

TOSCO CORP. 5112 + 2303 2 - 51107
UST 8394

DATE: October 11, 1999

**TOSCO MARKETING COMPANY
GROUNDWATER MONITORING REPORT**

Site No.: 6380 Address: 200 South 36th Street, Bellingham, WA
Tosco Project Manager: Timothy D. Johnson
Consultant /Contact Person: Environmental Resolutions, Inc./John Meyer
Primary Agency/Regulatory ID No.: Washington State Department of Ecology

RECEIVED

WORK PERFORMED THIS QUARTER(S) [Third - 1999]:

- Monitored, purged, and sampled 4 groundwater monitoring wells

OCT 15 1999

WORK PROPOSED FOR NEXT QUARTER [Fourth - 1999]:

- Monitor, purge, and sample 4 monitoring wells

DEPT. OF ECOLOGY

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 Easterly</u>	(Direction)
	<u>0.002 ft/ft</u>	(Magnitude)
Maximum TPH-G/Benzene Concentrations:	<u>56.3/ND</u>	(ppb)
Measurable Free Product Detected:	<u>No</u>	(Yes - ID wells(s)/No)
Free Product Recovered This Quarter:	<u>Not Applicable</u>	(gallons)
Cumulative Free Product Recovered to Date:	<u>Not Applicable</u>	(gallons)
Bulk Soil Removed This Quarter:	<u>Unknown</u>	(cubic yards)
Water Wells or Surface Waters w/in a 2000'	<u>Unknown</u>	(Distance &
Radius and Respective Direction:	<u>Not Applicable</u>	Direction)
Current Remedial Action:	<u>None</u>	(SVE/AS/P&T etc.)
Permits for Discharge:	<u>None</u>	(NPDES, POTW, etc.)

DISCUSSION:

- Analyte concentrations were below MTCA Method A Cleanup Levels in all 4 wells

ATTACHMENTS:

- Plate P-1 - Groundwater Sample Analyses Map, 8/12/99
- Table 1 - Groundwater Analytical Results
- Laboratory Reports and Chain of Custody Records
- Field Data Records

Prepared By:

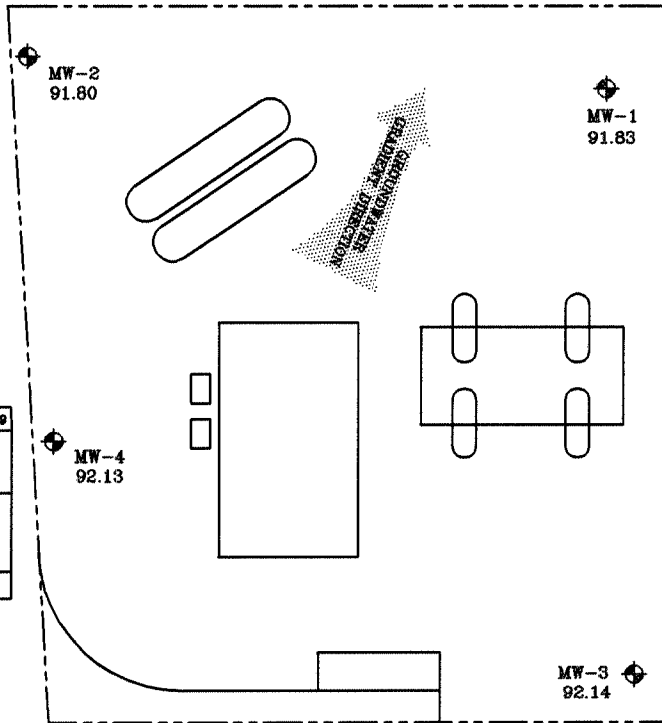
John K. Meyer, R.G.
Environmental Resolutions, Inc.

cc: Ecology NW Region

CRM
ENTERED
10/17/01

3/11/99	5/25/99	8/12/99
ND	ND	ND
ND	ND	281
ND	ND	ND
ND	ND	ND
ND	ND	ND
ND	ND	ND
162	--	--

3/11/99	5/25/99	8/12/99
ND	ND	ND
ND	ND	ND
ND	ND	ND
ND	ND	ND
ND	ND	ND
29.0	--	--

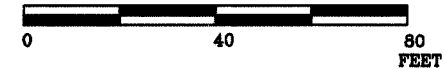


3/11/99	5/25/99	8/12/99
ND	ND	ND
ND	ND	--
ND	ND	--
ND	ND	ND
ND	ND	ND
ND	ND	ND
2.41	--	--

3/11/99	5/25/99	8/12/99
ND	210	56.3
ND	383	ND
ND	ND	ND
ND	ND	ND
ND	ND	ND
ND	3.04	0.732
ND	3.93	1.84
6.35	--	--



APPROXIMATE SCALE



Laboratory Results
in ug/L (ppb)

5/25/99	Sample Date
210	Total Petroleum Hydrocarbons as Gasoline
383	Total Petroleum Hydrocarbons as Diesel
ND	Total Petroleum Hydrocarbons as Oil
ND	Benzene
ND	Toluene
3.04	Ethylbenzene
3.93	Total Xylenes
--	Total Lead

Numbers in Red Exceed
MTCA Method A Cleanup Levels
ND = Not Detected
-- = Not Analyzed

SOURCE: Modified
from maps provided by
Tosco Marketing Company

FN 6380



GROUNDWATER SAMPLE ANALYSES MAP - 8/12/99

TOSCO FACILITY 6380
200 South 36th Street
Bellingham, Washington

EXPLANATION

- MW-3 Groundwater Monitoring Well
- 92.65 Relative Groundwater Elevation

PROJECT NO.

31065

PLATE

P-1

DATE: 10/7/99

TABLE 1
GROUNDWATER ANALYTICAL RESULTS
Tosco Facility 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
MW-1	3/11/99	4.96	93.53	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	2.41
98.49	5/25/99	5.33	93.16	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
	8/12/99	6.66	91.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--
MW-2	3/11/99	7.93	92.81	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	162
100.74	5/25/99	8.18	92.56	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
	8/12/99	8.94	91.80	<50.0	281	<750	<0.500	<0.500	<0.500	<1.00	--
MW-3	3/11/99	4.93	92.91	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	6.35
97.84	5/25/99	5.19	92.65	210	383	<750	<0.500	<0.500	3.04	3.93	--
	8/12/99	5.70	92.14	56.3	<250	<750	<0.500	<0.500	0.732	1.84	--
MW-4	3/11/99	6.39	93.05	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	29.0
99.44	5/25/99	6.62	92.82	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
	8/12/99	7.31	92.13	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--
MTCA Method A Cleanup Level				1,000 ^a			5	40	30	20	5

EXPLANATION:

All concentrations in ug/L (ppb).

Wellhead elevations 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 WTPH-G.

TPH-D and TPH-O = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, by Ecology Method WTPH-D (extended).

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

BTEX = Aromatic compounds by EPA Method 8020.

Total Pb = Total lead by EPA Method 7421.

-- = Not analyzed or no data.

< = Less than the stated laboratory reporting limit.

Shaded values equal or exceed MTCA Method A Cleanup Levels.

^a Total Petroleum Hydrocarbons

Data collected before 05/26/99 are taken from prior consultants.



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ERI 1921 Edmonds Drive SE Renton, WA 98055	Project: Tosco #6380 Project Number: #31065 Project Manager: John Meyer	Sampled: 8/12/99 Received: 8/13/99 Reported: 8/24/99 15:35
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	B908303-01	Water	8/12/99
MW-2	B908303-02	Water	8/12/99
MW-3	B908303-03	Water	8/12/99
MW-4	B908303-04	Water	8/12/99

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*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.*

Steve Davis, Project Manager

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 Environmental Laboratory Network**



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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B
 North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>B908303-01</u>			<u>Water</u>	
Gasoline Range Hydrocarbons	0890512	8/14/99	8/15/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		86.7	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		88.7	"	
				<u>B908303-02</u>			<u>Water</u>	
Gasoline Range Hydrocarbons	0890512	8/14/99	8/15/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		84.6	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		86.5	"	
				<u>B908303-03</u>			<u>Water</u>	
Gasoline Range Hydrocarbons	0890512	8/14/99	8/15/99		50.0	56.3	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	0.732	"	
Xylenes (total)	"	"	"		1.00	1.84	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		95.0	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		97.3	"	
				<u>B908303-04</u>			<u>Water</u>	
Gasoline Range Hydrocarbons	0890512	8/14/99	8/15/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	50.0-150		83.3	%	
Surrogate: 4-BFB (PID)	"	"	"	50.0-150		86.7	"	

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*Refer to end of report for text of notes and definitions.

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ERI	Project: Tosco #6380	Sampled: 8/12/99
1921 Edmonds Drive SE	Project Number: #31065	Received: 8/13/99
Renton, WA 98055	Project Manager: John Meyer	Reported: 8/24/99 15:35

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended)
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Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				B908303-02			Water	
Diesel Range Hydrocarbons	0890611	8/18/99	8/20/99		0.250	0.281	mg/l	1
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		105	%	
				B908303-03			Water	
Diesel Range Hydrocarbons	0890611	8/18/99	8/20/99		0.250	ND	mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		81.6	%	
				B908303-04			Water	
Diesel Range Hydrocarbons	0890655	8/19/99	8/23/99		0.250	ND	mg/l	
Heavy Oil Range Hydrocarbons	"	"	"		0.750	ND	"	
Surrogate: 2-FBP	"	"	"	50.0-150		72.6	%	

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ERI 1921 Edmonds Drive SE Renton, WA 98055	Project: Tosco #6380 Project Number: #31065 Project Manager: John Meyer	Sampled: 8/12/99 Received: 8/13/99 Reported: 8/24/99 15:35
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**Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8021B/Quality Control
 North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0890512			Date Prepared: 8/14/99		Extraction Method: EPA 5030B (P/T)				
Blank			0890512-BLK1						
Gasoline Range Hydrocarbons	8/15/99			ND	ug/l	50.0			
Benzene	"			ND	"	0.500			
Toluene	"			ND	"	0.500			
Ethylbenzene	"			ND	"	0.500			
Xylenes (total)	"			ND	"	1.00			
Surrogate: 4-BFB (FID)	"	48.0		36.6	"	50.0-150	76.2		
Surrogate: 4-BFB (PID)	"	48.0		39.8	"	50.0-150	82.9		
LCS			0890512-BS1						
Gasoline Range Hydrocarbons	8/18/99	500		462	ug/l	70.0-130	92.4		
Surrogate: 4-BFB (FID)	"	48.0		48.2	"	50.0-150	100		
Duplicate			0890512-DUP1 B908311-03						
Gasoline Range Hydrocarbons	8/18/99		2120	2040	ug/l			25.0	3.85
Surrogate: 4-BFB (FID)	"	48.0		66.5	"	50.0-150	139		
Matrix Spike			0890512-MS1 B908303-01						
Benzene	8/18/99	10.0	ND	9.33	ug/l	70.0-130	93.3		
Toluene	"	10.0	ND	9.25	"	70.0-130	92.5		
Ethylbenzene	"	10.0	ND	9.43	"	70.0-130	94.3		
Xylenes (total)	"	30.0	ND	28.7	"	70.0-130	95.7		
Surrogate: 4-BFB (PID)	"	48.0		44.5	"	50.0-150	92.7		
Matrix Spike Dup			0890512-MSD1 B908303-01						
Benzene	8/18/99	10.0	ND	9.58	ug/l	70.0-130	95.8	15.0	2.64
Toluene	"	10.0	ND	9.51	"	70.0-130	95.1	15.0	2.77
Ethylbenzene	"	10.0	ND	9.63	"	70.0-130	96.3	15.0	2.10
Xylenes (total)	"	30.0	ND	29.3	"	70.0-130	97.7	15.0	2.07
Surrogate: 4-BFB (PID)	"	48.0		44.1	"	50.0-150	91.9		

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**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C40) by WTPH-D (extended)/Quality Control
 North Creek Analytical - Bothell**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0890611			Date Prepared: 8/18/99			Extraction Method: EPA 3520C/600 Series				
Blank			0890611-BLK1							
Diesel Range Hydrocarbons	8/20/99			ND	mg/l	0.250				
Heavy Oil Range Hydrocarbons	"			ND	"	0.750				
Surrogate: 2-FBP	"	0.321		0.314	"	50.0-150	97.8			
LCS			0890611-BS1							
Diesel Range Hydrocarbons	8/20/99	2.00		1.76	mg/l	60.0-140	88.0			
Surrogate: 2-FBP	"	0.321		0.359	"	50.0-150	112			
Duplicate			0890611-DUP1 B908270-09							
Diesel Range Hydrocarbons	8/20/99		0.325	0.868	mg/l			44.0	91.0	2
Heavy Oil Range Hydrocarbons	"		ND	0.751	"			44.0		2
Surrogate: 2-FBP	"	0.594		0.575	"	50.0-150	96.8			
Batch: 0890655			Date Prepared: 8/19/99			Extraction Method: EPA 3510C/600 Series				
Blank			0890655-BLK1							
Diesel Range Hydrocarbons	8/23/99			ND	mg/l	0.250				
Heavy Oil Range Hydrocarbons	"			ND	"	0.750				
Surrogate: 2-FBP	"	0.321		0.184	"	50.0-150	57.3			
LCS			0890655-BS1							
Diesel Range Hydrocarbons	8/23/99	2.00		1.40	mg/l	60.0-140	70.0			
Surrogate: 2-FBP	"	0.321		0.221	"	50.0-150	68.8			
Duplicate			0890655-DUP1 B908303-04							
Diesel Range Hydrocarbons	8/23/99		ND	ND	mg/l			44.0		
Heavy Oil Range Hydrocarbons	"		ND	ND	"			44.0		
Surrogate: 2-FBP	"	0.605		0.447	"	50.0-150	73.9			
Duplicate			0890655-DUP2 B908311-04							
Diesel Range Hydrocarbons	8/23/99		ND	0.326	mg/l			44.0		2
Heavy Oil Range Hydrocarbons	"		ND	ND	"			44.0		
Surrogate: 2-FBP	"	0.605		0.536	"	50.0-150	88.6			

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Notes and Definitions

#	Note
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- 1 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- 2 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
- 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
- Recov. Recovery
- RPD Relative Percent Difference

North Creek Analytical - Bothell

Steve Davis, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



TOSCO CHAIN OF CUSTODY REPORT *B908303*

TOSCO INFORMATION	
Facility Number:	<i>6380 Bellingham</i>
Site Address:	<i>200 S. 36th St.</i>
City, State, ZIP:	<i>Bellingham WA</i>
Project/AWO Code	<i>7763802511/280/48103001 25-6382</i>
Tosco Manager:	<i>Tim Johnson</i>
FACILITY TYPE: (check one) <input type="checkbox"/> BP/ <input checked="" type="checkbox"/> Terminal/Bulk Plant	
<input type="checkbox"/> Brown Bear <input type="checkbox"/> Former 76 Site <input type="checkbox"/> Other _____	

CONSULTANT INFORMATION	
Firm:	<i>ERI</i> Project# <i>31015</i>
Address:	<i>1921 Edwards Dr SE Renton WA 98055</i>
Phone:	<i>(425) 222-0280</i> Fax: <i>+0225</i>
Project Manager:	<i>John Meyer</i> E-mail: _____
Sample Collection by:	<i>Chris Carter</i>

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

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

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W.S.O)	# OF CONTAINERS
<i>1. MW-1</i>	<i>8/12/99</i>	<i>W</i>	<i>2</i>
<i>2. MW-2</i>	<i>↓</i>	<i>↓</i>	<i>3</i>
<i>3. MW-3</i>	<i>↓</i>	<i>↓</i>	<i>3</i>
<i>4. MW-4</i>	<i>↓</i>	<i>↓</i>	<i>3</i>
5.			
6.			
7.			
8.			
9.			
10.			

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

NCA SAMPLE NUMBER

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
<i>Chris Carter</i>	<i>ERI</i>	<i>8/12/99</i>	<i>Bull K.</i>	<i>NCA</i>	<i>8/13/99 13:00</i>
<i>Bull K.</i>	<i>NCA</i>	<i>8/13/99 14:30</i>	<i>S. Widen</i>	<i>NCA</i>	<i>8/13/99 14:30</i>
3.					

Comments:

W/012.3

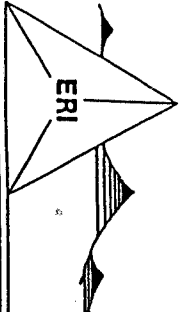
GROUNDWATER SAMPLING - FIELD LOG

Client Name: Tosco 6380
 Location: Bellingham
 Field Crew: CC

ERI Job No. 31065 Date: 8/12/99
 Field Cleaning Performed: _____
 Analysis: _____

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



ENVIRONMENTAL RESOLUTIONS, INC.

Well No.	Time	Depth Water (ft.)	Depth Well (ft.)	Case Dia. (in)	Case Vol* gal	Purge Vol. (gal)	Conduct. $\mu\text{S}/\text{CM}$ (X1000)	Temp. Deg F	pH	TURB. NTU	PID PPH	Comments
2		8.94	21	2	2	6						
4		7.31	21	2	2.5	8						
3		5.70	21	2	2.5	8						
1		6.66	24	2	3	9						
						31						Didn't Sample TPT-D out out of amber bottles
						+20						
						51						
Total gallons =						51 gallons						
		2	2	2	4	4	4					
			4									

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