

ENVIRONMENTAL RESOLUTIONS, INC.

November 21, 2001

31020.R01

RECEIVED

NOV 21 2001

ENVIRONMENTAL DEPARTMENT
NORTHWEST REGION

Mr. Timothy D. Johnson
Tosco Corporation
3977 Leary Way NW
Seattle, WA 98107

Subject: Waste Oil and Heating Oil Underground Storage Tank Removal, Soil Sampling, and Fluid Recovery, Tosco Site No. 5353, 600 Westlake Avenue North, Seattle, Washington

Dear Mr. Johnson:

In accordance with your request, Environmental Resolutions, Inc. (ERI) has prepared this report presenting results of soil assessment activities conducted following decommissioning and removal of the waste oil and heating oil underground storage tanks (USTs), and fluid recovery activities at the site referenced above. Tank decommissioning and removal activities were conducted by Cowlitz Clean Sweep, Inc.

Site Description

The site is located at the northeastern corner of the intersection of Westlake Avenue North and Mercer Street in Seattle, Washington. The site lies at an elevation of approximately 26 feet above mean sea level. Lake Union is present approximately 0.1 miles to the north. Surrounding properties are occupied by a variety of retail, commercial, and industrial businesses. The site location is shown on Plate 1.

The site is currently an active retail gasoline service station with a station building, two automotive service bays, four 12,000-gallon gasoline underground storage tanks (USTs), and two pump islands. Prior to removal, one 500-gallon waste oil UST and one 500-gallon heating oil UST were also present at the site. The heating oil and waste oil USTs were located immediately adjacent to the gasoline USTs within a single excavation, and surrounded with pea gravel. Existing facilities and locations of the former waste oil and heating oil USTs are shown on Plate 2.

UST Decommissioning and Soil Sampling

On May 22, 2001, ERI personnel visited the site to collect soil samples from the waste oil and heating oil UST excavation. Prior to arrival of ERI personnel, a gasoline product line adjacent to the USTs was reportedly ruptured by the decommissioning contractor during preparations for removal of the tanks. Based on daily inventory records, approximately 600 gallons of unleaded supreme gasoline were reportedly released to the excavation. Approximately 500 gallons of product were reportedly removed from the excavation immediately following the release using a vacuum truck already present at the site. Soil sample EX1-2.5 was subsequently collected from pea gravel immediately beneath the location of the rupture, placed into an iced cooler, and transported to the laboratory for analysis.

On May 23, 2001, ERI personnel returned to the site to collect additional soil samples from the waste oil and heating oil UST excavation following removal of the USTs. Soil samples EX2-7 and EX3-7 were collected approximately 7 feet below ground surface (bgs) immediately beneath the former UST locations. Sample EX4-3.5 was collected approximately 3.5 feet bgs from the western sidewall of the excavation.

Soil encountered consisted of pea gravel and sandy fill with some oil staining. Additional sidewall samples were not collected due to caving of the loose pea gravel and sandy fill. Soil samples were collected in laboratory-supplied glass containers, placed into an iced cooler, and transported to the laboratory for analysis. Approximately 25 tons of excavated material were subsequently transported off site for treatment and recycling. Groundwater was not encountered during excavation.

Depth to Water Measurements and Fluid Recovery

Following soil sampling, on May 22, 2001, ERI personnel measured the depth to water in monitoring well MW-33 located adjacent to the UST excavation. Depth to water measurements indicated groundwater approximately 11.27 feet below ground surface (bgs). Liquid phase hydrocarbons (LPH) were not observed.

On June 15, 2001, ERI personnel returned to the site to measure the depths to water in selected on- and off-site monitoring wells, and to collect groundwater samples for laboratory analysis. Depth to water measurements indicated groundwater approximately 7 to 14 feet bgs at the site. Approximately 2.5 feet of LPH were observed in monitoring well MW-33. Approximately 4 gallons of LPH were manually removed from MW-33 and placed into a sealed drum on site pending transport and disposal. Groundwater sample laboratory results are presented in the Tosco Marketing Company Groundwater Monitoring Report prepared by ERI, dated September 25, 2001.

On June 22, 2001, ERI personnel returned to the site to measure the LPH thickness in monitoring wells MW-32A, MW-33, and MW-35 located near the USTs and observe LPH removal using a vacuum truck operated by Marine Vacuum Service, Inc. (MarVac) of Seattle, Washington. Measurements indicated approximately 0.75 feet LPH in MW-33. No LPH was observed in MW-32A and MW-35. Approximately 1,200 gallons of fluid were subsequently removed from MW-33 using a vacuum truck and transported off site for treatment and disposal. Prior to vacuum truck removal, a sample of LPH from MW-33 was collected using a disposable bailer, placed into laboratory-supplied containers, and subsequently transported to the laboratory for analysis.

On June 26, 2001, ERI personnel returned to the site to measure the depth to water and LPH thickness in MW-32A, MW-33, and MW-35, and to collect groundwater samples from MW-32A and MW-35. Measurements indicated groundwater approximately 10 to 12 feet bgs. A trace of LPH was observed in MW-33. No LPH was observed in MW-32A and MW-35. Approximately 1,200 gallons of fluid were subsequently removed from MW-33 using a vacuum truck operated by MarVac, and transported off site for treatment and disposal. Groundwater sample laboratory results from the June 26, 2001 sampling event are presented with results from the June 15, 2001 event in the groundwater sampling report prepared by ERI, dated September 25, 2001.

On July 6, 2001, ERI personnel returned to the site to measure the depth to water and LPH thickness in MW-33. Measurements indicated groundwater approximately 11.45 feet bgs with approximately 0.25 feet LPH in MW-33. Approximately 1,500 gallons of fluid were subsequently removed from MW-33 using a vacuum truck operated by MarVac, and transported off site for treatment and disposal.

On August 3, 2001, ERI personnel returned to the site to measure the depth to water and LPH thickness in MW-33. Measurements indicated groundwater approximately 11.51 feet bgs with approximately 0.01 feet LPH in MW-33. Approximately 1,500 gallons of fluid were subsequently removed from MW-33 using a vacuum truck operated by MarVac, together with approximately 220 gallons of fluid temporarily stored on

site in sealed drums. The fluids were then transported off site for treatment and disposal.

On August 24, 2001, ERI personnel returned to the site to measure the depth to water and LPH thickness in MW-33. Measurements indicated groundwater approximately 11.84 feet bgs with approximately 1.0 foot LPH in MW-33. Approximately 2,500 gallons of fluid were subsequently removed from MW-33 using a vacuum truck operated by MarVac and transported off site for treatment and disposal.

On September 14, 2001, ERI personnel returned to the site to measure the depth to water and LPH thickness in MW-33. Measurements indicated groundwater approximately 11.87 feet bgs with approximately 0.30 foot LPH in MW-33. Approximately 1,400 gallons of fluid were subsequently removed from MW-33 using a vacuum truck operated by MarVac and transported off site for treatment and disposal.

On October 10, 2001, ERI personnel returned to the site to measure the depth to water and LPH thickness in MW-33. Measurements indicated groundwater approximately 11.87 feet bgs with approximately 0.01 foot LPH in MW-33. Approximately 1,500 gallons of fluid were subsequently removed from MW-33 using a vacuum truck operated by MarVac and transported off site for treatment and disposal.

On October 25, 2001, ERI personnel returned to the site to measure the depth to water and LPH thickness in MW-33. Measurements indicated groundwater approximately 11.85 feet bgs with a trace of LPH in MW-33. Approximately 1,300 gallons of fluid were subsequently removed from MW-33 using a vacuum truck operated by MarVac and transported off site for treatment and disposal. Fluid recovery data are summarized in Table 1.

Laboratory Analysis and Results

Soil samples collected from the waste oil and heating oil UST excavation area and the LPH sample collected from MW-33 were transported to the North Creek Analytical, Inc. laboratory (North Creek) in Bothell, Washington for analysis. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Washington State Department of Ecology (Ecology) Method WTPH-G or NWTPH-Gx and EPA Method 8021B, and for total petroleum hydrocarbons as diesel (TPH-D) and as oil (TPH-O) using Ecology Method WTPH-D (extended) or NWTPH-Dx. Selected samples were additionally analyzed for total lead using EPA Method 6020, volatile organic compounds (VOCs) using EPA Method 8260B, and polynuclear aromatic compounds (PNAs) using GC/MS with selected ion monitoring.

Laboratory results indicate that soil sample EX1-2.5 collected from pea gravel and sandy fill material beneath the location of the ruptured product piping contained 7,010 parts per million (ppm) TPH-G and 279 ppm TPH-D. Toluene, ethylbenzene, total xylenes, and total lead were also detected at concentrations up to 173 ppm, 123 ppm, 708 ppm, and 2.68 ppm, respectively, in the same sample. Laboratory results indicate that soil samples collected from beneath the former waste oil and heating oil USTs and from the excavation sidewall contained TPH-D, TPH-O, benzene, toluene, and total xylenes concentrations up to 320 ppm, 410 ppm, 0.0950 ppm, 0.0907 ppm, and 0.115 ppm, respectively. Sample EX2-7 collected from beneath the former waste oil UST contained concentrations of PNAs and total lead up to 0.835 ppm and 23.3 ppm, respectively; VOCs were not detected. Soil sample analytical results are shown on Table 2.

Laboratory results indicate that the LPH sample collected from MW-33 on June 22, 2001, contained 524,000 ppm TPH-G. Benzene, toluene, ethylbenzene, and total xylenes concentrations of 10,100 ppm, 47,000 ppm, 9,480 ppm, and 50,800 ppm, respectively, were also detected. Although TPH-D and TPH-O

concentrations were also detected in lesser concentrations, the laboratory noted that the TPH-D concentration reported was primarily due to overlap from a gasoline-range product. Analytical results are shown on Table 3. Copies of the laboratory reports and chain of custody documentation are attached.

Waste Disposal

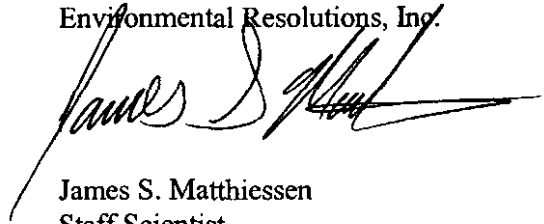
Pea gravel and sandy fill material removed from the UST excavation was transported to the TPS Technologies, Inc. facility in Tacoma, Washington for treatment and recycling. Fluids removed from MW-33 were transported to the Burlington Environmental, Inc. facility in Kent, Washington for treatment and disposal. Copies of the customer job report, bills of lading, and transportation manifests are attached.

Conclusions

Based on the laboratory results, it appears that pea gravel and sandy fill containing TPH-D and TPH-O concentrations remains present near the existing USTs. Additional excavation was halted to avoid damaging the sidewalk, station building, and gasoline USTs. Based on the locations of the USTs and groundwater monitoring wells, it appears that LPH observed in MW-33 results from a release following rupture of the product piping during heating oil and waste oil UST removal activities on May 21, 2001. As of October 25, 2001, a total of approximately 12,100 gallons of fluid have been recovered from MW-33 located near the remaining USTs.

ERI appreciates the opportunity to provide service. Please call if you have any questions.

Sincerely,
Environmental Resolutions, Inc.



James S. Matthiessen
Staff Scientist



John K. Meyer, R.G.
Branch Manager

Attachments: Plate 1 – Site Location Map
Plate 2 – Soil Sample Location Map
Table 1 – Fluid Recovery Summary
Table 2 – Soil Sample Analytical Results
Table 3 – Analytical Results

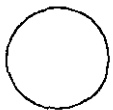
Laboratory Reports and Chain of Custody Documentation
Customer Job Report, Bills of Lading, and Hazardous Waste Manifests



3-D TopoQuads Copyright © 1999 DeLorme, Kennebunk, ME 04096 Source Data: USGS 500 ft. Scale: 1 : 19,200 Datum: WGS84

FN 310200001

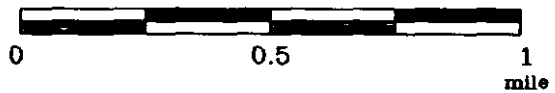
EXPLANATION



1/2-mile radius circle



APPROXIMATE SCALE



SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads



SITE LOCATION MAP

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

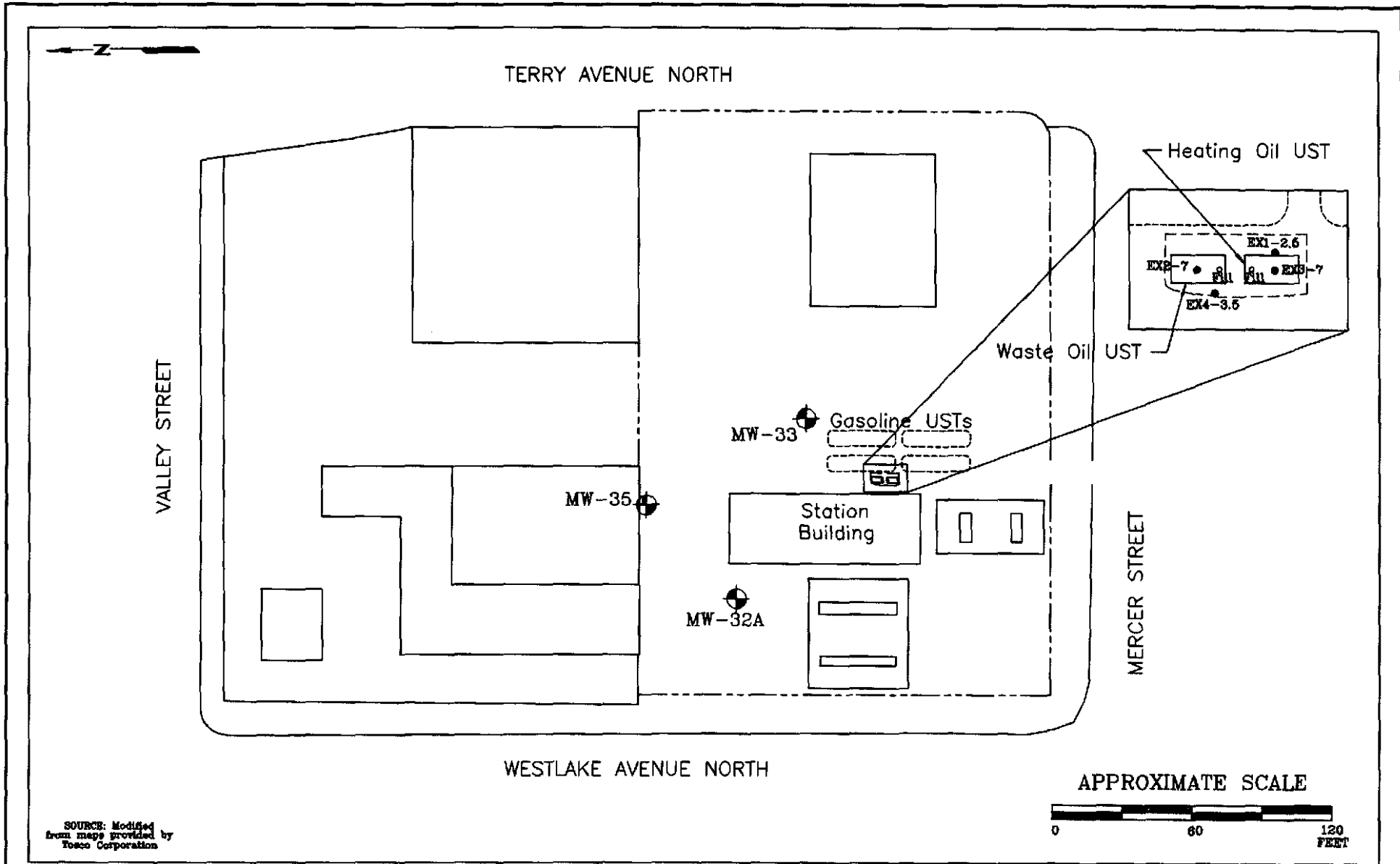
PROJECT NO.

31020

PLATE

1

BKC: 11/05/01



FN 310200002



SOIL SAMPLE LOCATION MAP

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

EXPLANATION

- ◆ MW-37 Groundwater Monitoring Well
- Limits of Excavation
- EX2-7 Soil Sample Location

PROJECT NO.

31020

PLATE

2

JM2: 08/06/01

TABLE 1
Fluid Recovery Summary
Monitoring Well MW-33
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
 Page 1 of 1

Date	DTW	LPH	Hand Bail	Vacuum Truck
			LPH Recovered	Total Fluids
05/22/01	11.27	0.00	--	--
06/15/01	12.63	2.50	4.0	--
06/22/01	NM	0.75	--	1,200
06/26/01	NM	Trace	--	1,200
07/06/01	11.45	0.25	--	1,500
08/03/01	11.51	0.01	--	1,500
08/24/01	11.84	1.00	--	2,500
09/14/01	11.87	0.30	--	1,400
10/10/01	11.87	0.01	--	1,500
10/25/01	11.85	Trace	--	1,300

EXPLANATION:

DTW = Depth to water in feet below top of casing.
 LPH = Liquid-phase hydrocarbon thickness in feet.
 LPH and total fluids volumes in gallons.
 NM = Not measured.
 -- = Not applicable.

TABLE 2
Soil Sample Analytical Results
Tosco Site No. 5353
600 Westlake Avenue North
Seattle, Washington
Page 1 of 1

Sample Name	Sample Date	Depth	Location	TPH-G	TPH-D	TPH-O	B	T	E	X	VOCs	PNAs	Total Lead
EX1-2.5	05/22/01	2.5	Beneath Product Piping	7.010	279	<125	<5.00	173	123	708	-	-	2.68
EX2-7	05/23/01	7	Beneath Waste Oil UST	<5.00	32.6	77.3	<0.0500	<0.0500	<0.0500	<0.100	ND	*Detected	23.3
EX3-7	05/23/01	7	Beneath Heating Oil UST	<5.00	320	410	0.0950	0.0907	<0.0500	<0.100	-	-	-
EX4-3.5	05/23/01	3.5	UST Excavation Sidewall	<5.00	79.2	161	<0.0500	0.0563	<0.0500	0.115	-	-	-

EXPLANATION:
 All concentrations in mg/kg (ppm).
 Depths are in feet below ground surface.
 TPH-G = Total petroleum hydrocarbons as gasoline using Ecology Method WTPH-G or NWTPH-G.
 TPH-D = Total petroleum hydrocarbons as diesel using Ecology Method WTPH-D or NWTPH-D.
 TPH-O = Total petroleum hydrocarbons as oil using Ecology Method WTPH-O or NWTPH-O.
 B = benzene; T = toluene; E = ethylbenzene; X = total xylenes.
 VOCs = Volatile organic compounds using EPA Method 8260B
 PNAs = Polynuclear aromatics compounds using GC/MS with selected ion monitoring.
 Total lead analysis using EPA Method 8020.
 < = Less than the stated laboratory method reporting limit.
 NA = Not applicable.
 ND = Not detected.
 *Detected - See official laboratory report for individual analytes

TABLE 3
 Analytical Results
 Monitoring Well MW-33
 Tosco Site No. 5353
 600 Westlake Avenue North
 Seattle, Washington
 June 22, 2001
 Page 1 of 1

Well Name	DTW	LPH	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Total Lead
MW-33	NM	0.75	--	524,000	8.82	0.675	10,100	47,000	9,480	50,800	0.00307
MTCA Method A Cleanup Level											
EXPLANATION:											

Concentrations in mg/kg (ppm).
 DTW = Depth to water in feet below top of casing.
 LPH = Liquid-phase petroleum hydrocarbon thickness in feet.
 TPH-G = Total Petroleum Hydrocarbons as Gasoline by Ecology Method NWTPH-G.
 TPH-D and TPH-O = Total petroleum hydrocarbons as diesel and as oil (respectively) by Ecology Method NWTPH-D (Extended).
 B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes.
 BTEX = Aromatic compounds by EPA Method 8020.
 Total lead analysis by EPA Method 6020.
 * Total Petroleum Hydrocarbons



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24 May, 2001

John Meyer
ERI
905 Industry Dr
Tukwila, WA 98188

RE: TOSCO #5353

Enclosed are the results of analyses for samples received by the laboratory on 05/22/01 12:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 05/24/01 16:48
---------------------------------------------	------------------------------------------------------------------------------	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX1-2.5	B1E0549-01	Soil	05/21/01 12:00	05/22/01 12:25

North Creek Analytical - Bothell

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 Amar Gill, Project Manager

**North Creek Analytical, Inc.
 Environmental Laboratory Network**



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Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
EX1-2.5 (B1E0549-01) Soil Sampled: 05/21/01 12:00 Received: 05/22/01 12:25										
Gasoline Range Hydrocarbons	7010	500		mg/kg dry	100	1E22015	05/22/01	05/22/01	WTPH-G/8021B	
Benzene	ND	5.00		"	"	"	"	"	"	
Toluene	173	5.00		"	"	"	"	"	"	
Ethylbenzene	123	5.00		"	"	"	"	"	"	
Xylenes (total)	708	10.0		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	%	50-150				"	"	"	"	S-01
Surrogate: 4-BFB (PID)	490 %	50-150				"	"	"	"	S-06

North Creek Analytical - Bothell

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Amar Gill, Project Manager

**North Creek Analytical, Inc.
 Environmental Laboratory Network**



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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 05/24/01 16:48
---------------------------------------------	------------------------------------------------------------------------------	-----------------------------

**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended)
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
EX1-2.5 (B1E0549-01) Soil Sampled: 05/21/01 12:00 Received: 05/22/01 12:25										
Diesel Range Hydrocarbons	279	50.0		mg/kg dry	5	1E22008	05/22/01	05/23/01	WTPH-D	D-08
Heavy Oil Range Hydrocarbons	ND	125		"	"	"	"	"	"	
Surrogate: 2-FBP	164 %	50-150				"	"	"	"	S-06
Surrogate: Octacosane	113 %	50-150				"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EX1-2.5 (B1E0549-01) Soil Sampled: 05/21/01 12:00 Received: 05/22/01 12:25									
Lead	2.68	0.340	mg/kg dry	1	1E22049	05/22/01	05/23/01	EPA 6020	

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 Amar Gill, Project Manager

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Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

Reported:
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Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EX1-2.5 (B1E0549-01) Soil Sampled: 05/21/01 12:00 Received: 05/22/01 12:25									
Dry Weight	97.5	1.00	%	1	1E22052	05/22/01	05/23/01	BSOPSPL003R07	

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 Amar Gill, Project Manager



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Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 05/24/01 16:48

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E22015: Prepared 05/22/01 Using EPA 5030B (MeOH)										
Blank (1E22015-BLK1)										
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet							
Benzene	ND	0.0500	"							
Toluene	ND	0.0500	"							
Ethylbenzene	ND	0.0500	"							
Xylenes (total)	ND	0.100	"							
Surrogate: 4-BFB (FID)	3.91		"	4.00		97.8	50-150			
Surrogate: 4-BFB (PID)	3.58		"	4.00		89.5	50-150			
LCS (1E22015-BS1)										
Gasoline Range Hydrocarbons	22.6	5.00	mg/kg wet	25.0		90.4	70-130			
Surrogate: 4-BFB (FID)	4.34		"	4.00		108	50-150			
LCS (1E22015-BS2)										
Benzene	0.472	0.0500	mg/kg wet	0.500		94.4	70-130			
Toluene	0.488	0.0500	"	0.500		97.6	70-130			
Ethylbenzene	0.484	0.0500	"	0.500		96.8	70-130			
Xylenes (total)	1.44	0.100	"	1.50		96.0	70-130			
Surrogate: 4-BFB (PID)	3.79		"	4.00		94.8	50-150			
Duplicate (1E22015-DUP1) Source: B1E0533-01										
Gasoline Range Hydrocarbons	6.02	5.00	mg/kg dry		8.45			33.6	50	
Surrogate: 4-BFB (FID)	4.29		"	4.28		100	50-150			
Duplicate (1E22015-DUP2) Source: B1E0552-03										
Gasoline Range Hydrocarbons	5.29	5.00	mg/kg dry		5.78			8.85	50	
Surrogate: 4-BFB (FID)	4.91		"	5.37		91.4	50-150			
Matrix Spike (1E22015-MS1) Source: B1E0439-02										
Benzene	0.531	0.0500	mg/kg dry	0.674	ND	78.1	60-140			
Toluene	0.542	0.0500	"	0.674	ND	79.6	60-140			
Ethylbenzene	0.554	0.0500	"	0.674	ND	81.6	60-140			
Xylenes (total)	1.79	0.100	"	2.02	ND	85.5	60-140			
Surrogate: 4-BFB (PID)	4.26		"	5.39		79.0	50-150			

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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 05/24/01 16:48

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

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

Batch 1E22015: Prepared 05/22/01 Using EPA 5030B (MeOH)

Matrix Spike Dup (1E22015-MSD1)

Source: B1E0439-02

Benzene	0.523	0.0500	mg/kg dry	0.674	ND	76.9	60-140	1.52	20	
Toluene	0.527	0.0500	"	0.674	ND	77.4	60-140	2.81	20	
Ethylbenzene	0.532	0.0500	"	0.674	ND	78.4	60-140	4.05	20	
Xylenes (total)	1.67	0.100	"	2.02	ND	79.6	60-140	6.94	20	
Surrogate: 4-BFB (PID)	4.14		"	5.39		76.8	50-150			

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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 05/24/01 16:48

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) - Quality Control
North Creek Analytical - Bothell

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

Batch 1E22008: Prepared 05/22/01 Using EPA 3550B

Blank (1E22008-BLK1)

Diesel Range Hydrocarbons	ND	10.0	mg/kg wet							
Heavy Oil Range Hydrocarbons	ND	25.0	"							
Surrogate: 2-FBP	9.09		"	10.7		85.0	50-150			
Surrogate: Octacosane	10.4		"	10.7		97.2	50-150			

LCS (1E22008-BS1)

Diesel Range Hydrocarbons	62.7	10.0	mg/kg wet	66.7		94.0	72-120			
Surrogate: 2-FBP	9.04		"	10.7		84.5	50-150			

Duplicate (1E22008-DUP1)

Source: B1E0439-01

Diesel Range Hydrocarbons	1270	410	mg/kg dry		982			25.6	40	D-09
Heavy Oil Range Hydrocarbons	4590	1020	"		3560			25.3	40	
Surrogate: 2-FBP	9.00		"	12.6		71.4	50-150			
Surrogate: Octacosane	11.6		"	12.6		92.1	50-150			

Duplicate (1E22008-DUP2)

Source: B1E0549-01

Diesel Range Hydrocarbons	202	50.0	mg/kg dry		279			32.0	40	D-08
Heavy Oil Range Hydrocarbons	ND	125	"		ND			31.1	40	
Surrogate: 2-FBP	12.5		"	10.9		115	50-150			
Surrogate: Octacosane	12.6		"	10.9		116	50-150			

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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 05/24/01 16:48
---------------------------------------------	------------------------------------------------------------------------------	-----------------------------

**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 1E22049: Prepared 05/22/01 Using EPA 3050B										
Blank (1E22049-BLK1)										
Lead	ND	0.500	mg/kg wet							
LCS (1E22049-BS1)										
Lead	24.1	0.500	mg/kg wet	25.0		96.4	80-120			
Matrix Spike (1E22049-MS1) Source: B1E0549-01										
Lead	22.0	0.327	mg/kg dry	16.8	2.68	115	70-130			
Matrix Spike Dup (1E22049-MSD1) Source: B1E0549-01										
Lead	20.0	0.362	mg/kg dry	18.6	2.68	93.1	70-130	9.52	20	

North Creek Analytical - Bothell

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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 05/24/01 16:48
---------------------------------------------	------------------------------------------------------------------------------	-----------------------------

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1E22052: Prepared 05/22/01 Using Dry Weight										
Blank (1E22052-BLK1)										
Dry Weight	100	1.00	%							

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ERI
905 Industry Dr
Tukwila WA, 98188

Project: TOSCO #5353
Project Number: 31020
Project Manager: John Meyer

Reported:
05/24/01 16:48

Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
- 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 BIE0549

TOSCO INFORMATION

Facility Number: 5353

Site Address: 600 Westlake

City, State, ZIP: Seattle WA 98109

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# 1020

Address: 905 Industry Dr.

Phone: 206-575-6220 Fax: 206-575-6223

Project Manager: John Meyer E-mail: James.Matthewson

Sample Collection by: James Matthewson

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

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

SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W.S.O)	# OF CON-TAINERS
1. EX1-2.5	5/22/01	S	1
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

TPH-HCID	TPH-Gas	BTEX	EPA 8021 Mod.	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel-Ext	W/SG Cleanup	Halogen. Volatiles	EPA 8021	Pesticides/PCBs	or PCBs Only	GCMs Volatiles	EPA 8260	GCMs SemiVol.	EPA 8270	PAH's	8270 SIM or 8310	Test	Total or Dissolved	ICP or RCRA	Metals (8)	
				X															X			

NCA SAMPLE NUMBER
BIE0549-01

Relinquished by: [Signature] Firm: ERI Date & Time: 5/22/01 12:25

Received by: [Signature] Firm: NCA Date & Time: 5-22-01 12:25

Comments:
No AEA



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8 June, 2001

John Meyer
ERI
905 Industry Dr
Tukwila, WA 98188

RE: Tosco #5337 Westlake

Enclosed are the results of analyses for samples received by the laboratory on 05/24/01 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
 905 Industry Dr
 Tukwila WA, 98188

Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 06/08/01 16:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX2-7	B1E0653-01	Soil	05/23/01 12:00	05/24/01 13:30
EX3-7	B1E0653-02	Soil	05/23/01 12:00	05/24/01 13:30
EX4-3.5	B1E0653-03	Soil	05/23/01 12:00	05/24/01 13:30


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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 06/08/01 16:18

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
EX2-7 (B1E0653-01) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	1E26001	05/26/01	05/26/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	"	"	"	"	"	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	84.4 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	89.1 %	50-150			"	"	"	"	
EX3-7 (B1E0653-02) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	1E26001	05/26/01	05/26/01	NWTPH-Gx/8021B	
Benzene	0.0950	0.0500	"	"	"	"	"	"	
Toluene	0.0907	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	82.2 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	85.9 %	50-150			"	"	"	"	
EX4-3.5 (B1E0653-03) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	1E26001	05/26/01	05/26/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	"	"	"	"	"	
Toluene	0.0563	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	0.115	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	80.4 %	50-150			"	"	"	"	
Surrogate: 4-BFB (PID)	86.1 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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ERI
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 Tukwila WA, 98188

Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 06/08/01 16:18

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EX2-7 (B1E0653-01) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30									
Diesel Range Hydrocarbons	32.6	10.0	mg/kg dry	1	1E30004	05/30/01	05/31/01	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	77.3	25.0	"	"	"	"	"	"	"
Surrogate: 2-FBP	96.5 %	50-150			"	"	"	"	
Surrogate: Octacosane	82.1 %	50-150			"	"	"	"	
EX3-7 (B1E0653-02) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30									
Diesel Range Hydrocarbons	320	30.0	mg/kg dry	3	1E30004	05/30/01	05/30/01	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	410	75.0	"	"	"	"	"	"	"
Surrogate: 2-FBP	78.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	111 %	50-150			"	"	"	"	
EX4-3.5 (B1E0653-03) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30									
Diesel Range Hydrocarbons	79.2	30.0	mg/kg dry	3	1E30004	05/30/01	05/30/01	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	161	75.0	"	"	"	"	"	"	"
Surrogate: 2-FBP	84.6 %	50-150			"	"	"	"	
Surrogate: Octacosane	85.4 %	50-150			"	"	"	"	

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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer


Reported:
 06/08/01 16:18

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
EX2-7 (B1E0653-01) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30										
Lead	23.3	0.347		mg/kg dry	1	1F04027	06/04/01	06/06/01	EPA 6020	

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ERI 905 Industry Dr Tukwila WA, 98188	Project: Tosco #5337 Westlake Project Number: 31020 Project Manager: John Meyer	Reported: 06/08/01 16:18
---------------------------------------------	---------------------------------------------------------------------------------------	-----------------------------

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EX2-7 (B1E0653-01) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30									
Bromodichloromethane	ND	0.100	mg/kg dry	1	1F01028	06/01/01	06/01/01	EPA 8260B	
Bromoform	ND	0.100	"	"	"	"	"	"	
Bromomethane	ND	0.100	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.100	"	"	"	"	"	"	
Chlorobenzene	ND	0.100	"	"	"	"	"	"	
Chloroethane	ND	0.100	"	"	"	"	"	"	
Chloroform	ND	0.100	"	"	"	"	"	"	
Chloromethane	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.100	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.100	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.100	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.100	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.100	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.100	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.100	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.100	"	"	"	"	"	"	
Methylene chloride	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	"	"	"	"	"	"	
Tetrachloroethene	ND	0.100	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.100	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.100	"	"	"	"	"	"	
Trichloroethene	ND	0.100	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.100	"	"	"	"	"	"	
Vinyl chloride	ND	0.100	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	81.7 %	57-139			"	"	"	"	
Surrogate: 4-BFB	93.1 %	62-121			"	"	"	"	

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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 06/08/01 16:18

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EX2-7 (B1E0653-01) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30									
Acenaphthene	0.0458	0.0200	mg/kg dry	2	1E31019	05/31/01	06/04/01	GCMS-SIM	
Acenaphthylene	0.0215	0.0200	"	"	"	"	"	"	"
Anthracene	0.195	0.0200	"	"	"	"	"	"	"
Benzo (a) anthracene	0.470	0.0200	"	"	"	"	"	"	"
Benzo (a) pyrene	0.305	0.0200	"	"	"	"	"	"	"
Benzo (b) fluoranthene	0.334	0.0200	"	"	"	"	"	"	"
Benzo (ghi) perylene	0.239	0.0200	"	"	"	"	"	"	"
Benzo (k) fluoranthene	0.105	0.0200	"	"	"	"	"	"	"
Chrysene	0.305	0.0200	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	0.0816	0.0200	"	"	"	"	"	"	"
Fluoranthene	0.762	0.0200	"	"	"	"	"	"	"
Fluorene	0.0687	0.0200	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	0.245	0.0200	"	"	"	"	"	"	"
Naphthalene	0.0286	0.0200	"	"	"	"	"	"	"
Phenanthrene	0.740	0.0200	"	"	"	"	"	"	"
Pyrene	0.835	0.0200	"	"	"	"	"	"	"
Surrogate: 2-FBP	84.4 %	13-140			"	"	"	"	"
Surrogate: Nitrobenzene-d5	70.4 %	10-136			"	"	"	"	"
Surrogate: p-Terphenyl-d14	89.9 %	30-150			"	"	"	"	"



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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer


Reported:
 06/08/01 16:18

Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
EX2-7 (B1E0653-01) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30										
Dry Weight	93.1	1.00		%	1	1E26002	05/26/01	05/29/01	BSOPSPL003R07	
EX3-7 (B1E0653-02) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30										
Dry Weight	86.8	1.00		%	1	1E26002	05/26/01	05/29/01	BSOPSPL003R07	
EX4-3.5 (B1E0653-03) Soil Sampled: 05/23/01 12:00 Received: 05/24/01 13:30										
Dry Weight	87.0	1.00		%	1	1E26002	05/26/01	05/29/01	BSOPSPL003R07	

North Creek Analytical - Bothell

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Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 06/08/01 16:18

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 Limits	RPD	RPD Limit	Notes
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Batch 1E26001: Prepared 05/26/01 Using EPA 5030B (MeOH)

Blank (1E26001-BLK1)

Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet						
Benzene	ND	0.0500	"						
Toluene	ND	0.0500	"						
Ethylbenzene	ND	0.0500	"						
Xylenes (total)	ND	0.100	"						
Surrogate: 4-BFB (FID)	3.85		"	4.00		96.2		50-150	
Surrogate: 4-BFB (PID)	3.85		"	4.00		96.2		50-150	

LCS (1E26001-BS1)

Gasoline Range Hydrocarbons	21.8	5.00	mg/kg wet	25.0		87.2		70-130	
Surrogate: 4-BFB (FID)	3.84		"	4.00		96.0		50-150	

LCS (1E26001-BS2)

Benzene	0.472	0.0500	mg/kg wet	0.500		94.4		70-130	
Toluene	0.492	0.0500	"	0.500		98.4		70-130	
Ethylbenzene	0.502	0.0500	"	0.500		100		70-130	
Xylenes (total)	1.53	0.100	"	1.50		102		70-130	
Surrogate: 4-BFB (PID)	3.75		"	4.00		93.8		50-150	

LCS Dup (1E26001-BSD1)

Gasoline Range Hydrocarbons	22.9	5.00	mg/kg wet	25.0		91.6	4.92	70-130	25
Surrogate: 4-BFB (FID)	3.97		"	4.00		99.2		50-150	

LCS Dup (1E26001-BSD2)

Benzene	0.479	0.0500	mg/kg wet	0.500		95.8	1.47	70-130	25
Toluene	0.502	0.0500	"	0.500		100	2.01	70-130	25
Ethylbenzene	0.520	0.0500	"	0.500		104	3.52	70-130	25
Xylenes (total)	1.58	0.100	"	1.50		105	3.22	70-130	25
Surrogate: 4-BFB (PID)	3.79		"	4.00		94.8		50-150	

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Anna Gill, Project Manager

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ERI 905 Industry Dr Tukwila WA, 98188	Project: Tosco #5337 Westlake Project Number: 31020 Project Manager: John Meyer	Reported: 06/08/01 16:18
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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
Batch 1E26001: Prepared 05/26/01 Using EPA 5030B (MeOH)										
Duplicate (1E26001-DUP1) Source: B1E0260-05										
Gasoline Range Hydrocarbons	5.44	5.00	mg/kg dry		ND			31.7	50	
Surrogate: 4-BFB (FID)	4.83		"	5.25		92.0	50-150			
Matrix Spike (1E26001-MS1) Source: B1E0653-01										
Gasoline Range Hydrocarbons	22.5	5.00	mg/kg dry	26.9	ND	80.7	60-140			
Surrogate: 4-BFB (FID)	3.73		"	4.30		86.7	50-150			
Matrix Spike (1E26001-MS2) Source: B1E0653-02										
Benzene	0.501	0.0500	mg/kg dry	0.576	0.0950	70.5	60-140			
Toluene	0.539	0.0500	"	0.576	0.0907	77.8	60-140			
Ethylbenzene	0.524	0.0500	"	0.576	ND	88.7	60-140			
Xylenes (total)	1.64	0.100	"	1.73	ND	89.4	60-140			
Surrogate: 4-BFB (PID)	3.95		"	4.61		85.7	50-150			
Matrix Spike Dup (1E26001-MSD1) Source: B1E0653-01										
Gasoline Range Hydrocarbons	23.0	5.00	mg/kg dry	26.9	ND	82.6	60-140	2.20	20	
Surrogate: 4-BFB (FID)	3.81		"	4.30		88.6	50-150			
Matrix Spike Dup (1E26001-MSD2) Source: B1E0653-02										
Benzene	0.509	0.0500	mg/kg dry	0.576	0.0950	71.9	60-140	1.58	20	
Toluene	0.549	0.0500	"	0.576	0.0907	79.6	60-140	1.84	20	
Ethylbenzene	0.536	0.0500	"	0.576	ND	90.8	60-140	2.26	20	
Xylenes (total)	1.68	0.100	"	1.73	ND	91.7	60-140	2.41	20	
Surrogate: 4-BFB (PID)	3.99		"	4.61		86.6	50-150			

North Creek Analytical - Bothell

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ERI
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 Tukwila WA, 98188

Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 06/08/01 16:18

Semivolatile Petroleum Products by NWTPH-Dx (w/o 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 1E30004: Prepared 05/30/01 Using EPA 3550B

Blank (1E30004-BLK1)

Diesel Range Hydrocarbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydrocarbons	ND	25.0	"							
Surrogate: 2-FBP	8.82		"	10.7		82.4	50-150			
Surrogate: Octacosane	10.0		"	10.7		93.5	50-150			

LCS (1E30004-BS1)

Diesel Range Hydrocarbons	61.5	10.0	mg/kg wet	66.7		92.2	64-122			
Surrogate: 2-FBP	8.93		"	10.7		83.5	50-150			

LCS Dup (1E30004-BSD1)

Diesel Range Hydrocarbons	65.9	10.0	mg/kg wet	66.7		98.8	64-122	6.91	20	
Surrogate: 2-FBP	8.69		"	10.7		81.2	50-150			

Duplicate (1E30004-DUP1)

Source: B1E0567-01

Diesel Range Hydrocarbons	118	10.0	mg/kg dry		131			10.4	40	
Lube Oil Range Hydrocarbons	261	25.0	"		277			5.95	40	
Surrogate: 2-FBP	9.53		"	11.7		81.5	50-150			
Surrogate: Octacosane	11.5		"	11.7		98.3	50-150			

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ERI 905 Industry Dr Tukwila WA, 98188	Project: Tosco #5337 Westlake Project Number: 31020 Project Manager: John Meyer	Reported: 06/08/01 16:18
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Notes
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Batch 1F04027: Prepared 06/04/01 Using EPA 3050B

Blank (1F04027-BLK1)

Lead	ND	0.500	mg/kg wet							
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LCS (1F04027-BS1)

Lead	25.9	0.500	mg/kg wet	25.0		104	80-120			
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LCS Dup (1F04027-BSD1)

Lead	25.8	0.500	mg/kg wet	25.0		103	80-120	0.387	20	
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Matrix Spike (1F04027-MS1)

Source: B1E0700-01

Lead	41.1	0.340	mg/kg dry	25.7	7.86	129	70-130			
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Matrix Spike Dup (1F04027-MSD1)

Source: B1E0700-01

Lead	40.3	0.373	mg/kg dry	28.2	7.86	115	70-130	1.97	20	
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North Creek Analytical - Bothell

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Amanda Gill, Project Manager

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ERI
 905 Industry Dr
 Tukwila WA, 98188

Project: Tosco #5337 Westlake
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 06/08/01 16:18

Volatile Organic Compounds by EPA Method 8260B - 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 1F01028: Prepared 06/01/01 Using EPA 5030B [P/T]

Blank (1F01028-BLK1)

Bromodichloromethane	ND	0.100	mg/kg wet							
Bromoform	ND	0.100	"							
Bromomethane	ND	0.100	"							
Carbon tetrachloride	ND	0.100	"							
Chlorobenzene	ND	0.100	"							
Chloroethane	ND	0.100	"							
Chloroform	ND	0.100	"							
Chloromethane	ND	0.500	"							
Dibromochloromethane	ND	0.100	"							
1,2-Dichlorobenzene	ND	0.100	"							
1,3-Dichlorobenzene	ND	0.100	"							
1,4-Dichlorobenzene	ND	0.100	"							
1,1-Dichloroethane	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
1,1-Dichloroethene	ND	0.100	"							
cis-1,2-Dichloroethene	ND	0.100	"							
trans-1,2-Dichloroethene	ND	0.100	"							
1,2-Dichloropropane	ND	0.100	"							
cis-1,3-Dichloropropene	ND	0.100	"							
trans-1,3-Dichloropropene	ND	0.100	"							
Methylene chloride	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	0.100	"							
Tetrachloroethene	ND	0.100	"							
1,1,1-Trichloroethane	ND	0.100	"							
1,1,2-Trichloroethane	ND	0.100	"							
Trichloroethene	ND	0.100	"							
Trichlorofluoromethane	ND	0.100	"							
Vinyl chloride	ND	0.100	"							

Surrogate: 1,2-DCA-d4	3.37	"		4.02		83.8	57-139
Surrogate: 4-BFB	3.68	"		4.02		91.5	62-121

North Creek Analytical - Bothell

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Amanda Gill, Project Manager

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ERI Project: Tosco #5337 Westlake
 905 Industry Dr Project Number: 31020 Reported: 06/08/01 16:18
 Tukwila WA, 98188 Project Manager: John Meyer

Volatile Organic Compounds by EPA Method 8260B - 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 1F01028: Prepared 06/01/01 Using EPA 5030B [P/T]

Blank (1F01028-BLK2)

Bromodichloromethane	ND	0.100	mg/kg wet							
Bromoform	ND	0.100	"							
Bromomethane	ND	0.100	"							
Carbon tetrachloride	ND	0.100	"							
Chlorobenzene	ND	0.100	"							
Chloroethane	ND	0.100	"							
Chloroform	ND	0.100	"							
Chloromethane	ND	0.500	"							
Dibromochloromethane	ND	0.100	"							
1,2-Dichlorobenzene	ND	0.100	"							
1,3-Dichlorobenzene	ND	0.100	"							
1,4-Dichlorobenzene	ND	0.100	"							
1,1-Dichloroethane	ND	0.100	"							
1,2-Dichloroethane	ND	0.100	"							
1,1-Dichloroethene	ND	0.100	"							
cis-1,2-Dichloroethene	ND	0.100	"							
trans-1,2-Dichloroethene	ND	0.100	"							
1,2-Dichloropropane	ND	0.100	"							
cis-1,3-Dichloropropene	ND	0.100	"							
trans-1,3-Dichloropropene	ND	0.100	"							
Methylene chloride	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	0.100	"							
Tetrachloroethene	ND	0.100	"							
1,1,1-Trichloroethane	ND	0.100	"							
1,1,2-Trichloroethane	ND	0.100	"							
Trichloroethene	ND	0.100	"							
Trichlorofluoromethane	ND	0.100	"							
Vinyl chloride	ND	0.100	"							

Surrogate: 1,2-DCA-d4	4.27	"		4.02		106	57-139
Surrogate: 4-BFB	3.91	"		4.02		97.3	62-121

North Creek Analytical - Bothell

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ERI 905 Industry Dr Tukwila WA, 98188	Project: Tosco #5337 Westlake Project Number: 31020 Project Manager: John Meyer	Reported: 06/08/01 16:18
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**Volatile Organic Compounds by EPA Method 8260B - 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 1F01028: Prepared 06/01/01 Using EPA 5030B [P/T]

LCS (1F01028-BS1)

Chlorobenzene	0.990	0.100	mg/kg wet	1.00		99.0	69-130			
1,1-Dichloroethene	0.753	0.100	"	1.00		75.3	51-130			
Trichloroethene	0.920	0.100	"	1.00		92.0	66-135			
Surrogate: 1,2-DCA-d4	3.50		"	4.02		87.1	57-139			
Surrogate: 4-BFB	3.81		"	4.02		94.8	62-121			

LCS Dup (1F01028-BSD1)

Chlorobenzene	0.978	0.100	mg/kg wet	1.00		97.8	69-130	1.22	20	
1,1-Dichloroethene	0.723	0.100	"	1.00		72.3	51-130	4.07	20	
Trichloroethene	0.875	0.100	"	1.00		87.5	66-135	5.01	20	
Surrogate: 1,2-DCA-d4	3.46		"	4.02		86.1	57-139			
Surrogate: 4-BFB	3.74		"	4.02		93.0	62-121			

Matrix Spike (1F01028-MS1)

Source: B1E0614-01

Chlorobenzene	1.23	0.100	mg/kg dry	1.44	ND	85.4	56-132			
1,1-Dichloroethene	0.746	0.100	"	1.44	ND	51.8	41-131			
Trichloroethene	1.06	0.100	"	1.44	ND	73.6	61-139			
Surrogate: 1,2-DCA-d4	4.75		"	5.80		81.9	57-139			
Surrogate: 4-BFB	5.09		"	5.81		87.6	62-121			

Matrix Spike Dup (1F01028-MSD1)

Source: B1E0614-01

Chlorobenzene	1.40	0.100	mg/kg dry	1.44	ND	97.2	56-132	12.9	25	
1,1-Dichloroethene	0.869	0.100	"	1.44	ND	60.3	41-131	15.2	25	
Trichloroethene	1.26	0.100	"	1.44	ND	87.5	61-139	17.2	25	
Surrogate: 1,2-DCA-d4	5.05		"	5.80		87.1	57-139			
Surrogate: 4-BFB	5.45		"	5.81		93.8	62-121			

North Creek Analytical - Bothell

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ERI 905 Industry Dr Tukwila WA, 98188	Project: Tosco #5337 Westlake Project Number: 31020 Project Manager: John Meyer	Reported: 06/08/01 16:18
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - 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 1E31019: Prepared 05/31/01 Using EPA 3550B

Blank (1E31019-BLK1)

Acenaphthene	ND	0.0100	mg/kg wet							
Acenaphthylene	ND	0.0100	"							
Anthracene	ND	0.0100	"							
Benzo (a) anthracene	ND	0.0100	"							
Benzo (a) pyrene	ND	0.0100	"							
Benzo (b) fluoranthene	ND	0.0100	"							
Benzo (ghi) perylene	ND	0.0100	"							
Benzo (k) fluoranthene	ND	0.0100	"							
Chrysene	ND	0.0100	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.0100	"							
Fluorene	ND	0.0100	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
Naphthalene	ND	0.0100	"							
Phenanthrene	ND	0.0100	"							
Pyrene	ND	0.0100	"							
Surrogate: 2-FBP	1.37		"	1.67		82.0	13-140			
Surrogate: Nitrobenzene-d5	1.16		"	1.67		69.5	10-136			
Surrogate: p-Terphenyl-d14	1.68		"	1.67		101	30-150			

LCS (1E31019-BS1)

Chrysene	0.309	0.0100	mg/kg wet	0.333		92.8	51-124			
Fluorene	0.305	0.0100	"	0.333		91.6	35-141			
Indeno (1,2,3-cd) pyrene	0.292	0.0100	"	0.333		87.7	27-148			
Surrogate: 2-FBP	1.40		"	1.67		83.8	13-140			
Surrogate: Nitrobenzene-d5	1.22		"	1.67		73.1	10-136			
Surrogate: p-Terphenyl-d14	1.58		"	1.67		94.6	30-150			

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ERI 905 Industry Dr Tukwila WA, 98188	Project: Tosco #5337 Westlake Project Number: 31020 Project Manager: John Meyer	Reported: 06/08/01 16:18
---------------------------------------------	---------------------------------------------------------------------------------------	-----------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control
North Creek Analytical - Bothell

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

Batch 1E31019: Prepared 05/31/01 Using EPA 3550B

LCS Dup (1E31019-BSD1)

Chrysene	0.315	0.0100	mg/kg wet	0.333		94.6	51-124	1.92	28	
Fluorene	0.305	0.0100	"	0.333		91.6	35-141	0.00	32	
Indeno (1,2,3-cd) pyrene	0.294	0.0100	"	0.333		88.3	27-148	0.683	34	
Surrogate: 2-FBP	1.53		"	1.67		91.6	13-140			
Surrogate: Nitrobenzene-d5	1.27		"	1.67		76.0	10-136			
Surrogate: p-Terphenyl-d14	1.67		"	1.67		100	30-150			

Source: B1E0579-12

Matrix Spike (1E31019-MS1)

Chrysene	0.554	0.0100	mg/kg dry	0.389	0.454	25.7	15-147			
Fluorene	0.378	0.0100	"	0.389	0.0140	93.6	21-153			
Indeno (1,2,3-cd) pyrene	0.518	0.0100	"	0.389	0.419	25.4	10-179			
Surrogate: 2-FBP	1.71		"	1.95		87.7	13-140			
Surrogate: Nitrobenzene-d5	1.32		"	1.95		67.7	10-136			
Surrogate: p-Terphenyl-d14	1.77		"	1.95		90.8	30-150			

Source: B1E0579-12

Matrix Spike Dup (1E31019-MSD1)

Chrysene	0.519	0.0100	mg/kg dry	0.389	0.454	16.7	15-147	6.52	37	
Fluorene	0.364	0.0100	"	0.389	0.0140	90.0	21-153	3.77	38	
Indeno (1,2,3-cd) pyrene	0.503	0.0100	"	0.389	0.419	21.6	10-179	2.94	53	
Surrogate: 2-FBP	1.80		"	1.95		92.3	13-140			
Surrogate: Nitrobenzene-d5	1.43		"	1.95		73.3	10-136			
Surrogate: p-Terphenyl-d14	1.79		"	1.95		91.8	30-150			

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ERI 905 Industry Dr Tukwila WA, 98188	Project: Tosco #5337 Westlake Project Number: 31020 Project Manager: John Meyer	Reported: 06/08/01 16:18
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Physical Parameters by APHA/ASTM/EPA Methods - 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 1E26002: Prepared 05/26/01 Using Dry Weight

Blank (1E26002-BLK1)

Dry Weight	100	1.00	%							
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ERI 905 Industry Dr Tukwila WA, 98188	Project: Tosco #5337 Westlake Project Number: 31020 Project Manager: John Meyer	Reported: 06/08/01 16:18
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Notes and Definitions

- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- 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


 Amar Gill, Project Manager



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10 July, 2001

John Meyer
ERI
905 Industry Dr
Tukwila, WA 98188

RE: TOSCO #5353

Enclosed are the results of analyses for samples received by the laboratory on 06/22/01 14:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 07/10/01 15:21
---------------------------------------------	------------------------------------------------------------------------------	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-33	B1F0557-01	Water	06/22/01 10:00	06/22/01 14:40
MW-33	B1F0557-02	Other wet	06/22/01 10:00	06/22/01 14:40

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ERI
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Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer


Reported:
 07/10/01 15:21

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-33 (B1F0557-02) Other wet Sampled: 06/22/01 10:00 Received: 06/22/01 14:40										
Gasoline Range Hydrocarbons	524000	125000		mg/kg	5000	1G05032	07/05/01	07/07/01	NWTPH-Gx/8021B	
Benzene	10100	1250		"	"	"	"	"	"	
Toluene	47000	1250		"	"	"	"	"	"	
Ethylbenzene	9480	1250		"	"	"	"	"	"	
Xylenes (total)	50800	2500		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	%	50-150				"	"	"	"	S-01
Surrogate: 4-BFB (PID)	%	50-150				"	"	"	"	S-01

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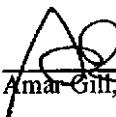
ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 07/10/01 15:21
---------------------------------------------	------------------------------------------------------------------------------	-----------------------------

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
MW-33 (B1F0557-01) Water Sampled: 06/22/01 10:00 Received: 06/22/01 14:40									
Diesel Range Hydrocarbons	8.82	0.283	mg/l	1	1F29007	06/29/01	07/01/01	NWTPH-Dx	D-08
Lube Oil Range Hydrocarbons	0.675	0.567	"	"	"	"	"	"	
Surrogate: 2-FBP	93.7 %	50-150			"	"	"	"	
Surrogate: Octacosane	85.7 %	50-150			"	"	"	"	

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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 07/10/01 15:21
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**Total Metals by EPA 6000/7000 Series Methods
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-33 (B1F0557-01) Water Sampled: 06/22/01 10:00 Received: 06/22/01 14:40										
Lead	0.00307	0.00100		mg/l	1	1F26027	06/26/01	06/28/01	EPA 6020	

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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 07/10/01 15:21
---------------------------------------------	------------------------------------------------------------------------------	-----------------------------

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 1G05032: Prepared 07/05/01 Using EPA 5030B (MeOH)

Blank (1G05032-BLK1)

Gasoline Range Hydrocarbons	ND	5.00	mg/kg							
Benzene	ND	0.0500	"							
Toluene	ND	0.0500	"							
Ethylbenzene	ND	0.0500	"							
Xylenes (total)	ND	0.100	"							
Surrogate: 4-BFB (FID)	3.75		"	4.00		93.8	50-150			
Surrogate: 4-BFB (PID)	4.01		"	4.00		100	50-150			

LCS (1G05032-BS1)

Gasoline Range Hydrocarbons	24.3	5.00	mg/kg	25.0		97.2	70-130			
Surrogate: 4-BFB (FID)	4.70		"	4.00		118	50-150			

LCS (1G05032-BS2)

Benzene	0.461	0.0500	mg/kg	0.500		92.2	70-130			
Toluene	0.505	0.0500	"	0.500		101	70-130			
Ethylbenzene	0.515	0.0500	"	0.500		103	70-130			
Xylenes (total)	1.57	0.100	"	1.50		105	70-130			
Surrogate: 4-BFB (PID)	3.98		"	4.00		99.5	50-150			

LCS Dup (1G05032-BSD1)

Gasoline Range Hydrocarbons	25.3	5.00	mg/kg	25.0		101	70-130	4.03	25	
Surrogate: 4-BFB (FID)	4.54		"	4.00		114	50-150			

LCS Dup (1G05032-BSD2)

Benzene	0.498	0.0500	mg/kg	0.500		99.6	70-130	7.72	25	
Toluene	0.540	0.0500	"	0.500		108	70-130	6.70	25	
Ethylbenzene	0.560	0.0500	"	0.500		112	70-130	8.37	25	
Xylenes (total)	1.71	0.100	"	1.50		114	70-130	8.54	25	
Surrogate: 4-BFB (PID)	4.26		"	4.00		106	50-150			

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Project: TOSCO #5353
 Project Number: 31020
 Project Manager: John Meyer

Reported:
 07/10/01 15:21

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1F29007: Prepared 06/29/01 Using EPA 3510C/600 Series										
Blank (1F29007-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.230		"	0.320		71.9	50-150			
Surrogate: Octacosane	0.233		"	0.320		72.8	50-150			
LCS (1F29007-BS1)										
Diesel Range Hydrocarbons	1.78	0.250	mg/l	2.00		89.0	60-140			
Surrogate: 2-FBP	0.285		"	0.320		89.1	50-150			
LCS Dup (1F29007-BSD1)										
Diesel Range Hydrocarbons	1.76	0.250	mg/l	2.00		88.0	60-140	1.13	20	
Surrogate: 2-FBP	0.287		"	0.320		89.7	50-150			
Matrix Spike (1F29007-MS1) Source: B1F0596-10										
Diesel Range Hydrocarbons	1.65	0.250	mg/l	1.91	ND	82.8	0-200			
Surrogate: 2-FBP	0.261		"	0.306		85.3	50-150			
Matrix Spike Dup (1F29007-MSD1) Source: B1F0596-10										
Diesel Range Hydrocarbons	1.46	0.250	mg/l	1.89	ND	73.7	0-200	12.2	200	
Surrogate: 2-FBP	0.238		"	0.302		78.8	50-150			

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ERI 905 Industry Dr Tukwila WA, 98188	Project: TOSCO #5353 Project Number: 31020 Project Manager: John Meyer	Reported: 07/10/01 15:21
---------------------------------------------	------------------------------------------------------------------------------	-----------------------------

**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 1F26027: Prepared 06/26/01 Using EPA 3020A										
Blank (1F26027-BLK1)										
Lead	ND	0.00100	mg/l							
LCS (1F26027-BS1)										
Lead	0.213	0.00100	mg/l	0.200		106	80-120			
LCS Dup (1F26027-BSD1)										
Lead	0.211	0.00100	mg/l	0.200		106	80-120	0.943	20	
Matrix Spike (1F26027-MS1) Source: B1F0502-04										
Lead	0.215	0.00100	mg/l	0.200	ND	108	75-125			
Matrix Spike Dup (1F26027-MSD1) Source: B1F0502-04										
Lead	0.210	0.00100	mg/l	0.200	ND	105	75-125	2.35	20	

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ERI
905 Industry Dr
Tukwila WA, 98188

Project: TOSCO #5353
Project Number: 31020
Project Manager: John Meyer

Reported:
07/10/01 15:21

Notes and Definitions

- D-08 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- 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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Page 8 of 8



11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223
 (425) 420-9200 FAX 420-9210
 East 11115 Montgomery, Suite B, Spokane, WA 98206-4776
 (509) 924-9200 FAX 924-9290
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132
 (503) 906-9200 FAX 906-9210
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 (541) 383-9310 FAX 382-7588

TOSCO CHAIN OF CUSTODY REPORT

31FO557

TOSCO INFORMATION

Facility Number: 3353 Westlake

Site Address: Westlake in Udena

City, State, ZIP: Seattle, WA

Project/AWO Code: _____

Tosco Manager: _____

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

Brown Bear Former 76 Site Other _____

CONSULTANT INFORMATION

Firm: ELI Project# 31000

Address: 925 Industry Dr

Tukwila, WA 98188

Phone: (206) 575-6422 Fax: 16423

Project Manager: Meyer E-mail: _____

Sample Collection by: Meyer

Quality Assurance Data Level:

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 CON-TAINERS
1. <u>MMU-33</u>	<u>9/20/01 10:00 AM</u>	<u>W/S/O</u>	<u>3</u>
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

TPH-HCID	TPH-Gas	BTEX	EPA 8021 Mod.	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel-Ext	w/SG Cleanup	Halogen. Volatiles	EPA 8021	Pesticides/PCBs	or PCBs Only	GC/MS Volatiles	EPA 8260	GC/MS Semi-Vols.	EPA 8270	PAH's	8270 SIM or 8310	Lead:	Total Dissolved	TCP or RCRA	Metals (8)	
				X		X													X			

Relinquished by: [Signature] Firm: ELI Date & Time: 9/20/01

Received by: [Signature] Firm: TPH Date & Time: 9/22/01 11:30

1. _____

2. _____

3. _____

Comments: Expect High concentrations -
<PH
21.0% w/o

Soil Master (c)

TPS Technologies, Inc.

Customer Job Report

Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Number	Name	SiteAddress	SiteCity	State	ZipCode
A03 -- 03404	TOSCO SITE #255353	600 WESTLAKE AVENUE	SEATTLE	WA	00000

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
1	05/23/01 08:16	3INTWST	BILL	58,920M	25,380M	33,540	16.77
2	05/23/01 08:17	3INTWST	CRAIG	42,520M	25,520M	17,000	8.50

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
100.00%	2	50.50%	50.00 (tons)	25.27 (tons)

**BILL OF LADING
PRODUCT TRANSPORT MANIFEST
MARINE VACUUM SERVICE INC.
24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240**

TRUCK NUMBER 77 DATE 11.28.01

TO DESTINATION NAME Boothbay Harbor, Me. FROM SHIPPER NAME Marine Vacuum Service Inc.
 STREET 1000 Main St STREET 1000 Main St
 CITY/STATE Kent, Me. 04832 CITY/STATE Boothbay Harbor, Me.

QUANTITY	PROPER SHIPPING NAME	UN (PLACARD) NUMBER
<u>1200</u>	<u>Unhazardous waste water</u>	<u>(None)</u>

SHIPPER _____ DATE _____ DRIVER [Signature] DATE 11.28.01

NOTE: [Signature]

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CRSQC	Manifest Document No. 61853	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address TOSCO MARKETING COMPANY #5353 600 WEST LAKE AVENUE SEATTLE WA 98109-0000 (206)640-7608		6. US EPA ID Number		A. State Manifest Document Number			
4. Generator's Phone		7. Transporter 1 Company Name Marine Vacuum Service		B. State Generator's ID			
5. Transporter 1 Company Name		8. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		10. US EPA ID Number		D. Transporter's Phone (206)762-0240			
9. Designated Facility Name and Site Address HARLINGTON INDUSTRIAL AND LIGHT 20245 77TH AVENUE SOUTH KING WA 98142		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone (253) 872-8030			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit W/Vol	I. Waste No.		
a. HM MATERIAL NOT REGULATED BY DOT		No. 1	Type PT		G		
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above #1 177350-00 WATER WITH GAS - NAT GAS (1)		K. Handling Codes for Wastes Listed Above #1					
15. Special Handling Instructions and Additional Information June 26 th EFR							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name T D Johnson				Signature 		Month Day Year 6 22 01	
17. Transporter 1 Acknowledgment of Receipt of Materials				Signature		Month Day Year	
Printed/Typed Name							
18. Transporter 2 Acknowledgment of Receipt of Materials				Signature		Month Day Year	
Printed/Typed Name							
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name				Signature		Month Day Year	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB no. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>CRS00</i>		Manifest Document No. <i>162001</i>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address TUSCO MARKETING COMPANY 600 WEST LAKE NORTH SEATTLE WA 98109-0000 (206) 640-7608				6. US EPA ID Number		A. State/Manifest Document Number		B. State Generator's ID	
4. Generator's Phone				5. Transporter 1 Company Name Marine Vacuum Service		C. State Transporter's ID		D. Transporter's Phone (206) 762-0240	
5. Transporter 1 Company Name				6. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name				8. US EPA ID Number		G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address HURTINGTON ENVIRONMENTAL, INC. KENT 20245 77TH AVENUE SOUTH KENT WA 98032				10. US EPA ID Number WAD991281767		I. State Facility's ID		J. Facility's Phone (206) 102-8000	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. <input type="checkbox"/> HM MATERIAL NOT REGULATED BY EPC						1	TT	1500	G
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above a) 10125-04 PIGGY BACKS - 10125-04 PIGGY BACKS (2)						K. Handling Codes for Wastes Listed Above 1)			
15. Special Handling Instructions and Additional Information <i>Still verify total quantity</i>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <i>Sandra A. Matthews</i>				Signature <i>[Signature]</i>		Month Day Year <i>07/02/01</i>			
17. Transporter 1 Acknowledgment of Receipt of Materials									
Printed/Typed Name <i>Sandra A. Matthews</i>				Signature <i>[Signature]</i>		Month Day Year <i>07/02/01</i>			
18. Transporter 2 Acknowledgment of Receipt of Materials									
Printed/Typed Name				Signature		Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name				Signature		Month Day Year			

GENERATOR

TRANSPORTER

FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CRSOG	Manifest Document No. 57172		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address TOSCO MARKETING COMPANY #5353 600 WEST LAKE NORTH SEATTLE WA 98109-0000 (206)640-7808		6. US EPA ID Number WAD981281767		A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone		7. Transporter 1 Company Name MAXINE VACUUM SERVICE DR. Burlington Environmental, Inc.		C. State Transporter's ID		D. Transporter's Phone 253-382-8044	
9. Designated Facility Name and Site Address BURLINGTON ENVIRONMENTAL, INC. KENT 20245 77TH AVENUE SOUTH KENT WA 98032		8. US EPA ID Number WAD981281767		E. State Transporter's ID		F. Transporter's Phone	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit	
a. MATERIAL NOT REGULATED BY DOT		No. Type		Quantity		Wt/Vol	
		1 TT		1500		G	
b.				CFR			
c.							
d.							
J. Additional Descriptions for Materials Listed Above a) 101428-01 - PURE WATER - NATOS WATER - NATOS WATER (1)				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Aug 3 rd EFRT							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Andrew Johnson				Signature <i>Andrew Johnson</i>		Month Day Year 8 1 01	
17. Transporter 1 Acknowledgment of Receipt of Materials				Signature <i>Dale Rhinehart</i>		Month Day Year 12 03 01	
Printed/Typed Name DALE RHINEHART				Signature		Month Day Year	
18. Transporter 2 Acknowledgment of Receipt of Materials				Signature		Month Day Year	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name				Signature		Month Day Year	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CRSOG		Manifest Document No. 63356		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address TOSCO MARKETING COMPANY 600 WEST LAKE NORTH #5353		4. Generator's Phone SEATTLE WA 98109-0000 (206)640-7608		6. US EPA ID Number WA090974521		A. State Manifest Document Number		B. State Generator's ID	
5. Transporter 1 Company Name Marine Vacuum Service		7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone (206)762-0240	
9. Designated Facility Name and Site Address KENT WA 98032		10. US EPA ID Number WA0901201767		E. State Transporter's ID		F. Transporter's Phone		G. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
a. MATERIAL NOT REGULATED BY DOT		1. TT		2000		G			
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above a) 10% OF PURE WATER, 90% WATER, WATER, WATER (1)						K. Handling Codes for Wastes Listed Above a)			
15. Special Handling Instructions and Additional Information Please mail manifest to: SARAH BENDRICK, 2900 CROW CANYON PLACE STE 4000 SAN BARTO, CA 94583. 2nd August EFRT									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name TD Johnson				Signature 				Month Day Year 18 16 01	
17. Transporter 1 Acknowledgment of Receipt of Materials									
Printed/Typed Name A. Johnson				Signature 				Month Day Year 18 16 01	
18. Transporter 2 Acknowledgment of Receipt of Materials									
Printed/Typed Name				Signature				Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name				Signature				Month Day Year	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2059-0094

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CRS9G		Manifest Document No. 64419		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address TOSCO MARKETING COMPANY # 5353 600 WEST LAKE NORTH SEATTLE WA 98109-0000 (206)840-7608						A. State/Manifest/Document Number							
4. Generator's Phone						B. State/Generator ID							
5. Transporter 1 Company Name Marine Vacuum Service				6. US EPA ID Number WAD980974521		C. State/Transporter's ID							
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone (206)762-0240							
9. Designated Facility Name and Site Address HURLINGTON ENVIRONMENTAL, INC. KENT 20245 77TH AVENUE SOUTH KENT WA 98032				10. US EPA ID Number WAD991281767		E. State/Transporter's ID							
						F. Transporter's Phone							
						G. State/Facility's ID							
						Facility's Phone (253) 872-8030							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. HAZARDOUS, NOT REGULATED BY DOT						No. 1 Type TT		1400		G			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above 1) 101(29-04) - HAZARDOUS - HAZARDOUS HAZARDOUS HAZARDOUS						K. Handling Codes for Wastes Listed Above 1)							
15. Special Handling Instructions and Additional Information Please mail manifest to: SARAH BENDRICK, 2000 CROW CANYON PLACE STE 4000 SAN RAMON, CA 94583. Sept. Visit													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name TD Johnson						Signature <i>[Signature]</i>						Month Day Year 9 7 01	
17. Transporter 1 Acknowledgment of Receipt of Materials													
Printed/Typed Name <i>[Signature]</i>						Signature <i>[Signature]</i>						Month Day Year 9 7 01	
18. Transporter 2 Acknowledgment of Receipt of Materials													
Printed/Typed Name						Signature						Month Day Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name						Signature						Month Day Year	

GENERATOR

TRANSPORTER

FACILITY

LSIU

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB no. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CFS08	Manifest Document No. 45360		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address TOSCO MARKETING COMPANY #5353 600 WEST LAKE NORTH SEATTLE WA 98109-0000 (206)640-7608					A. State Manifest Document Number			
4. Generator's Phone					B. State Generator ID			
5. Transporter 1 Company Name Marine Vacuum Service					C. State Transporter ID			
6. US EPA ID Number MAD990974521					D. Transporter's Phone (206) 762-0240			
7. Transporter 2 Company Name					E. State Transporter ID			
8. US EPA ID Number					F. Transporter's Phone			
9. Designated Facility Name and Site Address BURLINGTON ENVIRONMENTAL, INC. KENT 20245 77TH AVENUE SOUTH KENT, WA 98032					G. State Facility ID			
10. US EPA ID Number MAD991281767					H. Facility Phone (206) 872-8030			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. MATERIAL NOT REGULATED BY DOT					1	TT	6	
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above 1) 101429-04 - PURGE WATER - MATOS MATBOS MATRO6 MATRO7					K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Please mail manifest to: SARAH HENDRICK, 2000 CROW CANYON PLACE STE 4000 SAN RAMON, CA 94583. October Visit #1								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name TD Johnson					Signature 		Month Day Year 10/5/01	
17. Transporter 1 Acknowledgment of Receipt of Materials								
Printed/Typed Name 					Signature 		Month Day Year 10/5/01	
18. Transporter 2 Acknowledgment of Receipt of Materials								
Printed/Typed Name					Signature		Month Day Year	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.								
Printed/Typed Name					Signature		Month Day Year	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CFS06	Manifest Document No. 65368	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address TOSCO MARKETING COMPANY # 5353 600 WEST LAKE NORTH		6. US EPA ID Number		A. State Manifest Document Number		
4. Generator's Phone SEATTLE WA 98109-0000 (206)640-7608		7. Transporter 1 Company Name Marine Vacuum Service		B. State Generator's ID		
5. Transporter 1 Company Name		8. US EPA ID Number		C. State transporter's ID		
7. Transporter 2 Company Name		10. US EPA ID Number		D. Transporter's Phone (206) 742-0240		
9. Designated Facility Name and Site Address BURLINGTON ENVIRONMENTAL, INC. KENT 20245 77TH AVENUE SOUTH KENT, WA 98032		10. US EPA ID Number		E. State transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone (253) 872-8030		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a. MATERIAL NOT REGULATED BY DOT		1	1440	G		
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above				
a) 101529-04 PURGE WATER, INTOS, MATCO, NATRAL, WATER						
15. Special Handling Instructions and Additional Information Please mail manifest to: SARAH HENDRICK, 2000 CROW CANYON PLACE STE 4000 SAN RAMON, CA 94583. October Visit #2						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature		Month Day Year		
TD Johnson		[Signature]		10/5/01		
17. Transporter 1 Acknowledgment of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
[Signature]		[Signature]		[Month Day Year]		
18. Transporter 2 Acknowledgment of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
[Signature]		[Signature]		[Month Day Year]		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		
[Signature]		[Signature]		[Month Day Year]		