

DATE: June 25, 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) [First - 2003]:**

- Monitored 20, purged and sampled 16 groundwater monitoring wells

**WORK PROPOSED FOR NEXT QUARTER [Second - 2003]:**

- Monitor 13, purge, and sample 11 groundwater monitoring wells

**SUMMARY:**

Frequency of Sampling Events:	<u>Quarterly</u>	(Quarterly, etc.)
Approximate Depth to Groundwater:	<u>7 to 12 feet</u>	(Measured Feet)
Groundwater Gradient:	<u>Northerly and Easterly</u>	(Direction)
	<u>0.003 ft/ft</u>	(Magnitude)
Maximum TPH-G/Benzene Concentrations:	<u>25,600/6,030</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.)

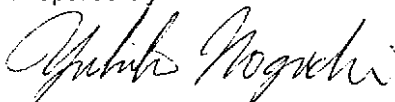
**DISCUSSION:**

- 10 of 16 wells sampled contained hydrocarbon concentrations exceeding MTCA Method A Cleanup Levels.

**ATTACHMENTS:**

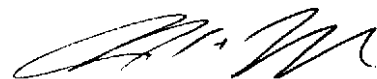
Plate 1: Groundwater Sample Analysis Map – 03/13/03  
Table 1: Groundwater Analytical Results  
Laboratory Reports and Chain of Custody Documentation  
Field Data Records

Prepared By:



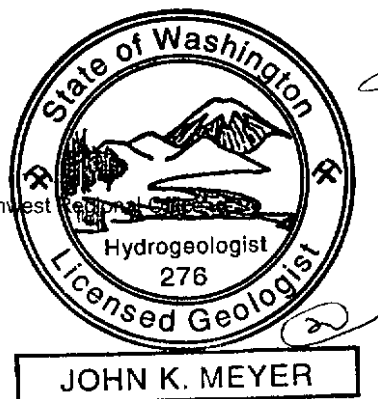
Yukiko Noguchi  
Staff Scientist

Reviewed By:

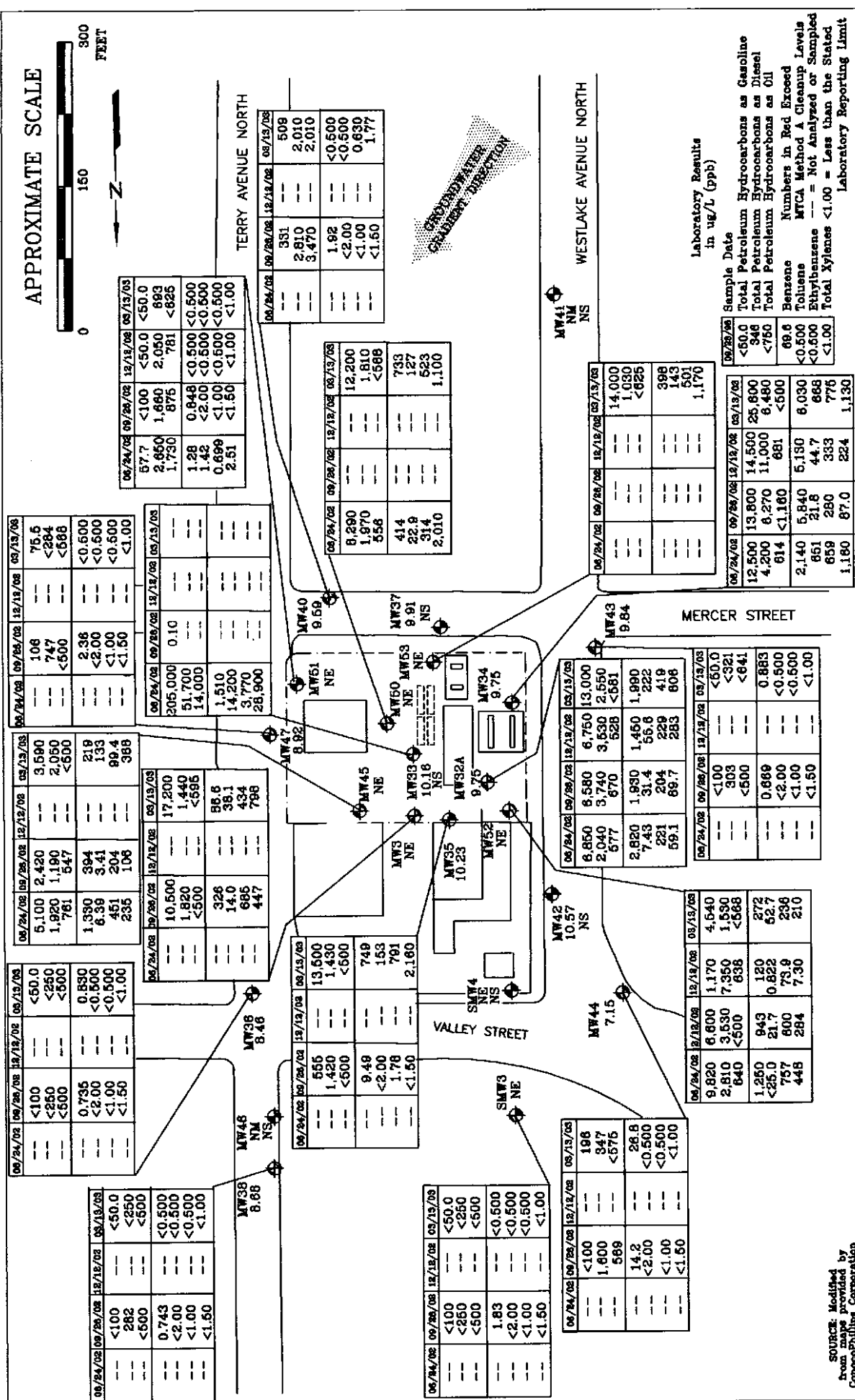
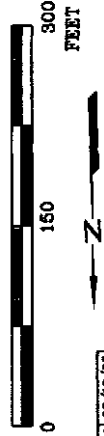


John K. Meyer, R.G.  
Branch Manager

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



APPROXIMATE SCALE



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

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

**PROJECT NO.**  
31020

**PLATE**  
1

CK: 05/13/03

**EXPLANATION**

MW37 Groundwater Monitoring Well  
9.70 Groundwater Elevation

NM Not Measured  
NE Not Established  
NS Not Sampled

**GROUNDWATER SAMPLE ANALYSIS MAP - 03/13/03**

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

SOURCE: Modified from maps provided by ConocoPhillips Corporation

FN 31020.13

**ENVIRONMENTAL RESOLUTIONS, INC.**

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

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	2,600	<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 <sup>NP</sup>	10.14	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/08/97 <sup>NP</sup>	10.85	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/97 <sup>NP</sup>	9.67	0.00	--	<50.0	521	<750	<0.500	<0.500	<0.500	<1.00
	03/16/98 <sup>NP</sup>	9.28	0.00	--	50.1	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/26/98 <sup>NP</sup>	8.87	0.00	--	<50.0	500	<750	<0.500	<0.500	<0.500	<1.00
	09/23/98 <sup>NP</sup>	9.88	0.00	--	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/17/98 <sup>NP</sup>	9.22	0.00	--	<50.0	293	<750	<0.500	<0.500	<0.500	<1.00
	03/31/99 <sup>NP</sup>	9.01	0.00	--	<50.0	360	<750	<0.500	<0.500	0.526	4.97
	06/30/99 <sup>NP</sup>	9.55	0.00	--	<50.0	639	<750	<0.500	0.609	<0.500	1.32
	12/08/99 <sup>NP</sup>	8.75	0.00	--	<50.0	<484	<1,450	<0.500	<0.500	<0.500	<1.00
	06/20/00 <sup>NP</sup>	8.89	0.00	--	<50.0	<250	<750	<0.500	0.585	<0.500	1.88
	12/19/00	NM	--	--	--	--	--	--	--	--	--
	06/15/01 <sup>NP</sup>	7.23	0.00	--	<50.0	368	<866	<0.500	<0.500	<0.500	<1.00
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01 <sup>NP</sup>	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	
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	3,600
	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	2,880	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	--	--	--	--	--	--	--	--	
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	81.2
	03/08/02	NM	--	--	--	--	--	--	--	--	--
	06/24/02	NM	--	--	--	--	--	--	--	--	--
	09/26/02 <sup>b</sup>	10.96	0.00	--	10,500	1,820	<500	326	14.0	686	447
	12/12/02	NM	--	--	--	--	--	--	--	--	--
03/13/03	7.87	0.00	--	17,200	1,440	<595	86.6	38.1	434	798	

MTCA Method A Cleanup Levels  
Continued on page 2

1,000<sup>a</sup>      5      40      30      20

TABLE 1  
GROUNDWATER ANALYTICAL RESULTS  
Tosco Site No. 5353  
600 Westlake Avenue North  
Seattle, Washington  
Page 2 of 9

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	2,600	1,800	4,200	470	730	2,000
	12/08/95	10.61	--	10.06	11,000	1,200	<750	1,800	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	1,280	<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	9.50	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 <sup>NP</sup>	10.90	0.00	9.80	7,010	1,740	<750	4,430	136	438	182
06/15/01 <sup>NP</sup>	11.31	0.00	9.39	13,700	2,810	<846	2,370	11.2	272	31.1	
06/26/01 <sup>NP</sup>	11.85	0.00	8.85	15,500	1,620	<750	8,780	1,110	1,230	1,020	
09/07/01 <sup>NP</sup>	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	3,570	180	537	393	
03/08/02	11.49	0.00	9.21	16,400	4,140	769	4,900	142	619	247	
06/24/02	11.56	0.00	9.14	6,850	2,040	577	2,820	7.43	221	59.1	
09/26/02 <sup>D</sup>	12.88	0.00	7.82	6,580	3,740	870	1,930	31.4	204	89.7	
12/12/02	12.72	0.00	7.98	6,750	3,530	528	1,450	55.6	229	283	
03/13/03	10.95	0.00	9.75	13,000	2,550	<581	1,990	222	419	806	
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	1,900	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	8.65	--	--	--	--	--	--	--
	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	5,360	32,500	3,410	22,700	
03/08/02	11.37	0.00	9.38	126,000	31,400	3,420	2,660	21,800	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	--	--	--	--	--	--	--	
MTCA Method A Cleanup Levels					1,000 <sup>a</sup>			5	40	30	20

Continued on page 3

TABLE 1  
GROUNDWATER ANALYTICAL RESULTS  
Tosco Site No. 5353  
600 Westlake Avenue North  
Seattle, Washington  
Page 3 of 9

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	250	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	560	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	580	820	1,200	
	06/25/96	11.19	0.00	10.23	13,700	1,160	<750	4,190	1,110	393	1,740	
	09/27/96	11.58	0.00	10.12	16,300	1,030	<750	5,010	2,520	541	1,310	
	03/28/97	11.47	0.00	10.23	--	--	--	--	--	--	--	--
	06/30/97 <sup>NP</sup>	11.19	0.00	10.51	2,970	311	<750	1,930	15.7	271	531	
	09/08/97 <sup>NP</sup>	11.74	0.00	9.96	8,390	455	<750	3,920	645	567	1,270	
	12/19/97	NM	--	--	--	--	--	--	--	--	--	--
	03/16/98	NM	--	--	--	--	--	--	--	--	--	--
	06/26/98 <sup>NP</sup>	11.42	0.00	10.00	76,900	3,090	<750	13,400	11,100	2,310	9,080	
	09/23/98 <sup>NP</sup>	12.23	0.00	9.19	9,040	3,000	799	3,540	243	636	1,650	
	12/17/98 <sup>NP</sup>	11.35	0.00	10.07	80,900	5,470	1,380	14,200	10,800	3,110	11,800	
	03/31/99 <sup>NP</sup>	10.85	0.00	10.57	33,400	1,910	<750	5,970	1,740	1,400	3,820	
	06/30/99 <sup>NP</sup>	10.18	0.00	11.24	28,500	4,840	984	4,340	1,320	1,480	3,610	
	12/08/99 <sup>NP</sup>	11.33	0.00	10.09	62,400	2,500	<1,360	12,900	7,440	3,240	9,210	
	06/20/00 <sup>NP</sup>	11.68	0.00	9.74	25,000	<250	<750	6,360	480	2,190	3,930	
	12/19/00	NM	--	--	--	--	--	--	--	--	--	--
	06/15/01 <sup>NP</sup>	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 <sup>NP</sup>	11.66	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	762	5,320	1,200	406	1,010	
03/08/02	11.70	0.00	9.72	69,200	8,550	661	7,200	8,510	2,190	8,200		
06/24/02	11.91	0.00	9.51	12,500	4,200	614	2,140	651	659	1,160		
09/26/02 <sup>b</sup>	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	661	5,130	44.7	333	224		
03/13/03	11.67	0.00	9.75	25,600	6,480	<500	6,030	668	776	1,130		
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	850	<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 <sup>NP</sup>	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 <sup>NP</sup>	10.19	0.00	10.08	1,900	<250	<750	348	<2.50	85	7.31	
	09/08/97 <sup>NP</sup>	10.86	0.00	9.41	4,200	<250	<750	1,460	16.2	231	68.2	
	12/19/97	NM	--	--	--	--	--	--	--	--	--	--
	03/16/98 <sup>NP</sup>	10.64	0.00	9.46	906	361	<750	410	4.24	<2.50	<5.00	
	06/26/98 <sup>NP</sup>	10.65	0.00	9.45	1,300	882	<750	600	<10.0	45.1	<20.0	
	09/23/98 <sup>NP</sup>	11.38	0.00	8.72	866	859	<750	243	<2.50	<2.50	<5.00	
	12/17/98 <sup>NP</sup>	10.49	0.00	9.61	899	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 <sup>NP</sup>	10.60	0.00	9.50	504	464	<750	11.3	27.5	5.52	28.4	
	09/04/01 <sup>NP</sup>	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 <sup>b</sup>	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	2,160		
MTCA Method A Cleanup Levels					1,000*			5	40	30	20	

Continued on page 4

TABLE 1  
GROUNDWATER ANALYTICAL RESULTS  
Tosco Site No. 5353  
600 Westlake Avenue North  
Seattle, Washington  
Page 4 of 9

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 <sup>NP</sup>	6.88	0.00	11.16	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/08/97 <sup>NP</sup>	9.21	0.00	8.83	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/97 <sup>NP</sup>	10.09	0.00	7.71	<50.0	<250	<750	0.606	<0.500	<0.500	<1.00
	03/16/98 <sup>NP</sup>	9.29	0.00	8.51	56.6	287	<750	<0.500	<0.500	<0.500	<1.00
	06/26/98 <sup>NP</sup>	8.47	0.00	9.33	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/23/98 <sup>NP</sup>	9.89	0.00	7.91	<50.0	<250	<750	0.737	<0.500	<0.500	1.13
	12/17/98 <sup>NP</sup>	10.00	0.00	7.80	<50.0	288	<750	0.533	<0.500	<0.500	<1.00
	03/31/99 <sup>NP</sup>	8.96	0.00	8.84	<50.0	321	<750	0.759	<0.500	<0.500	<1.00
	06/30/99 <sup>NP</sup>	8.44	0.00	9.36	<50.0	<250	<750	1.29	<0.500	<0.500	<1.00
	12/09/99 <sup>NP</sup>	10.05	0.00	7.75	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/20/00 <sup>NP</sup>	8.47	0.00	9.33	172	<250	<750	<0.500	0.583	1.78	11.1
	12/19/00 <sup>NP</sup>	9.50	0.00	8.30	106	<250	<750	0.529	1.51	1.08	7.14
	06/15/01 <sup>NP</sup>	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 <sup>NP</sup>	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	387	<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	
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 <sup>NP</sup>	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	6,570	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 <sup>NP</sup>	11.35	0.03	9.68	LPH Present	--	--	--	--	--	--
	06/26/01	NM	--	--	--	--	--	--	--	--	--
	09/07/01 <sup>NP</sup>	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 <sup>NP</sup>	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	--	--	--	--	--	--	--	

MTCA Method A Cleanup Levels  
Continued on page 5

1,000\* 5 40 30 20

TABLE 1  
GROUNDWATER ANALYTICAL RESULTS  
Tosco Site No. 5353  
600 Westlake Avenue North  
Seattle, Washington  
Page 5 of 9

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 <sup>b</sup>	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	
MW40 20.89	03/08/95	10.98	0.00	10.14	960	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	3,550	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 <sup>HP</sup>	11.11	0.00	9.78	325	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 <sup>HP</sup>	10.86	0.00	10.03	384	2,840	9,820	<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	
MTC Method A Cleanup Levels					1,000 <sup>a</sup>	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	--	--	--	--	--	--	--	--	--	
MW42 20.34	03/08/95	9.45	0.00	10.91	130	670	1,200	790	<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	--	--	--	--	--	--	--	

MTCA Method A Cleanup Levels 1,000<sup>a</sup> 5 40 30 20  
Continued on page 7



TABLE 1  
GROUNDWATER ANALYTICAL RESULTS  
Tosco Site No. 5353  
600 Westlake Avenue North  
Seattle, Washington  
Page 7 of 9

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	6.2	<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	0.884	<0.500	2.47
	06/30/97 <sup>NP</sup>	7.08	0.00	14.21	<50.0	<250	<750	59.2	<0.500	<0.500	<1.00
	09/08/97 <sup>NP</sup>	11.46	0.00	9.83	83	<250	<750	35.5	<0.500	2.10	3.08
	12/19/97	NM	--	--	--	--	--	--	--	--	--
	03/16/98 <sup>NP</sup>	11.09	0.00	9.95	76.3	408	<750	26.5	<0.500	<0.500	<1.00
	06/26/98 <sup>NP</sup>	11.26	0.00	9.78	<50.0	346	<750	69.6	<0.500	<0.500	<1.00
	09/23/98 <sup>NP</sup>	11.75	0.00	9.29	<50.0	267	<750	9.06	<0.500	<0.500	<1.00
	12/17/98 <sup>NP</sup>	11.07	0.00	9.97	<50.0	<250	<750	33.0	<0.500	<0.500	<1.00
	03/31/99 <sup>NP</sup>	10.97	0.00	10.07	<50.0	267	<750	9.84	<0.500	0.782	2.47
	06/30/99 <sup>NP</sup>	9.97	0.00	11.07	146	253	<750	28.2	7.47	2.95	17.5
	12/08/99 <sup>NP</sup>	11.06	0.00	9.98	<50.0	<250	<750	20.6	<0.500	<0.500	<1.00
	06/20/00 <sup>NP</sup>	11.40	0.00	9.64	<50.0	<250	<750	3.79	<0.500	<0.500	<1.00
	12/19/00 <sup>NP</sup>	11.40	0.00	9.64	55.9	253	<749	2.97	0.948	0.730	4.78
	06/15/01 <sup>NP</sup>	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 <sup>NP</sup>	11.46	0.00	9.58	<50.0	<293	<567	<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	0.558	3.34
	03/08/02	NM	--	--	--	--	--	--	--	--	--
	06/24/02	NM	--	--	--	--	--	--	--	--	--
	09/26/02 <sup>B</sup>	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
MW44 18.73	03/08/95	9.44	0.00	10.46	<50	290	940	<0.5	<0.5	<0.5	<1.0
	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 <sup>NP</sup>	7.84	0.00	11.06	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/08/97 <sup>NP</sup>	8.65	0.00	10.25	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/97 <sup>NP</sup>	8.51	0.00	10.22	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	03/16/98 <sup>NP</sup>	8.43	0.00	10.30	60.0	310	<750	<0.500	<0.500	<0.500	<1.00
	06/26/98 <sup>NP</sup>	8.37	0.00	10.36	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	09/23/98 <sup>NP</sup>	9.30	0.00	9.43	<50.0	343	<750	<0.500	<0.500	<0.500	<1.00
	12/17/98 <sup>NP</sup>	8.10	0.00	10.63	<50.0	271	<750	<0.500	<0.500	<0.500	<1.00
	03/31/99 <sup>NP</sup>	8.18	0.00	10.55	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	06/30/99 <sup>NP</sup>	8.03	0.00	10.70	<50.0	393	<750	<0.500	0.619	<0.500	1.21
	12/08/99 <sup>NP</sup>	8.52	0.00	10.21	<50.0	281	<750	<0.500	<0.500	<0.500	<1.00
	06/20/00 <sup>NP</sup>	9.53	0.00	9.20	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00
	12/19/00 <sup>NP</sup>	9.20	0.00	9.53	301	330	<750	<0.500	1.64	2.76	22.1
	06/15/01 <sup>NP</sup>	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 <sup>NP</sup>	9.48	0.00	9.25	10,300	4,250	849	1,050	6.97	9.45	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 <sup>B</sup>	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	26.6	<0.500	<0.500	<1.00	
MTCA Method A Cleanup Levels						1,000 <sup>a</sup>	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 <sup>NP</sup>	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	697	2,130	73.4	1,330	2,970
	03/08/02	9.12	0.00	--	15,500	2,380	886	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
	09/26/02 <sup>b</sup>	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
MW46 16.91	03/08/95	8.00	0.00	8.91	<50	720	3,600	<0.5	<0.5	<0.5	<1.0
	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	6,600	<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	2,090	<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 <sup>NP</sup>	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 <sup>NP</sup>	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 <sup>NP</sup>	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	--	--	--	--	--	--	--	--	--
MW47 19.83	03/08/95	10.88	0.00	9.16	<50	330	1,600	5.3	<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	580	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 <sup>NP</sup>	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	52.6	<0.500	<0.500	<1.00
	06/30/97	--	--	--	--	--	--	--	--	--	--
	09/08/97	--	--	--	--	--	--	--	--	--	--
	12/19/97	--	--	--	--	--	--	--	--	--	--
	03/16/98	--	--	--	--	--	--	--	--	--	--
	06/26/98 <sup>NP</sup>	10.78	0.00	9.05	<50.0	356	<750	27.3	<0.500	<0.500	<1.00
	09/23/98	--	--	--	--	--	--	--	--	--	--
	12/17/98 <sup>NP</sup>	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 <sup>NP</sup>	10.94	0.00	8.89	<50.0	<250	<750	<1.30	<0.500	<0.500	<1.00
	12/19/00 <sup>NP</sup>	11.20	0.00	8.63	1,310	357	<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 <sup>NP</sup>	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 <sup>b</sup>	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	<568	<0.500	<0.500	<0.500	<1.00	

MTCA Method A Cleanup Levels

1,000\*

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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	3,590	991	4,480
	03/08/02		Obstructed by vehicle	--	--	--	--	--	--	--	--
	06/24/02	10.84	0.00	--	8,290	1,970	556	414	22.9	314	2,010
	09/26/02		Obstructed by vehicle	--	--	--	--	--	--	--	--
	12/12/02		Obstructed by vehicle	--	--	--	--	--	--	--	--
	03/13/03	9.93	0.00	--	12,200	1,810	<588	733	127	523	1,100
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	1,810	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 <sup>a</sup>	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	693	<625	<0.500	<0.500	<0.500	<1.00
MW52	10/10/01	10.79	0.00	--	13,400	1,460	<582	1,150	<10.0	827	793
NE	12/28/01	10.22	0.00	--	7,900	1,690	595	634	5.87	509	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	840	1,250	<25.0	757	448
	09/26/02 <sup>a</sup>	11.51	0.00	--	6,600	3,530	<500	943	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	52.7	236	210
MW53	03/13/03	11.17	0.00	--	14,000	1,030	<625	398	143	501	1,170
NE											

MTCA Method A Cleanup Levels

1,000<sup>a</sup>

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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

<sup>NP</sup> Not Purged

<sup>a</sup> Total Petroleum Hydrocarbons

<sup>b</sup> 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

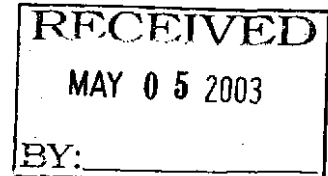
\*\*SMW3 identified as SMW2 on chain of custody and official laboratory report



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425.420.9200 fax 425.420.9210  
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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588  
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907.334.9200 fax 907.334.9210

01 May 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 03/14/03 17:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill  
Project Manager



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 815 Industry Dr  
 Tukwila WA/USA, 98188

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

Reported:  
 04/02/03 16:54

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SMW 3	B3C0380-01	Water	03/13/03 12:00	03/14/03 17:50
MW 3	B3C0380-02	Water	03/13/03 12:00	03/14/03 17:50
MW 32a	B3C0380-03	Water	03/13/03 12:00	03/14/03 17:50
MW 34	B3C0380-04	Water	03/13/03 12:00	03/14/03 17:50
MW 35	B3C0380-05	Water	03/13/03 12:00	03/14/03 17:50
MW 36	B3C0380-06	Water	03/13/03 12:00	03/14/03 17:50
MW 38	B3C0380-07	Water	03/13/03 12:00	03/14/03 17:50
MW 40	B3C0380-08	Water	03/13/03 12:00	03/14/03 17:50
MW 43	B3C0380-09	Water	03/13/03 12:00	03/14/03 17:50
MW 44	B3C0380-10	Water	03/13/03 12:00	03/14/03 17:50
MW 45	B3C0380-11	Water	03/13/03 12:00	03/14/03 17:50
MW 47	B3C0380-12	Water	03/13/03 12:00	03/14/03 17:50
MW 50	B3C0380-13	Water	03/13/03 12:00	03/14/03 17:50
MW 51	B3C0380-14	Water	03/13/03 12:00	03/14/03 17:50
MW 52	B3C0380-15	Water	03/13/03 12:00	03/14/03 17:50
MW 53	B3C0380-16	Water	03/13/03 12:00	03/14/03 17:50
MW 45	B3C0380-17	Water	03/13/03 12:00	03/14/03 17:50

North Creek Analytical - Bothell

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Page 1 of 18



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ERI Project: TOSCO #5353  
 815 Industry Dr Project Number: 031020 Reported:  
 Tukwila WA/USA, 98188 Project Manager: John Meyer 04/02/03 16:54

**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
<b>SMW 3 (B3C0380-01) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3C25021	03/25/03	03/26/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.1 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	93.1 %	62-120			"	"	"	"	
<b>MW 3 (B3C0380-02) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Gasoline Range Hydrocarbons	17200	1000	ug/l	20	3C25021	03/25/03	03/26/03	NWTPH-Gx/8021B	
Benzene	86.6	10.0	"	"	"	"	"	"	
Toluene	38.1	10.0	"	"	"	"	"	"	
Ethylbenzene	434	10.0	"	"	"	"	"	"	
Xylenes (total)	798	20.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	109 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	98.1 %	62-120			"	"	"	"	
<b>MW 32a (B3C0380-03) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Gasoline Range Hydrocarbons	13000	250	ug/l	5	3C25021	03/25/03	03/26/03	NWTPH-Gx/8021B	
Benzene	1990	12.5	"	25	"	"	03/26/03	"	
Toluene	222	2.50	"	5	"	"	03/26/03	"	
Ethylbenzene	419	2.50	"	"	"	"	"	"	
Xylenes (total)	806	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	154 %	57-125			"	"	"	"	S-04
Surrogate: 4-BFB (PID)	106 %	62-120			"	"	"	"	

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: 04/02/03 16:54
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**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
<b>MW 34 (B3C0380-04) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Gasoline Range Hydrocarbons	25600	500	ug/l	10	3C25021	03/25/03	03/26/03	NWTPH-Gx/8021B	
Benzene	6030	50.0	"	100	"	"	03/26/03	"	
Toluene	668	5.00	"	10	"	"	03/26/03	"	
Ethylbenzene	775	5.00	"	"	"	"	"	"	
Xylenes (total)	1130	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	136 %	57-125			"	"	"	"	S-04
Surrogate: 4-BFB (PID)	99.0 %	62-120			"	"	"	"	
<b>MW 35 (B3C0380-05) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Gasoline Range Hydrocarbons	13500	500	ug/l	10	3C25021	03/25/03	03/26/03	NWTPH-Gx/8021B	
Benzene	749	5.00	"	"	"	"	"	"	
Toluene	153	5.00	"	"	"	"	"	"	
Ethylbenzene	791	5.00	"	"	"	"	"	"	
Xylenes (total)	2160	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	111 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	99.8 %	62-120			"	"	"	"	
<b>MW 36 (B3C0380-06) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3C25021	03/25/03	03/26/03	NWTPH-Gx/8021B	
Benzene	0.830	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	89.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	94.6 %	62-120			"	"	"	"	

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: 04/02/03 16:54
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**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
<b>MW 38 (B3C0380-07) Water</b> <b>Sampled: 03/13/03 12:00</b> <b>Received: 03/14/03 17:50</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3C25021	03/25/03	03/26/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	94.4 %	62-120			"	"	"	"	
<b>MW 40 (B3C0380-08) Water</b> <b>Sampled: 03/13/03 12:00</b> <b>Received: 03/14/03 17:50</b>									
Gasoline Range Hydrocarbons	509	50.0	ug/l	1	3C25021	03/25/03	03/26/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	0.630	0.500	"	"	"	"	"	"	I-06
Xylenes (total)	1.77	1.00	"	"	"	"	"	"	I-06
Surrogate: 4-BFB (FID)	166 %	57-125			"	"	"	"	S-04
Surrogate: 4-BFB (PID)	123 %	62-120			"	"	"	"	S-04
<b>MW 43 (B3C0380-09) Water</b> <b>Sampled: 03/13/03 12:00</b> <b>Received: 03/14/03 17:50</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3C27004	03/27/03	03/27/03	NWTPH-Gx/8021B	
Benzene	0.883	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	95.0 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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Page 4 of 18





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ERI 815 Industry Dr Tukwila WA/USA, 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 04/02/03 16:54
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**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
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**MW 44 (B3C0380-10) Water**    **Sampled: 03/13/03 12:00**    **Received: 03/14/03 17:50**

Gasoline Range Hydrocarbons	196	50.0	ug/l	1	3C27004	03/27/03	03/27/03	NWTPH-Gx/8021B	
Benzene	26.8	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	86.9 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	93.3 %	62-120			"	"	"	"	

**MW 47 (B3C0380-12) Water**    **Sampled: 03/13/03 12:00**    **Received: 03/14/03 17:50**

Gasoline Range Hydrocarbons	75.5	50.0	ug/l	1	3C27004	03/27/03	03/27/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	89.4 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	95.2 %	62-120			"	"	"	"	

**MW 50 (B3C0380-13) Water**    **Sampled: 03/13/03 12:00**    **Received: 03/14/03 17:50**

Gasoline Range Hydrocarbons	12200	1250	ug/l	25	3C27004	03/27/03	03/27/03	NWTPH-Gx/8021B	
Benzene	733	12.5	"	"	"	"	"	"	
Toluene	127	12.5	"	"	"	"	"	"	
Ethylbenzene	523	12.5	"	"	"	"	"	"	
Xylenes (total)	1100	25.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	105 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	62-120			"	"	"	"	

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: 04/02/03 16:54
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**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
<b>MW 51 (B3C0380-14) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3C27004	03/27/03	03/27/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.1 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	94.8 %	62-120			"	"	"	"	
<b>MW 52 (B3C0380-15) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Gasoline Range Hydrocarbons	4540	500	ug/l	10	3C27004	03/27/03	03/27/03	NWTPH-Gx/8021B	
Benzene	272	5.00	"	"	"	"	"	"	
Toluene	52.7	5.00	"	"	"	"	"	"	
Ethylbenzene	236	5.00	"	"	"	"	"	"	
Xylenes (total)	210	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	103 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	98.8 %	62-120			"	"	"	"	
<b>MW 53 (B3C0380-16) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Gasoline Range Hydrocarbons	14000	250	ug/l	5	3C27004	03/27/03	03/27/03	NWTPH-Gx/8021B	
Benzene	398	2.50	"	"	"	"	"	"	
Toluene	143	2.50	"	"	"	"	"	"	
Ethylbenzene	501	5.00	"	10	"	"	03/27/03	"	
Xylenes (total)	1170	5.00	"	5	"	"	03/27/03	"	
Surrogate: 4-BFB (FID)	152 %	57-125			"	"	"	"	S-04
Surrogate: 4-BFB (PID)	110 %	62-120			"	"	"	"	

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: 04/02/03 16:54
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**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
<b>MW 45 (B3C0380-17) Water</b> <b>Sampled: 03/13/03 12:00</b> <b>Received: 03/14/03 17:50</b> <b>I-02</b>									
Gasoline Range Hydrocarbons	3590	250	ug/l	5	3D01003	04/01/03	04/02/03	NWTPH-Gx/8021B	
Benzene	219	2.50	"	"	"	"	"	"	
Toluene	133	2.50	"	"	"	"	"	"	
Ethylbenzene	99.4	2.50	"	"	"	"	"	"	
Xylenes (total)	368	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	110 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	98.1 %	62-120			"	"	"	"	

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:  
 04/02/03 16:54

**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
<b>SMW 3 (B3C0380-01) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	77.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	50.0 %	50-150			"	"	"	"	
<b>MW 3 (B3C0380-02) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Diesel Range Hydrocarbons	1.44	0.298	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.595	"	"	"	"	"	"	
Surrogate: 2-FBP	104 %	50-150			"	"	"	"	
Surrogate: Octacosane	60.5 %	50-150			"	"	"	"	
<b>MW 32a (B3C0380-03) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Diesel Range Hydrocarbons	2.55	0.291	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.581	"	"	"	"	"	"	
Surrogate: 2-FBP	89.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	72.6 %	50-150			"	"	"	"	
<b>MW 34 (B3C0380-04) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Diesel Range Hydrocarbons	6.48	1.25	mg/l	5	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	1	"	"	03/25/03	"	
Surrogate: 2-FBP	112 %	50-150			"	"	"	"	
Surrogate: Octacosane	70.6 %	50-150			"	"	"	"	
<b>MW 35 (B3C0380-05) Water</b> Sampled: 03/13/03 12:00 Received: 03/14/03 17:50									
Diesel Range Hydrocarbons	1.43	0.250	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	91.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	57.9 %	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: 04/02/03 16:54
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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
<b>MW 36 (B3C0380-06) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	61.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	61.5 %	50-150			"	"	"	"	
<b>MW 38 (B3C0380-07) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	78.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	60.2 %	50-150			"	"	"	"	
<b>MW 40 (B3C0380-08) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	2.01	0.347	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	2.01	0.694	"	"	"	"	"	"	
Surrogate: 2-FBP	57.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	57.7 %	50-150			"	"	"	"	
<b>MW 43 (B3C0380-09) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	ND	0.321	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.641	"	"	"	"	"	"	
Surrogate: 2-FBP	72.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	55.6 %	50-150			"	"	"	"	
<b>MW 44 (B3C0380-10) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	0.347	0.287	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.575	"	"	"	"	"	"	
Surrogate: 2-FBP	73.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	64.1 %	50-150			"	"	"	"	

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ERI Project: TOSCO #5353  
 815 Industry Dr Project Number: 031020 Reported:  
 Tukwila WA/USA, 98188 Project Manager: John Meyer 04/02/03 16:54

**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
<b>MW 45 (B3C0380-11) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	2.05	0.250	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	"
Surrogate: 2-FBP	106 %	50-150			"	"	"	"	"
Surrogate: Octacosane	66.2 %	50-150			"	"	"	"	"
<b>MW 47 (B3C0380-12) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	ND	0.284	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.568	"	"	"	"	"	"	
Surrogate: 2-FBP	65.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	58.2 %	50-150			"	"	"	"	
<b>MW 50 (B3C0380-13) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	1.81	0.294	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.588	"	"	"	"	"	"	
Surrogate: 2-FBP	86.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	64.9 %	50-150			"	"	"	"	
<b>MW 51 (B3C0380-14) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	0.693	0.312	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.625	"	"	"	"	"	"	
Surrogate: 2-FBP	59.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	62.0 %	50-150			"	"	"	"	
<b>MW 52 (B3C0380-15) Water Sampled: 03/13/03 12:00 Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	1.53	0.284	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.568	"	"	"	"	"	"	
Surrogate: 2-FBP	86.0 %	50-150			"	"	"	"	
Surrogate: Octacosane	50.9 %	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: 04/02/03 16:54
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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
<b>MW 53 (B3C0380-16) Water</b> <b>Sampled: 03/13/03 12:00</b> <b>Received: 03/14/03 17:50</b>									
Diesel Range Hydrocarbons	1.03	0.312	mg/l	1	3C20009	03/20/03	03/25/03	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	ND	0.625	"	"	"	"	"	"	
Surrogate: 2-FBP	72.2 %	50-150			"	"	"	"	
Surrogate: Octacosane	48.0 %	50-150			"	"	"	"	X

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ERI  
 815 Industry Dr  
 Tukwila WA/USA, 98188

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

Reported:  
 04/02/03 16:54

**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
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**Batch 3C25021: Prepared 03/25/03 Using EPA 5030B (MeOH)**

**Blank (3C25021-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)	42.6		"	48.0		88.8	57-125			
Surrogate: 4-BFB (PID)	45.4		"	48.0		94.6	62-120			

**LCS (3C25021-BS1)**

Gasoline Range Hydrocarbons	512	50.0	ug/l	502		102	80-120			
Benzene	6.26	0.500	"	6.21		101	80-120			
Toluene	34.5	0.500	"	38.1		90.6	80-120			
Ethylbenzene	8.71	0.500	"	8.94		97.4	80-120			
Xylenes (total)	42.5	1.00	"	44.0		96.6	80-120			
Surrogate: 4-BFB (FID)	46.0		"	48.0		95.8	57-125			
Surrogate: 4-BFB (PID)	44.1		"	48.0		91.9	62-120			

**LCS Dup (3C25021-BSD1)**

Gasoline Range Hydrocarbons	516	50.0	ug/l	502		103	80-120	0.778	25	
Benzene	6.11	0.500	"	6.21		98.4	80-120	2.43	40	
Toluene	34.0	0.500	"	38.1		89.2	80-120	1.46	40	
Ethylbenzene	8.60	0.500	"	8.94		96.2	80-120	1.27	40	
Xylenes (total)	41.9	1.00	"	44.0		95.2	80-120	1.42	40	
Surrogate: 4-BFB (FID)	46.7		"	48.0		97.3	57-125			
Surrogate: 4-BFB (PID)	43.8		"	48.0		91.2	62-120			

**Matrix Spike (3C25021-MS1)**

Source: B3C0380-01

Gasoline Range Hydrocarbons	517	50.0	ug/l	502	13.4	100	70-130			
Benzene	6.37	0.500	"	6.21	ND	103	80-134			
Toluene	35.4	0.500	"	38.1	0.328	92.1	68-114			
Ethylbenzene	8.94	0.500	"	8.94	0.101	98.9	72-128			
Xylenes (total)	43.5	1.00	"	44.0	0.357	98.1	67-125			
Surrogate: 4-BFB (FID)	46.6		"	48.0		97.1	57-125			
Surrogate: 4-BFB (PID)	44.1		"	48.0		91.9	62-120			

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:  
 04/02/03 16:54

**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
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**Batch 3C25021: Prepared 03/25/03 Using EPA 5030B (MeOH)**

**Matrix Spike Dup (3C25021-MSD1)**

Source: B3C0380-01

Gasoline Range Hydrocarbons	492	50.0	ug/l	502	13.4	95.3	70-130	4.96	25	
Benzene	6.33	0.500	"	6.21	ND	102	80-134	0.630	40	
Toluene	35.4	0.500	"	38.1	0.328	92.1	68-114	0.00	40	
Ethylbenzene	8.84	0.500	"	8.94	0.101	97.8	72-128	1.12	40	
Xylenes (total)	43.2	1.00	"	44.0	0.357	97.4	67-125	0.692	40	
Surrogate: 4-BFB (FID)	45.6		"	48.0		95.0	57-125			
Surrogate: 4-BFB (PID)	43.8		"	48.0		91.2	62-120			

**Batch 3C27004: Prepared 03/27/03 Using EPA 5030B (MeOH)**

**Blank (3C27004-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)	42.7		"	48.0		89.0	57-125			
Surrogate: 4-BFB (PID)	45.8		"	48.0		95.4	62-120			

**LCS (3C27004-BS1)**

Gasoline Range Hydrocarbons	520	50.0	ug/l	502		104	80-120			
Benzene	6.14	0.500	"	6.21		98.9	80-120			
Toluene	34.0	0.500	"	38.1		89.2	80-120			
Ethylbenzene	8.71	0.500	"	8.94		97.4	80-120			
Xylenes (total)	42.1	1.00	"	44.0		95.7	80-120			
Surrogate: 4-BFB (FID)	46.7		"	48.0		97.3	57-125			
Surrogate: 4-BFB (PID)	44.1		"	48.0		91.9	62-120			

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Page 13 of 18



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ERI Project: TOSCO #5353  
 815 Industry Dr Project Number: 031020 Reported:  
 Tukwila WA/USA, 98188 Project Manager: John Meyer 04/02/03 16:54

**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
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**Batch 3C27004: Prepared 03/27/03 Using EPA 5030B (MeOH)**

**LCS Dup (3C27004-BSD1)**

Gasoline Range Hydrocarbons	522	50.0	ug/l	502		104	80-120	0.384	25	
Benzene	6.22	0.500	"	6.21		100	80-120	1.29	40	
Toluene	34.4	0.500	"	38.1		90.3	80-120	1.17	40	
Ethylbenzene	8.75	0.500	"	8.94		97.9	80-120	0.458	40	
Xylenes (total)	42.4	1.00	"	44.0		96.4	80-120	0.710	40	
Surrogate: 4-BFB (FID)	46.6		"	48.0		97.1	57-125			
Surrogate: 4-BFB (PID)	44.1		"	48.0		91.9	62-120			

**Matrix Spike (3C27004-MS1)**

Source: B3C0512-07

Gasoline Range Hydrocarbons	46800	2500	ug/l	25100	22900	95.2	70-130			
Benzene	513	25.0	"	310	226	92.6	80-134			
Toluene	1690	25.0	"	1900	37.9	87.0	68-114			
Ethylbenzene	1260	25.0	"	447	860	89.5	72-128			
Xylenes (total)	6620	50.0	"	2200	4680	88.2	67-125			
Surrogate: 4-BFB (FID)	47.5		"	48.0		99.0	57-125			
Surrogate: 4-BFB (PID)	44.6		"	48.0		92.9	62-120			

**Matrix Spike Dup (3C27004-MSD1)**

Source: B3C0512-07

Gasoline Range Hydrocarbons	47900	2500	ug/l	25100	22900	99.6	70-130	2.32	25	
Benzene	495	25.0	"	310	226	86.8	80-134	3.57	40	
Toluene	1620	25.0	"	1900	37.9	83.3	68-114	4.23	40	
Ethylbenzene	1220	25.0	"	447	860	80.5	72-128	3.23	40	
Xylenes (total)	6410	50.0	"	2200	4680	78.6	67-125	3.22	40	
Surrogate: 4-BFB (FID)	49.6		"	48.0		103	57-125			
Surrogate: 4-BFB (PID)	44.9		"	48.0		93.5	62-120			

**Batch 3D01003: Prepared 04/01/03 Using EPA 5030B (MeOH)**

**Blank (3D01003-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			

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ERI 815 Industry Dr Tukwila WA/USA, 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 04/02/03 16:54
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**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
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**Batch 3D01003: Prepared 04/01/03 Using EPA 5030B (MeOH)**

**Blank (3D01003-BLK1)**

Surrogate: 4-BFB (PID)	44.4		ug/l	48.0		92.5	62-120			
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**LCS (3D01003-BS1)**

Gasoline Range Hydrocarbons	505	50.0	ug/l	502		101	80-120			
Benzene	5.84	0.500	"	6.21		94.0	80-120			
Toluene	33.1	0.500	"	38.1		86.9	80-120			
Ethylbenzene	8.50	0.500	"	8.94		95.1	80-120			
Xylenes (total)	41.1	1.00	"	44.0		93.4	80-120			

Surrogate: 4-BFB (FID)	47.1		"	48.0		98.1	57-125			
Surrogate: 4-BFB (PID)	43.2		"	48.0		90.0	62-120			

**LCS Dup (3D01003-BSD1)**

Gasoline Range Hydrocarbons	503	50.0	ug/l	502	13.0	100	80-120	0.397	25	
Benzene	5.91	0.500	"	6.21	0.179	95.2	80-120	1.19	40	
Toluene	33.9	0.500	"	38.1	0.221	89.0	80-120	2.39	40	
Ethylbenzene	8.72	0.500	"	8.94	0.126	97.5	80-120	2.56	40	
Xylenes (total)	42.5	1.00	"	44.0	0.325	96.6	80-120	3.35	40	

Surrogate: 4-BFB (FID)	45.5		"	48.0		94.8	57-125			
Surrogate: 4-BFB (PID)	43.2		"	48.0		90.0	62-120			

**Matrix Spike (3D01003-MS1)**

Source: B3C0661-05

Gasoline Range Hydrocarbons	475	50.0	ug/l	502	13.0	92.0	70-130			
Benzene	5.86	0.500	"	6.21	0.179	91.5	80-134			
Toluene	33.4	0.500	"	38.1	0.221	87.1	68-114			
Ethylbenzene	8.37	0.500	"	8.94	0.126	92.2	72-128			
Xylenes (total)	40.8	1.00	"	44.0	0.325	92.0	67-125			

Surrogate: 4-BFB (FID)	46.7		"	48.0		97.3	57-125			
Surrogate: 4-BFB (PID)	42.8		"	48.0		89.2	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 #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 04/02/03 16:54
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**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
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**Batch 3D01003: Prepared 04/01/03 Using EPA 5030B (MeOH)**

**Matrix Spike Dup (3D01003-MSD1)**

**Source: B3C0661-05**

Gasoline Range Hydrocarbons	476	50.0	ug/l	502	13.0	92.2	70-130	0.210	25	
Benzene	5.86	0.500	"	6.21	0.179	91.5	80-134	0.00	40	
Toluene	33.3	0.500	"	38.1	0.221	86.8	68-114	0.300	40	
Ethylbenzene	8.36	0.500	"	8.94	0.126	92.1	72-128	0.120	40	
Xylenes (total)	40.7	1.00	"	44.0	0.325	91.8	67-125	0.245	40	
Surrogate: 4-BFB (FID)	47.0		"	48.0		97.9	57-125			
Surrogate: 4-BFB (PID)	42.9		"	48.0		89.4	62-120			

North Creek Analytical - Bothell

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Page 16 of 18



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ERI 815 Industry Dr Tukwila WA/USA, 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	<b>Reported:</b> 04/02/03 16:54
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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 3C20009: Prepared 03/20/03 Using EPA 3520C**

**Blank (3C20009-BLK1)**

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.226		"	0.320		70.6	50-150			
Surrogate: Octacosane	0.121		"	0.160		75.6	50-150			

**LCS (3C20009-BS1)**

Diesel Range Hydrocarbons	1.95	0.250	mg/l	2.00		97.5	45-105			
Surrogate: 2-FBP	0.280		"	0.320		87.5	50-150			

**LCS Dup (3C20009-BSD1)**

Diesel Range Hydrocarbons	1.83	0.250	mg/l	2.00		91.5	45-105	6.35	50	
Surrogate: 2-FBP	0.254		"	0.320		79.4	50-150			

North Creek Analytical - Bothell

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Page 17 of 18



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ERI 815 Industry Dr Tukwila WA/USA, 98188	Project: TOSCO #5353 Project Number: 031020 Project Manager: John Meyer	Reported: 04/02/03 16:54
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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.
- I-02 This sample was analyzed outside of the recommended holding time.
- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- 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

North Creek Analytical - Bothell

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# TOSCO CHAIN OF CUSTODY REPORT B3C0380

**TOSCO INFORMATION**

Facility Number: 031020  
 Site Address: 6000 Westlake Ave N,  
 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 \_\_\_\_\_

**CONSULTANT INFORMATION**

Firm: ERI Project# 5353  
 Address: 815 Industry Drive  
Tukwila, WA 98188

Phone: 206 575-6220 Fax: 206 575-6423  
 Project Manager: James Mathison E-mail: \_\_\_\_\_  
 Sample Collection by: Adam Bart

Quality Assurance Data Level:  
 A: Standard Summary  
 B: Standard + Chromatograms

Laboratory Turnaround Days:  
 5  3  2  1  
 10 Day - Standard

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W.S.O)	# OF CON-TAINERS
1. <u>SMW3</u>	<u>3/13/03</u>	<u>W</u>	<u>5</u>
2. <u>MW3</u>			
3. <u>MW32A</u>			
4. <u>MW34</u>			
5. <u>MW35</u>			
6. <u>MW36</u>			
7. <u>MW38</u>			
8. <u>MW40</u>			
9. <u>MW43</u>			
10. <u>MW44</u>			

TPH-HCID	TPH-Gas	BTEX	EPA 8021 Mod	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel-Ext	TPH-Diesel-Ext w/SG Cleanup	Halogen Volatiles	EPA 8021 Pesticides/PCBs or PCBs Only	GCMS Volatiles	EPA 8260 GC/MS Semi Vols	EPA 8270 PAHs	8270 SIM or 8310 Lead	Total of Dissolved TCLP or RCRA Metals (B)
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X

NCA SAMPLE NUMBER

B3C0380-01

02

03

04

05

06

07

08

09

10

Relinquished by: [Signature] Firm: ERI Date & Time: 3/13/03 1:00  
 Received by: [Signature] Firm: NCA Date & Time: 3/13/03 1:50

1. [Signature] ERI 3/13/03 1:00 NCA 3/13/03 1:50  
 2. [Signature] NCA 3/14/03 17:50 NCA 3/14/03 17:50  
 3. \_\_\_\_\_

Comments:

\_\_\_\_\_



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# TOSCO CHAIN OF CUSTODY REPORT B3C0380

CONSULTANT INFORMATION	
Firm: <b>ERT</b>	Project# <b>5353</b>
Address: <b>815 Industry Drive Tukwila WA 98188</b>	
Phone: <b>206 575-6220</b>	Fax: <b>X6423</b>
Project Manager: <b>Tom Johnson</b>	E-mail:
Sample Collection by: <b>Adam Bar</b>	

TOSCO INFORMATION	
Facility Number: <b>031020</b>	
Site Address: <b>600 Westlake AVENUE, Seattle, WA</b>	
Project/AWO Code	
Tosco Manager: <b>Tom Johnson</b>	
FACILITY TYPE: (check one)	<input type="checkbox"/> Terminal/Bulk Plant <input type="checkbox"/> Brown Bear <input checked="" type="checkbox"/> Former 76 Site <input type="checkbox"/> Other

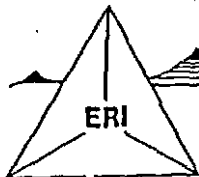
Quality Assurance Data Level:  
 A: Standard Summary  
 B: Standard + Chromatograms

Laboratory Turnaround Days:  
 5  3  2  1  
 10 Day - Standard

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O)	# OF CON-TAINERS	TOSCO CHAIN OF CUSTODY																			
				TPH-HCID	TPH-Gas	EPA 8021 Mod.	TPH-Gas + BTEX	TPH-Diesel	Extended TPH-Diesel	TPH-Diesel-Ext.	WSG Cleanup	Halogen. Volatiles	BPA 8021	Pesticides/PCBs or PCBs Only	GC/MS Volatiles	EPA 8260	GC/MS SemiVols	EPA 8270	PAH's	8270 SIM or 8310	Lead	Total or Dissolved TCLP or RCRA	Metals (8)
1. <del>SAME</del> MW45				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X		
2. MW 47				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X		
3. MW50				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X		
4. MW51				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X		
5. MW52				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X		
6. MW53				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X		
7.																							
8.																							
9.																							
10.																							

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time	Comments:
1. <i>Adam Bar</i>	ERT	3/13/03 1:00	<i>Adam Bar</i>	NCA	3/14/03 15:00	
2. <i>Adam Bar</i>	NCA	3/14/03 17:50	<i>Adam Bar</i>	NCA	3/14/03 17:50	
3.						





GROUNDWATER SAMPLING - FIELD LOG

Client Name: To So S353  
 Location: Uetake Ave  
 Field Crew: DBT/AM

ERI Job No. 1020  
 Date: 3/13/03  
 Field Cleaning Performed:  
 Analysis:

• Case Volume =  $(d_{\text{case}} - d_{\text{well}}) \times X \times F$  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

Well No.	Time	Depth Water (ft.)	Depth Well (ft.)	Case Dia. (in)	Case Vol. gal	Purge Vol. (gal)	Conduct. $\mu\text{S}/\text{CM}$ ( $\times 1000$ )	Temp. Deg F	pH	TURB. NTU	PID PPH	Comments
MW37	11:40			2								
MW40	11:30	18.40		2	1	3						EFRT Not Sampled
MW47	10:01	19.08		2	1.5	4.5						
MW36	9:34	11.30		2	.5	1.5						
MW46				2								
MW38	7:54	20.00		2	2	6						Parad. Over?
MW3	10:07	33.00		2	BS	11.5						
MW43	11:20	21.40		2	1.5	4.5						ON a hill? Another MW close by.
MW44	11:58	44.11		2	5	15						
MW52	9:59	17.45		2	7	3						
MW32a	10:05	21.38		2	1.5	4.5						
MW34	11:07	21.40		2	1.5	4.5						
MW32b	10:59	24.57		2								
MW35	9:87	22.80		4	8	24						EFRT Not Sampled
MW3	7:87	13.11		2	1	3						
MW45	8:05	14.30		2	1	3						
MW50	9:02	17.26		2	1.5	4.5						
MW51	11:05	15.00		2	BS	1.5						
MW42	9:77	26.6		2	2.5	7.5						Monitor Only
SMW4	9:55			2								Monitor Only
MW53	11:17	20.00		2	1.5	4.5						

ERI - 2008-2009-2010