13/97	MW07-12137	5.2	220.38	-	238	<0.25	<0.5	5.05	0.935	5.38	2.6	<1.0
14.5	12/17/98	MW-7	5.15	220.43	-	780	-	-	<0.2	4	4	<0.6	-
	8/16/00	MW-7-81600	6.7	218.88	-	1,500	0.19J	0.21J	0.82J	3	1.4	<0.60	31.4
	11/13/00	MW-7	5.15	220.43	-	2,400	1.1	1.2	<10	3.4	8.4	10	32.6
	2/7/01	MW-7-2701	4.81	220.77	-	1,000	0.42J	<0.4	0.88J	4.4	2.5	<0.6	5
MW8	Drilled 8/19/00 to replace MW4												
226.34	8/16/00	MW-8-81600	7.54	218.8	-	51,000	2.2	2	1,300	1,500	2,900	10,000	68.6
(5-17.5)	11/13/00	MW-8	7.5	218.84	-	49,000	2.5	<2.0	1,500	830	2,600	8,300	24.8
2	2/7/01	MW-8-2701	7.77	218.57	-	44,000	1.7J	<2.0	1,700	560	3,000	8,600	15.9
CLEANUP LEVEL (10)						1,000	1	1	5	40	30	120	5

1. Mean Sea Level elevation in feet, surveyed to top of PVC well casing.
2. Depth in feet, measured from top of PVC well casing.
3. Diameter in inches.
4. Mean Sea Level elevation in feet corrected for floating product, if applicable.
5. Non-aqueous phase floating product thickness in feet.
6. NWTPH-Gx Method- Gasoline range.
7. NWTPH-Dx Method- Diesel and Heavy Oil range.
8. EPA Method 8020.
9. EPA 200 Series Methods.
10. Method "A" Groundwater Cleanup Levels, MTCA, February 26, 1991.

ug/L - Micrograms per Liter, parts per billion.
mg/L - Milligrams per liter, parts per million.
(<) - Concentration less than laboratory detection limit listed (non-detect).
(-) - Not Analyzed
(-) - Not Encountered
(*) - Duplicate sample collected for QA/QC purposes.
VOCs - Volatile Organic Compounds
Note: Prior to 1997, gasoline and diesel analyzed using Washington methods (WTPH-G, WTPH-D)
J - Estimated value
Bold - Greater than MTCA Cleanup Levels



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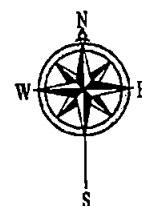
SITE LOCATION MAP
FORMER MOBIL STATION #99-NWA
14357 LAKE CITY WAY NE.
SEATTLE, WASHINGTON

Project # 60-5071-05

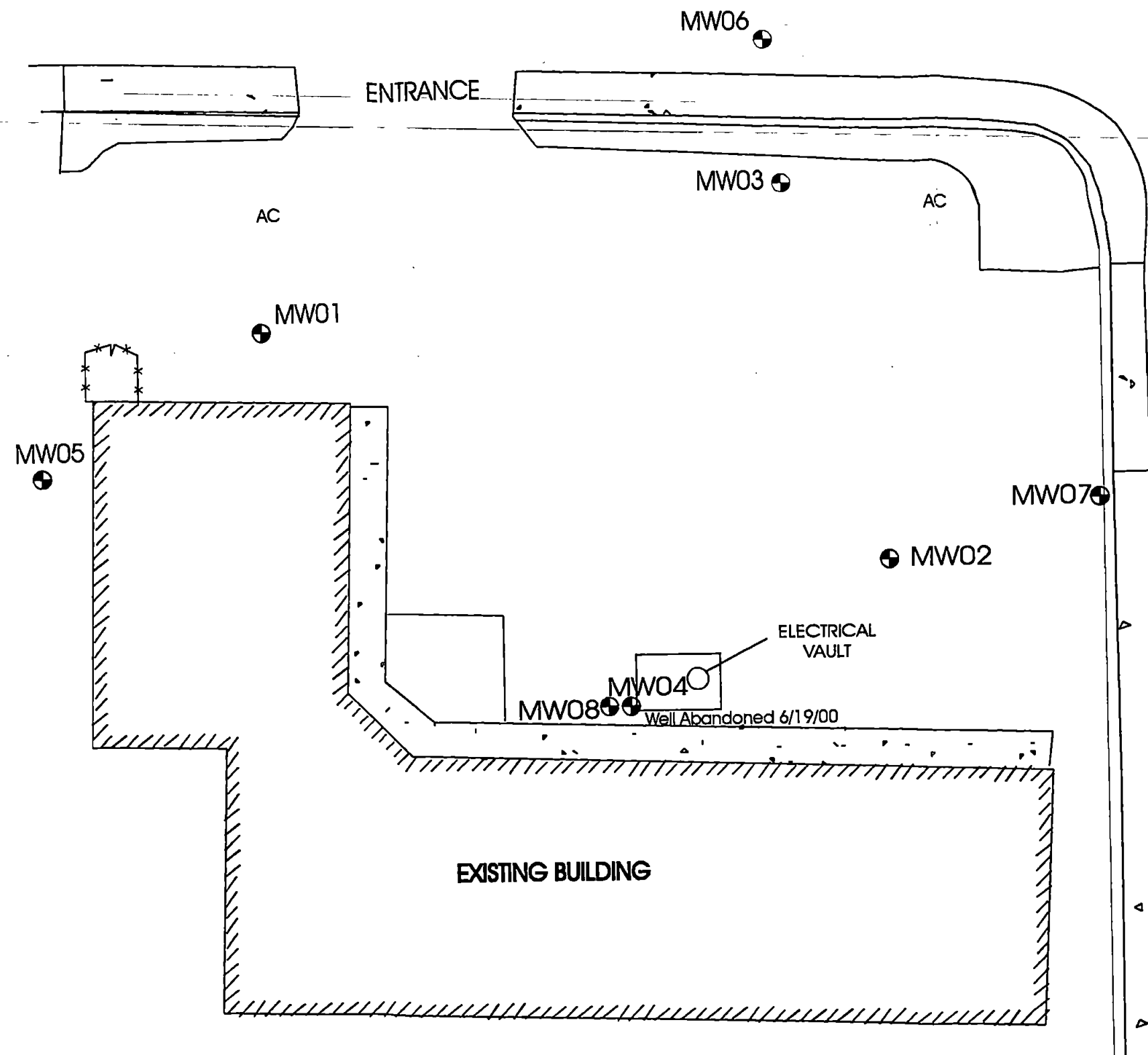
FIGURE 1

LEGEND

MW-03  MONITORING WELL LOCATION



0 10 20 40
SCALE: 1 INCH = 20 FEET



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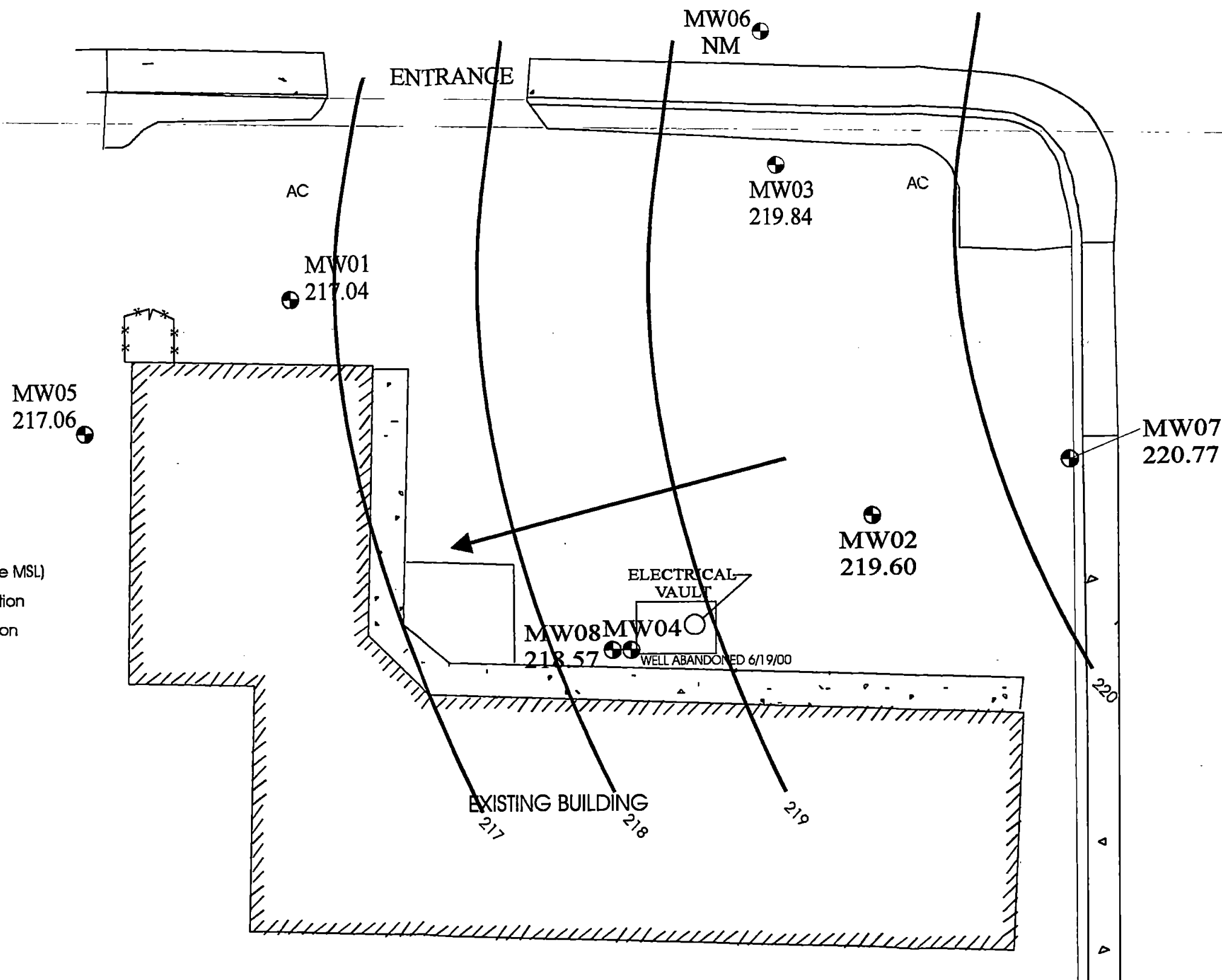
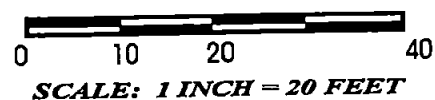
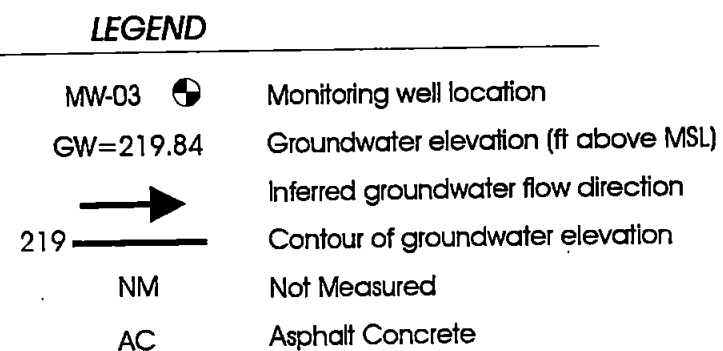
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SITE PLAN
FORMER MOBIL STATION #99-NWA
14357 LAKE CITY WAY NE
SEATTLE, WASHINGTON

Project # 60-5071-05

FIGURE 2



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GROUNDWATER ELEVATION CONTOURS - February 7, 2001
 FORMER MOBIL STATION #99-NWA
 14357 LAKE CITY WAY NE
 SEATTLE, WASHINGTON

Project # 60-5071-05

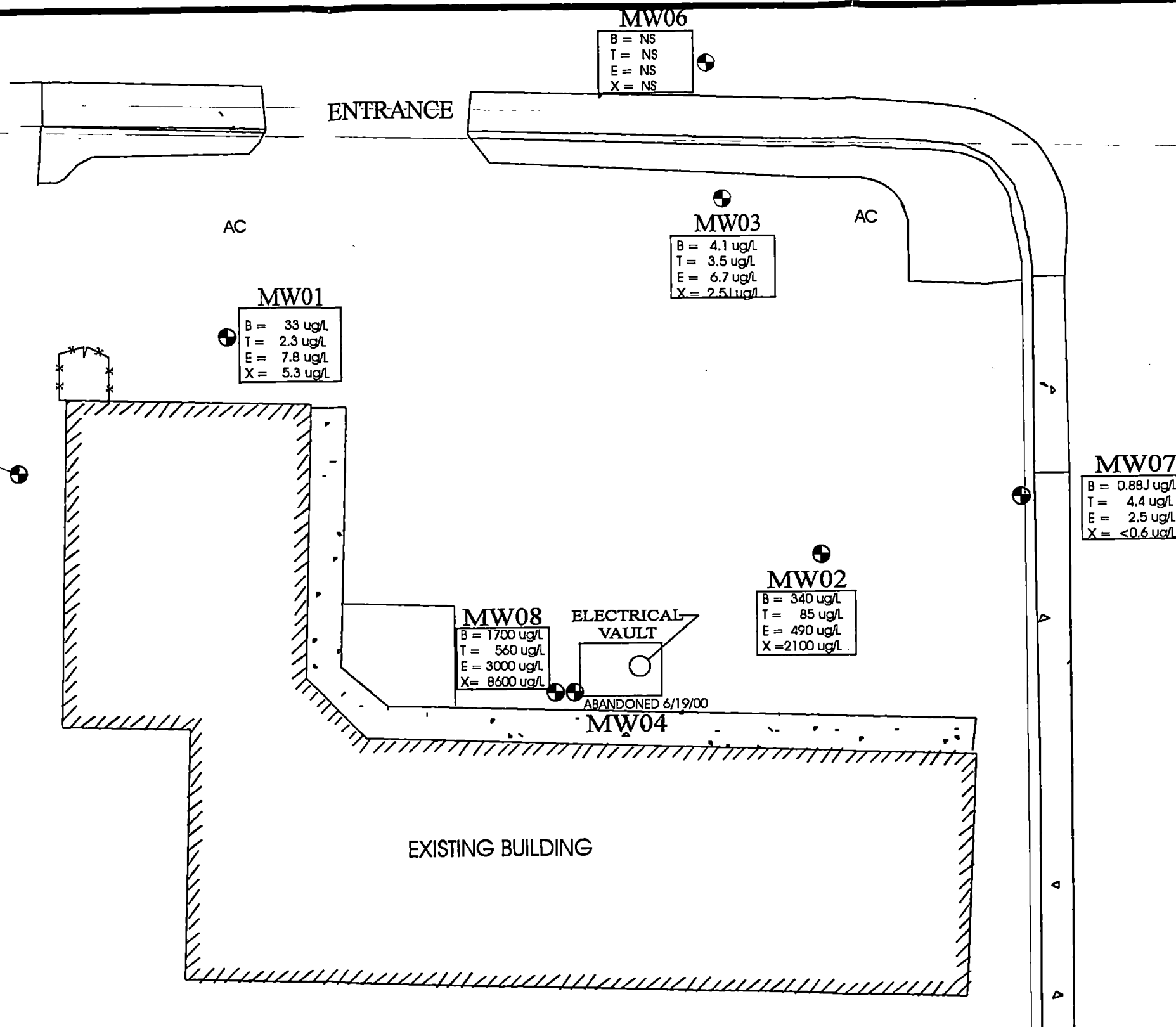
FIGURE 3

LEGEND

- MW-03  Monitoring well location
- B = 4.1 ug/l Benzene concentration in ug/L or ppb
- T = 3.5 ug/l Toluene concentration in ug/L or ppb
- E = 6.7 ug/l Ethylbenzene concentration in ug/L or ppb
- X = 2.5J ug/l Xylene (Total) concentration in ug/L or ppb
- NS Not sampled
- AC Asphalt Concrete
- J Estimated Value



0 10 20 40
SCALE: 1 INCH = 20 FEET



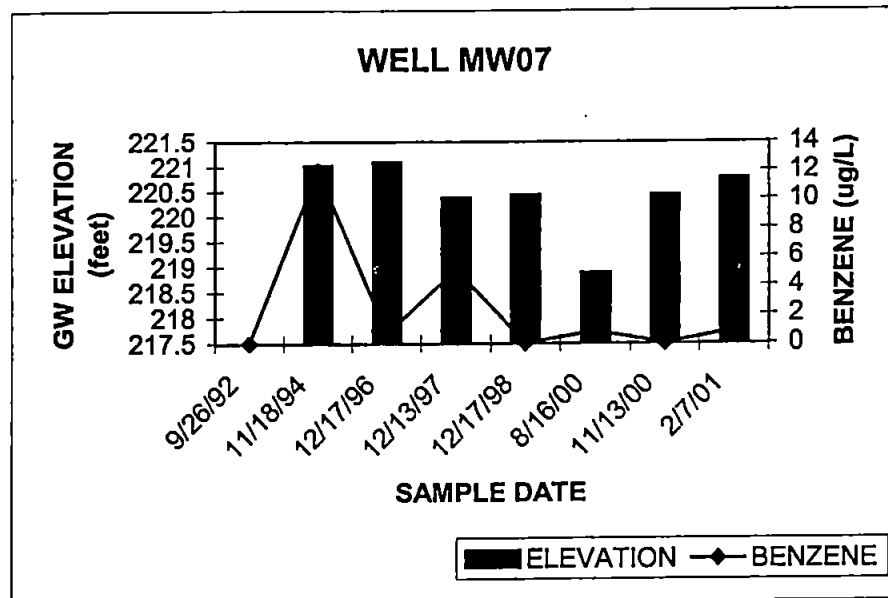
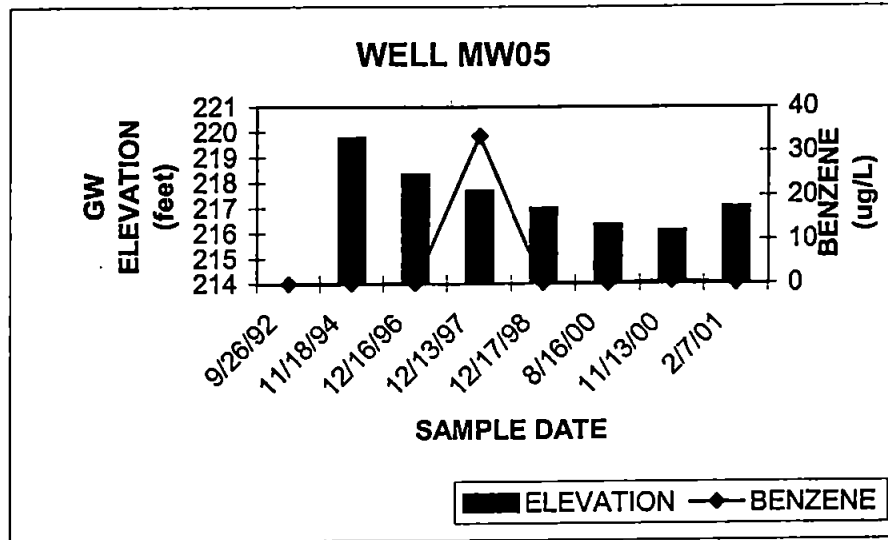
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BTEX CONCENTRATIONS IN GROUNDWATER-FEBRUARY 7, 2001
FORMER MOBIL STATION #99-NWA
14357 LAKE CITY WAY NE
SEATTLE, WASHINGTON

Project # 60-5071-05

FIGURE 4



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BENZENE vs. GROUNDWATER ELEVATION GRAPHS
FORMER MOBIL STATION #99-NWA
14357 LAKE CITY WAY NE.
SEATTLE, WASHINGTON

Project # 60-5071-05

FIGURE 5

APPENDIX A

SITE EXPLORATION METHODS

Water Level Measurements

Water level measurements were referenced to the surveyed elevation at the top of the well casing. The static water level and product thickness (when present) were measured in each monitoring well using a Solinst oil/water interface tape. The instrument emitted a steady tone when the probe encountered oil and an intermittent beep when it encountered water.

The probe on the oil/water interface tape was lowered into the well until the instrument detected floating product (if present). The tape connected to the probe was used to obtain a depth to product measurement, from the reference point, to within 0.01 feet. The probe was lowered further into the well until the instrument detected water. The depth-to-water, relative to the same reference point, was recorded. Subtracting the first measurement from the second yields thickness of free product floating on top of the water column in the well.

Water elevations were corrected for floating product by the following equation:

$$h_c = h + (d_H/d_W)b$$

Where h_c = Corrected Water Elevation

h = Depth to Water

d_H = Density of Hydrocarbon

gasoline d_H = 0.73 grams/cubic centimeter

diesel d_H = 0.83 grams/cubic centimeter

d_W = Density of Water (1 gram/cubic centimeter)

b = Hydrocarbon Thickness

Monitor Well Sampling

Kleinfelder personnel sampled groundwater monitoring wells in accordance with the following protocol:

- The height of the water column within the well was calculated by subtracting the depth to water from the total depth of the well. The volume of this water column was calculated using the relationship $V = 3.142r^2h$. Where V is the volume of water in cubic feet, r is the radius of the well in feet and h is the height of the water column in feet.

- A minimum of three casing volumes of water was removed from the well using a submersible electric pump (Purger-ES40) or disposable bailer. Temperature, pH, and specific conductivity were monitored during the well purge. Standards of known pH and specific conductivity were used to calibrate the field meter prior to use.
- The contract laboratory prepared sample containers to conform with EPA-recommended preservation techniques for the analytes of concern.
- The groundwater sample was collected with a disposable bailer. Sample containers were open only as long as necessary to collect the samples.
- Sample containers were labeled with a sample number, date, time, and sampler's name and stored in an ice chest containing ice. Chain-of-custody procedures documented sample handling.
- To reduce the potential for cross-contamination, developing and sampling equipment were washed in a trisodium phosphate solution, rinsed with tap water, and given a final rinse with distilled water. Clean latex gloves were worn when handling sample bottles.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
°C	degrees Celsius	F	degrees Fahrenheit
Cal	calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million (g/m). For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analytical concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post-digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbial analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results may be misleading. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Test results cannot be reproduced, except in full, without the written approval of the laboratory.

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Lancaster Laboratories Sample No. WW 3548675

Collected: 02/07/2001 09:30 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

ExxonMobil

Reported: 02/20/01 at 09:43 PM

Remediation Engineering Dept.

Discard: 3/23/01

3700 West 190th St., TPT-2

MW-5-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

52701

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01055	Lead (furnace method)	7439-92-1	0.0061	0.0019	mg/l	1
08208	BTEX (8020)					
00776	Benzene	71-43-2	N.D.	0.20	ug/l	1
00777	Toluene	108-88-3	N.D.	0.20	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.20	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.60	ug/l	1
08271	TPH by NWTPH-Dx (waters)					
02095	Diesel Range Organics	n.a.	N.D.	0.080	mg/l	1
02096	Heavy Range Organics	n.a.	N.D.	0.20	mg/l	1
08273	Gx by 8015B Modified - water					
01645	Gx by 8015B Modified - water	n.a.	N.D.	0.048	mg/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01055	Lead (furnace method)	SW-846 7421	1	02/13/2001 19:14	Jolene M. Schields	1
08208	BTEX (8020)	SW-846 8020A/5030A	1	02/12/2001 05:11	Darvin L. Martin	1
08271	TPH by NWTPH-Dx (waters)	NWTPH-Dx, ECY 97-602(modified)	1	02/13/2001 06:38	Dawn Boley	1
08273	Gx by 8015B Modified - water	Gx by SW-846 8015B Modified	1	02/12/2001 05:11	Darvin L. Martin	1
05704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	02/12/2001 15:15	Liana C. Jones	1



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Lancaster Laboratories Sample No. WW 3548675

Collected: 02/07/2001 09:30 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

ExxonMobil

Reported: 02/20/01 at 09:43 PM

Remediation Engineering Dept.

Discard: 3/23/01

3700 West 190th St., TPT-2,

MW-5-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

52701

07003 Extraction - DRO (Waters)

NWTPH-Dx, EGY 97-602,
6/97

1

02/09/2001 16:30

Wanda F. Oswald

1



Lancaster Laboratories Sample No. WW 3548676

Collected: 02/07/2001 10:00 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

ExxonMobil

Reported: 02/20/01 at 09:44 PM

Remediation Engineering Dept.

Discard: 3/23/01

3700 West 190th St., TPT-2

MW-1-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

12701

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01055	Lead (furnace method)	7439-92-1	0.0043	0.0019	mg/l	1
08208	BTEX (8020)					
00776	Benzene	71-43-2	33.	0.20	ug/l	1
00777	Toluene	108-88-3	2.3	0.20	ug/l	1
00778	Ethylbenzene	100-41-4	7.8	0.20	ug/l	1
00779	Total Xylenes	1330-20-7	5.3	0.60	ug/l	1
08271	TPH by NWTPH-Dx (waters)					
02095	Diesel Range Organics	n.a.	0.53	0.080	mg/l	1
02096	Heavy Range Organics	n.a.	0.38 J	0.20	mg/l	1
08273	Gx by 8015B Modified - water					
01645	Gx by 8015B Modified - water	n.a.	0.71	0.048	mg/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01055	Lead (furnace method)	SW-846 7421	1	02/14/2001 04:34	Jessica L. Boyd	1
08208	BTEX (8020)	SW-846 8020A/5030A	1	02/12/2001 05:54	Darvin L. Martin	1
08271	TPH by NWTPH-Dx (waters)	NWTPH-Dx, ECY 97-602 (modified)	1	02/13/2001 07:18	Dawn Boley	1
08273	Gx by 8015B Modified - water	Gx by SW-846 8015B Modified	1	02/12/2001 05:54	Darvin L. Martin	1
05704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	02/12/2001 15:15	Liana C. Jones	1



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Lancaster Laboratories Sample No. WW 3548676

Collected: 02/07/2001 10:00 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

ExxonMobil

Reported: 02/20/01 at 09:44 PM

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Discard: 3/23/01

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MW-1-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

12701

07003 Extraction - DRO (Waters)

NWTPH-Dx, ECY 97-602,
6/97

1

02/09/2001 16:30

Wanda F. Oswald

1



Lancaster Laboratories Sample No. WW 3548677

Collected: 02/07/2001 10:30 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

Reported: 02/20/01 at 09:44 PM

Discard: 3/23/01

MW-3-2701 Grab Water Sample

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LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

32701

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01055	Lead (furnace method)	7439-92-1	0.0041	0.0019	mg/l	1
08208	BTEX (8020)					
00776	Benzene	71-43-2	4.1	0.20	ug/l	1
00777	Toluene	108-88-3	3.5	0.20	ug/l	1
00778	Ethylbenzene	100-41-4	6.7	0.20	ug/l	1
00779	Total Xylenes	1330-20-7	2.5 J	0.60	ug/l	1
08271	TPH by NWTPH-Dx (waters)					
02095	Diesel Range Organics	n.a.	0.51	0.16	mg/l	2
02096	Heavy Range Organics	n.a.	N.D.	0.40	mg/l	2
The quantitation limits were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.						
08273	Gx by 8015B Modified - water					
01645	Gx by 8015B Modified - water	n.a.	1.3	0.048	mg/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01055	Lead (furnace method)	SW-846 7421	1	02/14/2001 05:14	Jessica L. Boyd	1
08208	BTEX (8020)	SW-846 8020A/5030A	1	02/12/2001 03:03	Darvin L. Martin	1
08271	TPH by NWTPH-Dx (waters)	NWTPH-Dx, ECY 97-602(modified)	1	02/13/2001 15:44	Dawn Boley	2
08273	Gx by 8015B Modified - water	Gx by SW-846 8015B Modified	1	02/12/2001 03:03	Darvin L. Martin	1



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Submitted: 02/08/2001 09:50

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Discard: 3/23/01

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MW-3-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

32701

05704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	02/12/2001 15:15	Liana C. Jones	1
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	02/09/2001 16:30	Wanda F. Oswald	1



Lancaster Laboratories Sample No. WW 3548678

Collected: 02/07/2001 11:00 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

ExxonMobil

Reported: 02/20/01 at 09:44 PM

Remediation Engineering Dept.

Discard: 3/23/01

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MW-7-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

72701

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01055	Lead (furnace method)	7439-92-1	0.0050	0.0019	mg/l	1
08208	BTEX (8020)					
00776	Benzene	71-43-2	0.88 J	0.20	ug/l	1
00777	Toluene	108-88-3	4.4	0.20	ug/l	1
00778	Ethylbenzene	100-41-4	2.5	0.20	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.60	ug/l	1
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.						
08271	TPH by NWTPH-Dx (waters)					
02095	Diesel Range Organics	n.a.	0.42 J	0.16	mg/l	1
02096	Heavy Range Organics	n.a.	N.D.	0.40	mg/l	1
Due to interferences from the sample matrix (high sediment content), the limit of quantitation for the TPH-DRO determination was increased.						
08273	Gx by 8015B Modified - water					
01645	Gx by 8015B Modified - water	n.a.	1.0	0.048	mg/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01055	Lead (furnace method)	SW-846 7421	1	02/14/2001 05:34	Jessica L. Boyd	1
08208	BTEX (8020)	SW-846 8020A/5030A	1	02/12/2001 03:35	Darvin L. Martin	1



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Account Number: 09728

Submitted: 02/08/2001 09:50

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Reported: 02/20/01 at 09:44 PM

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Discard: 3/23/01

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MW-7-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

72701

08271	TPH by NWTPH-Dx (waters)	NWTPH-Dx, ECY 97-602(modified)	1	02/13/2001 06:58	Dawn Boley	1
08273	Gx by 8015B Modified - water	Gx by SW-846 8015B Modified	1	02/12/2001 03:35	Darvin L. Martin	1
05704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	02/12/2001 15:15	Liana C. Jones	1
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	02/09/2001 16:30	Wanda F. Oswald	1



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Page 1 of 2

Lancaster Laboratories Sample No. WW 3548679

Collected: 02/07/2001 11:30 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

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Reported: 02/20/01 at 09:44 PM

Remediation Engineering Dept.

Discard: 3/23/01

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MW-2-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

22701

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01055	Lead (furnace method)	7439-92-1	0.504	0.0380	mg/l	20
08208	BTEX (8020)					
00776	Benzene	71-43-2	340.	1.0	ug/l	5
00777	Toluene	108-88-3	85.	1.0	ug/l	5
00778	Ethylbenzene	100-41-4	490.	1.0	ug/l	5
00779	Total Xylenes	1330-20-7	2,100.	3.0	ug/l	5
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.						
08271	TPH by NWTPH-Dx (waters)					
02095	Diesel Range Organics	n.a.	3.4	0.80	mg/l	5
02096	Heavy Range Organics	n.a.	3.9 J	2.0	mg/l	5
The quantitation limits were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.						
Due to interferences from the sample matrix (high sediment content), the limit of quantitation for the TPH-DRO determination was increased.						
08273	Gx by 8015B Modified - water					
01645	Gx by 8015B Modified - water	n.a.	13.	0.24	mg/l	5

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Laboratory Chronicle

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2216 Rev. 9/11/00



Lancaster Laboratories Sample No. WW 3548679

Collected: 02/07/2001 11:30 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

Reported: 02/20/01 at 09:44 PM

Discard: 3/23/01

MW-2-2701 Grab Water Sample

ExxonMobil

Remediation Engineering Dept.

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Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

22701

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01055	Lead (furnace method)	SW-846 7421	1	02/14/2001 10:54	Erika J. Miller	20
08208	BTEX (8020)	SW-846 8020A/5030A	1	02/12/2001 04:07	Darvin L. Martin	5
08271	TPH by NWTPH-Dx (waters)	NWTPH-Dx, ECY 97-602(modified)	1	02/13/2001 16:04	Dawn Boley	5
08273	Gx by 8015B Modified - water	Gx by SW-846 8015B Modified	1	02/12/2001 04:07	Darvin L. Martin	5
05704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	02/12/2001 15:15	Liana C. Jones	1
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	02/09/2001 16:30	Wanda F. Oswald	1



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Lancaster Laboratories Sample No. WW 3548680

Collected: 02/07/2001 12:00 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

ExxonMobil

Reported: 02/20/01 at 09:44 PM

Remediation Engineering Dept.

Discard: 3/23/01

3700 West 190th St., TPT-2

MW-8-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

82701

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01055	Lead (furnace method)	7439-92-1	0.159	0.0095	mg/l	5
08208	BTEX (8020)					
00776	Benzene	71-43-2	1,700.	4.0	ug/l	20
00777	Toluene	108-88-3	560.	4.0	ug/l	20
00778	Ethylbenzene	100-41-4	3,000.	4.0	ug/l	20
00779	Total Xylenes	1330-20-7	8,600.	12.	ug/l	20
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.						
08271	TPH by NWTPH-Dx (waters)					
02095	Diesel Range Organics	n.a.	1.7 J	0.80	mg/l	5
02096	Heavy Range Organics	n.a.	N.D.	2.0	mg/l	5
The quantitation limits were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.						
Due to interferences from the sample matrix (high sediment content), the limit of quantitation for the TPH-DRO determination was increased.						
08273	Gx by 8015B Modified - water					
01645	Gx by 8015B Modified - water	n.a.	44.	1.0	mg/l	20

State of Washington Lab Certification No. C259

Laboratory Chronicle



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2216 Rev. 9/11/00



Lancaster Laboratories Sample No. WW 3548680

Collected: 02/07/2001 12:00 by CL

Account Number: 09728

Submitted: 02/08/2001 09:50

ExxonMobil

Reported: 02/20/01 at 09:44 PM

Remediation Engineering Dept.

Discard: 3/23/01

3700 West 190th St., TPT-2

MW-8-2701 Grab Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

82701

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
No.						
01055	Lead (furnace method)	SW-846 7421	1	02/14/2001 05:53	Jessica L. Boyd	5
08208	BTEX (8020)	SW-846 8020A/5030A	1	02/12/2001 04:39	Darvin L. Martin	20
08271	TPH by NWTPH-Dx (waters)	NWTPH-Dx, ECY 97-602 (modified)	1	02/13/2001 16:43	Dawn Boley	5
08273	Gx by 8015B Modified - water	Gx by SW-846 8015B Modified	1	02/12/2001 04:39	Darvin L. Martin	20
05704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	02/12/2001 15:15	Liana C. Jones	1
07003	Extraction - DRO (Waters)	NWTPH-Dx, ECY 97-602, 6/97	1	02/09/2001 16:30	Wanda F. Oswald	1



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Lancaster Laboratories Sample No. NW 3548681

Collected: n.a.

Account Number: 09728

Submitted: 02/08/2001 09:50

ExxonMobil

Reported: 02/20/01 at 09:44 PM

Remediation Engineering Dept.

Discard: 3/23/01

3700 West 190th St., TPT-2

Trip Blank Water Sample

Torrance, CA 90509-2929

LOC# 99-NWA WBS# 56

MOBIL: 14357 Lake City Way; Seattle, WA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
08208	BTEX (8020)					
00776	Benzene	71-43-2	N.D.	0.20	ug/l	1
00777	Toluene	108-88-3	N.D.	0.20	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.20	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.60	ug/l	1

A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
08208	BTEX (8020)	SW-846 8020A/5030A	1	02/19/2001 21:55	Melissa Mann	1



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Quality Control Summary

Page 1 of 3

Client Name: ExxonMobil

Group Number: 749937

Reported: 02/20/01 at 09:44 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 01037A16	Sample number(s): 3548675-3548680							
Benzene	N.D.	.2	ug/l	101		80-118		
Toluene	N.D.	.2	ug/l	98		82-119		
Ethylbenzene	N.D.	.2	ug/l	98		81-119		
Total Xylenes	N.D.	.6	ug/l	99		82-120		
Gx by 8015B Modified - water	N.D.	.048	mg/l	92		63-130		
Batch number: 010400005A D043	Sample number(s): 3548675-3548680							
Diesel Range Organics	N.D.	.08	mg/l	90	90	60-120	1	20
Heavy Range Organics	N.D.	.2	mg/l					
Batch number: 010435704001	Sample number(s): 3548675							
Lead (furnace method)	N.D.	.0019	mg/l	103		80-117		
Batch number: 010435704002	Sample number(s): 3548676-3548680							
Lead (furnace method)	N.D.	.0019	mg/l	101		80-117		
Batch number: 01050A55	Sample number(s): 3548681							
Benzene	N.D.	.2	ug/l	109	104	80-118	5	30
Toluene	N.D.	.2	ug/l	109	103	82-119	5	30
Ethylbenzene	N.D.	.2	ug/l	110	105	81-119	5	30
Total Xylenes	N.D.	.6	ug/l	111	106	82-120	5	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 01037A16	Sample number(s): 3548675-3548680								
Benzene	97	100	66-140	3	30				
Toluene	95	97	72-138	2	30				
Ethylbenzene	95	97	71-138	2	30				
Total Xylenes	95	98	69-140	3	30				
Gx by 8015B Modified - water	97	99	74-132	2	30				
Batch number: 010435704001	Sample number(s): 3548675								
Lead (furnace method)	68*	71*	80-120	4	20	0.0061	0.0040	40* (1)	20
Batch number: 010435704002	Sample number(s): 3548676-3548680								
Lead (furnace method)	125*	135*	80-120	6	20	0.0043	0.0031	33* (1)	20
Batch number: 01050A55	Sample number(s): 3548681								
Benzene	108		66-140						
Toluene	108		72-138						
Ethylbenzene	110		71-138						

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
 (2) The background result was more than four times the spike added.



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2216 Rev. 9/11/00



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Quality Control Summary

Page 2 of 3

Client Name: ExxonMobil
 Reported: 02/20/01 at 09:44 PM

Group Number: 749937

Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD
								Max
Total Xylenes	110		69-140					

Surrogate Quality Control

Analysis Name: BTEX (8020)

Batch number: 01037A16

	Trifluorotoluene-P	Trifluorotoluene-F
3548675	103	96
3548676	114	113
3548677	123	121
3548678	123	113
3548679	104	107
3548680	112	112
Blank	100	99
LCS	99	115
MS	100	100
MSD	100	100
Limits:	69-134	57-141

Analysis Name: TPH by NWTPH-Dx (waters)

Batch number: 010400005A D043

	Orthoterphenyl
3548675	86
3548676	103
3548677	94
3548678	91
3548679	77
3548680	94
LCS	84
LCSD	87
Limits:	50-150

Analysis Name: BTEX (8020)

Batch number: 01050A55

	Trifluorotoluene-P	Trifluorotoluene-F
3548681	98	
Blank	98	82
LCS	96	
LCSD	97	
MS	97	

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Lancaster Laboratories, Inc.
 2425 New Holland Pike
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Page 3 of 3

Quality Control Summary

Client Name: ExxonMobil

Group Number: 749937

Reported: 02/20/01 at 09:44 PM

Surrogate Quality Control

Limits: 69-134

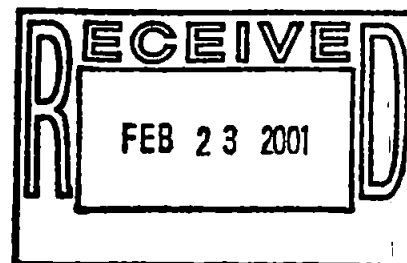
57-141

***- Outside of specification**

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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ANALYTICAL RESULTS

Prepared for:

ExxonMobil
Remediation Engineering Dept.
3700 West 190th St., TPT-2
Torrance, CA 90509-2929

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 749937. Samples arrived at the laboratory on Thursday, February 08, 2001. The PO# for this group is 4500446506-0509 and the release number is 00380.

Client Description

MW-5-2701 Grab Water Sample
MW-1-2701 Grab Water Sample
MW-3-2701 Grab Water Sample
MW-7-2701 Grab Water Sample
MW-2-2701 Grab Water Sample
MW-8-2701 Grab Water Sample
Trip Blank Water Sample

Lancaster Labs Number

3548675
3548676
3548677
3548678
3548679
3548680
3548681

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO

Kleinfelder

Attn: Mr. John Lillie

Questions? Contact your Client Services Representative
Teresa M. Lis at (717) 656-2300.

Respectfully Submitted,

Christine M. Dulaney
Sr. Chemist



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717-656-2300 Fax: 717-656-2681



KLEINFELDER

2405 140th Avenue NE
Suite A101
Bellevue, WA 98005
Tel. 206-562-4200

Fax. 206-562-4201

Transmittal

Date: April 6, 2001
Kleinfelder Project No.: 60-5071-05

TO:

Mr. Joe Hickey
Washington Department of Ecology
Voluntary Cleanup Program
3190 – 160th Avenue SE
Bellevue, WA 98008

Subject:

**FIRST QUARTER 2001 GROUNDWATER MONITORING REPORT
FORMER MOBIL OIL SERVICE STATION #99-NWA
14357 LAKE CITY WAY, N.E.
SEATTLE, WASHINGTON**

We are sending the following:

One copy of the above referenced report.

Remarks:

If you have any questions, please contact me at (425)-562-4200.

Thank you.

By:

Chad R. Lukkarila
Environmental Engineering Staff

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