

Release 411259
 TOSCO 6380
 Bellingham
 DATE: July 15, 2003

**CONOCOPHILLIPS CORPORATION
 GROUNDWATER MONITORING REPORT**

Site No.: 6380 Address: 200 South 36th Street, Bellingham, 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 4 groundwater monitoring wells

WORK PROPOSED FOR NEXT QUARTER [Third - 2003]:

- Monitor, purge, and sample 4 groundwater monitoring wells

SUMMARY:

Frequency of Sampling Events:	<u>Quarterly</u>	(Quarterly, etc.)
Approximate Depth to Groundwater:	<u>5 to 9 ft</u>	(Measured Feet)
Groundwater Gradient:	<u>Northerly and Westerly</u>	(Direction)
	<u>0.002 ft/ft</u>	(Magnitude)
Maximum TPH-G/Benzene Concentrations:	<u>400/36.9</u>	(ppb)
Measurable Free Product Detected:	<u>None</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>Unknown</u>	(Distance &
Radius and Respective Direction:	<u>Unknown</u>	Direction)
Current Remedial Action:	<u>None</u>	(SVE/AS/P&T, etc.)
Permits for Discharge:	<u>None</u>	(NPDES, POTW, etc.)

DISCUSSION:

- MW1 contained benzene and ethylbenzene concentrations exceeding MTCA Method A Cleanup Levels.
- All 4 wells sampled contained total lead concentrations exceeding the MTCA Method A Cleanup Level.

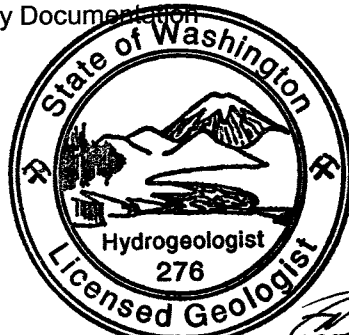
ATTACHMENTS:

- Plate 1: Groundwater Sample Analysis Map – 06/10/03
- Table 1: Groundwater Analytical Results
- Laboratory Reports and Chain of Custody Documentation
- Field Data Records

Prepared By:

Yukiko Noguchi

Yukiko Noguchi
 Staff Scientist



JOHN K. MEYER

Reviewed By:

John K. Meyer

John K. Meyer, R.G.
 Branch Manager

cc: LUST Coordinator, Washington State Department of Ecology, Northwest Regional Office
 Mr. Frank Diehl, Keith Oil Corporation
 Ms. Lisa Bona, GeoEngineers

RECEIVED
JUL 21 2003
 DEPT OF ECOI

*entered
 cm
 7-23-03*

09/20/02	12/04/02	03/05/03	06/10/03
<50.0	<50.0	<50.0	<50.0
<250	<250	<250	<284
<500	<500	<500	<568
<0.500	<0.500	<0.500	<0.500
<0.500	<0.500	<0.500	1.38
<1.00	<1.00	<1.00	<0.500
<1.00	2.89	19.8	40.1

BILL McDONALD PARKWAY

Laboratory Results
in ug/L (ppb)

06/25/08
210
383
<500
<0.500
<0.500
3.04
40.8
--

Sample Date
Total Petroleum Hydrocarbons as Gasoline
Total Petroleum Hydrocarbons as Diesel
Total Petroleum Hydrocarbons as Oil
Benzene
Toluene
Ethylbenzene
Total Xylenes
Total Lead

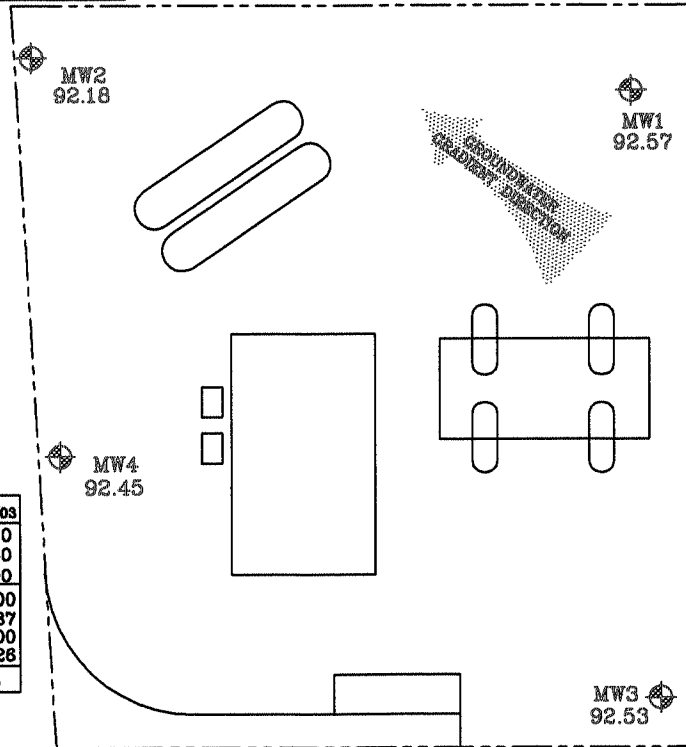
Numbers in Red Exceed
MTC A Method A Cleanup Levels
-- = Not Analyzed or Sampled

< 1.00 = Less than the Stated Laboratory Reporting Limit

09/20/02	12/04/02	03/05/03	06/10/03
197	373	188	400
1,320	511	<250	<250
<588	<568	<500	<500
1.82	108	28.3	38.9
<0.500	1.32	1.70	2.43
33.0	1.39	3.55	30.5
<1.00	5.41	5.87	6.97
<1.00	4.65	4.90	17.1

09/20/02	12/04/02	03/05/03	06/10/03
129	147	62.2	<50.0
372	371	<250	<250
<500	<500	<500	<500
<0.500	<0.500	<0.500	<0.500
<0.500	<0.500	<0.500	0.582
<0.500	<0.500	<0.500	<0.500
<1.00	<1.00	<1.00	<1.00
<1.00	4.80	12.5	8.90

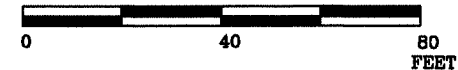
09/20/02	12/04/02	03/05/03	06/10/03
<50.0	<50.0	<50.0	<50.0
<250	<250	<284	<250
<500	<500	<568	<500
<0.500	<0.500	<0.500	<0.500
<0.500	<0.500	<0.500	0.687
<0.500	<0.500	<0.500	<0.500
<1.00	<1.00	<1.00	1.28
<1.00	<1.00	8.81	10.5



SAMISH WAY

SOUTH 36TH STREET

APPROXIMATE SCALE



SOURCE: Modified from maps provided by ConocoPhillips Corporation

FN 31065.13



GROUNDWATER SAMPLE ANALYSIS MAP - 06/10/03

TOSCO SITE NO. 6380
200 South 36th Street
Bellingham, Washington

EXPLANATION

MW3 Groundwater Monitoring Well
92.65 Groundwater Elevation

PROJECT NO.

31065

PLATE

1

ARG: 07/08/03

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Site No. 6380
200 South 36th Street
Bellingham, Washington
Page 1 of 1

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Total Pb	Diss Pb
MW1 98.49	03/11/99	4.96	93.53	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	2.41	--
	05/25/99	5.33	93.16	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--
	08/12/99	6.66	91.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--
	12/07/99	6.10	92.39	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	6.18	--
	02/10/00	6.10	92.39	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	1.75	--
	02/02/01	5.17	93.32	<50.0	588	<750	12.4	1.02	1.10	2.77	--	<1.00
	02/08/02	5.77	92.72	838	1,600	<500	128	2.15	85.4	6.55	7.70	<1.00
	09/20/02	6.27	92.22	197	1,320	<588	1.82	<0.500	33.0	<1.00	<1.00	--
	12/04/02	7.05	91.44	373	511	<568	106	1.32	1.39	5.41	4.65	--
	03/05/03	5.70	92.79	168	<250	<500	28.3	1.70	3.55	5.87	4.90	--
	06/10/03	5.92	92.57	400	<250	<500	36.9	2.43	30.5	6.97	17.1	--
MW2 100.74	03/11/99	7.93	92.81	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	162	--
	05/25/99	8.18	92.56	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--
	08/12/99	8.94	91.80	<50.0	281	<750	<0.500	<0.500	<0.500	<1.00	--	--
	12/07/99	8.04	92.70	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	17.0	--
	02/10/00	8.32	92.42	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	49.1	--
	02/02/01	6.40	94.34	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	<1.00
	02/08/02	7.77	92.97	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	40.6	<1.00
	09/20/02	9.23	91.51	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	<1.00	--
	12/04/02	9.15	91.59	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	2.89	--
	03/05/03	8.28	92.46	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	19.8	--
	06/10/03	8.56	92.18	<50.0	<284	<568	<0.500	1.36	<0.500	2.53	40.1	--
MW3 97.84	03/11/99	4.93	92.91	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	6.35	--
	05/25/99	5.19	92.65	210	383	<750	<0.500	<0.500	3.04	3.93	--	--
	08/12/99	5.70	92.14	56.3	<250	<750	<0.500	<0.500	0.732	1.84	--	--
	12/07/99	5.03	92.81	94.7	<250	<750	<0.500	0.598	<0.500	<1.00	4.40	--
	02/10/00	4.92	92.92	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	17.8	--
	02/02/01	4.76	93.08	63.0	413	<750	<0.500	<0.500	0.503	<1.00	--	<1.00
	02/08/02	4.59	93.25	91.5	410	<500	<0.500	<0.500	<0.500	<1.00	22.3	<1.00
	09/20/02	5.88	91.96	129	372	<500	<0.500	<0.500	<0.500	<1.00	<1.00	--
	12/04/02	5.26	92.58	147	371	<500	<0.500	<0.500	<0.500	<1.00	4.60	--
	03/05/03	4.70	93.14	62.2	<250	<500	<0.500	<0.500	<0.500	<1.00	12.5	--
	06/10/03	5.31	92.53	<50.0	<250	<500	<0.500	0.562	<0.500	<1.00	6.90	--
MW4 99.44	03/11/99	6.39	93.05	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	29.0	--
	05/25/99	6.62	92.82	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--
	08/12/99	7.31	92.13	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--
	12/07/99	6.37	93.07	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	10.2	--
	02/10/00	6.48	92.96	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	23.6	--
	02/02/01	6.37	93.07	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	<1.00
	02/08/02	6.03	93.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	3.30	<1.00
	09/20/02	7.37	92.07	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	<1.00	--
	12/04/02	7.03	92.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	<1.00	--
	03/05/03	6.33	93.11	<50.0	<284	<568	<0.500	<0.500	<0.500	<1.00	6.81	--
	06/10/03	6.99	92.45	<50.0	<250	<500	<0.500	0.687	<0.500	1.26	10.5	--

MTCA Method A Cleanup Levels

1,000^a

5

40

30

20

5

5

EXPLANATION:

All concentrations are in ug/L (ppb).

Wellhead elevations were taken from prior consultants reports.

DTW = Depth to water in feet below top of casing

GW Elev. = Groundwater elevation relative to top of casing elevation

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

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

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

BTEX = Aromatic compounds by EPA Method 8021B

Total Pb = Total lead by EPA Method 6020, Diss Pb = Dissolved lead by EPA Method 6020

-- = Not Analyzed or Sampled

< = Less than the stated laboratory reporting limit

Shaded values equal or exceed MTCA Method A Cleanup Levels.

^a Total Petroleum Hydrocarbons

Data collected before 05/25/99 were taken from prior consultants.



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907.563.9200 fax 907.563.9210

24 June 2003

John Meyer
ERI
815 Industry Dr
Tukwila, WA/USA 98188
RE: TOSCO #6380

Enclosed are the results of analyses for samples received by the laboratory on 06/11/03 13:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



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ERI
815 Industry Dr
Tukwila, WA/USA 98188

Project: TOSCO #6380
Project Number: #031065
Project Manager: John Meyer

Reported:
06/24/03 10:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	B3F0286-01	Water	06/10/03 12:00	06/11/03 13:30
MW2	B3F0286-02	Water	06/10/03 12:00	06/11/03 13:30
MW3	B3F0286-03	Water	06/10/03 12:00	06/11/03 13:30
MW4	B3F0286-04	Water	06/10/03 12:00	06/11/03 13:30

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 1 of 10



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Project: TOSCO #6380
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Reported:
 06/24/03 10:40

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
MW1 (B3F0286-01) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Gasoline Range Hydrocarbons	400	50.0	ug/l	1	3F17019	06/18/03	06/18/03	NWTPH-Gx/8021B	
Benzene	36.9	0.500	"	"	"	"	"	"	
Toluene	2.43	0.500	"	"	"	"	"	"	
Ethylbenzene	30.5	0.500	"	"	"	"	"	"	
Xylenes (total)	6.97	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	112 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	111 %	72-127			"	"	"	"	
MW2 (B3F0286-02) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3F17019	06/18/03	06/18/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	1.36	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	2.53	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	87.3 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	95.4 %	72-127			"	"	"	"	
MW3 (B3F0286-03) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3F17019	06/18/03	06/18/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.562	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	87.5 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	95.6 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
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ERI
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Project: TOSCO #6380
 Project Number: #031065
 Project Manager: John Meyer

Reported:
 06/24/03 10:40

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
MW4 (B3F0286-04) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3F17019	06/18/03	06/18/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.687	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.26	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	85.8 %	62-127			"	"	"	"	
Surrogate: 4-BFB (PID)	95.6 %	72-127			"	"	"	"	

North Creek Analytical - Bothell

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ERI
 815 Industry Dr
 Tukwila, WA/USA 98188

Project: TOSCO #6380
 Project Number: #031065
 Project Manager: John Meyer

Reported:
 06/24/03 10:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B3F0286-01) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3F16006	06/16/03	06/17/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	82.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	82.4 %	50-150			"	"	"	"	
MW2 (B3F0286-02) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Diesel Range Hydrocarbons	ND	0.284	mg/l	1	3F16006	06/16/03	06/18/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.568	"	"	"	"	"	"	
Surrogate: 2-FBP	103 %	50-150			"	"	"	"	
Surrogate: Octacosane	101 %	50-150			"	"	"	"	
MW3 (B3F0286-03) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3F16006	06/16/03	06/17/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	80.3 %	50-150			"	"	"	"	
Surrogate: Octacosane	94.9 %	50-150			"	"	"	"	
MW4 (B3F0286-04) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3F16006	06/16/03	06/18/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	91.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	102 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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ERI
 815 Industry Dr
 Tukwila, WA/USA 98188

Project: TOSCO #6380
 Project Number: #031065
 Project Manager: John Meyer

Reported:
 06/24/03 10:40

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B3F0286-01) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Lead	0.0171	0.00100	mg/l	1	3F18022	06/18/03	06/19/03	EPA 6020	
MW2 (B3F0286-02) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Lead	0.0401	0.00100	mg/l	1	3F18022	06/18/03	06/19/03	EPA 6020	
MW3 (B3F0286-03) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Lead	0.00690	0.00100	mg/l	1	3F18022	06/18/03	06/19/03	EPA 6020	
MW4 (B3F0286-04) Water Sampled: 06/10/03 12:00 Received: 06/11/03 13:30									
Lead	0.0105	0.00100	mg/l	1	3F18022	06/18/03	06/19/03	EPA 6020	

North Creek Analytical - Bothell

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ERI 815 Industry Dr Tukwila, WA/USA 98188	Project: TOSCO #6380 Project Number: #031065 Project Manager: John Meyer	Reported: 06/24/03 10:40
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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 3F17019: Prepared 06/18/03 Using EPA 5030B (P/T)

Blank (3F17019-BLK1)

Surrogate: 4-BFB (FID)	41.3		ug/l	48.0		86.0	62-127			
Surrogate: 4-BFB (PID)	46.3		"	48.0		96.5	72-127			
Gasoline Range Hydrocarbons	ND	50.0	"							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							

LCS (3F17019-BS1)

Surrogate: 4-BFB (FID)	46.5		ug/l	48.0		96.9	62-127			
Surrogate: 4-BFB (PID)	45.7		"	48.0		95.2	72-127			
Gasoline Range Hydrocarbons	445	50.0	"	500		89.0	80-120			
Benzene	6.11	0.500	"	6.65		91.9	80-120			
Toluene	34.1	0.500	"	37.0		92.2	80-120			
Ethylbenzene	8.81	0.500	"	8.55		103	80-120			
Xylenes (total)	41.8	1.00	"	43.0		97.2	80-120			

LCS Dup (3F17019-BSD1)

Surrogate: 4-BFB (FID)	47.2		ug/l	48.0		98.3	62-127			
Surrogate: 4-BFB (PID)	46.0		"	48.0		95.8	72-127			
Gasoline Range Hydrocarbons	443	50.0	"	500		88.6	80-120	0.450	25	
Benzene	6.06	0.500	"	6.65		91.1	80-120	0.822	40	
Toluene	33.8	0.500	"	37.0		91.4	80-120	0.884	40	
Ethylbenzene	8.71	0.500	"	8.55		102	80-120	1.14	40	
Xylenes (total)	41.3	1.00	"	43.0		96.0	80-120	1.20	40	

Matrix Spike (3F17019-MS1)

Source: B3F0286-04

Surrogate: 4-BFB (FID)	45.4		ug/l	48.0		94.6	62-127			
Surrogate: 4-BFB (PID)	46.2		"	48.0		96.2	72-127			
Gasoline Range Hydrocarbons	448	50.0	"	500	14.1	86.8	72-119			
Benzene	6.34	0.500	"	6.65	0.167	92.8	70-129			
Toluene	35.8	0.500	"	37.0	0.687	94.9	73-114			
Ethylbenzene	9.23	0.500	"	8.55	0.241	105	82-120			
Xylenes (total)	43.7	1.00	"	43.0	1.26	98.7	74-118			

North Creek Analytical - Bothell

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Page 6 of 10



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ERI
 815 Industry Dr
 Tukwila, WA/USA 98188

Project: TOSCO #6380
 Project Number: #031065
 Project Manager: John Meyer

Reported:
 06/24/03 10:40

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 3F17019: Prepared 06/18/03 Using EPA 5030B (P/T)

Matrix Spike Dup (3F17019-MSD1)

Source: B3F0296-04

Surrogate: 4-BFB (FID)	46.7		ug/l	48.0		97.3	62-127			
Surrogate: 4-BFB (PID)	46.7		"	48.0		97.3	72-127			
Gasoline Range Hydrocarbons	441	50.0	"	500	14.1	85.4	72-119	1.57	25	
Benzene	6.34	0.500	"	6.65	0.167	92.8	70-129	0.00	40	
Toluene	35.7	0.500	"	37.0	0.687	94.6	73-114	0.280	40	
Ethylbenzene	9.12	0.500	"	8.55	0.241	104	82-120	1.20	40	
Xylenes (total)	43.1	1.00	"	43.0	1.26	97.3	74-118	1.38	40	

North Creek Analytical - Bothell

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ERI
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 Tukwila, WA/USA 98188

Project: TOSCO #6380
 Project Number: #031065
 Project Manager: John Meyer

Reported:
 06/24/03 10:40

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 3F16006: Prepared 06/16/03 Using EPA 3520C

Blank (3F16006-BLK1)

Surrogate: 2-FBP	0.216		mg/l	0.320		67.5	50-150			
Surrogate: Octacosane	0.128		"	0.160		80.0	50-150			
Diesel Range Hydrocarbons	ND	0.250	"							
Lube Oil Range Hydrocarbons	ND	0.500	"							

LCS (3F16006-BS1)

Surrogate: 2-FBP	0.247		mg/l	0.320		77.2	50-150			
Diesel Range Hydrocarbons	1.60	0.250	"	2.00		80.0	45-105			

LCS Dup (3F16006-BSD1)

Surrogate: 2-FBP	0.286		mg/l	0.320		89.4	50-150			
Diesel Range Hydrocarbons	1.80	0.250	"	2.00		90.0	45-105	11.8	50	

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Project: TOSCO #6380
 Project Number: #031065
 Project Manager: John Meyer

Reported:
 06/24/03 10:40

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3F18022: Prepared 06/18/03 Using EPA 3020A										
Blank (3F18022-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (3F18022-BS1)										
Lead	0.0805	0.00100	mg/l	0.0800		101	80-120			
LCS Dup (3F18022-BSD1)										
Lead	0.0807	0.00100	mg/l	0.0800		101	80-120	0.248	20	
Matrix Spike (3F18022-MS1) Source: B3F0253-01										
Lead	0.0794	0.00100	mg/l	0.0800	ND	99.3	75-125			
Matrix Spike Dup (3F18022-MSD1) Source: B3F0253-01										
Lead	0.0790	0.00100	mg/l	0.0800	ND	98.8	75-125	0.505	20	
Post Spike (3F18022-PS1) Source: B3F0253-01										
Lead	0.0974	0.00100	mg/l	0.100	ND	97.4	75-125			

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Project: TOSCO #6380
 Project Number: #031065
 Project Manager: John Meyer

Reported:
 06/24/03 10:40

Notes and Definitions

- 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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