

DATE: July 24, 2003

**CONOCOPHILLIPS CORPORATION
GROUNDWATER MONITORING REPORT**

Site No.: 5353 Address: 600 Westlake Avenue North, 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) [Second - 2003]:

- Monitored , purged and sampled 8 groundwater monitoring wells

WORK PROPOSED FOR NEXT QUARTER [Third - 2003]:

- Monitor 21, purge, and sample 20 groundwater monitoring wells

SUMMARY:

Frequency of Sampling Events:	<u>Quarterly</u>	(Quarterly, etc.)
Approximate Depth to Groundwater:	<u>9 to 13 feet</u>	(Measured Feet)
Groundwater Gradient:	<u>Northerly and Westerly</u>	(Direction)
	<u>0.006 ft/ft</u>	(Magnitude)
Maximum TPH-G/Benzene Concentrations:	<u>17,400/4,830</u>	(ppb)
Measurable Free Product Detected:	<u>No</u>	(Yes - ID well(s)/No)
Free Product Recovered This Quarter:	<u>Unknown</u>	(gallons)
Cumulative Free Product Recovered to Date:	<u>Unknown</u>	(gallons)
Bulk Soil Removed This Quarter:	<u>None</u>	(cubic yards)
Water Wells or Surface Waters w/in 2,000 ft:	<u>Lake Union, 400 ft</u>	(Distance &
Radius and Respective Direction:	<u>North</u>	Direction)
Current Remedial Action:	<u>VES/EFRT</u>	(SVE/AS/P&T, etc.)
Permits for Discharge:	<u>PSAPCA No. 4397</u>	(NPDES, POTW, etc.)

DISCUSSION:

- All 8 wells sampled contained hydrocarbon concentrations exceeding MTCA Method A Cleanup Levels.
- MW33 contained sheen LPH.

ATTACHMENTS:

- Plate 1: Groundwater Sample Analysis Map – 06/12/03
- Table 1: Groundwater Analytical Results
- Laboratory Reports and Chain of Custody Documentation
- Field Data Records

Prepared By:

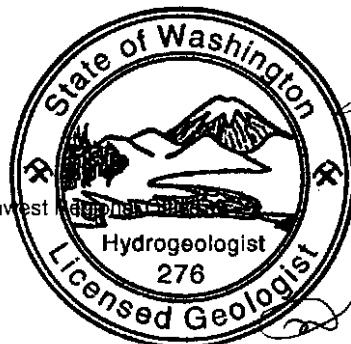
Yukiko Noguchi

Yukiko Noguchi
Staff Scientist

Reviewed By:

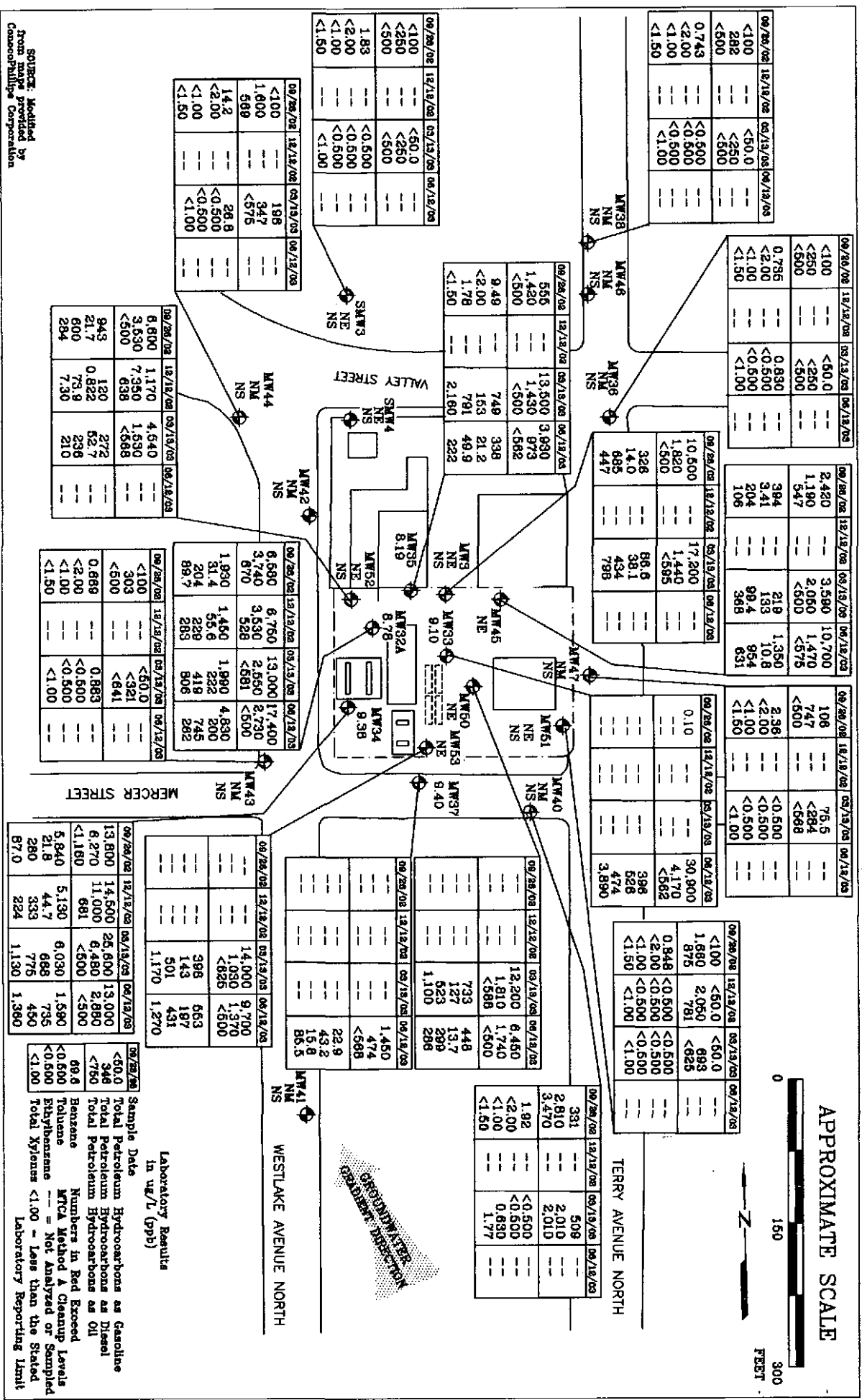
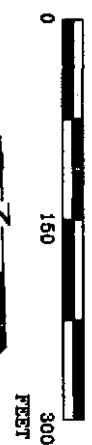
John K. Meyer
John K. Meyer, R.G.
Branch Manager

cc: Washington State Department of Ecology, Northwest Region
Mr. Dave Cook, GeoEngineers



JOHN K. MEYER

APPROXIMATE SCALE



SOURCE: Modified from maps provided by Cascade Phillips Corporation

FN 31020.13

GROUNDWATER SAMPLE ANALYSIS MAP - 06/12/03

TOSCO SITE NO. 5353
600 Westlake Avenue North
Seattle, Washington



EXPLANATION

- MW37 Groundwater Monitoring Well
- 9.70 Groundwater Elevation
- NM Not Measured
- NE Not Established
- NS Not Sampled

PROJECT NO. 31020

PLATE 1

YN: 07/16/03

Laboratory Results in ug/L (ppb)

Sample Date	Total Petroleum Hydrocarbons as Gasoline	Total Petroleum Hydrocarbons as Diesel	Total Petroleum Hydrocarbons as Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
06/28/02	13,800	14,500	26,600	13,000	6,270	11,000	6,480
12/12/02	14,500	26,600	13,000	6,270	11,000	6,480	2,890
05/19/03	26,600	13,000	6,270	11,000	6,480	2,890	1,590
06/12/03	13,000	6,270	11,000	6,480	2,890	1,590	868
	69.8	44.7	776	480	776	480	480
	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Numbers in Red Exceed MCA Method A Cleanup Levels
-- = Not Analyzed or Sampled
Laboratory Reporting Limit

Well	06/28/02	12/12/02	05/19/03	06/12/03
MW37	9.70	9.70	9.70	9.70
MW41	NS	NS	NS	NS
MW42	NS	NS	NS	NS
MW43	NS	NS	NS	NS
MW44	NS	NS	NS	NS
MW45	NS	NS	NS	NS
MW46	NS	NS	NS	NS
MW47	NS	NS	NS	NS
MW48	NS	NS	NS	NS
MW50	NS	NS	NS	NS
MW51	NS	NS	NS	NS
MW52	NS	NS	NS	NS
MW53	NS	NS	NS	NS
MW54	NS	NS	NS	NS
MW55	NS	NS	NS	NS
MW56	NS	NS	NS	NS
MW57	NS	NS	NS	NS
MW58	NS	NS	NS	NS
MW59	NS	NS	NS	NS
MW60	NS	NS	NS	NS
MW61	NS	NS	NS	NS
MW62	NS	NS	NS	NS
MW63	NS	NS	NS	NS
MW64	NS	NS	NS	NS
MW65	NS	NS	NS	NS
MW66	NS	NS	NS	NS
MW67	NS	NS	NS	NS
MW68	NS	NS	NS	NS
MW69	NS	NS	NS	NS
MW70	NS	NS	NS	NS
MW71	NS	NS	NS	NS
MW72	NS	NS	NS	NS
MW73	NS	NS	NS	NS
MW74	NS	NS	NS	NS
MW75	NS	NS	NS	NS
MW76	NS	NS	NS	NS
MW77	NS	NS	NS	NS
MW78	NS	NS	NS	NS
MW79	NS	NS	NS	NS
MW80	NS	NS	NS	NS
MW81	NS	NS	NS	NS
MW82	NS	NS	NS	NS
MW83	NS	NS	NS	NS
MW84	NS	NS	NS	NS
MW85	NS	NS	NS	NS
MW86	NS	NS	NS	NS
MW87	NS	NS	NS	NS
MW88	NS	NS	NS	NS
MW89	NS	NS	NS	NS
MW90	NS	NS	NS	NS
MW91	NS	NS	NS	NS
MW92	NS	NS	NS	NS
MW93	NS	NS	NS	NS
MW94	NS	NS	NS	NS
MW95	NS	NS	NS	NS
MW96	NS	NS	NS	NS
MW97	NS	NS	NS	NS
MW98	NS	NS	NS	NS
MW99	NS	NS	NS	NS
MW100	NS	NS	NS	NS

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
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Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
SMW3 NE	03/08/95	10.25	0.00	--	<50	400	2,500	<0.5	<0.5	<0.5	<1.0
	06/06/95	10.23	0.00	--	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	09/07/95	10.89	0.00	--	<50	300	<750	<0.5	<0.5	<0.5	<1.0
	12/08/95	10.36	0.00	--	<50	300	<750	<0.5	<0.5	<0.5	<1.0
	04/01/96	10.07	0.00	--	34,000	4,000	2,300	6,400	42	2,100	3,000
	06/25/96	10.19	0.00	--	<50.0	320	<750	<0.500	<0.500	<0.500	<1.00
	09/27/96	11.12	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	03/28/97	10.19	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/30/97 ^{NP}	10.14	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/08/97 ^{NP}	10.85	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/97 ^{NP}	9.67	0.00	--	<50.0	521	<750	<0.500	<0.500	<0.500	<1.00
	03/16/98 ^{NP}	9.28	0.00	--	50.1	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/26/98 ^{NP}	8.87	0.00	--	<50.0	500	<750	<0.500	<0.500	<0.500	<1.00
	09/23/98 ^{NP}	9.88	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/17/98 ^{NP}	9.22	0.00	--	<50.0	293	<750	<0.500	<0.500	<0.500	<1.00
	03/31/99 ^{NP}	9.01	0.00	--	<50.0	360	<750	<0.500	<0.500	0.526	4.97
	06/30/99 ^{NP}	9.55	0.00	--	<50.0	639	<750	<0.500	0.609	<0.500	1.32
	12/08/99 ^{NP}	8.75	0.00	--	<50.0	<484	<1,450	<0.500	<0.500	<0.500	<1.00
	06/20/00 ^{NP}	8.89	0.00	--	<50.0	<250	<750	<0.500	0.585	<0.500	1.86
	12/19/00	NM	--	--	--	--	--	--	--	--	--
	06/15/01 ^{NP}	7.23	0.00	--	<50.0	368	<866	<0.500	<0.500	<0.500	<1.00
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01 ^{NP**}	9.19	0.00	--	<50.0	385	<571	<0.500	<0.500	<0.500	<1.00
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	8.89	0.00	--	<50.0	1,160	<500	<0.500	0.902	<0.500	2.78
	03/08/02	NM	--	--	--	--	--	--	--	--	--
06/24/02	NM	--	--	--	--	--	--	--	--	--	
09/26/02	10.32	0.00	--	<100	<250	<500	1.83	<2.00	<1.00	<1.50	
12/12/02	NM	--	--	--	--	--	--	--	--	--	
03/13/03	10.99	0.00	--	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	
06/12/03	NM	--	--	--	--	--	--	--	--	--	
SMW4 NE	03/08/95	8.14	0.00	--	39,000	4,100	5,100	13,000	<250	2,400	8,200
	06/06/95	8.90	0.00	--	41,000	5,500	<750	9,400	44	2,700	4,900
	09/07/95	8.99	0.00	--	--	--	--	--	--	--	--
	12/08/95	7.56	0.00	--	40,000	1,500	920	8,100	57	2,600	3,800
	04/01/96	8.13	0.00	--	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	06/25/96	8.20	0.00	--	28,100	2,680	630	3,900	81.4	1,710	1,710
	09/27/96	8.62	0.00	--	28,600	2,460	<750	6,090	<0.500	2,060	1,730
	03/28/97	8.20	0.00	--	--	--	--	--	--	--	--
	06/30/97	8.06	0.00	--	--	--	--	--	--	--	--
	09/08/97	9.00	0.00	--	--	--	--	--	--	--	--
	12/19/97	9.41	0.04	LPH Present	--	--	--	--	--	--	--
	03/16/98	9.09	0.00	--	--	--	--	--	--	--	--
	06/26/98	8.76	Trace	LPH Present	--	--	--	--	--	--	--
	09/23/98	9.96	0.05	LPH Present	--	--	--	--	--	--	--
	12/17/98	10.22	Trace	LPH Present	--	--	--	--	--	--	--
	03/31/99	8.70	Trace	LPH Present	--	--	--	--	--	--	--
	06/30/99	8.20	Trace	LPH Present	--	--	--	--	--	--	--
	12/08/99	Inaccessible	--	--	--	--	--	--	--	--	--
	06/20/00	Inaccessible	--	--	--	--	--	--	--	--	--
	12/19/00	Inaccessible	--	--	--	--	--	--	--	--	--
	06/15/01	Inaccessible	--	--	--	--	--	--	--	--	--
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01	Inaccessible	--	--	--	--	--	--	--	--	--
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	Inaccessible	--	--	--	--	--	--	--	--	--
	03/08/02	NM	--	--	--	--	--	--	--	--	--
06/24/02	NM	--	--	--	--	--	--	--	--	--	
09/26/02	NM	--	--	--	--	--	--	--	--	--	
12/12/02	NM	--	--	--	--	--	--	--	--	--	
03/13/03	9.55	0.00	--	--	--	--	--	--	--	--	
06/12/03	NM	--	--	--	--	--	--	--	--	--	
MW3 NE	10/10/01	10.11	0.00	--	14,100	4,060	1,990	1,070	<25.0	1,040	292
	12/28/01	9.61	0.00	--	3,340	1,810	<500	92.6	4.62	146	61.2
	03/08/02	NM	--	--	--	--	--	--	--	--	--
	06/24/02	NM	--	--	--	--	--	--	--	--	--
	09/26/02 ^b	10.96	0.00	--	10,500	1,820	<500	326	14.0	685	447
	12/12/02	NM	--	--	--	--	--	--	--	--	--
	03/13/03	7.87	0.00	--	17,200	1,440	<595	86.6	38.1	434	798
06/12/03	NM	--	--	--	--	--	--	--	--	--	

MTCA Method A Cleanup Levels
Continued on page 2

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
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Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	
MW32A 20.70	03/08/95	11.29	0.00	9.69	21,000	2,300	2,300	5,800	1,700	990	2,900	
	06/06/95	--	--	--	--	--	--	--	--	--	--	
	09/07/95	11.27	--	9.43	20,000	2,500	1,600	4,200	470	730	2,000	
	12/08/95	10.61	--	10.06	11,000	1,200	<750	1,600	86	420	910	
	04/01/96	10.90	--	9.80	7,900	1,400	1,000	2,200	58	300	490	
	06/25/96	10.98	--	9.72	7,500	1,250	<750	1,200	60.4	217	435	
	09/27/96	11.37	--	9.61	7,050	1,040	<750	1,570	37.4	264	416	
	03/28/97	11.26	--	9.72	--	--	--	--	--	--	--	
	06/30/97	10.89	--	--	--	--	--	--	--	--	--	
	09/08/97	11.67	0.00	9.31	--	--	--	--	--	--	--	
	12/19/97	11.42	0.00	9.28	--	--	--	--	--	--	--	
	03/16/98	11.30	0.00	9.40	--	--	--	--	--	--	--	
	06/26/98	11.29	0.00	9.41	--	--	--	--	--	--	--	
	09/23/98	11.97	0.00	8.73	--	--	--	--	--	--	--	
	12/17/98	11.09	0.00	9.61	--	--	--	--	--	--	--	
	03/31/99	10.47	0.00	10.23	--	--	--	--	--	--	--	
	06/30/99	9.60	0.00	11.10	--	--	--	--	--	--	--	
	12/08/99	11.07	0.00	9.63	--	--	--	--	--	--	--	
	06/20/00	11.40	0.00	9.30	--	--	--	--	--	--	--	
	12/19/00 ^{NP}	10.90	0.00	9.80	7,010	1,740	<750	4,430	136	438	182	
	06/15/01 ^{NP}	11.31	0.00	9.39	13,700	2,810	<846	2,370	11.2	272	31.1	
	06/26/01 ^{NP}	11.85	0.00	8.85	15,500	1,620	<750	8,780	1,110	1,230	1,020	
	09/07/01 ^{NP}	10.81	0.00	9.89	17,100	4,220	822	5,870	19.9	684	110	
	10/10/01	NM	--	--	--	--	--	--	--	--	--	
	12/28/01	11.29	0.00	9.41	12,200	4,260	711	3,670	180	537	383	
	03/08/02	11.49	0.00	9.21	15,400	4,140	789	4,900	142	619	247	
06/24/02	11.56	0.00	9.14	6,850	2,040	577	2,820	7.43	221	58.1		
09/26/02 ^P	12.88	0.00	7.82	6,580	3,740	670	1,930	31.4	204	88.7		
12/12/02	12.72	0.00	7.98	6,750	3,530	528	1,460	55.6	229	283		
03/13/03	10.95	0.00	9.75	13,000	2,550	<581	1,990	222	419	306		
06/12/03	11.92	0.00	8.78	17,400	2,730	<500	4,830	200	745	262		
MW33 20.75	03/08/95	11.16	0.00	9.73	4,900	1,400	2,000	650	<25	320	420	
	06/06/95	--	--	--	--	--	--	--	--	--	--	
	09/07/95	11.20	0.00	9.55	9,700	1,400	820	550	140	230	620	
	12/08/95	--	--	--	13,000	1,800	1,800	800	240	280	760	
	04/01/96	11.00	0.00	9.75	5,200	960	<750	630	33	130	270	
	06/25/96	11.05	0.00	9.70	2,700	1,030	<750	230	24.6	46.5	61.1	
	09/27/96	11.13	0.00	9.76	5,150	1,190	<750	1,190	237	86.3	272	
	03/28/97	11.19	0.00	9.70	--	--	--	--	--	--	--	
	06/30/97	10.66	0.00	10.23	--	--	--	--	--	--	--	
	09/08/97	10.48	0.00	10.41	--	--	--	--	--	--	--	
	12/19/97	--	--	--	--	--	--	--	--	--	--	
	03/16/98	--	--	--	--	--	--	--	--	--	--	
	06/26/98	11.18	0.00	9.57	--	--	--	--	--	--	--	
	09/23/98	11.90	0.00	8.85	--	--	--	--	--	--	--	
	12/17/98	11.03	0.00	9.72	--	--	--	--	--	--	--	
	03/31/99	10.38	0.00	10.37	--	--	--	--	--	--	--	
	06/30/99	9.52	0.00	11.23	--	--	--	--	--	--	--	
	12/08/99	10.97	0.00	9.78	--	--	--	--	--	--	--	
	06/20/00	11.33	0.00	9.42	--	--	--	--	--	--	--	
	12/19/00	Inaccessible	--	--	--	--	--	--	--	--	--	
	06/15/01	12.72	2.50	10.16	LPH Present							
	06/26/01	NM	--	--	--	--	--	--	--	--	--	
	09/07/01	NM	0.3	--	LPH Present							
	10/10/01	NM	--	--	--	--	--	--	--	--	--	
	12/28/01	11.21	0.00	9.54	141,000	25,200	2,680	5,380	32,500	3,410	22,700	
	03/08/02	11.37	0.00	9.38	126,000	31,400	3,420	2,680	21,600	3,420	24,800	
06/24/02	11.36	0.00	9.39	205,000	51,700	14,000	1,510	14,200	3,770	28,900		
09/26/02	12.45	0.10	8.39	LPH Present								
12/12/02	12.34	0.00	8.41	--	--	--	--	--	--	--		
03/13/03	10.59	0.00	10.16	--	--	--	--	--	--	--		
06/12/03	11.65	Sheen	9.10	30,900	4,170	<562	396	526	474	3,890		

MTCA Method A Cleanup Levels
Continued on page 3

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Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
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Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW34 21.42	03/08/95	11.62	0.00	10.08	8,200	1,100	480	2,400	1,500	260	1,300
	06/06/95	11.73	0.00	9.97	9,100	2,300	<750	4,200	1,000	330	1,200
	09/07/95	11.57	0.00	9.85	18,000	1,800	930	4,800	2,300	580	2,000
	12/08/95	10.92	0.00	10.50	68,000	2,900	1,600	12,000	9,200	1,200	5,500
	04/01/96	11.21	0.00	10.21	10,000	1,900	<750	5,500	680	520	1,200
	06/25/96	11.19	0.00	10.23	13,700	1,180	<750	4,180	1,110	393	1,740
	09/27/96	11.58	0.00	10.12	16,300	1,030	<750	5,010	2,620	541	1,310
	03/28/97	11.47	0.00	10.23	--	--	--	--	--	--	--
	06/30/97 ^{NP}	11.19	0.00	10.51	2,970	311	<750	1,930	15.7	271	631
	09/08/97 ^{NP}	11.74	0.00	9.96	8,390	455	<750	3,820	645	587	1,270
	12/19/97	NM	--	--	--	--	--	--	--	--	--
	03/16/98	NM	--	--	--	--	--	--	--	--	--
	06/26/98 ^{NP}	11.42	0.00	10.00	76,900	3,090	<750	13,400	11,100	2,310	9,080
	09/23/98 ^{NP}	12.23	0.00	9.19	9,040	3,000	799	3,540	243	636	1,650
	12/17/98 ^{NP}	11.35	0.00	10.07	80,900	5,470	1,380	14,200	10,800	3,119	11,800
	03/31/99 ^{NP}	10.85	0.00	10.57	33,400	1,910	<750	5,970	1,740	1,400	3,820
	06/30/99 ^{NP}	10.18	0.00	11.24	28,500	4,840	984	4,340	1,320	1,490	3,610
	12/08/99 ^{NP}	11.33	0.00	10.09	62,400	2,500	<1,380	12,900	7,440	3,240	9,210
	06/20/00 ^{NP}	11.68	0.00	9.74	25,000	<250	<750	6,360	480	2,190	3,930
	12/19/00	NM	--	--	--	--	--	--	--	--	--
	08/15/01 ^{NP}	11.85	0.00	9.57	25,800	4,780	<883	5,300	90.0	1,930	2,190
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01 ^{NP}	11.86	0.00	9.56	17,800	4,510	722	3,540	44.9	1,510	2,180
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	11.46	0.00	9.96	19,000	8,400	752	5,320	1,200	406	1,010
	03/09/02	11.70	0.00	9.72	59,200	8,550	661	7,200	8,610	2,190	8,200
	06/24/02	11.91	0.00	9.51	12,500	4,200	614	2,140	651	689	1,160
	09/26/02 ^B	12.80	0.00	8.62	13,800	6,270	<1,160	5,840	21.8	280	87.0
	12/12/02	12.98	0.00	8.44	14,500	11,000	681	5,130	44.7	333	224
	03/13/03	11.67	0.00	9.75	25,600	6,480	<500	6,030	668	775	1,130
06/12/03	12.04	0.00	9.38	13,000	2,880	<500	1,580	735	450	1,360	
MW35 20.10	03/08/95	10.67	0.00	9.60	2,600	1,200	1,300	400	<25	120	83
	06/06/95	10.67	0.00	9.60	810	1,000	930	62	1.4	27	36
	09/07/95	10.87	0.00	9.43	--	--	--	--	--	--	--
	12/08/95	--	--	--	--	--	--	--	--	--	--
	04/01/96	--	--	--	--	--	--	--	--	--	--
	06/25/96	11.11	0.00	8.99	1,620	650	<750	68.2	1.11	26.7	17.6
	09/27/96	10.64	0.00	9.63	959	524	<750	38.8	0.990	10.4	6.18
	03/28/97 ^{NP}	11.28	0.00	8.99	1,370	333	<750	161	2.36	31.9	10.7
	03/28/97	11.28	0.00	8.99	1,800	<250	<750	250	2.62	49.1	8.04
	06/30/97 ^{NP}	10.19	0.00	10.08	1,900	<250	<750	348	<2.50	85	7.31
	09/08/97 ^{NP}	10.86	0.00	9.41	4,200	<250	<750	1,480	16.2	231	68.2
	12/19/97	NM	--	--	--	--	--	--	--	--	--
	03/16/98 ^{NP}	10.64	0.00	9.46	905	361	<750	410	4.24	<2.50	<5.00
	06/26/98 ^{NP}	10.65	0.00	9.45	1,300	682	<750	600	<10.0	45.1	<20.0
	09/23/98 ^{NP}	11.38	0.00	8.72	665	669	<750	243	<2.50	<2.50	<5.00
	12/17/98 ^{NP}	10.49	0.00	9.61	699	572	<750	402	<2.50	10.8	9.99
	03/31/99	Obstructed by vehicle	--	--	--	--	--	--	--	--	--
	06/30/99	Obstructed by vehicle	--	--	--	--	--	--	--	--	--
	12/08/99	Obstructed by vehicle	--	--	--	--	--	--	--	--	--
	06/20/00	Obstructed by vehicle	--	--	--	--	--	--	--	--	--
	12/19/00	Obstructed by vehicle	--	--	--	--	--	--	--	--	--
	06/15/01	NM	--	--	--	--	--	--	--	--	--
	06/26/01 ^{NP}	10.60	0.00	9.50	504	464	<750	11.3	27.5	5.52	28.4
	09/04/01 ^{NP}	10.54	0.00	9.56	263	903	<564	2.36	<0.500	<0.500	<1.00
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	10.54	0.00	9.56	691	1,160	<500	28.7	0.898	14.1	13.2
	03/08/02	10.72	0.00	9.38	638	1,100	<500	16.2	0.939	7.05	6.91
	06/24/02	Obstructed by vehicle	--	--	--	--	--	--	--	--	--
	09/26/02 ^B	11.90	0.00	8.20	555	1,420	<500	9.49	<2.00	1.78	<1.50
	12/12/02	Obstructed by vehicle	--	--	--	--	--	--	--	--	--
03/13/03	9.87	0.00	10.23	13,500	1,430	<500	749	153	791	2,180	
06/12/03	11.91	0.00	8.19	3,930	973	<562	338	21.2	49.9	222	
MTCA Method A Cleanup Levels					1,000 ^B		5	40	30	20	

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TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
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Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW36 17.80	03/08/95	9.07	0.00	8.97	<50	560	1,200	2.6	<0.5	<0.5	<1.0
	06/06/95	7.92	0.00	10.12	<50	<250	<750	1	<0.5	<0.5	<1.0
	09/07/95	8.11	0.00	9.69	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	12/08/95	9.00	0.00	8.80	<50	510	1,200	1.1	<0.5	<0.5	<1.0
	04/01/96	9.00	0.00	8.80	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
	06/25/96	8.97	0.00	--	<50.0	<250	<750	0.58	0.500	<0.500	<1.00
	09/27/96	7.53	0.00	10.51	<50.0	<250	<750	1.18	<0.500	<0.500	<1.00
	03/28/97	9.21	0.00	8.83	<50.0	<250	<750	0.810	<0.500	<0.500	<1.00
	06/30/97 ^{NP}	6.88	0.00	11.16	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/08/97 ^{NP}	9.21	0.00	8.83	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/97 ^{NP}	10.09	0.00	7.71	<50.0	<250	<750	0.606	<0.500	<0.500	<1.00
	03/16/98 ^{NP}	9.29	0.00	8.51	56.6	287	<750	<0.500	<0.500	<0.500	<1.00
	06/26/98 ^{NP}	8.47	0.00	9.33	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/23/98 ^{NP}	9.89	0.00	7.91	<50.0	<250	<750	0.737	<0.500	<0.500	1.13
	12/17/98 ^{NP}	10.00	0.00	7.80	<50.0	288	<750	0.533	<0.500	<0.500	<1.00
	03/31/99 ^{NP}	8.96	0.00	8.84	<50.0	321	<750	0.759	<0.500	<0.500	<1.00
	06/30/99 ^{NP}	8.44	0.00	9.36	<50.0	<250	<750	1.29	<0.500	<0.500	<1.00
	12/08/99 ^{NP}	10.05	0.00	7.75	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/20/00 ^{NP}	8.47	0.00	9.33	172	<250	<750	<0.500	0.583	1.78	11.1
	12/19/00 ^{NP}	9.50	0.00	8.30	106	<250	<750	0.529	1.51	1.08	7.14
	06/15/01 ^{NP}	8.00	0.00	9.80	<50.0	298	<750	0.691	0.648	0.530	1.53
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01 ^{NP}	8.70	0.00	9.10	<50.0	<250	<500	0.897	<0.500	<0.500	<1.00
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	9.57	0.00	8.23	<50.0	367	<500	0.773	0.748	<0.500	1.78
	03/08/02	NM	--	--	--	--	--	--	--	--	--
	06/24/02	NM	--	--	--	--	--	--	--	--	--
	09/26/02	10.16	0.00	7.64	<100	<250	<500	0.735	<2.00	<1.00	<1.50
	12/12/02	NM	--	--	--	--	--	--	--	--	--
	03/13/03	9.34	0.00	8.46	<50.0	<250	<500	0.830	<0.500	<0.500	<1.00
	06/12/03	NM	--	--	--	--	--	--	--	--	--
MW37 21.01	03/08/95	11.94	0.00	9.24	34	3,200	1,400	3,100	2,400	1,200	6,700
	06/06/95	11.76	0.01	9.43	45	4,600	2,500	3,700	2,400	1,300	7,900
	06/06/95	11.76	0.01	9.43	90	--	--	5,100	6,000	2,400	14,000
	09/07/95	11.17	0.00	9.84	--	--	--	--	--	--	--
	12/08/95	10.22	0.00	10.79	--	--	--	--	--	--	--
	04/01/96	10.79	0.02	10.22	LPH Present	--	--	--	--	--	--
	06/25/96	10.82	0.20	10.19	LPH Present	--	--	--	--	--	--
	09/27/96	11.47	0.05	9.75	LPH Present	--	--	--	--	--	--
	03/28/97 ^{NP}	11.14	0.25	10.40	60,100	7,570	789	1,530	2,180	1,650	7,440
	03/28/97	11.14	0.25	10.40	297,000	45,100	<8,250	6,670	13,200	4,930	22,900
	06/30/97	10.80	0.02	10.23	LPH Present	--	--	--	--	--	--
	09/08/97	11.41	0.23	9.77	LPH Present	--	--	--	--	--	--
	12/19/97	11.28	0.02	9.75	LPH Present	--	--	--	--	--	--
	03/16/98	11.11	0.01	9.91	LPH Present	--	--	--	--	--	--
	06/26/98	11.32	0.01	9.70	LPH Present	--	--	--	--	--	--
	09/23/98	12.01	0.03	9.03	LPH Present	--	--	--	--	--	--
	12/17/98	11.00	Trace	10.01	LPH Present	--	--	--	--	--	--
	03/31/99	--	Trace	--	LPH Present	--	--	--	--	--	--
	06/30/99	DRY	0.30	--	LPH Present	--	--	--	--	--	--
	12/08/99	11.11	--	9.90	--	--	--	--	--	--	--
	06/20/00	11.50	--	9.51	--	--	--	--	--	--	--
	12/19/00	11.50	0.50	9.94	LPH Present	--	--	--	--	--	--
	06/15/01 ^{NP}	11.35	0.03	9.68	LPH Present	--	--	--	--	--	--
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01 ^{NP}	11.43	0.00	9.58	159,000	22,100	14,600	3,420	12,600	4,440	27,000
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01 ^{NP}	11.00	0.20	10.18	LPH Present	--	--	--	--	--	--
	03/08/02	11.61	0.40	9.74	LPH Present	--	--	--	--	--	--
	06/24/02	Inaccessible	--	--	--	--	--	--	--	--	--
	09/26/02	12.38	0.00	8.63	--	--	--	--	--	--	--
	12/12/02	12.35	0.00	8.66	--	--	--	--	--	--	--
03/13/03	11.10	0.00	9.91	--	--	--	--	--	--	--	
06/12/03	11.61	0.00	9.40	1,450	474	<568	22.9	43.2	15.8	85.5	

MTCA Method A Cleanup Levels
Continued on page 5

1,000^a 5 40 30 20

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
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Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW38 16.52	03/08/95	--	--	--	--	--	--	--	--	--	--
	06/06/95	--	--	--	--	--	--	--	--	--	--
	09/07/95	--	--	--	--	--	--	--	--	--	--
	12/08/95	--	--	--	--	--	--	--	--	--	--
	04/01/96	--	--	--	--	--	--	--	--	--	--
	06/25/96	--	--	--	--	--	--	--	--	--	--
	09/27/96	--	--	--	--	--	--	--	--	--	--
	03/28/97	9.23	0.00	7.60	<50	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97	NM	--	--	--	--	--	--	--	--	--
	03/16/98	NM	--	--	--	--	--	--	--	--	--
	06/26/98	NM	--	--	--	--	--	--	--	--	--
	09/23/98	NM	--	--	--	--	--	--	--	--	--
	12/17/98	NM	--	--	--	--	--	--	--	--	--
	03/31/99	NM	--	--	--	--	--	--	--	--	--
	06/30/99	NM	--	--	--	--	--	--	--	--	--
	12/08/99	NM	--	--	--	--	--	--	--	--	--
	06/20/00	NM	--	--	--	--	--	--	--	--	--
	12/19/00	NM	--	--	--	--	--	--	--	--	--
	06/15/01	NM	--	--	--	--	--	--	--	--	--
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01	NM	--	--	--	--	--	--	--	--	--
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	8.96	0.00	7.56	<50.0	403	<500	0.636	1.33	0.554	2.59
	03/08/02	NM	--	--	--	--	--	--	--	--	--
06/24/02	NM	--	--	--	--	--	--	--	--	--	
09/26/02 ^b	8.87	0.00	7.65	<100	282	<500	0.743	<2.00	<1.00	<1.50	
12/12/02	NM	--	--	--	--	--	--	--	--	--	
03/13/03	7.84	0.00	8.68	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	
06/12/03	NM	--	--	--	--	--	--	--	--	--	
MW40 20.89	03/08/95	10.98	0.00	10.14	980	2,600	2,600	11	<0.5	11	<1.0
	06/06/95	11.18	0.00	9.94	1,500	2,300	1,600	6.8	4.3	4.1	21
	09/07/95	11.08	0.00	9.81	650	13,000	66,000	11	0.91	0.57	<1.0
	12/08/95	10.30	0.00	10.59	500	1,400	4,800	2.7	3	<0.5	<1.0
	04/01/96	10.56	0.00	10.33	520	3,200	13,000	1.2	<0.5	0.55	<1.0
	06/25/96	10.69	0.00	10.20	500	2,700	8,460	<0.500	9.82	<0.500	<1.00
	09/27/96	10.95	0.00	10.17	602	3,650	9,860	0.604	41.1	0.525	<1.0
	03/28/97	10.92	0.00	10.20	--	--	--	--	--	--	--
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97 ^{NP}	11.11	0.00	9.78	326	3,260	12,600	<0.500	0.504	0.663	2.44
	03/16/98	NM	--	--	--	--	--	--	--	--	--
	06/26/98	NM	--	--	--	--	--	--	--	--	--
	09/23/98	NM	--	--	--	--	--	--	--	--	--
	12/17/98 ^{NP}	10.86	0.00	10.03	384	2,840	9,620	<0.500	<0.500	<0.500	<1.00
	03/31/99	NM	--	--	--	--	--	--	--	--	--
	06/30/99	NM	--	--	--	--	--	--	--	--	--
	12/08/99	NM	--	--	--	--	--	--	--	--	--
	06/20/00	NM	--	--	--	--	--	--	--	--	--
	12/09/00	NM	--	--	--	--	--	--	--	--	--
	12/19/00	NM	--	--	--	--	--	--	--	--	--
	06/15/01	NM	--	--	--	--	--	--	--	--	--
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01	NM	--	--	--	--	--	--	--	--	--
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	10.75	0.00	10.14	449	4,000	5,090	2.12	2.19	1.38	3.88
03/08/02	NM	--	--	--	--	--	--	--	--	--	
06/24/02	NM	--	--	--	--	--	--	--	--	--	
09/26/02	12.69	0.00	8.20	331	2,810	3,470	1.92	<2.00	<1.00	<1.50	
12/12/02	NM	--	--	--	--	--	--	--	--	--	
03/13/03	11.30	0.00	9.59	509	2,010	2,010	<0.500	<0.500	0.630	1.77	
06/12/03	NM	--	--	--	--	--	--	--	--	--	
MTC Method A Cleanup Levels					1,000 ^a		5	40	30	20	

Continued on page 6

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
Page 6 of 9

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	
MW41 27.00	03/08/95	14.72	--	12.48	<50	<250	<750	1.6	<0.5	<0.5	<1.0	
	06/06/95	15.02	--	12.18	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	
	09/07/95	15.00	--	12.00	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	
	12/08/95	16.30	--	10.70	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	
	04/01/96	15.02	--	11.98	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	
	06/25/96	15.07	--	11.93	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	
	09/27/96	15.42	0.00	11.78	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	
	03/28/97	15.27	0.00	11.93	--	--	--	--	--	--	--	
	06/30/97	--	--	--	--	--	--	--	--	--	--	
	09/08/97	--	--	--	--	--	--	--	--	--	--	
	12/19/97	NM	--	--	--	--	--	--	--	--	--	
	03/16/98	NM	--	--	--	--	--	--	--	--	--	
	06/26/98	NM	--	--	--	--	--	--	--	--	--	
	09/23/98	NM	--	--	--	--	--	--	--	--	--	
	12/17/98	NM	--	--	--	--	--	--	--	--	--	
	03/31/99	NM	--	--	--	--	--	--	--	--	--	
	06/30/99	NM	--	--	--	--	--	--	--	--	--	
	12/08/99	NM	--	--	--	--	--	--	--	--	--	
	06/20/00	NM	--	--	--	--	--	--	--	--	--	
	12/19/00	NM	--	--	--	--	--	--	--	--	--	
	06/15/01	NM	--	--	--	--	--	--	--	--	--	
	06/26/01	NM	--	--	--	--	--	--	--	--	--	
	09/07/01	NM	--	--	--	--	--	--	--	--	--	
	10/10/01	NM	--	--	--	--	--	--	--	--	--	
	12/28/01	NM	--	--	--	--	--	--	--	--	--	
	03/08/02	NM	--	--	--	--	--	--	--	--	--	
	06/24/02	NM	--	--	--	--	--	--	--	--	--	
	09/26/02	NM	--	--	--	--	--	--	--	--	--	
	12/12/02	NM	--	--	--	--	--	--	--	--	--	
	03/13/03	NM	--	--	--	--	--	--	--	--	--	
	06/12/03	NM	--	--	--	--	--	--	--	--	--	
	MW42 20.34	03/08/95	9.45	0.00	10.91	130	670	1,200	780	<25	<25	<50
		06/06/95	9.37	0.00	10.89	120	920	1,500	500	<0.56	<0.5	<1.0
09/07/95		9.50	0.00	10.84	3,000	780	1,200	210	4.1	42	230	
12/08/95		8.95	0.00	11.39	200	1,300	1,900	380	<2.0	<2.0	<4.0	
04/01/96		9.03	0.00	11.31	180	650	<750	280	0.52	<0.5	<1.0	
06/25/96		9.07	0.00	11.27	150	720	<750	150	<0.500	<0.500	<1.00	
09/27/96		9.12	0.00	11.24	<250	534	<750	228	<2.50	<2.50	<5.00	
03/28/97		9.09	0.00	11.27	--	--	--	--	--	--	--	
06/30/97		8.92	0.00	11.44	--	--	--	--	--	--	--	
09/08/97		9.57	0.00	10.79	--	--	--	--	--	--	--	
12/19/97		NM	--	--	--	--	--	--	--	--	--	
03/16/98		9.53	0.00	10.81	--	--	--	--	--	--	--	
06/26/98		9.51	0.00	10.83	--	--	--	--	--	--	--	
09/23/98		9.96	0.00	10.38	--	--	--	--	--	--	--	
12/17/98		9.10	0.00	11.24	--	--	--	--	--	--	--	
03/31/99		9.00	0.00	11.34	--	--	--	--	--	--	--	
06/30/99		8.60	0.00	11.74	--	--	--	--	--	--	--	
12/08/99		8.00	0.00	12.34	--	--	--	--	--	--	--	
06/20/00		NM	--	--	--	--	--	--	--	--	--	
12/19/00		NM	--	--	--	--	--	--	--	--	--	
06/15/01		9.41	0.00	10.93	--	--	--	--	--	--	--	
06/26/01		NM	--	--	--	--	--	--	--	--	--	
09/07/01		9.66	0.00	10.68	--	--	--	--	--	--	--	
10/10/01		NM	--	--	--	--	--	--	--	--	--	
12/28/01		10.28	0.00	10.06	--	--	--	--	--	--	--	
03/08/02		9.75	0.00	10.59	--	--	--	--	--	--	--	
06/24/02		NM	--	--	--	--	--	--	--	--	--	
09/26/02		10.81	0.00	9.53	--	--	--	--	--	--	--	
12/12/02		10.89	0.00	9.45	--	--	--	--	--	--	--	
03/13/03		9.77	0.00	10.57	--	--	--	--	--	--	--	
06/12/03		NM	--	--	--	--	--	--	--	--	--	
MTCA Method A Cleanup Levels					1,000 ^a	5	40	30	20			

Continued on page 7

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
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Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW43 21.04	03/08/95	11.35	0.00	9.94	<50	650	2,400	25	<0.5	<0.5	<1.0
	06/06/95	11.45	0.00	9.84	<50	690	1,500	8.2	<0.5	<0.5	<1.0
	09/07/95	11.14	0.00	9.90	<50	<250	850	10	<0.5	<0.5	<1.0
	12/08/95	10.85	0.00	10.19	<50	960	3,100	37	<0.5	<0.5	<1.0
	04/01/96	10.98	0.00	10.06	<50	300	<750	4.5	<0.5	<0.5	<1.0
	06/25/96	11.06	0.00	9.98	<50.0	370	<750	2.57	<0.500	<0.500	<1.00
	09/27/96	11.33	0.00	9.96	<50.0	339	<750	4.4	<0.5	<0.500	<1.00
	03/28/97	11.13	0.00	9.98	<50.0	<250	<750	5.89	0.684	<0.500	2.47
	06/30/97 ^{NP}	7.08	0.00	14.21	<50.0	<250	<750	59.2	<0.500	<0.500	<1.00
	09/08/97 ^{NP}	11.46	0.00	9.83	83	<250	<750	35.5	<0.500	2.10	3.08
	12/19/97	NM	--	--	--	--	--	--	--	--	--
	03/16/98 ^{NP}	11.09	0.00	9.95	76.3	408	<750	26.5	<0.500	<0.500	<1.00
	06/26/98 ^{NP}	11.26	0.00	9.78	<50.0	346	<750	69.6	<0.500	<0.500	<1.00
	09/23/98 ^{NP}	11.75	0.00	9.29	<50.0	267	<750	9.05	<0.500	<0.500	<1.00
	12/17/98 ^{NP}	11.07	0.00	9.97	<50.0	<250	<750	33.0	<0.500	<0.500	<1.00
	03/31/99 ^{NP}	10.97	0.00	10.07	<50.0	267	<750	9.84	<0.500	0.782	2.47
	06/30/99 ^{NP}	9.97	0.00	11.07	146	253	<750	28.2	7.47	2.95	17.5
	12/08/99 ^{NP}	11.06	0.00	9.98	<50.0	<250	<750	20.5	<0.500	<0.500	<1.00
	06/20/00 ^{NP}	11.40	0.00	9.64	<50.0	<250	<750	3.79	<0.500	<0.500	<1.00
	12/19/00 ^{NP}	11.40	0.00	9.64	55.9	253	<749	2.97	0.948	0.730	4.78
	06/15/01 ^{NP}	11.32	0.00	9.72	<50.0	405	<750	0.670	<0.500	<0.500	1.22
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01 ^{NP}	11.46	0.00	9.58	<50.0	<293	<587	<0.500	<0.500	<0.500	<1.00
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	11.17	0.00	9.87	52.0	487	<500	5.61	1.18	0.556	3.34
	03/08/02	NM	--	--	--	--	--	--	--	--	--
	06/24/02	NM	--	--	--	--	--	--	--	--	--
	09/26/02 ^b	12.28	0.00	8.76	<100	303	<500	0.669	<2.00	<1.00	<1.50
	12/12/02	NM	--	--	--	--	--	--	--	--	--
	03/13/03	11.20	0.00	9.84	<50.0	<321	<641	0.883	<0.500	<0.500	<1.00
	06/12/03	NM	--	--	--	--	--	--	--	--	--
	MW44 18.73	03/08/95	9.44	0.00	10.48	<50	290	940	<0.5	<0.5	<0.5
06/06/95		8.28	0.00	10.62	<50	<250	820	<0.5	<0.5	<0.5	1.6
09/07/95		7.94	0.00	10.79	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
12/08/95		8.09	0.00	10.64	<50	520	2,500	<0.5	<0.5	<0.5	<1.0
04/01/96		7.98	0.00	10.75	<50	<250	<750	<0.5	<0.5	<0.5	<1.0
06/25/96		7.90	0.00	10.83	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
09/27/96		8.28	0.00	10.59	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
03/28/97		8.07	0.00	10.83	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
06/30/97 ^{NP}		7.84	0.00	11.06	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
09/08/97 ^{NP}		8.65	0.00	10.25	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
12/19/97 ^{NP}		8.51	0.00	10.22	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
03/16/98 ^{NP}		8.43	0.00	10.30	60.0	310	<750	<0.500	<0.500	<0.500	<1.00
06/26/98 ^{NP}		8.37	0.00	10.36	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
09/23/98 ^{NP}		9.30	0.00	9.43	<50.0	343	<750	<0.500	<0.500	<0.500	<1.00
12/17/98 ^{NP}		8.10	0.00	10.63	<50.0	271	<750	<0.500	<0.500	<0.500	<1.00
03/31/99 ^{NP}		8.18	0.00	10.55	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
06/30/99 ^{NP}		8.03	0.00	10.70	<50.0	393	<750	<0.500	0.619	<0.500	1.21
12/08/99 ^{NP}		8.52	0.00	10.21	<50.0	281	<750	<0.500	<0.500	<0.500	<1.00
06/20/00 ^{NP}		9.53	0.00	9.20	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
12/19/00 ^{NP}		9.20	0.00	9.53	301	330	<750	<0.500	1.64	2.76	22.1
06/15/01 ^{NP}		8.44	0.00	10.29	<50.0	468	<841	<0.500	<0.500	<0.500	<1.00
06/26/01		NM	--	--	--	--	--	--	--	--	--
09/07/01 ^{NP}		9.48	0.00	9.25	10,300	4,250	849	1,060	6.97	945	51.0
10/10/01		NM	--	--	--	--	--	--	--	--	--
12/28/01		9.31	0.00	9.42	90.6	823	<500	10.9	1.40	0.644	4.04
03/08/02		NM	--	--	--	--	--	--	--	--	--
06/24/02		NM	--	--	--	--	--	--	--	--	--
09/26/02 ^b		10.79	0.00	7.94	<100	1,600	569	14.2	<2.00	<1.00	<1.50
12/12/02		NM	--	--	--	--	--	--	--	--	--
03/13/03		11.58	0.00	7.15	196	347	<575	26.8	<0.500	<0.500	<1.00
06/12/03		NM	--	--	--	--	--	--	--	--	--
MTCA Method A Cleanup Levels						1,000 ^a	5	40	30	20	

Continued on page 8

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
Page 8 of 9

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW45 NE	09/07/01 ^{NP}	9.80	0.00	--	<50.0	375	<606	<0.500	<0.500	<0.500	<1.00
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	9.03	0.00	--	17,300	2,210	597	2,130	73.4	1,330	2,970
	03/08/02	9.12	0.00	--	15,500	2,380	686	2,090	38.4	1,190	1,650
	06/24/02	9.00	0.00	--	5,100	1,920	761	1,330	6.39	451	235
	09/25/02 ^b	10.20	0.00	--	2,420	1,190	547	394	3.41	204	106
	12/12/02	Obstructed by vehicle	--	--	--	--	--	--	--	--	--
	03/13/03	8.05	0.00	--	3,590	2,050	<500	219	133	99.4	368
	06/12/03	9.16	0.00	--	10,700	1,470	<575	1,350	10.8	954	631
	MW46 16.91	03/08/95	8.00	0.00	8.91	<50	720	3,600	<0.5	<0.5	<0.5
06/06/95		7.30	0.00	10.01	<50	<250	1,400	<0.5	<0.5	<0.5	<1.0
09/07/95		7.80	0.00	8.93	<50	710	5,600	<0.5	<0.5	<0.5	<1.0
12/08/95		8.32	0.00	8.59	<50	1,400	14,000	<0.5	<0.5	<0.5	<1.0
04/01/96		7.04	0.00	9.87	<50	<400	2,800	<0.5	<0.5	<0.5	<1.0
06/25/96		7.85	0.00	9.06	<50.0	440	2,080	<0.500	<0.500	<0.500	<1.00
09/27/96		7.57	0.00	9.74	<50.0	267	<750	0.518	<0.500	<0.500	<1.00
03/28/97		7.25	0.00	10.06	<50.0	<250	<750	<0.500	1.25	<0.500	2.06
06/30/97		7.12	0.00	10.19	--	--	--	--	--	--	--
09/08/97		8.82	0.00	8.49	--	--	--	--	--	--	--
12/19/97 ^{NP}		9.40	0.00	7.51	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
03/16/98		NM	--	--	--	--	--	--	--	--	--
06/26/98		NM	--	--	--	--	--	--	--	--	--
09/23/98		NM	--	--	--	--	--	--	--	--	--
12/17/98 ^{NP}		9.20	0.00	7.71	<50.0	354	<750	<0.500	<0.500	<0.500	<1.00
03/31/99		NM	--	--	--	--	--	--	--	--	--
06/30/99		NM	--	--	--	--	--	--	--	--	--
12/08/99		NM	--	--	--	--	--	--	--	--	--
06/20/00		NM	--	--	--	--	--	--	--	--	--
12/19/00*		12.70	0.00	4.21	226	277	<750	<0.500	2.18	2.53	18.0
06/15/01 ^{NP}		7.19	0.00	9.72	<50.0	295	<750	<0.500	<0.500	<0.500	1.39
06/26/01		NM	--	--	--	--	--	--	--	--	--
09/07/01		NM	--	--	--	--	--	--	--	--	--
10/10/01		NM	--	--	--	--	--	--	--	--	--
12/28/01		Covered by asphalt	--	--	--	--	--	--	--	--	--
03/08/02		NM	--	--	--	--	--	--	--	--	--
06/24/02		NM	--	--	--	--	--	--	--	--	--
09/26/02		Unable to locate	--	--	--	--	--	--	--	--	--
12/12/02		NM	--	--	--	--	--	--	--	--	--
03/13/03		Covered by asphalt	--	--	--	--	--	--	--	--	--
06/12/03	NM	--	--	--	--	--	--	--	--	--	
MW47 19.83	03/08/95	10.88	0.00	9.16	<50	330	1,600	6.3	<0.5	<0.5	<1.0
	06/06/95	10.91	0.00	9.13	70	380	780	15	0.59	<0.5	2.3
	09/07/95	10.76	0.00	9.07	<50	260	<750	1.7	<0.5	<0.5	<1.0
	12/08/95	10.40	0.00	9.43	740	680	2,000	<0.5	<0.5	<0.5	<1.0
	04/01/96	10.67	0.00	9.16	<50	<250	<750	4.4	<0.5	<0.5	<1.0
	06/25/96	10.71	0.00	9.12	110	400	<750	14.4	<0.500	<0.500	<1.00
	09/27/96	10.85	0.00	9.19	<50.0	<250	<750	4.34	<0.500	<0.500	<1.00
	03/28/97 ^{NP}	10.92	0.00	9.12	64.5	<250	<750	7.61	<0.500	<0.500	1.57
	03/28/97	10.92	0.00	9.12	177	<250	<750	62.6	<0.500	<0.500	<1.00
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97	--	--	--	--	--	--	--	--	--	--
	03/16/98	--	--	--	--	--	--	--	--	--	--
	06/26/98 ^{NP}	10.78	0.00	9.05	<50.0	356	<750	27.3	<0.500	<0.500	<1.00
	09/23/98	--	--	--	--	--	--	--	--	--	--
	12/17/98 ^{NP}	10.61	0.00	9.22	<50.0	<250	<750	3.34	<0.500	<0.500	1.12
	03/31/99	9.65	0.00	10.18	--	--	--	--	--	--	--
	06/30/99	--	0.00	--	--	--	--	--	--	--	--
	12/08/99	--	--	--	--	--	--	--	--	--	--
	06/20/00 ^{NP}	10.94	0.00	8.89	<50.0	<250	<750	<1.30	<0.500	<0.500	<1.00
	12/19/00 ^{NP}	11.20	0.00	8.63	1,310	367	<750	<0.500	6.10	10.6	77.3
	06/15/01	10.98	0.00	8.85	<50.0	591	<952	0.709	0.504	<0.500	1.18
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01 ^{NP}	11.14	0.00	8.69	<50.0	356	<500	<0.500	<0.500	<0.500	<1.00
	10/10/01	NM	--	--	--	--	--	--	--	--	--
	12/28/01	10.90	0.00	8.93	181	542	<500	7.64	1.49	4.79	37.8
	03/08/02	NM	--	--	--	--	--	--	--	--	--
	06/24/02	NM	--	--	--	--	--	--	--	--	--
	09/26/02 ^b	11.85	0.00	7.98	106	747	<500	2.36	<2.00	<1.00	<1.50
	12/12/02	NM	--	--	--	--	--	--	--	--	--
03/13/03	10.91	0.00	8.92	75.5	<284	<588	<0.500	<0.500	<0.500	<1.00	
06/12/03	NM	--	--	--	--	--	--	--	--	--	
MTCA Method A Cleanup Levels						1,000 ^a		5	40	30	20

Continued on page 9

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
Page 9 of 9

Well Name	Sample Date	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X
MW50	10/10/01	11.11	0.00	--	8,970	2,200	<606	674	221	382	779
NE	12/28/01	10.45	0.00	--	23,200	3,460	<500	1,630	3,690	991	4,480
	06/24/02	10.84	0.00	--	8,290	1,970	556	414	22.9	314	2,010
	09/26/02										
	12/12/02										
	03/13/03	9.93	0.00	--	12,200	1,810	<588	733	127	523	1,100
	06/12/03	11.27	0.00	--	6,450	1,740	<500	448	13.7	299	286
MW51	10/10/01	11.68	0.00	--	671	11,700	2,150	10.1	10.4	7.75	16.6
NE	12/28/01	11.20	0.00	--	631	2,170	3,100	37.0	75.6	30.4	81.2
	03/08/02	11.38	0.00	--	102	2,350	1,610	6.22	5.89	3.84	10.4
	06/24/02	11.60	0.00	--	57.7	2,650	1,730	1.28	1.42	0.699	2.51
	09/26/02 ^a	12.18	0.00	--	<100	1,660	875	0.848	<2.00	<1.00	<1.50
	12/12/02	12.28	0.00	--	<50.0	2,050	781	<0.500	<0.500	<0.500	<1.00
	03/13/03	11.05	0.00	--	<50.0	893	<625	<0.500	<0.500	<0.500	<1.00
	06/12/03	NM	--	--	--	--	--	--	--	--	--
MW52	10/10/01	10.79	0.00	--	13,400	1,460	<582	1,160	<10.0	827	793
NE	12/28/01	10.22	0.00	--	7,900	1,690	595	634	5.87	609	479
	03/08/02	10.42	0.00	--	10,100	2,790	<602	814	6.30	602	387
	06/24/02	10.58	0.00	--	9,820	2,810	640	1,250	<25.0	757	448
	09/26/02 ^b	11.51	0.00	--	6,600	3,530	<500	843	21.7	600	284
	12/12/02	11.61	0.00	--	1,170	7,350	638	120	0.822	73.9	7.30
	03/13/03	9.59	0.00	--	4,540	1,530	<568	272	62.7	236	210
	06/12/03	NM	--	--	--	--	--	--	--	--	--
MW53	03/13/03	11.17	0.00	--	14,000	1,030	<625	398	143	601	1,170
NE	06/12/03	12.05	0.00	--	9,700	1,370	<500	553	197	431	1,270

MTCA Method A Cleanup Levels

1,000^a

5

40

30

20

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 except where noted in prior reports

LPH = Liquid-phase petroleum hydrocarbon thickness in feet

GW Elev. = Groundwater elevation relative to DTW data; corrected for LPH where applicable using a specific gravity of 0.85

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

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

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

BTEX = Aromatic compounds by EPA Method 8021B

< = Less than the stated laboratory reporting limit

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

^{NP} Not Purged

^a Total Petroleum Hydrocarbons

^b TPH-D & TPH-O did not resemble chromatogram used for quantitation.

Shaded values equal or exceed MTCA Method A Cleanup Levels.

Data collected before 12/19/97 were taken from prior consultants.

*MW46 identified as MW9 on chain of custody and official laboratory report

**SMW3 identified as SMW2 on chain of custody and official laboratory report



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27 June 2003

John Meyer
ERI
815 Industry Dr
Tukwila, WA/USA 98188
RE: TOSCO #5353

Enclosed are the results of analyses for samples received by the laboratory on 06/16/03 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager

RECEIVED
JUL 07 2003
BY: _____



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CASE NARRATIVE for B3F0357.

Client: ERI.
Project Manager: John Meyer
Project Name: TOSCO #5353
Project Number: #031020

1.0 DESCRIPTION OF CASE

Eight (8) Water samples were submitted for the analysis of

- Gas Range Hydrocarbons and BTEX compounds using NWTPH-Gx and EPA 8021B
- Diesel and Residual Range Hydrocarbons using NWTPH-Dx with Silica Gel Clean-up

2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received and logged in 16th June 2003 at a temperature of -1.4°C . The samples were received outside the recommended temperature range of 2 to 6 Degrees Celsius. All sample containers were in tact and correctly preserved.

3.0 PREPARATION AND ANALYSIS

Gas Range Hydrocarbons and BTEX compounds using NWTPH-Gx and EPA 8021B

No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

Diesel and Residual Range Hydrocarbons using NWTPH-Dx with silica gel clean-up

The 2-FBP and Octacosane surrogate recoveries for project sample MW53 were outside the method established control range. The sample was re-shot and the low surrogate recoveries were confirmed. The sample was re-extracted and reanalyzed. All surrogate recoveries were within method established control limits. Both the original and re-extracted sample results were reported since the samples were re-extracted outside the method established hold time. No additional anomalies or discrepancies were associated with this analysis other than those already qualified in the data.

"I certify that this data package is in compliance with the Contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature."

Project Manager
North Creek Analytical



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ERI 815 Industry Dr Tukwila, WA/USA 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 06/27/03 09:53
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW32a	B3F0357-01	Water	06/12/03 12:00	06/16/03 15:15
MW33	B3F0357-02	Water	06/12/03 12:00	06/16/03 15:15
MW34	B3F0357-03	Water	06/12/03 12:00	06/16/03 15:15
MW35	B3F0357-04	Water	06/12/03 12:00	06/16/03 15:15
MW37	B3F0357-05	Water	06/12/03 12:00	06/16/03 15:15
MW45	B3F0357-06	Water	06/12/03 12:00	06/16/03 15:15
MW50	B3F0357-07	Water	06/12/03 12:00	06/16/03 15:15
MW53	B3F0357-08	Water	06/12/03 12:00	06/16/03 15:15

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ERI 815 Industry Dr Tukwila, WA/USA 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 06/27/03 09:53
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**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW32a (B3F0357-01) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Gasoline Range Hydrocarbons	17400	5000	ug/l	100	3F18018	06/19/03	06/19/03	NWTPH-Gx/8021B	
Benzene	4830	50.0	"	"	"	"	"	"	
Toluene	200	50.0	"	"	"	"	"	"	
Ethylbenzene	745	50.0	"	"	"	"	"	"	
Xylenes (total)	262	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	96.9 %	62-127							
Surrogate: 4-BFB (PID)	91.2 %	72-127							
MW33 (B3F0357-02) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Gasoline Range Hydrocarbons	30900	5000	ug/l	100	3F18018	06/19/03	06/19/03	NWTPH-Gx/8021B	
Benzene	396	50.0	"	"	"	"	"	"	
Toluene	526	50.0	"	"	"	"	"	"	
Ethylbenzene	474	50.0	"	"	"	"	"	"	
Xylenes (total)	3890	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	97.9 %	62-127							
Surrogate: 4-BFB (PID)	94.0 %	72-127							
MW34 (B3F0357-03) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Gasoline Range Hydrocarbons	13000	1250	ug/l	25	3F18018	06/19/03	06/19/03	NWTPH-Gx/8021B	
Benzene	1590	12.5	"	"	"	"	"	"	
Toluene	735	12.5	"	"	"	"	"	"	
Ethylbenzene	450	12.5	"	"	"	"	"	"	
Xylenes (total)	1360	25.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	104 %	62-127							
Surrogate: 4-BFB (PID)	95.6 %	72-127							

North Creek Analytical - Bothell

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Amar Gill, Project Manager

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ERI Project: TOSCO #5353
 815 Industry Dr Project Number: 031020 Reported:
 Tukwila, WA/USA 98188 Project Manager: John Meyer 06/27/03 09:53

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW35 (B3F0357-04) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15

Gasoline Range Hydrocarbons	3930	500	ug/l	10	3F18018	06/19/03	06/19/03	NWTPH-Gx/8021B	
Benzene	338	5.00	"	"	"	"	"	"	
Toluene	21.2	5.00	"	"	"	"	"	"	
Ethylbenzene	49.9	5.00	"	"	"	"	"	"	
Xylenes (total)	222	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	101 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	94.2 %	72-127			"	"	"	"	

MW37 (B3F0357-05) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15

Gasoline Range Hydrocarbons	1450	50.0	ug/l	1	3F18018	06/19/03	06/19/03	NWTPH-Gx/8021B	
Benzene	22.9	0.500	"	"	"	"	"	"	
Toluene	43.2	0.500	"	"	"	"	"	"	
Ethylbenzene	15.8	0.500	"	"	"	"	"	"	
Xylenes (total)	85.5	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	166 %	62-127			"	"	"	"	S-04
Surrogate: 4-BFB (PID)	121 %	72-127			"	"	"	"	

MW45 (B3F0357-06) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15

Gasoline Range Hydrocarbons	10700	500	ug/l	10	3F18018	06/19/03	06/19/03	NWTPH-Gx/8021B	
Benzene	1350	12.5	"	25	"	"	06/19/03	"	
Toluene	10.8	5.00	"	10	"	"	06/19/03	"	
Ethylbenzene	954	5.00	"	"	"	"	"	"	
Xylenes (total)	631	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	125 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

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ERI
 815 Industry Dr
 Tukwila, WA/USA 98188

Project: TOSCO #5353
 Project Number: 031020
 Project Manager: John Meyer

Reported:
 06/27/03 09:53

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW50 (B3F0357-07) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Gasoline Range Hydrocarbons	6450	500	ug/l	10	3F18018	06/19/03	06/19/03	NWTPH-Gx/8021B	
Benzene	448	5.00	"	"	"	"	"	"	"
Toluene	13.7	5.00	"	"	"	"	"	"	"
Ethylbenzene	299	5.00	"	"	"	"	"	"	"
Xylenes (total)	286	10.0	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	127 %	62-127			"	"	"	"	"
Surrogate: 4-BFB (PID)	106 %	72-127			"	"	"	"	"
MW53 (B3F0357-08) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Gasoline Range Hydrocarbons	9700	2500	ug/l	50	3F18018	06/19/03	06/19/03	NWTPH-Gx/8021B	
Benzene	553	25.0	"	"	"	"	"	"	"
Toluene	197	25.0	"	"	"	"	"	"	"
Ethylbenzene	431	25.0	"	"	"	"	"	"	"
Xylenes (total)	1270	50.0	"	"	"	"	"	"	"
Surrogate: 4-BFB (FID)	94.4 %	62-127			"	"	"	"	"
Surrogate: 4-BFB (PID)	93.8 %	72-127			"	"	"	"	"

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 #5353
 Project Number: 031020
 Project Manager: John Meyer

Reported:
 06/27/03 09:53

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
MW32a (B3F0357-01) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	2.73	0.250	mg/l	1	3F18004	06/18/03	06/20/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	"
Surrogate: 2-FBP	101 %	50-150			"	"	"	"	"
Surrogate: Octacosane	83.6 %	50-150			"	"	"	"	"
MW33 (B3F0357-02) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	4.17	0.281	mg/l	1	3F18004	06/18/03	06/20/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.562	"	"	"	"	"	"	"
Surrogate: 2-FBP	101 %	50-150			"	"	"	"	"
Surrogate: Octacosane	87.8 %	50-150			"	"	"	"	"
MW34 (B3F0357-03) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	2.88	0.250	mg/l	1	3F18004	06/18/03	06/20/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	"
Surrogate: 2-FBP	106 %	50-150			"	"	"	"	"
Surrogate: Octacosane	77.0 %	50-150			"	"	"	"	"
MW35 (B3F0357-04) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	0.973	0.281	mg/l	1	3F18004	06/18/03	06/20/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.562	"	"	"	"	"	"	"
Surrogate: 2-FBP	94.7 %	50-150			"	"	"	"	"
Surrogate: Octacosane	76.7 %	50-150			"	"	"	"	"
MW37 (B3F0357-05) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	0.474	0.284	mg/l	1	3F18004	06/18/03	06/20/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.568	"	"	"	"	"	"	"
Surrogate: 2-FBP	89.8 %	50-150			"	"	"	"	"
Surrogate: Octacosane	85.7 %	50-150			"	"	"	"	"

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ERI 815 Industry Dr Tukwila, WA/USA 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 06/27/03 09:53
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**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
MW45 (B3F0357-06) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	1.47	0.287	mg/l	1	3F18004	06/18/03	06/20/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.575	"	"	"	"	"	"	
Surrogate: 2-FBP	92.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	75.0 %	50-150			"	"	"	"	
MW50 (B3F0357-07) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	1.74	0.250	mg/l	1	3F18004	06/18/03	06/20/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	96.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	82.2 %	50-150			"	"	"	"	
MW53 (B3F0357-08) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3F18004	06/18/03	06/20/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	19.1 %	50-150			"	"	"	"	X
Surrogate: Octacosane	22.2 %	50-150			"	"	"	"	X
MW53 (B3F0357-08RE1) Water Sampled: 06/12/03 12:00 Received: 06/16/03 15:15									
Diesel Range Hydrocarbons	1.37	0.250	mg/l	1	3F21007	06/21/03	06/23/03	NWTPH-Dx	D-08, Q-29
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	Q-29
Surrogate: 2-FBP	96.8 %	50-150			"	"	"	"	Q-29
Surrogate: Octacosane	75.0 %	50-150			"	"	"	"	Q-29

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Amar Gill, Project Manager

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ERI 815 Industry Dr Tukwila, WA/USA 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 06/27/03 09:53
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G 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
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Batch 3F18018: Prepared 06/19/03 Using EPA 5030B (P/T)

Blank (3F18018-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)	44.4		"	48.0		92.5	62-127			
Surrogate: 4-BFB (PID)	44.8		"	48.0		93.3	72-127			

LCS (3F18018-BS1)

Gasoline Range Hydrocarbons	447	50.0	ug/l	502		89.0	80-120			
Surrogate: 4-BFB (FID)	48.6		"	48.0		101	62-127			

LCS (3F18018-BS2)

Benzene	8.82	0.500	ug/l	10.0		88.2	80-120			
Toluene	8.80	0.500	"	10.0		88.0	80-120			
Ethylbenzene	8.92	0.500	"	9.80		91.0	80-120			
Xylenes (total)	27.0	1.00	"	30.0		90.0	80-120			
Surrogate: 4-BFB (PID)	45.1		"	48.0		94.0	72-127			

LCS Dup (3F18018-BSD1)

Gasoline Range Hydrocarbons	445	50.0	ug/l	502		88.6	80-120	0.448	25	
Surrogate: 4-BFB (FID)	47.3		"	48.0		98.5	62-127			

LCS Dup (3F18018-BSD2)

Benzene	9.19	0.500	ug/l	10.0		91.9	80-120	4.11	40	
Toluene	9.05	0.500	"	10.0		90.5	80-120	2.80	40	
Ethylbenzene	9.25	0.500	"	9.80		94.4	80-120	3.63	40	
Xylenes (total)	28.1	1.00	"	30.0		93.7	80-120	3.99	40	
Surrogate: 4-BFB (PID)	44.9		"	48.0		93.5	72-127			

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 #5353
 Project Number: 031020
 Project Manager: John Meyer

Reported:
 06/27/03 09:53

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G 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 3F18018: Prepared 06/19/03 Using EPA 5030B (P/T)										
Matrix Spike (3F18018-MS1)					Source: B3F0383-01					
Gasoline Range Hydrocarbons	494	50.0	ug/l	502	31.1	92.2	72-119			
Surrogate: 4-BFB (FID)	49.1		"	48.0		102	62-127			
Matrix Spike (3F18018-MS2)					Source: B3F0383-01					
Benzene	10.6	0.500	ug/l	10.0	0.874	97.3	70-129			
Toluene	11.8	0.500	"	10.0	2.10	97.0	73-114			
Ethylbenzene	10.8	0.500	"	9.80	0.856	101	82-120			
Xylenes (total)	33.9	1.00	"	30.0	4.05	99.5	74-118			
Surrogate: 4-BFB (PID)	44.5		"	48.0		92.7	72-127			
Matrix Spike Dup (3F18018-MSD1)					Source: B3F0383-01					
Gasoline Range Hydrocarbons	476	50.0	ug/l	502	31.1	88.6	72-119	3.71	25	
Surrogate: 4-BFB (FID)	48.7		"	48.0		101	62-127			
Matrix Spike Dup (3F18018-MSD2)					Source: B3F0383-01					
Benzene	10.3	0.500	ug/l	10.0	0.874	94.3	70-129	2.87	40	
Toluene	11.5	0.500	"	10.0	2.10	94.0	73-114	2.58	40	
Ethylbenzene	10.5	0.500	"	9.80	0.856	98.4	82-120	2.82	40	
Xylenes (total)	32.8	1.00	"	30.0	4.05	95.8	74-118	3.30	40	
Surrogate: 4-BFB (PID)	43.1		"	48.0		89.8	72-127			

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ERI 815 Industry Dr Tukwila, WA/USA 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 06/27/03 09:53
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**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
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Batch 3F18004: Prepared 06/18/03 Using EPA 3520C

Blank (3F18004-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.260		"	0.320		81.2	50-150			
Surrogate: Octacosane	0.145		"	0.160		90.6	50-150			

LCS (3F18004-BS1)

Diesel Range Hydrocarbons	1.69	0.250	mg/l	2.00		84.5	45-105			
Surrogate: 2-FBP	0.288		"	0.320		90.0	50-150			

LCS Dup (3F18004-BSD1)

Diesel Range Hydrocarbons	1.63	0.250	mg/l	2.00		81.5	45-105	3.61	50	
Surrogate: 2-FBP	0.263		"	0.320		82.2	50-150			

Batch 3F21007: Prepared 06/21/03 Using EPA 3520C

Blank (3F21007-BLK1)

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.274		"	0.320		85.6	50-150			
Surrogate: Octacosane	0.155		"	0.160		96.9	50-150			

LCS (3F21007-BS1)

Diesel Range Hydrocarbons	1.56	0.250	mg/l	2.00		78.0	45-105			
Surrogate: 2-FBP	0.249		"	0.320		77.8	50-150			

LCS Dup (3F21007-BSD1)

Diesel Range Hydrocarbons	1.81	0.250	mg/l	2.00		90.5	45-105	14.8	50	
Surrogate: 2-FBP	0.304		"	0.320		95.0	50-150			

North Creek Analytical - Bothell

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ERI 815 Industry Dr Tukwila, WA/USA 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 06/27/03 09:53
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Notes and Definitions

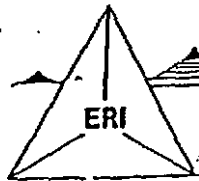
- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Q-29 This sample was prepared outside of the method established holding time.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- X See case narrative.
- 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

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Environmental Laboratory Network



GROUNDWATER SAMPLING - FIELD LOG

Client Name: S353
 Location: Westlake 3 Avenue
 Field Crew: Chamberlain / Amundson

ERI Job No. 031020
 Field Cleaning Performed:

Date: 6/12/03

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* - Case Volume = $(d_{\text{case}} - d_{\text{casing}}) \times L \times F$ 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

N.S.T. = No Sample Taken

Well No.	Time	Depth Water (ft.)	Depth Well (ft.)	Case Dia. (in)	Case Vol. gal	Purge Vol. (gal)	Conduct. AS/CH (X1000)	Temp. Deg F	pH	TURB. NTU	PID PPH	Comments
MW34		11.92	2138	2	1.5	4.5						
MW33		11.65	2457	2	EFAT Purge	140 gallons						Shoring
MW34		12.04	2140	2	1.5	4.5						
MW35		11.91	2280	4	7	21						
MW37		11.61	2440	2	EFAT Purge	gallons						
MW43			2140	2								
MW45		9.16	1430	2	1	3						Mud Traffic Contact / N.S.T.
MW50		11.27	1726	2	1	3						Strong Smell of gasoline
MW51			15.00	2								Obstructed by Vehicle / N.S.T.
MW52			1745									Obstructed by Vehicle / N.S.T.
MW53		12.05	2000	2	1.3	3.9						