

DATE: June 19, 2003

**CONOCOPHILLIPS CORPORATION
 GROUNDWATER MONITORING REPORT**

Site No.: 5472 Address: 3460 First Avenue South, Seattle, Washington
 ConocoPhillips Site Manager: Timothy D. Johnson
 Consultant/Contact Person: Environmental Resolutions, Inc./James S. Matthiessen
 Primary Agency/Regulatory ID No.: Washington State Department of Ecology

WORK PERFORMED THIS QUARTER(S) [First - 2003]:

- Monitored 7, purged 6, and sampled 7 groundwater monitoring wells

WORK PROPOSED FOR NEXT QUARTER [Third - 2003]:

- Monitor, purge, and sample 8 groundwater monitoring wells

SUMMARY:

Frequency of Sampling Events:	Semiannually	(Quarterly, etc.)
Approximate Depth to Groundwater:	4 to 7 ft	(Measured Feet)
Groundwater Gradient:	Northerly and Westerly	(Direction)
	0.006 ft/ft	(Magnitude)
Maximum TPH-G/Benzene Concentrations:	290/7.84	(ppb)
Measurable Free Product Detected:	No	(Yes - ID well(s)/No)
Free Product Recovered This Quarter:	Unknown	(gallons)
Cumulative Free Product Recovered to Date:	Unknown	(gallons)
Bulk Soil Removed This Quarter:	None	(cubic yards)
Water Wells or Surface Waters w/in 2,000 ft:	Unknown	(Distance &
Radius and Respective Direction:	Unknown	Direction)
Current Remedial Action:	SVE/AS	(SVE/AS/P&T, etc.)
Permits for Discharge:	PSCAA #8121	(NPDES, POTW, etc.)

DISCUSSION:

- 3 of 7 wells sampled contained hydrocarbon concentrations exceeding MTCA Method A Cleanup Levels.

ATTACHMENT:

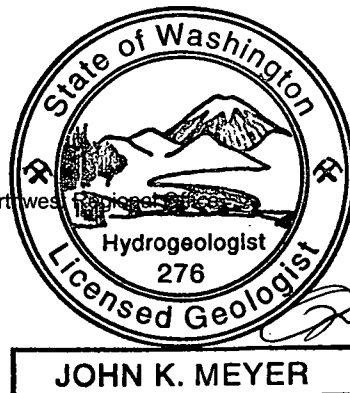
Plate 1: Groundwater Sample Analysis Map - 03/28/03
 Table 1: Groundwater Analytical Results
 Laboratory Reports and Chain of Custody Documentation
 Field Data Records

Prepared By:

Yukiko Noguchi
 Yukiko Noguchi
 Staff Scientist

cc: Washington State Department of Ecology, Northwest Regional Office
 Ms. Lisa Bona, GeoEngineers
 TBT Towing

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 cm
 7/8/03



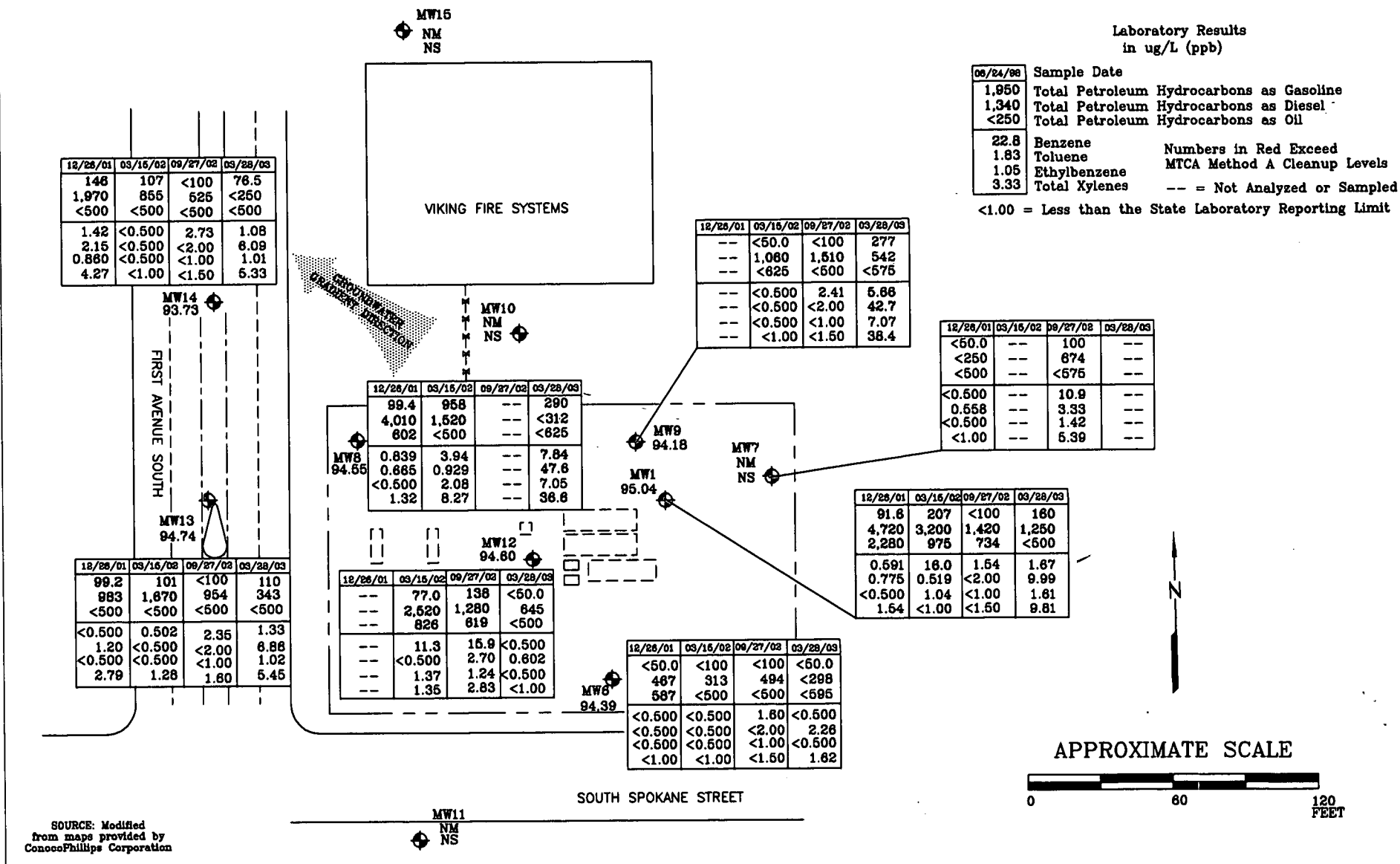
Reviewed By:

John K. Meyer
 John K. Meyer, R.G.
 Branch Manager

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DEPT OF ECOLOGY
 31023.13.Q031



Laboratory Results in ug/L (ppb)

06/24/98	Sample Date
1,950	Total Petroleum Hydrocarbons as Gasoline
1,340	Total Petroleum Hydrocarbons as Diesel
<250	Total Petroleum Hydrocarbons as Oil
22.8	Benzene
1.83	Toluene
1.05	Ethylbenzene
3.33	Total Xylenes

Numbers in Red Exceed
MTCA Method A Cleanup Levels
-- = Not Analyzed or Sampled
<1.00 = Less than the State Laboratory Reporting Limit

12/28/01	03/15/02	09/27/02	03/28/03
148	107	<100	78.5
1,970	855	525	<250
<500	<500	<500	<500
1.42	<0.500	2.73	1.08
2.15	<0.500	<2.00	6.09
0.880	<0.500	<1.00	1.01
4.27	<1.00	<1.50	5.33

12/28/01	03/15/02	09/27/02	03/28/03
--	<50.0	<100	277
--	1,060	1,510	542
--	<625	<500	<575
--	<0.500	2.41	5.88
--	<0.500	<2.00	42.7
--	<0.500	<1.00	7.07
--	<1.00	<1.50	38.4

12/28/01	03/15/02	09/27/02	03/28/03
<50.0	--	100	--
<250	--	674	--
<500	--	<575	--
<0.500	--	10.9	--
0.558	--	3.33	--
<0.500	--	1.42	--
<1.00	--	5.39	--

12/28/01	03/15/02	09/27/02	03/28/03
91.8	207	<100	160
4,720	3,200	1,420	1,250
2,280	975	734	<500
0.591	16.0	1.54	1.87
0.775	0.519	<2.00	9.99
<0.500	1.04	<1.00	1.61
1.54	<1.00	<1.50	9.81

12/28/01	03/15/02	09/27/02	03/28/03
99.4	958	--	290
4,010	1,520	--	<312
602	<500	--	<625
0.839	3.94	--	7.84
0.685	0.929	--	47.8
<0.500	2.08	--	7.05
1.32	8.27	--	36.8

12/28/01	03/15/02	09/27/02	03/28/03
99.2	101	<100	110
983	1,870	954	343
<500	<500	<500	<500
<0.500	0.502	2.35	1.33
1.20	<0.500	<2.00	6.88
<0.500	<0.500	<1.00	1.02
2.79	1.28	1.80	5.45

12/28/01	03/15/02	09/27/02	03/28/03
--	77.0	138	<50.0
--	2,520	1,280	645
--	826	619	<500
--	11.3	15.9	<0.500
--	<0.500	2.70	0.602
--	1.37	1.24	<0.500
--	1.35	2.83	<1.00

12/28/01	03/15/02	09/27/02	03/28/03
<50.0	<100	<100	<50.0
467	313	494	<288
587	<500	<500	<595
<0.500	<0.500	1.80	<0.500
<0.500	<0.500	<2.00	2.28
<0.500	<0.500	<1.00	<0.500
<1.00	<1.00	<1.50	1.62

GROUNDWATER SAMPLE ANALYSIS MAP - 03/28/03

TOSCO SITE NO. 5472
3460 First Avenue South
Seattle, Washington

EXPLANATION

⊕ MW1	Groundwater Monitoring Well
93.27	Groundwater Elevation
NM	Not Measured
NS	Not Sampled

PROJECT NO.

31023

PLATE

1

CK: 05/08/03



TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
3460 First Avenue South
Seattle, Washington
Page 1 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW1	02/25/91	5.43	92.59	LPH Present							
99.52	10/19/92	7.20	92.60	LPH Present							
	08/26/93	7.36	92.27	LPH Present							
	10/13/94	8.23	91.55	LPH Present							
	04/25/95	5.62	93.90	30,000	15,000	9,600	890	<4.0	340	290	—
	07/12/95	NM	—	13,000	4,900	<8,000	1,000	<8.0	360	210	<2.0
	10/12/95	6.15	93.41	LPH Present							
	01/22/96	5.10	94.35	LPH Present							
	04/10/96	5.86	93.76	LPH Present							
	07/29/96	5.83	93.69	6,700	6,210	2,950	753	5.50	159	22.5	—
	10/25/96	6.32	93.37	LPH Present							
	03/05/97	4.96	94.56	4,240	3,860	2,100	114	<2.50	18.7	<5.00	—
	03/05/97 ^{NP}	4.96	94.56	8,150	534	<750	40.7	<2.50	58.9	15.3	—
	06/19/97	5.66	93.87	LPH Present							
	09/16/97	6.56	92.96	LPH Present							
	12/18/97	5.54	93.98	3,060	3,850	1,860	142	1.31	2.65	3.54	—
	03/11/98	5.14	94.38	2,720	5,930	3,890	120	2.77	4.23	5.20	—
	06/24/98	6.25	93.27	1,950	1,340	<750	22.8	1.83	1.05	3.33	—
	09/18/98	6.86	92.66	1,690	<250	<750	12.7	<2.50	<2.50	<5.00	—
	12/14/98	3.70	95.82	2,840	8,850	3,880	327	<5.00	11.7	<10.0	—
	03/26/99	4.50	95.02	2,490	4,130	2,260	180	1.87	20.6	6.13	—
	06/23/99	5.99	93.53	962	1,410	844	57.6	<2.50	<2.50	<5.00	—
	09/23/99	6.85	92.67	1,540	1,380	<750	7.29	0.731	2.13	2.07	—
	12/06/99	9.15	90.37	<50.0	525	<750	1.33	0.626	0.937	2.32	—
	03/13/00	5.24	94.28	700	4,340	2,260	186	<5.00	<5.00	<10.0	—
	06/28/00	5.45	94.07	<50.0	2,820	<1,290	<0.500	<0.500	<0.500	<1.00	—
	09/13/00	6.96	92.56	148	651	<750	1.04	<0.500	<0.500	<1.00	—
	03/27/01	Obstructed by vehicle	—	—	—	—	—	—	—	—	—
	06/22/01	NM	—	—	—	—	—	—	—	—	—
	09/19/01	Obstructed by vehicle	—	—	—	—	—	—	—	—	—
	12/26/01	5.14	94.38	91.6	4,720	2,280	0.591	0.775	<0.500	1.54	—
	03/15/02	5.05	94.47	207	3,200	975	16.0	0.519	1.04	<1.00	—
	09/27/02	8.23	91.29	<100	1,420	734	1.54	<2.00	<1.00	<1.50	—
	03/28/03	4.48	95.04	160	1,250	<500	1.67	9.99	1.61	9.81	—
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5

Continued on page 2

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
3460 First Avenue South
Seattle, Washington
Page 2 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW6	02/25/91	5.69	92.5	--	--	--	<1.0	<1.0	<1.0	<1.0	--
99.67	10/19/92	7.64	92.03	<1,000	<250	--	19.2	<1.0	<1.0	<1.0	8
	08/26/93	6.33	93.34	<100	<250	<750	<0.50	<0.50	<0.50	<0.50	<3
	10/13/94	7.90	91.77	<50	450	<750	<0.50	<0.50	<0.50	<1.0	40
	04/25/95	5.63	94.04	<50	330	1,300	<0.50	<0.50	<0.50	<1.0	<2.0
	07/12/95	NM	--	<50	550	1,200	<0.50	<0.50	<0.50	<1.0	<2.0
	10/12/95	6.50	93.17	<50	530	970	<0.50	<0.50	<0.50	<1.0	--
	01/22/96	5.08	94.59	<50	610	<750	<0.50	<0.50	<0.50	<1.0	--
	04/10/96	5.73	93.94	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	--
	07/29/96	5.55	94.12	<5	<250	<750	<0.50	<0.50	<0.50	<1.0	--
	10/25/96	6.25	93.42	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	--
	03/05/97	5.09	94.58	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--
	03/05/97 ^{NP}	5.52	94.15	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--
	06/19/97 ^{NP}	5.52	94.15	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--
	09/16/97 ^{NP}	6.35	93.32	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--
	12/18/97	5.72	93.95	<50.0	269	<750	<0.500	<0.500	<0.500	<1.00	--
	03/11/98	5.25	94.42	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
	06/24/98	6.23	93.44	<50.0	257	<750	<0.500	<0.500	0.580	1.86	--
	09/18/98	6.44	93.23	<50.0	2,320	1,300	<0.500	<0.500	<0.500	<1.00	--
	12/14/98	4.62	95.05	<50.0	<250	<750	<0.500	<0.500	<0.500	1.06	--
	03/26/99	4.59	95.08	<50.0	<250	775	<0.500	<0.500	<0.500	<1.00	--
	06/23/99	5.88	93.79	<50.0	363	<750	<0.500	<0.500	<0.500	<1.00	--
	09/23/99	6.59	93.08	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
	12/06/99	5.39	94.28	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
	03/13/00	5.37	94.30	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
	06/28/00	6.04	93.63	<50.0	355	<974	<0.500	<0.500	<0.500	<1.00	--
	09/13/00	6.61	93.06	<50.0	<250	<550	<0.500	<0.500	<0.500	<1.00	--
	03/27/01	5.42	94.25	<50.0	364	<750	<0.500	<0.500	<0.500	<1.00	--
	06/22/01	5.52	94.15	<50.0	297	<750	<0.500	<0.500	<0.500	<1.00	--
	09/19/01	5.92	93.75	<50.0	678	<500	<0.500	<0.500	<0.500	<1.00	--
	12/26/01	5.12	94.55	<50.0	467	587	<0.500	<0.500	<0.500	<1.00	--
	03/15/02	5.15	94.52	<50.0	313	<500	<0.500	<0.500	<0.500	<1.00	--
	09/27/02	8.67	91.00	<100	494	<500	1.60	<2.00	<1.00	<1.50	--
	03/28/03	5.28	94.39	<50.0	<298	<595	<0.500	2.26	<0.500	1.62	--
MTCA Method A Cleanup Levels					1,000 ^a		5	40	30	20	5

Continued on page 3

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Seattle, Washington
Page 3 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW7	02/25/91	4.33	92.68	—	—	—	11	<1.0	<1.0	<1.0	—
98.50	10/19/92	5.98	92.52	<1,000	620	—	6	<1.0	<1.0	<1.0	<5
	08/26/93	6.16	92.34	<100	<250	<750	12	<0.50	<0.50	<0.50	<3
	10/13/94	6.56	91.94	<50	540	<750	3.3	<0.50	<0.50	<1.0	110
	04/25/95	4.45	93.05	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	<2.0
	07/12/95	NM	—	<50	2,000	2,100	<0.50	<0.50	<0.50	<1.0	<2.0
	10/12/95	4.90	93.60	<50	<250	950	<0.50	<0.50	<0.50	<1.0	—
	01/22/96	3.89	94.61	<50	520	<750	1.5	<0.50	<0.50	<1.0	—
	04/10/96	4.63	93.87	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	07/29/96	4.55	93.95	<50	<250	<750	<0.50	<0.05	<0.05	<0.10	—
	10/25/96	4.98	93.52	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	03/05/97	3.94	94.56	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	03/05/97 ^{NP}	3.94	94.56	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	06/19/97 ^{NP}	4.57	93.93	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	09/16/97 ^{NP}	5.29	93.21	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	12/18/97	4.43	94.07	<50.0	357	<750	<0.500	<0.500	<0.500	<1.00	—
	03/11/98	4.05	94.45	<50.0	<250	<750	0.875	<0.500	<0.500	<1.00	—
	06/24/98	4.91	93.59	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	—
	09/18/98	5.67	92.83	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	—
	12/14/98	3.57	94.93	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	—
	03/26/99	3.44	95.06	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	—
	06/23/99	4.91	93.59	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	—
	09/23/99	5.76	92.74	<50.0	<250	<750	5.02	<0.500	<0.500	<1.00	—
	12/06/99	NM	—	—	—	—	—	—	—	—	—
	03/13/00	4.27	94.23	<50.0	<455	<1,370	<0.500	<0.500	<0.500	<1.00	—
	06/28/00	NM	—	—	—	—	—	—	—	—	—
	09/13/00	5.86	92.64	<50.0	264	<750	<0.500	<0.500	<0.500	<1.00	—
	03/27/01	NM	—	—	—	—	—	—	—	—	—
	06/22/01	NM	—	—	—	—	—	—	—	—	—
	09/19/01	Obstructed by vehicle	—	—	—	—	—	—	—	—	—
	12/26/01	4.15	94.35	<50.0	<250	<500	<0.500	0.558	<0.500	<1.00	—
	03/15/02	NM	—	—	—	—	—	—	—	—	—
	09/27/02	7.13	91.37	100	674	<575	10.9	3.33	1.42	5.39	—
	03/28/03	NM	—	—	—	—	—	—	—	—	—
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5

Continued on page 4

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
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Seattle, Washington
Page 4 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW8	02/25/91	5.44	92.06	—	—	—	7	16	29	32	—
98.96	10/19/92	7.17	91.79	4,900	330	—	7,200	32	510	1,500	<5
	08/26/93	6.91	92.05	7,500	660	—	16,000	410	800	670	<3
	10/13/94	7.40	91.56	2,200	740	1,200	19,000	<40	<40	63	4.6
	04/25/95	5.41	93.55	6,700	1,500	1,200	10,000	200	340	1,000	<2.0
	07/12/95	NM	—	4,800	1,500	1,000	8,700	<8.0	130	690	<2.0
	10/12/95	6.48	92.48	3,500	1,500	1,100	11,000	16	18	59	—
	01/22/96	5.10	94.35	2,500	2,500	1,000	8,500	<20	<20	23	—
	04/10/96	5.63	93.33	2,300	2,000	750	3,400	<20	<20	21	—
	07/29/96	4.22	94.74	3,000	1,000	<750	8,550	<25.0	<25.0	<50.0	—
	10/25/96	6.03	92.93	3,500	<250	<750	3,500	<25.0	<25.0	50.3	—
	03/05/97	4.91	94.05	3,490	398	<750	3,970	<10.0	<10.0	<20.0	—
	03/05/97 ^{NP}	4.91	94.05	7,730	375	<750	830	<5.0	11.5	<10.0	—
	06/19/97 ^{NP}	5.46	93.50	6,220	621	<750	1,870	<12.5	13.1	<25.0	—
	09/16/97 ^{NP}	6.28	92.21	3,310	292	<750	4,380	<10	11.5	<20	—
	12/18/97	5.53	93.43	2,890	1,650	<750	4,890	<25.0	<25.0	<50.0	—
	03/11/98	5.14	93.82	<2,500	1,370	<750	2,640	<25.0	<25.0	<50.0	—
	06/24/98	6.15	92.81	2,650	1,700	<750	2,230	<25.0	<25.0	<50.0	—
	09/18/98	6.56	92.40	1,940	<250	<750	779	<12.5	<12.5	<25.0	—
	12/14/98	Obstructed by surface water	—	—	—	—	—	—	—	—	—
	03/26/99	NM	—	1,340	1,300	<750	27.7	<2.50	<4.50	<8.50	—
	06/23/99	5.73	93.23	<2,500	1,110	<750	<25.0	<25.0	<25.0	<50.0	—
	09/23/99	6.52	92.44	1,420	1,020	<750	9.67	<2.00	<2.00	<7.00	—
	12/06/99	Obstructed by surface water	—	—	—	—	—	—	—	—	—
	03/13/00	5.89	93.07	669	556	<750	30.4	<2.50	<2.50	5.52	—
	06/28/00	5.18	93.78	<250	—	—	148	<2.50	<2.50	<5.00	—
	09/13/00	7.29	91.67	428	1,390	1,380	<1.42	<0.770	<1.35	<2.84	—
	03/27/01	2.53	96.43	451	8,830	788	<0.500	<0.500	<0.500	<1.00	—
	06/22/01	2.19	96.77	<50.0	1,180	1,210	<0.500	<0.500	<0.500	<1.00	—
	09/19/01 ^{NP}	6.90	92.06	<50.0	1,420	<500	0.994	0.580	0.552	1.59	—
	12/26/01	5.70	93.26	99.4	4,010	602	0.839	0.665	<0.500	1.32	—
	03/15/02	5.62	93.34	958	1,520	<500	3.94	0.929	2.08	8.27	—
	09/27/02	DRY	—	—	—	—	—	—	—	—	—
	03/28/03 ^{NP}	4.41	94.55	290	<312	<625	7.84	47.6	7.05	36.6	—
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5

Continued on page 5

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
3460 First Avenue South
Seattle, Washington
Page 5 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW9	02/25/91	4.55	92.62	—	—	—	14,100	19,400	1,300	10,320	—
98.66	10/19/92	6.47	92.19	5,800	35,000	—	6,000	150	350	1,500	<5
	08/26/93	6.48	92.05	6,800	4,400	<750	7,100	100	630	1,300	<3
	10/13/94	7.00	91.66	2,700	4,100	<750	3,000	11	190	140	7.9
	04/25/95	4.70	93.96	6,300	2,500	1,000	350	3.7	210	310	<2.0
	07/12/95	NM	—	1,600	2,600	1,300	68	<2.0	62	72	<2.0
	10/12/95	5.15	93.51	4,600	8,800	6,000	930	—	240	310	—
	01/22/96	4.06	94.60	4,000	9,200	1,900	110	<2.0	100	100	—
	04/10/96	4.86	93.80	3,800	3,000	1,000	170	<2.0	170	49	—
	07/29/96	4.71	93.95	1,600	990	890	1,060	<12.5	17.0	<25.0	—
	10/25/96	5.22	93.44	2,100	1,910	<750	687	9.31	9.91	<10.0	—
	03/05/97	4.11	94.55	1,030	22,400	2,240	49.4	<0.50	15.6	<1.0	—
	03/05/97 ^{NP}	4.11	94.55	2,120	8,150	1,060	48.4	<1.0	17.9	2.11	—
	06/19/97 ^{NP}	4.78	93.88	710	1,450	<750	104	<2.5	13.6	5.14	—
	09/16/97 ^{NP}	5.59	93.07	778	459	<750	664	6.27	2.27	4.61	—
	12/18/97	4.61	94.05	1,850	26,000	4,010	59.7	2.82	<2.50	<5.00	—
	03/11/98	4.19	94.47	215	2,180	<750	12.5	<0.500	0.761	<1.00	—
	06/24/98	5.04	93.62	383	603	<750	155	3.68	<2.50	<5.00	—
	09/18/98	6.02	92.64	443	1,090	<750	188	<2.50	<2.50	6.45	—
	12/14/98	3.94	94.72	377	2,670	<750	3.27	0.650	0.812	1.05	—
	03/26/99	3.61	95.05	257	4,150	820	1.66	1.04	<0.600	2.31	—
	06/23/99	5.11	93.55	123	4,040	<750	75.5	0.693	<0.500	<1.00	—
	09/23/99	6.08	92.58	279	765	<750	31.4	1.35	0.549	3.77	—
	12/06/99	3.97	94.69	231	2,230	<750	6.73	1.46	<0.500	<1.00	—
	03/13/00	4.67	93.99	<250	5,030	<750	5.62	<2.50	<2.50	<5.00	—
	06/28/00	5.26	93.40	<50	1,660	<750	29.4	0.770	<0.500	<1.00	—
	09/13/00	6.30	92.36	102	1,270	<750	<1.40	<0.500	<0.500	<1.00	—
	03/27/01	Obstructed by vehicle	—	—	—	—	—	—	—	—	—
	06/22/01	NM	—	—	—	—	—	—	—	—	—
	09/19/01	Obstructed by vehicle	—	—	—	—	—	—	—	—	—
	12/26/01	Obstructed by vehicle	—	—	—	—	—	—	—	—	—
	03/15/02	4.20	94.46	<50.0	1,060	<625	<0.500	<0.500	<0.500	<1.00	—
	09/27/02	7.80	90.86	<100	1,510	<500	2.41	<2.00	<1.00	<1.50	—
	03/28/03	4.48	94.18	277	542	<575	5.66	42.7	7.07	38.4	—
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5

Continued on page 6

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
3460 First Avenue South
Seattle, Washington
Page 6 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW10	02/25/91	NM	--	4,200	<250	--	2,000	9.0	200	1,300	72
99.62	10/19/92	7.52	92.10	--	--	--	--	--	--	--	--
	08/26/93	7.44	92.18	1,700	<250	<750	88	3.7	50	97	<3
	10/13/94	7.96	91.66	720	280	<750	730	6.1	1.1	150	25
	04/25/95	5.79	93.83	3,000	45	990	2,100	21	47	270	<2.0
	07/12/95	NM	--	1,800	55	<750	2,500	27	<20	290	<2.0
	10/12/95	6.85	92.77	2,200	420	<750	2,100	19	7.8	99	--
	01/22/96	5.82	93.80	1,900	440	<750	1,200	12	23	39	--
	04/10/96	6.08	93.54	1,500	300	<750	920	19	15	50	--
	07/29/96	5.24	94.38	<2,500	260	<750	3,660	27.6	<25.0	<50.0	--
	10/25/1996	NM	--	--	--	--	--	--	--	--	--
	03/05/97	NM	--	--	--	--	--	--	--	--	--
	06/19/97 ^{NP}	5.95	93.67	53	<250	<750	691	7.48	<5.0	20.3	--
	09/16/97 ^{NP}	6.80	92.82	736	<250	<750	1,170	9.747	3.11	18.2	--
	12/18/97	NM	--	--	--	--	--	--	--	--	--
	03/11/98	NM	--	--	--	--	--	--	--	--	--
	06/24/98	6.64	92.98	301	376	<750	453	3.33	<2.50	6.74	--
	09/18/98	7.19	92.43	<1,000	292	<750	1,000	<10.0	<10.0	<20.0	--
	12/14/98	5.41	94.21	<1,000	363	<750	477	12.0	<10.0	29.2	--
	03/26/99	5.06	94.56	331	300	<750	261	3.32	<2.50	8.30	--
	06/23/99	6.23	93.39	89.0	289	<750	212	1.28	<0.500	2.26	--
	09/23/99	7.12	92.50	289	386	<750	459	2.68	0.877	7.58	--
	12/06/99	5.62	94.00	266	376	<750	190	2.63	<0.500	4.25	--
	03/13/00	5.73	93.89	139	280	<750	153	1.35	<0.500	4.22	--
	06/28/00	8.20	91.42	<50.0	283	<750	1.19	<0.500	<0.500	<1.00	--
	09/13/00	7.33	92.29	<50.0	3,780	<1,040	13.2	0.591	<0.500	1.62	--
	03/27/01	Flooded	--	--	--	--	--	--	--	--	--
	06/22/01	7.57	92.05	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
	09/19/01	9.39	90.23	<50.0	284	<500	<0.500	<0.500	<0.500	1.28	--
	12/26/01	Obstructed	--	--	--	--	--	--	--	--	--
	03/15/02	Obstructed	--	--	--	--	--	--	--	--	--
	09/27/02	NM	--	--	--	--	--	--	--	--	--
	03/28/03	NM	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5

Continued on page 7

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
3460 First Avenue South
Seattle, Washington
Page 7 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW11	02/25/91	NM	—	—	—	—	—	—	—	—	—
99.70	10/19/92	7.97	91.73	<1,000	<250	—	<0.1	<1.0	<1.0	<1.0	<5
	08/26/93	7.59	92.11	<100	<250	<750	<0.50	<0.50	<0.50	<0.50	<3
	10/13/94	8.20	91.50	<50	1,300	1,100	<0.50	<0.50	<0.50	<1.0	<2.0
	04/25/95	6.00	93.70	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	<2.0
	07/12/95	NM	—	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	<2.0
	10/12/95	7.0	92.70	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	01/22/96	NM	—	—	—	—	—	—	—	—	—
	04/10/96	5.97	93.73	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	07/29/96	5.84	93.86	<50	<250	<750	<0.50	<0.50	<0.50	<0.10	—
	10/25/96	6.55	93.15	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	03/05/97	5.41	94.29	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	03/05/97 ^{NP}	5.41	94.29	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	06/19/97 ^{NP}	5.81	93.89	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	09/16/97 ^{NP}	6.31	93.39	<50	<250	<750	<0.50	<0.50	<0.50	<1.0	—
	12/18/97	6.21	93.49	<50.0	285	<750	<0.500	<0.500	<0.500	<1.00	—
	03/11/98	5.55	94.15	<50.0	297	<750	<0.500	<0.500	<0.500	<1.00	—
	06/24/98	6.32	93.38	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	—
	09/18/98	6.35	93.35	<50.0	1,380	<750	<0.500	<0.500	<0.500	<1.00	—
	12/14/98	4.90	94.80	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	—
	03/26/99	Obstructed by construction			—	—	—	—	—	—	—
	06/23/99	Obstructed by construction			—	—	—	—	—	—	—
	12/06/99	NM	—	—	—	—	—	—	—	—	—
	03/13/00	NM	—	—	—	—	—	—	—	—	—
	06/28/00	NM	—	—	—	—	—	—	—	—	—
	09/13/00	NM	—	—	—	—	—	—	—	—	—
	03/27/01	NM	—	—	—	—	—	—	—	—	—
	06/22/01	NM	—	—	—	—	—	—	—	—	—
	09/19/01	NM	—	—	—	—	—	—	—	—	—
	12/26/01	NM	—	—	—	—	—	—	—	—	—
	03/15/02	NM	—	—	—	—	—	—	—	—	—
	09/27/02	Unable to locate			—	—	—	—	—	—	—
	03/28/03	NM	—	—	—	—	—	—	—	—	—
MTCA Method A Cleanup Levels					1,000 ^a		5	40	30	20	5

Continued on page 8

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
3460 First Avenue South
Seattle, Washington
Page 8 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW12	02/25/91	NM	-	-	-	-	-	-	-	-	-
100.32	10/19/92	8.37	91.95	8,500	830	-	7,500	1,800	180	1,810	<5
	08/26/93	8.11	92.21	-	-	-	-	-	-	-	-
	10/13/94	8.66	91.66	18,000	3,000	<750	3,300	91	1,100	360	<2.0
	04/25/95	6.40	93.92	32,000	2,600	2,000	1,700	41	470	1,100	<2.0
	07/12/95	NM	-	14,000	8,500	<8,000	3,500	100	1,000	2,100	<2.0
	10/12/95	7.45	92.87	7,400	2,800	1,300	940	7.5	310	740	-
	01/22/96	7.70	92.62	33,000	1,700	1,100	1,400	250	1,200	3,300	-
	04/10/96	6.53	93.79	20,000	1,300	<750	390	7.7	590	940	-
	07/29/96	6.24	94.08	15,100	1,400	<750	3,300	<25.0	535	1,320	-
	10/25/96	7.08	93.24	9,900	290	<750	2,660	<25.0	492	1,040	-
	03/05/97	5.78	94.54	17,900	372	<750	652	7.27	15	1,610	-
	03/05/97 ^{NP}	5.78	94.54	14,500	431	<750	637	<10.0	646	968	-
	06/19/97 ^{NP}	6.45	93.87	14,900	556	<750	335	<10.0	525	557	-
	09/16/97 ^{NP}	7.30	93.02	8,450	556	<750	585	<10.0	344	248	-
	12/18/1997	6.48	93.84	9,390	1,490	916	490	10.8	362	565	-
	03/11/98	5.98	94.34	7,540	1,380	806	625	10.7	322	362	-
	06/24/98	7.15	93.17	2,490	1,260	<750	203	3.49	35.1	11.4	-
	09/18/98	7.49	92.83	848	<250	<750	88.8	0.583	22.0	16.5	-
	12/14/98	5.21	95.11	4,730	744	<750	229	5.81	245	196	-
	03/26/99	5.31	95.01	1,980	700	<750	73.7	2.66	<87.0	35.8	-
	06/23/99	6.71	93.61	<2,500	956	<750	77.8	<25.0	78.2	<50.0	-
	09/23/99	7.53	92.79	1,160	982	<750	13.2	0.940	1.07	2.54	-
	12/06/99	10.96	89.36	60.9	516	<750	1.00	<0.500	<0.500	<1.00	-
	03/13/00	5.80	94.52	378	890	<750	102	5.18	83.7	36.9	-
	06/28/00	6.40	93.92	<50.0	748	<750	10.6	<0.500	<0.500	<1.00	-
	09/13/00	7.40	92.92	246	749	<921	2.93	<0.500	4.91	1.88	-
	03/27/01	5.80	94.52	<50.0	1,720	<750	1.42	<0.500	0.782	<1.00	-
	06/22/01	4.78	95.54	<50.0	1,680	<835	0.702	<0.500	0.808	<1.00	-
	09/19/01	6.98	93.34	52.0	786	611	0.517	<0.500	<0.500	1.20	-
	12/26/01	Obstructed	-	-	-	-	-	-	-	-	-
	03/15/02	5.60	94.72	77.0	2,520	826	11.3	<0.500	1.37	1.35	-
	09/27/02	9.19	91.13	138	1,280	619	15.9	2.70	1.24	2.83	-
	03/28/03	5.72	94.60	<50.0	645	<500	<0.500	0.602	<0.500	<1.00	-
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5

Continued on page 9

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
3460 First Avenue South
Seattle, Washington
Page 9 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW13 100.24	06/24/98	7.80	92.44	815	802	<750	<2.50	<2.50	<2.50	<5.00	--
	09/18/98	8.16	92.08	889	1,130	<750	<2.25	<1.25	<1.25	3.51	--
	12/14/98	6.75	93.49	853	508	<750	1.68	0.640	<0.500	3.43	--
	03/26/99	6.30	93.94	685	839	<750	<2.50	1.25	<1.75	4.38	--
	06/23/99	7.36	92.88	365	927	<750	0.810	<0.500	0.717	1.98	--
	09/23/99	NM	--	859	1,360	<750	<2.00	<1.00	<0.500	<4.00	--
	12/06/99	7.15	93.09	873	1,010	<750	<0.500	<2.20	<0.900	<2.80	--
	03/13/00	6.95	93.29	632	960	<750	<5.00	<5.00	<5.00	<10.00	--
	06/28/00	7.66	92.58	<250	813	<750	526	<2.50	<2.50	6.16	--
	09/13/00	8.25	91.99	240	688	<750	<0.730	<0.500	<0.500	<1.43	--
	03/27/01	7.35	92.89	151	1,690	<750	<0.500	<0.500	<0.500	<1.00	--
	06/22/01	7.48	92.76	93.9	261	<750	<0.500	<0.500	<0.500	<1.00	--
	09/19/01	7.76	92.48	97.7	615	<500	<0.500	<0.500	<0.500	1.11	--
	12/26/01	6.75	93.49	99.2	983	<500	<0.500	1.20	<0.500	2.79	--
	03/15/02	6.76	93.48	101	1,670	<500	0.502	<0.500	<0.500	1.28	--
	09/27/02	9.89	90.35	<100	954	<500	2.35	<2.00	<1.00	<1.50	--
	03/28/03	5.50	94.74	110	343	<500	1.33	6.86	1.02	5.45	--
MW14 99.94	06/24/98	7.60	92.34	2,230	505	<750	422	<10.0	<10.0	<20.0	--
	09/18/98	8.03	91.91	1,500	748	<750	75.4	<2.50	<2.50	13.3	--
	12/14/98	6.68	93.26	1,590	597	<750	182	<2.50	<2.50	9.39	--
	03/26/99	6.20	93.74	1,190	752	<750	5.53	<0.500	<0.900	4.84	--
	06/23/99	7.15	92.79	1,160	464	<750	21.1	<2.50	<2.50	<5.00	--
	09/23/99	7.91	92.03	2,950	512	<750	20.2	<1.00	<2.00	<8.00	--
	12/06/99	6.90	93.04	2,740	623	<750	27.0	0.503	<1.00	5.62	--
	03/13/00	6.74	93.20	1,780	669	<750	105	0.503	1.09	5.04	--
	06/28/00	7.47	92.47	<50.0	780	<750	2.09	<0.500	<0.500	<1.00	--
	09/13/00	8.10	91.84	1,410	1,060	<872	<0.570	<0.500	<0.600	<3.50	--
	03/27/01	7.23	92.71	484	1,410	<750	<0.500	<0.500	<0.500	<1.00	--
	06/22/01	7.41	92.53	350	--	--	<0.500	0.534	<0.500	1.58	--
	09/19/01	7.85	92.09	247	1,990	<577	<0.500	<0.500	<0.500	1.60	--
	12/26/01	6.66	93.28	146	1,970	<500	1.42	2.15	0.860	4.27	--
	03/15/02	6.65	93.29	107	855	<500	<0.500	<0.500	<0.500	<1.00	--
	09/27/02	9.56	90.38	<100	525	<500	2.73	<2.00	<1.00	<1.50	--
	03/28/03	6.21	93.73	76.5	<250	<500	1.08	6.09	1.01	5.33	--
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5

Continued on page 10

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5472
3460 First Avenue South
Seattle, Washington
Page 10 of 10

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Diss Pb
MW15	06/24/98	6.52	92.77	74.0	477	<750	14.1	1.03	0.566	1.72	-
99.29	09/18/98	7.06	92.23	<50.0	646	<750	10.5	0.676	<0.500	2.32	-
	12/14/98	5.78	93.51	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	-
	03/26/99	5.42	93.87	59.8	344	<750	2.86	1.90	1.93	3.28	-
	06/23/99	6.15	93.14	<50.0	<250	<750	0.672	<0.500	<0.500	<1.00	-
	09/23/99	6.90	92.39	<50.0	1,240	<750	1.44	<0.500	<0.500	1.57	-
	12/06/99	5.95	93.34	<50.0	<250	<750	0.951	<0.500	<0.500	1.01	-
	03/13/00	5.74	93.55	<50.0	<455	<1,330	5.81	<0.500	1.05	3.77	-
	06/28/00	6.41	92.88	973	<250	<750	1,670	<5.00	256	37.0	-
	09/13/00	7.05	92.24	<50.0	633	<750	<0.500	<0.500	<0.500	<1.00	-
	03/27/01	6.30	92.99	<50.0	343	<750	0.522	0.524	0.598	2.08	-
	06/22/01	6.46	92.83	<50.0	588	1,640	<0.500	<0.500	<0.500	<1.00	-
	09/19/01	6.90	92.39	<50.0	497	<500	<0.500	0.556	1.19	3.17	-
	12/26/01	5.68	93.61	<50.0	578	<500	0.713	1.48	0.522	2.50	-
	03/15/02	Obstructed	-	-	-	-	-	-	-	-	-
	09/27/02	NM	-	-	-	-	-	-	-	-	-
	03/28/03	NM	-	-	-	-	-	-	-	-	-
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5

EXPLANATION:

All concentrations are in ug/L (ppb).

Wellhead elevations were taken from prior consultant's reports.

DTW = Depth to water in feet below top of casing

GW Elev. = Groundwater elevation relative to top of casing elevations; corrected for free product where applicable using a specific gravity of 0.75

TPH-G = Total Petroleum Hydrocarbons as Gasoline by Ecology Method NWTPH-Gx

TPH-D and TPH-O = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, by Ecology Method NWTPH-Dx

B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes

BTEX = Aromatic compounds by EPA Method 8021B

Diss Pb = Dissolved Lead by EPA Method 7421

NM= Not Measured; -- = Not Analyzed or Sampled

< = Less than the stated laboratory reporting limit

^{NP} Sample collected without purging

^a Total Petroleum Hydrocarbons

Shaded values equal or exceed MTCA Method A Cleanup Levels.

Dissolved lead results on 10/13/94 are for total lead.

Samples collected from MW13, MW14, and MW15 on 06/24/98 are identified as MWB, MWA, and MWC, respectively, on laboratory report.

Samples collected from MW14 on 03/15/02 is identified as MW15 on laboratory report.

Data collected before 12/18/97 are taken from prior consultants.



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11 April 2003

John Meyer
ERI
815 Industry Dr
Tukwila, WA/USA 98188
RE: TOSCO #5472

Enclosed are the results of analyses for samples received by the laboratory on 03/28/03 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	B3C0725-01	Water	03/28/03 12:00	03/28/03 15:45
MW6	B3C0725-02	Water	03/28/03 12:00	03/28/03 15:45
MW8	B3C0725-03	Water	03/28/03 12:00	03/28/03 15:45
MW9	B3C0725-04	Water	03/28/03 12:00	03/28/03 15:45
MW12	B3C0725-05	Water	03/28/03 12:00	03/28/03 15:45
MW13	B3C0725-06	Water	03/28/03 12:00	03/28/03 15:45
MW14	B3C0725-07	Water	03/28/03 12:00	03/28/03 15:45

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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Environmental Laboratory Network

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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B3C0725-01) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Gasoline Range Hydrocarbons	160	50.0	ug/l	1	3D08001	04/08/03	04/08/03	NWTPH-Gx/8021B	
Benzene	1.67	0.500	"	"	"	"	"	"	
Toluene	9.99	0.500	"	"	"	"	"	"	
Ethylbenzene	1.61	0.500	"	"	"	"	"	"	
Xylenes (total)	9.81	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	90.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	95.4 %	62-120			"	"	"	"	
MW6 (B3C0725-02) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3D08001	04/08/03	04/08/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	2.26	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.62	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	95.8 %	62-120			"	"	"	"	
MW8 (B3C0725-03) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Gasoline Range Hydrocarbons	290	50.0	ug/l	1	3D08001	04/08/03	04/08/03	NWTPH-Gx/8021B	
Benzene	7.84	0.500	"	"	"	"	"	"	
Toluene	47.6	0.500	"	"	"	"	"	"	
Ethylbenzene	7.05	0.500	"	"	"	"	"	"	
Xylenes (total)	36.6	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	93.1 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	94.0 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW9 (B3C0725-04) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Gasoline Range Hydrocarbons	277	50.0	ug/l	1	3D08001	04/08/03	04/08/03	NWTPH-Gx/8021B	
Benzene	5.66	0.500	"	"	"	"	"	"	
Toluene	42.7	0.500	"	"	"	"	"	"	
Ethylbenzene	7.07	0.500	"	"	"	"	"	"	
Xylenes (total)	38.4	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	91.5 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	95.2 %	62-120			"	"	"	"	
MW12 (B3C0725-05) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3D08001	04/08/03	04/08/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.602	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	89.0 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	95.0 %	62-120			"	"	"	"	
MW13 (B3C0725-06) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Gasoline Range Hydrocarbons	110	50.0	ug/l	1	3D08001	04/08/03	04/08/03	NWTPH-Gx/8021B	
Benzene	1.33	0.500	"	"	"	"	"	"	
Toluene	6.86	0.500	"	"	"	"	"	"	
Ethylbenzene	1.02	0.500	"	"	"	"	"	"	
Xylenes (total)	5.45	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	91.5 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	94.2 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW14 (B3C0725-07) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Gasoline Range Hydrocarbons	76.5	50.0	ug/l	1	3D08001	04/08/03	04/08/03	NWTPH-Gx/8021B	
Benzene	1.08	0.500	"	"	"	"	"	"	
Toluene	6.09	0.500	"	"	"	"	"	"	
Ethylbenzene	1.01	0.500	"	"	"	"	"	"	
Xylenes (total)	5.33	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	86.9 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	94.0 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B3C0725-01) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Diesel Range Hydrocarbons	1.25	0.250	mg/l	1	3D01007	04/01/03	04/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	105 %	50-150			"	"	"	"	
Surrogate: Octacosane	92.7 %	50-150			"	"	"	"	
MW6 (B3C0725-02) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Diesel Range Hydrocarbons	ND	0.298	mg/l	1	3D01007	04/01/03	04/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.595	"	"	"	"	"	"	
Surrogate: 2-FBP	96.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	89.5 %	50-150			"	"	"	"	
MW8 (B3C0725-03) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Diesel Range Hydrocarbons	ND	0.312	mg/l	1	3D01007	04/01/03	04/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.625	"	"	"	"	"	"	
Surrogate: 2-FBP	87.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	75.5 %	50-150			"	"	"	"	
MW9 (B3C0725-04) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Diesel Range Hydrocarbons	0.542	0.287	mg/l	1	3D01007	04/01/03	04/03/03	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	ND	0.575	"	"	"	"	"	"	
Surrogate: 2-FBP	88.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	73.9 %	50-150			"	"	"	"	
MW12 (B3C0725-05) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Diesel Range Hydrocarbons	0.645	0.250	mg/l	1	3D01007	04/01/03	04/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	105 %	50-150			"	"	"	"	
Surrogate: Octacosane	83.1 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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Tukwila WA/USA, 98188

Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW13 (B3C0725-06) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Diesel Range Hydrocarbons	0.343	0.250	mg/l	1	3D01007	04/01/03	04/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	103 %	50-150			"	"	"	"	
Surrogate: Octacosane	87.5 %	50-150			"	"	"	"	
MW14 (B3C0725-07) Water Sampled: 03/28/03 12:00 Received: 03/28/03 15:45									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3D01007	04/01/03	04/03/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	105 %	50-150			"	"	"	"	
Surrogate: Octacosane	88.8 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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ERI
 815 Industry Dr
 Tukwila WA/USA, 98188

Project: TOSCO #5472
 Project Number: 031023
 Project Manager: John Meyer

Reported:
 04/11/03 13:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3D08001: Prepared 04/08/03 Using EPA 5030B (P/T)

Blank (3D08001-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	43.3		"	48.0		90.2	57-125			
Surrogate: 4-BFB (PID)	45.8		"	48.0		95.4	62-120			

LCS (3D08001-BS1)

Gasoline Range Hydrocarbons	499	50.0	ug/l	502		99.4	80-120			
Benzene	5.93	0.500	"	6.21		95.5	80-120			
Toluene	33.8	0.500	"	38.1		88.7	80-120			
Ethylbenzene	8.74	0.500	"	8.94		97.8	80-120			
Xylenes (total)	42.5	1.00	"	44.0		96.6	80-120			
Surrogate: 4-BFB (FID)	47.8		"	48.0		99.6	57-125			
Surrogate: 4-BFB (PID)	46.4		"	48.0		96.7	62-120			

LCS Dup (3D08001-BSD1)

Gasoline Range Hydrocarbons	498	50.0	ug/l	502		99.2	80-120	0.201	25	
Benzene	5.95	0.500	"	6.21		95.8	80-120	0.337	40	
Toluene	34.2	0.500	"	38.1		89.8	80-120	1.18	40	
Ethylbenzene	8.79	0.500	"	8.94		98.3	80-120	0.570	40	
Xylenes (total)	42.6	1.00	"	44.0		96.8	80-120	0.235	40	
Surrogate: 4-BFB (FID)	47.8		"	48.0		99.6	57-125			
Surrogate: 4-BFB (PID)	46.5		"	48.0		96.9	62-120			

Matrix Spike (3D08001-MS1)

Source: B3C0715-02

Gasoline Range Hydrocarbons	493	50.0	ug/l	502	14.6	95.3	70-130			
Benzene	6.50	0.500	"	6.21	ND	105	80-134			
Toluene	34.2	0.500	"	38.1	ND	89.8	68-114			
Ethylbenzene	8.70	0.500	"	8.94	0.0532	96.7	72-128			
Xylenes (total)	42.2	1.00	"	44.0	ND	95.9	67-125			
Surrogate: 4-BFB (FID)	47.4		"	48.0		98.8	57-125			
Surrogate: 4-BFB (PID)	44.3		"	48.0		92.3	62-120			

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3D08001: Prepared 04/08/03 Using EPA 5030B (P/T)

Matrix Spike Dup (3D08001-MSD1)

Source: B3C0715-02

Gasoline Range Hydrocarbons	471	50.0	ug/l	502	14.6	90.9	70-130	4.56	25	
Benzene	5.90	0.500	"	6.21	ND	95.0	80-134	9.68	40	
Toluene	34.2	0.500	"	38.1	ND	89.8	68-114	0.00	40	
Ethylbenzene	8.65	0.500	"	8.94	0.0532	96.2	72-128	0.576	40	
Xylenes (total)	41.9	1.00	"	44.0	ND	95.2	67-125	0.713	40	
Surrogate: 4-BFB (FID)	46.3		"	48.0		96.5	57-125			
Surrogate: 4-BFB (PID)	45.4		"	48.0		94.6	62-120			

North Creek Analytical - Bothell

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Page 8 of 10



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Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3D01007: Prepared 04/01/03 Using EPA 3520C										
Blank (3D01007-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.343		"	0.320		107	50-150			
Surrogate: Octacosane	0.152		"	0.160		95.0	50-150			
LCS (3D01007-BS1)										
Diesel Range Hydrocarbons	1.89	0.250	mg/l	2.00		94.5	45-105			
Surrogate: 2-FBP	0.357		"	0.320		112	50-150			
LCS Dup (3D01007-BSD1)										
Diesel Range Hydrocarbons	1.74	0.250	mg/l	2.00		87.0	45-105	8.26	50	
Surrogate: 2-FBP	0.350		"	0.320		109	50-150			

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Page 9 of 10



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815 Industry Dr
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Project: TOSCO #5472
Project Number: 031023
Project Manager: John Meyer

Reported:
04/11/03 13:44

Notes and Definitions

D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

North Creek Analytical - Bothell

Amar Gill, Project Manager

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TOSCO CHAIN OF CUSTODY REPORT

B3 60725

Facility Number: Tosco 5472

Site Address: 3460 1st Ave S.

City, State, ZIP: Seattle WA

Project/AWO Code _____

Tosco Manager: Tim Johnson

FACILITY TYPE: (check one) ☐ BP/® ☐ Terminal/Bulk Plant

☐ Brown Bear ☐ Former 76 Site ☐ Other _____

Firm: ERI		Project# 03/023	
Address: 815 Industry Drive Tukwila WA 98188			
Phone: 206 575-6220		Fax: X6423	
Project Manager: James Mathiason		E-mail:	
Sample Collection by: Adam Bailey			

Quality Assurance Data Level:

☒ ☐ B

A: Standard Summary

B: Standard + Chromatograms

Laboratory Turnaround Days:

☒ 0 ☐ 5 ☐ 3 ☐ 2 ☐ 1

10 Day - Standard

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O)	# OF CON- TAINERS
1. MW1	3/28/03	W	5
2. MW6		W	5
3. MW8		W	4
4. MW9		W	5
5. MW12		W	5
6. MW13		W	5
7. MW14		W	5
8.			
9.			
10.			

	☐ OR	☐ WA	☐ AK	☒ NW Series	☐ ID
TPH-HCID					
TPH-Gas					
BTEX					
EPA 8021 Mod.					
TPH-Gas + BTEX	☒	☒	☒	☒	☒
TPH-Diesel					
TPH-Diesel Extended					
TPH-Diesel-Ext w/SG Cleanup	☒	☒	☒	☒	☒
Halogen Volatiles					
EPA 8021					
Pesticides/PCBs or PCBs Only					
GC/MS Volatiles					
EPA 8260					
GC/MS Semi Vols.					
EPA 8270					
PAH's					
8270 SIM or 8310					
Lead:					
Total or Dissolved					
TCLP or RCRA					
Metals (8)					

NCA SAMPLE NUMBER
B3C 0725 -01
02
03
04
05
06
07

	Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1.	<i>[Signature]</i>	ERI	3/28/03	<i>[Signature]</i>	NCA	3/28/03 144
2.	<i>[Signature]</i>	NCA	3/28/03 1545	<i>[Signature]</i>	NCA	3/28/03 15
3.						

Comments: 4.0
wy

Page 1 of 1

Rev. To83.3,2/99

Comments:

Distribution: White - Laboratory Yellow - Consultant Photocopy - Tosco

GROUNDWATER SAMPLING - FIELD LOG

Client Name: TOSCO 5472

Location: 1st Ave. S.

Field Crew: Adam Bailon

ERI Job No. 031023

Date: 3/28/03

Page 1 of 1

Field Cleaning Performed: _____

Analysis:

* - Case Volume = $(d_{\text{inner}} - d_{\text{outer}})_{\text{in}} \times F$ where $F =$
 0.163 for a 2" inside diameter well casing
 0.652 for a 4" inside diameter well casing
 1.467 for a 6" inside diameter well casing

[illegible]

Revised 7/20/94

ENVIRONMENTAL RESOLUTIONS, INC.