SECOR
International Incorporated

February 12, 2001

Mr. Timothy D. Johnson
TOSCO Marketing Company
3977 Leary Way NW
Seattle, WA 98107

RE: Results of Soil Sampling During Dispenser Upgrade
TOSCO Facility Number 4725
16510 Aurora Avenue North, Seattle, Washington
SECOR PN: 001.01102.500

Dear Mr. Johnson:

This letter report, prepared by SECOR International Incorporated (SECOR) for the TOSCO Marketing Company (TOSCO), presents the results of soil sampling during dispenser upgrade activities at TOSCO facility number 4725. The soil sampling work was completed to investigate the soil quality beneath the fuel dispensers and product lines during the upgrade activities.

SITE DESCRIPTION AND BACKGROUND

The site is an active service station located in a predominantly commercial area at 16510 Aurora Avenue North in Seattle, Washington. On-site facilities include a service station building equipped with three vehicle service bays; two pump islands (each of which is equipped with three fuel dispensers) and three underground storage tanks (USTs). The USTs consist of two, 10,000 gallon gasoline tanks and one 5,000 gallon diesel tank. The pump islands are situated west of the service station building and oriented parallel to Aurora Avenue. Diesel is dispensed from two dispensers, each located at the north end of each pump island. Gasoline is dispensed from the remaining four dispensers. The site location is presented on Figure 1 and the facility layout is presented on Figure 2.

SECOR reviewed the results of two previously completed investigations. The investigations consisted of a subsurface soil investigation completed by O'Sullivan Omega, Inc. (O'Sullivan) in July 1994 and a soil gas survey completed by Pacific Environmental Group Inc. (PEG) in September 1997. The following summarizes the results of the investigations.

Subsurface Soil Investigation – July 1994

The purpose of the subsurface investigation was to determine the extent and magnitude of a suspected subsurface release reported to Ecology on July 21, 1994. The exact origin and nature of the release was not known. The investigation consisted of collecting soil samples from six soil borings advanced using a hand auger to a maximum depth of 7.0 feet below ground surface (bgs). The soil borings were advanced in the vicinity of the fuel dispensers. Soil samples collected from the borings were submitted for analysis of various hydrocarbon constituents. Analytical results were compared to the Washington Department of Ecology Regulation 'Model Toxics Control

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Act' Method A Cleanup Levels (MTCA A Levels). The results indicated that soils containing hydrocarbon concentrations exceeding the MTCA A Levels were present in the vicinity of the diesel dispenser at the north end of the west pump island. Soil samples collected from boreholes adjacent to the remaining dispensers contained hydrocarbon concentrations less than the MTCA A Levels. Results were summarized in O'Sullivan's report dated August 22, 1994.

Soil Gas Survey Results – October 1997

The highest vapor readings during the soil gas vapor survey were recorded from beneath the gasoline dispenser located at the south end of the east pump island. Relatively high readings were also recorded from beneath the diesel dispenser at the north end of the west pump island and from beneath the center gasoline dispenser on the west pump island. Relatively low vapor readings were recorded from the other dispensers and in the vicinity of the UST basin. Results were summarized in PEG's report dated October 29, 1997.

SOIL SAMPLING

SECOR collected soil samples on January 12, 2001 during fuel dispenser upgrade activities. Upon SECOR's arrival on-site, removal of the pump island and six fuel dispensers had been completed and the product lines in the vicinity of the pump islands had been exposed by the TOSCO contractor. The excavation extended to a depth of approximately 2.0 feet below ground surface (bgs) in the former locations of the fuel dispensers and along the length of the product lines adjacent to the fuel dispensers. The exposed material consisted of pea gravel fill overlying the native soils. In order to expose and sample the native soils beneath the fuel dispensers and product lines, the depth of the excavation was extended by hand digging an additional 0.5 to 1.0 feet bgs in selected sample locations. The site layout, extent of the excavation and soil sample locations are shown on Figure 2. The extent of the excavation in the vicinity of the west pump island is shown on Photo 2. The figures and photographs are presented following the text.

Soil samples were collected from soils in the following locations:

- Beneath the former locations of each fuel dispenser at depths ranging from 1.5 feet to 2.7 feet below ground surface (bgs). Sample identifications: P1-1, P2-1, P3-1, P4-1, P5-1 and P6-1;

- Beneath the product lines at depths ranging from 1.7 feet to 2.0 bgs feet at approximately 15 foot horizontal intervals along the lengths of the lines. Sample identifications L1-1, L1-2, L1-3 and L1-4, and;

- From approximately three yards of soils temporarily displaced during the removal of the diesel dispensers. Sample identification S1-1.

The sampling frequency was in accordance with the Washington State Department of Ecology (Ecology) document '*Guidance for Site Checks and Site Assessments for Underground Storage Tanks*' revised October 1992.

Each soil sample was field-screened and lithologically described by SECOR personnel experienced with soil investigative work. In addition, each soil sample was prepared for possible laboratory analysis. The soil sampling and field screening procedures are described in Attachment 1. Field screening of soil samples included visual observation and vapor headspace analysis using a photoionization detector (PID). Field screening results are included in Table 1.

SOIL SAMPLING RESULTS

The soil lithology consisted generally of pea gravel fill from ground surface to a depth of approximately 1.0 foot bgs. Beneath the fill, the lithology consisted of sand with some silt and trace gravel to a depth of 2.7 feet bgs (the maximum depth of the excavation).

Field screening results indicated the headspace vapors ranged from 1.7 ppm to 1730 ppm. The highest vapors (500 ppm and over) were recorded in soil samples collected from the vicinity of the diesel dispenser and one of the gasoline dispensers on the west pump island (closest to Aurora Avenue). Photos 3 and 4 show the approximate former locations of each of the diesel dispensers.

ANALYTICAL RESULTS

Eight soil samples were submitted for laboratory analysis. Selection of the samples for analysis was based on field screening results and in compliance with Ecology's recommended sampling frequency. Six of the samples submitted originated from beneath the dispensers (one from beneath each dispenser), one sample originated from beneath the product lines and one sample originated from the approximately three yards of displaced soil.

All of the samples originating from beneath the dispensers and the displaced soil were submitted for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and Total Petroleum Hydrocarbons in the gasoline range (TPH-G) by Ecology Method NWTPH-Gx. Additional analysis for diesel range hydrocarbons and lube oil range hydrocarbons by NWTPH-Dx was requested for soil samples collected from beneath the diesel dispensers and the displaced soil. One of the four soil samples collected from beneath the product lines was submitted for methyltert-butyl ether (MTBE) analysis using EPA method 8021B.

Analytical results were compared to the regulatory standards contained in the Washington Department of Ecology Regulation 'Model Toxics Control Act' Method A Cleanup Levels (MTCA A Levels). Analytical results are presented on Table 1 and are summarized as follows.

Three of the six soil samples collected from beneath the dispensers contained hydrocarbon concentrations above the MTCA A Levels, specifically:

- Soil sample P3-1, collected from beneath the diesel dispenser on the east pump island contained diesel range hydrocarbons (TPH-D) above the MTCA A Levels.

- Sample P4-1 collected from beneath the west pump island contained TPH-G, ethylbenzene, total xylenes and TPH-D concentrations above the MTCA A Levels.

- Sample P5-1 collected from beneath the center gasoline dispenser on the west pump island contained xylenes and TPH-G concentrations above the MTCA A Levels.

Hydrocarbon concentrations were highest in sample P4-1 (240 mg/kg for total xylenes, 3070 mg/kg for TPH-G and 1840 mg/kg for TPH-D).

The sample collected from the three yards of displaced soil contained TPH-D concentrations above the MTCA A Levels. These soils were replaced in the vicinity of the former location of diesel dispenser at the north end of the west pump island.

For the constituents analyzed, no other exceedences of the standards were noted in any of the other samples submitted. A copy of the laboratory analytical report and chain-of-custody documentation is included in Attachment 2.

SUMMARY

SECOR completed soil sampling during dispenser upgrade activities at TOSCO Facility # 4725 in Seattle, Washington. Results of the soil sampling indicate hydrocarbon concentrations greater than the MTCA A Levels were present in soil samples collected from beneath both diesel dispensers at the north ends of both pump islands and beneath one of the gasoline dispensers in the center of the west pump island.

The analytical results indicate the highest concentrations were in the vicinity of the north end of the west pump island.

SECOR appreciates the opportunity to provide environmental service to TOSCO on this project. If you have any questions regarding this report, please contact the undersigned at (425) 636-6210.

Sincerely,

SECOR International Incorporated

Marc Sauze
Senior Engineer

for:
Brian Pletcher, R.G.
Senior Geologist

MS/BP/ed

Attachments

Table 1
Soil Sampling Results
Dispenser Upgrade - January 12, 2001
TOSCO 4725 - 16510 Aurora Ave. N. Seattle, WA
SECOR PN: 001.01102.500

Identification Data		Field Tests		BTEX mg/kg							
Sample ID	Depth Below Grade (feet)	Headspace Vapor (ppm)	Sheen Test	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE
P1-1	1.5	2.8	None	<0.0500	<0.0500	<0.0500	<0.100	<5.00	-	-	-
P2-1	2.3	5.7	None	<0.0500	<0.0500	<0.0500	<0.100	<5.00	-	-	-
P3-1	2.7	11.1	None	<0.0500	<0.0500	<0.0500	<0.100	21.3	**1030**	54.1	-
P4-1	1.5	1170	Slight	<2.50	12.6	**22.1**	**240**	**3070**	**1840**	<275	-
P5-1	1.5	1730	Slight	<2.50	9.50	<2.50	**166**	**1550**	-	-	-
P6-1	2.0	5.6	None	<0.0500	<0.0500	<0.0500	<0.100	<5.00	-	-	-
L1-1	2.0	500	Slight	-	-	-	-	-	-	-	0
L1-2	2.1	3.7	None	-	-	-	-	-	-	-	-
L1-3	1.8	5.9	None	-	-	-	-	-	-	-	-
L1-4	1.7	1.7	None	-	-	-	-	-	-	-	-
S1-1	N/A	46.0	None	<0.0500	<0.0500	<0.0500	0.992	38.9	**588**	<275	-
MTCA[1] Cleanup Levels				*0.5*	*40.0*	*20.0*	*20.0*	*100.0*	*200.0*	*200.0*	n.s.

Notes

- Analytical test not performed

[1] MTCA - Washington State Department of Ecology (Ecology) regulation "Model Toxics Control Act" Method A Cleanup Levels for Residential Soil (WAC 173-340)

Bold - Concentrations exceed MTCA A clean-up levels

MTBE - Methyltert-buytl ether

Benzene, Ethylbenzene, Toluene, Total Xylenes and MTBE analyzed using EPA Method 8021B

TPH-G - Total Petroleum Hydrocarbons in the gasoline range by Ecology Method NWTPH-G

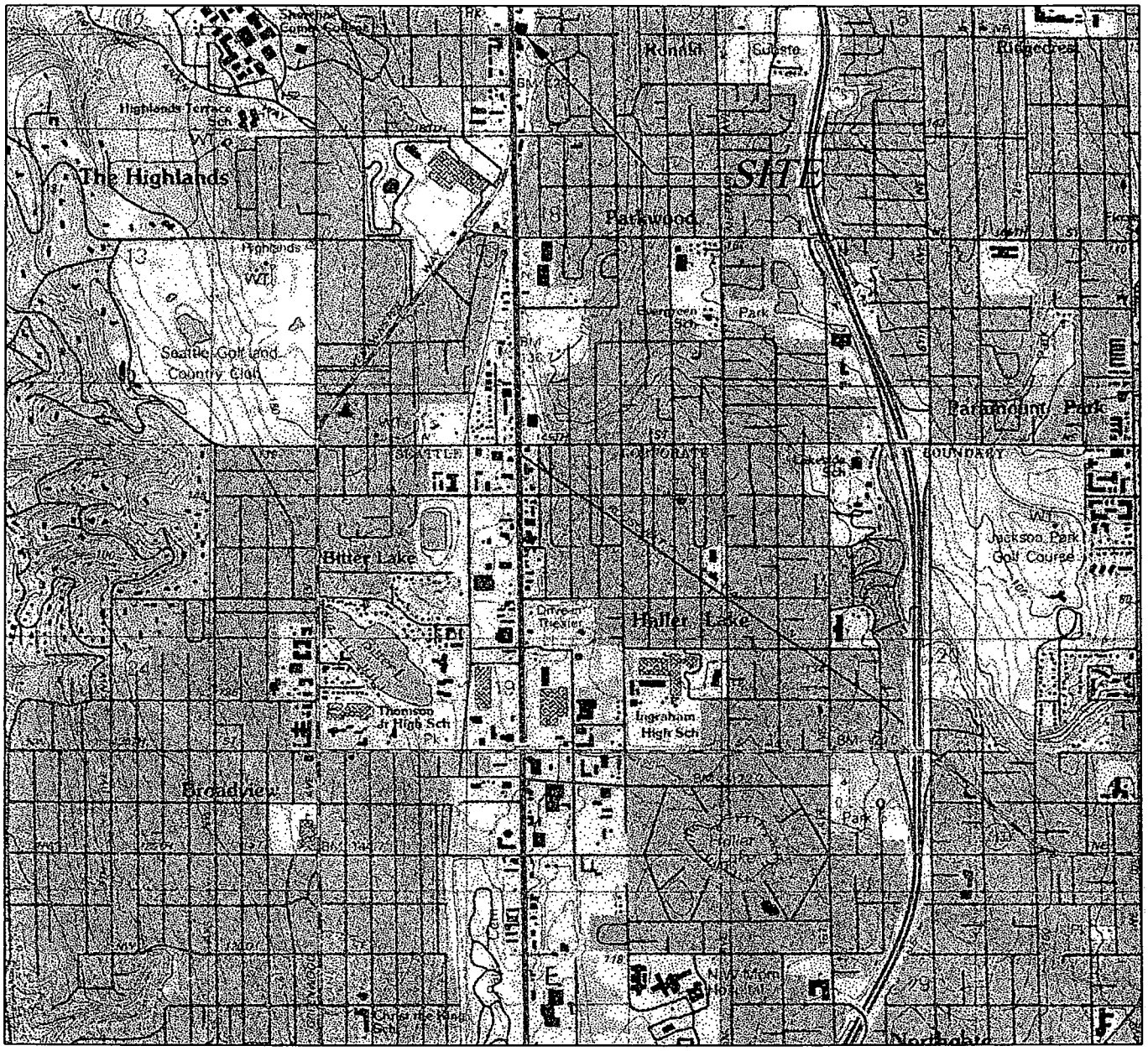
TPH-D - Total Petroleum Hydrocarbons in the diesel range, analyzed by Ecology Method NWTPH-Dx

TPH-O - Total Petroleum Hydrocarbons in the oil range, analyzed by Ecology Method NWTPH-Dx

mg/kg = milligrams per kilogram

n.s. - No Current Standard

N/A - Not Applicable



WASHINGTON

North

0 1/2 1

SCALE (MILES)

REFERENCE: USGS 7.5 X 15 MINUTE QUADRANGLE; SEATTLE NORTH, WASHINGTON; 1983

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SITE LOCATION MAP

TOSCO 4725
16510 AURORA AVENUE NORTH
SEATTLE, WASHINGTON

FIGURE: 1

JOB#: 001.01102.500 APPR: DWN: SES DATE: 1/18/01

COMMERCIAL

RESIDENTIAL

COMMERCIAL

165th STREET

P2-1	mg/kg
TPH-G	ND
B	ND
T	ND
E	ND
X	ND

SERVICE STATION BUILDING

UST BASIN

10,000 GALLON SUPER

10,000 GALLON REGULAR

5,000 GALLON DIESEL

PRODUCT LINE TRENCH

DIESEL P3-1 L1-2

GASOLINE P2-1 L1-3

GASOLINE P1-1

P1-1	mg/kg
TPH-G	ND
B	ND
T	ND
E	ND
X	ND

P3-1	mg/kg
TPH-G	21.3
B	ND
T	ND
E	ND
X	ND
TPH-D	1,030
TPH-O	54.1

FUEL DISPENSERS & PUMP ISLAND

L1-1

P4-1 DIESEL

P5-1 GASOLINE

L1-4

P6-1 GASOLINE

L1-1	mg/kg
MTBE	ND

CANOPY

P4-1	mg/kg
TPH-G	3,070
B	ND
T	12.6
E	22.1
X	240
TPH-D	1,840
TPH-O	ND

P5-1	mg/kg
TPH-G	1,550
B	ND
T	9.50
E	ND
X	166

P6-1	mg/kg
TPH-G	ND
B	ND
T	ND
E	ND
X	ND

AURORA AVENUE NORTH

North

0 20 40

APPROXIMATE SCALE (FEET)

ANALYTE

TPH-G	TOTAL PETROLEUM HYDROCARBONS GASOLINE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
MTBE	METHEYLTERT-BUTYL ETHER
TPH-D	TOTAL PETROLEUM HYDROCARBONS DIESEL
TPH-O	TOTAL PERTOLEUM HYDROCARBONS LUBE-OIL

RESULTS ARE IN mg/kg

LEGEND

- SITE BOUNDARY
- LIMITS OF EXCAVATION
- FENCE
- P6-1 SAMPLE LOCATION
- PUMP ISLAND/DISPENSER

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SOIL SAMPLE LOCATIONS & ANALYTICAL RESULTS
FUEL DISPENSER UPGRADE
: TOSCO 4725
16510 AURORA AVENUE NORTH
SEATTLE, WASHINGTON

FIGURE: 2

JOB#: 001.01102.500 APPR: DWN: SES DATE: 1/17/01

DWG: 01011025(2)

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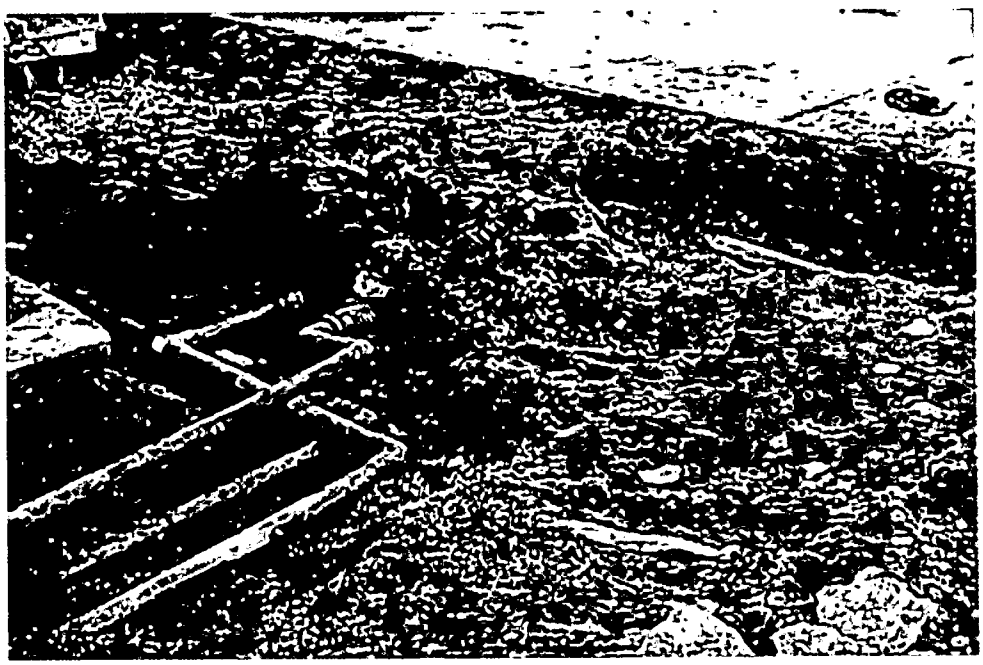

PHOTO 3: Former location of diesel dispenser, North end of West pump island.

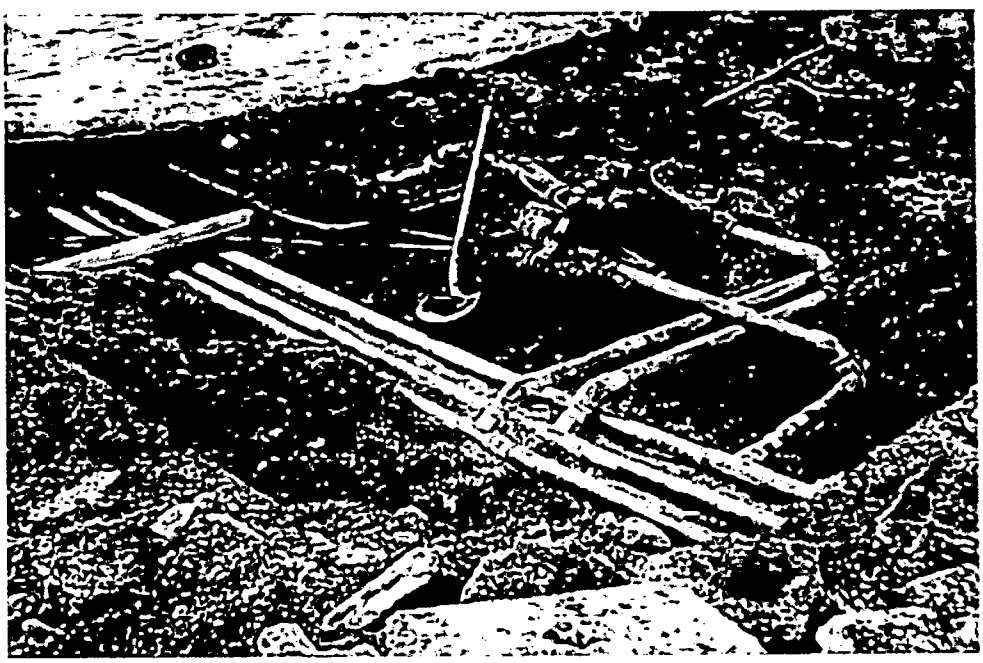

PHOTO 4: Former location of diesel dispenser, North end of East pump island.

PHOTO 1: Service station as viewed from the West

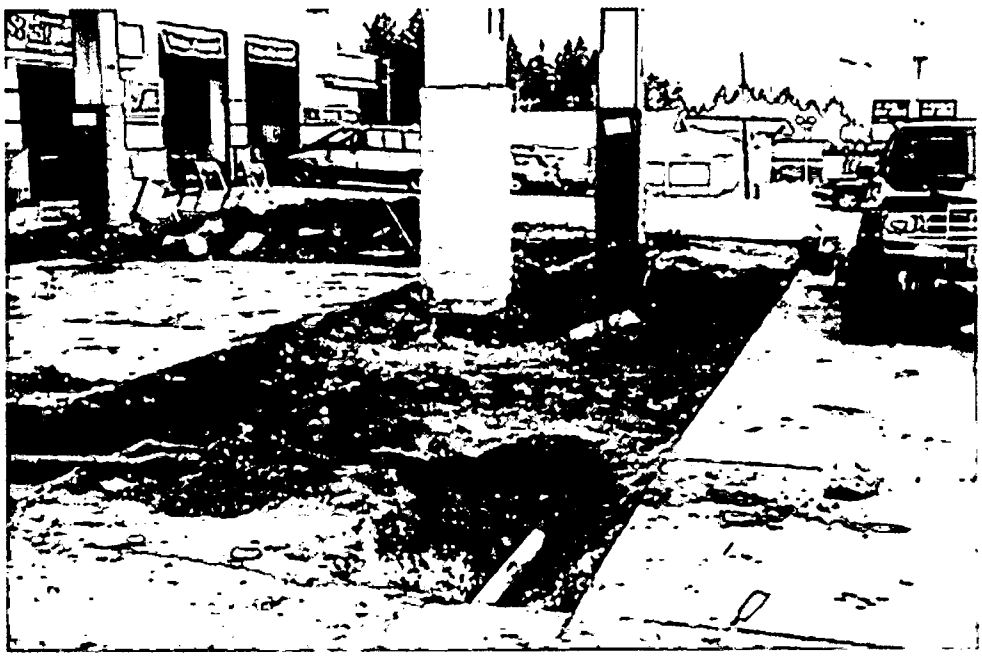

PHOTO 2: West pump island as viewed from North. Former location of diesel dispenser is in the foreground.

ATTACHMENT 1
SOIL SAMPLING PROCEDURES

SOIL SAMPLING PROCEDURES

SOIL SAMPLE COLLECTION

Soil samples were collected at selected locations and in accordance with the frequency and locations recommended in the Washington State Department of Ecology document '*Guidance for Site Checks and Site Assessments for Underground Storage Tanks*' Revised October 1992.

A log was compiled during soil sampling, including descriptions of the soil types, color, texture, degree of consolidation, and moisture content. Soil types were based on the Unified Soil Classification System.

FIELD SCREENING OF SOIL SAMPLES

Soil samples were field screened for visual or olfactory indications of petroleum hydrocarbons, tested for sheen by water immersion, and tested for headspace vapor concentrations using a portable photoionization detector (PID).

Data generated from field screening instruments were considered qualitative in nature. Although semi-quantitative data are generated using a PID, the results cannot be relied upon with the confidence of a laboratory analysis. Data generated from this type of analysis may provide the following:

- Identification of soil, water, air, and waste locations that have a high likelihood of showing contamination through subsequent laboratory analysis.
- Real-time data used for health and safety consideration during site reconnaissance and subsequent intrusive activities.
- Quantitative data, if contaminant is known and the instrument is calibrated to that substance.

FIELD SCREENING USING VAPOR HEADSPACE TESTING

The instrument used for headspace vapor testing was a MiniRAE® Plus PID. Prior to use, this instrument was calibrated to a known isobutylene calibrating standard (100 parts per million [ppm]), in accordance with the manufacturer's specifications.

The following sequential steps were completed for each sample analyzed:

- A representative portion of the soil sample was collected directly from exposed soils into a new, sealable Ziploc-type plastic bag. The bag was immediately sealed.
- The sealed bag with sample was allowed to sit at field ambient temperature for several minutes.
- One end of the bag seal was slightly opened and the intake port of a PID was carefully inserted through the opening.
- The stabilized numerical value was observed and recorded onto the boring log form.

This number does not represent a concentration of volatiles in ppm; it is a relative measure of the amount of ionized compounds present. As the exact chemical species present is unknown, the units of concentration are referred to as ppm of isobutylene.

Vapor headspace screening is only applicable as a screening method for the presence of ionizable compounds with first ionization potentials of less than 10.6 electron volts. In addition, variables that may affect measurable concentrations and unaccounted for in this procedure include, but are not limited to: temperature, soil moisture content, and soil organic content. Vapor headspace screening is not designed for screening for evidence of contamination by semi-volatile or non-volatile organic compounds or for the presence of elemental metals or compounds.

EQUIPMENT CALIBRATION AND MAINTENANCE

All instruments and equipment used during this project were operated, calibrated, and maintained according to the manufacturers' guidelines and recommendations. Operation, calibration, and maintenance were performed by personnel who have been properly trained in these procedures.

Field screening instruments used were appropriate for detection of petroleum hydrocarbons such as benzene, toluene, and xylenes. Instruments were calibrated and maintained according to manufacturers' instructions.

ATTACHMENT 2
ANALYTICAL LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P1-1	B1A0178-01	Soil	01/12/01 11:30	01/12/01 14:45
P2-1	B1A0178-02	Soil	01/12/01 11:45	01/12/01 14:45
P3-1	B1A0178-03	Soil	01/12/01 12:00	01/12/01 14:45
P4-1	B1A0178-04	Soil	01/12/01 12:15	01/12/01 14:45
P5-1	B1A0178-05	Soil	01/12/01 12:30	01/12/01 14:45
P6-1	B1A0178-06	Soil	01/12/01 13:00	01/12/01 14:45
S1-1	B1A0178-07	Soil	01/12/01 13:15	01/12/01 14:45
L1-i	B1A0178-08	Soil	01/12/01 13:30	01/12/01 14:45

Jeanne Garthwaite

Jeanne Garthwaite, Project Manager

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Secor-Redmond	Project: TOSCO #4725	
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Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-1 (B1A0178-01) Soil Sampled: 01/12/01 11:30 Received: 01/12/01 14:45									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	1A16015	01/16/01	01/17/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	"	"	"	"	"	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	*92.9 %*	*50-150*			"	"	"	"	
Surrogate: 4-BFB (PID)	*93.2 %*	*50-150*			"	"	"	"	
P2-1 (B1A0178-02) Soil Sampled: 01/12/01 11:45 Received: 01/12/01 14:45									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	1A16015	01/16/01	01/17/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	"	"	"	"	"	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	*91.5 %*	*50-150*			"	"	"	"	
Surrogate: 4-BFB (PID)	*92.2 %*	*50-150*			"	"	"	"	
P3-1 (B1A0178-03) Soil Sampled: 01/12/01 12:00 Received: 01/12/01 14:45									
Gasoline Range Hydrocarbons	**21.3**	5.00	mg/kg dry	1	1A16015	01/16/01	01/17/01	NWTPH-Gx/8021B	G-01
Benzene	ND	0.0500	"	"	"	"	"	"	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	*89.3 %*	*50-150*			"	"	"	"	
Surrogate: 4-BFB (PID)	*89.5 %*	*50-150*			"	"	"	"	

Jeanne Garthwaite, Project Manager

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

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
P4-1 (B1A0178-04) Soil Sampled: 01/12/01 12:15 Received: 01/12/01 14:45									
Gasoline Range Hydrocarbons	**3070**	250	mg/kg dry	50	1A16015	01/16/01	01/17/01	NWTPH-Gx/8021B	
Benzene	ND	2.50	"	"	"	"	"	"	
Toluene	**12.6**	2.50	"	"	"	"	"	"	
Ethylbenzene	**22.1**	2.50	"	"	"	"	"	"	
Xylenes (total)	**240**	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	*180 %*	*50-150*			"	"	"	"	*S-06*
Surrogate: 4-BFB (PID)	*67.9 %*	*50-150*			"	"	"	"	
P5-1 (B1A0178-05) Soil Sampled: 01/12/01 12:30 Received: 01/12/01 14:45									
Gasoline Range Hydrocarbons	**1550**	250	mg/kg dry	50	1A16015	01/16/01	01/17/01	NWTPH-Gx/8021B	
Benzene	ND	2.50	"	"	"	"	"	"	
Toluene	**9.50**	2.50	"	"	"	"	"	"	
Ethylbenzene	ND	2.50	"	"	"	"	"	"	
Xylenes (total)	**166**	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	*157 %*	*50-150*			"	"	"	"	*S-06*
Surrogate: 4-BFB (PID)	*129 %*	*50-150*			"	"	"	"	
P6-1 (B1A0178-06) Soil Sampled: 01/12/01 13:00 Received: 01/12/01 14:45									
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	1A16015	01/16/01	01/17/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	"	"	"	"	"	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	ND	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	*89.8 %*	*50-150*			"	"	"	"	
Surrogate: 4-BFB (PID)	*90.9 %*	*50-150*			"	"	"	"	

JmG

Jeanne Garthwaite, Project Manager

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

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
S1-1 (B1A0178-07) Soil Sampled: 01/12/01 13:15 Received: 01/12/01 14:45									
Gasoline Range Hydrocarbons	**38.9**	5.00	mg/kg dry	1	1A16015	01/16/01	01/17/01	NWTPH-Gx/8021B	
Benzene	ND	0.0500	"	"	"	"	"	"	
Toluene	ND	0.0500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0500	"	"	"	"	"	"	
Xylenes (total)	**0.992**	0.100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	*91.4 %*	*50-150*			"	"	"	"	
Surrogate: 4-BFB (PID)	*95.6 %*	*50-150*			"	"	"	"	

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

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
P3-1 (B1A0178-03) Soil Sampled: 01/12/01 12:00 Received: 01/12/01 14:45									
Diesel Range Hydrocarbons	**1030**	10.0	mg/kg dry	1	1A15007	01/15/01	01/17/01	NWTPH-Dx	
Lube Oil Range Hydrocarbons	**54.1**	25.0	"	"	"	"	"	"	
Surrogate: 2-FBP	*114 %*	*50-150*			"	"	"	"	
Surrogate: Octacosane	*101 %*	*50-150*			"	"	"	"	
P4-1 (B1A0178-04) Soil Sampled: 01/12/01 12:15 Received: 01/12/01 14:45									
Diesel Range Hydrocarbons	**1840**	110	mg/kg dry	11	1A15007	01/15/01	01/17/01	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	275	"	"	"	"	"	"	
Surrogate: 2-FBP	*%*	*50-150*			"	"	"	"	*S-02*
Surrogate: Octacosane	*94.1 %*	*50-150*			"	"	"	"	
S1-1 (B1A0178-07) Soil Sampled: 01/12/01 13:15 Received: 01/12/01 14:45									
Diesel Range Hydrocarbons	**588**	110	mg/kg dry	11	1A15007	01/15/01	01/17/01	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	275	"	"	"	"	"	"	
Surrogate: 2-FBP	*87.0 %*	*50-150*			"	"	"	"	
Surrogate: Octacosane	*95.7 %*	*50-150*			"	"	"	"	

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

MTBE Second-Column Confirmation by EPA Method 8021B

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L1-1 (B1A0178-08) Soil	**Sampled: 01/12/01 13:30**	**Received: 01/12/01 14:45**							
Methyl tert-butyl ether	0	0	mg/kg dry	20	1A16015	01/16/01	01/17/01	EPA 8021B	
Methyl tert-butyl ether	**0**	0	mg/kg dry	20	1A16015	01/16/01	01/17/01	EPA 8021B	
Surrogate: 4-BFB (PID)	*112 %*	*50-150*			"	"	"	"	

JmG

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P1-1 (B1A0178-01) Soil	**Sampled: 01/12/01 11:30**	**Received: 01/12/01 14:45**							
Dry Weight	**91.4**	1.00	%	1	1A24012	01/24/01	01/25/01	BSOPSPL003R07	
P2-1 (B1A0178-02) Soil	**Sampled: 01/12/01 11:45**	**Received: 01/12/01 14:45**							
Dry Weight	**91.7**	1.00	%	1	1A24012	01/24/01	01/25/01	BSOPSPL003R07	
P3-1 (B1A0178-03) Soil	**Sampled: 01/12/01 12:00**	**Received: 01/12/01 14:45**							
Dry Weight	**89.0**	1.00	%	1	1A24012	01/24/01	01/25/01	BSOPSPL003R07	
P4-1 (B1A0178-04) Soil	**Sampled: 01/12/01 12:15**	**Received: 01/12/01 14:45**							
Dry Weight	**89.2**	1.00	%	1	1A24012	01/24/01	01/25/01	BSOPSPL003R07	
P5-1 (B1A0178-05) Soil	**Sampled: 01/12/01 12:30**	**Received: 01/12/01 14:45**							
Dry Weight	**89.1**	1.00	%	1	1A24012	01/24/01	01/25/01	BSOPSPL003R07	
P6-1 (B1A0178-06) Soil	**Sampled: 01/12/01 13:00**	**Received: 01/12/01 14:45**							
Dry Weight	**88.7**	1.00	%	1	1A24012	01/24/01	01/25/01	BSOPSPL003R07	
S1-1 (B1A0178-07) Soil	**Sampled: 01/12/01 13:15**	**Received: 01/12/01 14:45**							
Dry Weight	**92.5**	1.00	%	1	1A24012	01/24/01	01/25/01	BSOPSPL003R07	
L1-1 (B1A0178-08) Soil	**Sampled: 01/12/01 13:30**	**Received: 01/12/01 14:45**							
Dry Weight	**88.6**	1.00	%	1	1A24012	01/24/01	01/25/01	BSOPSPL003R07	

JmG
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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

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 1A16015: Prepared 01/16/01 Using EPA 5030B (MeOH)										
Blank (1A16015-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)	*3.79*		"	*4.00*		*94.7*	*50-150*			
Surrogate: 4-BFB (PID)	*3.73*		"	*4.00*		*93.3*	*50-150*			
LCS (1A16015-BS1)										
Gasoline Range Hydrocarbons	22.6	5.00	mg/kg wet	25.0		90.4	70-130			
Surrogate: 4-BFB (FID)	*3.70*		"	*4.00*		*92.5*	*50-150*			
Duplicate (1A16015-DUP1)					**Source: B1A0194-01**					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND			4.16	50	
Surrogate: 4-BFB (FID)	*4.11*		"	*4.46*		*92.2*	*50-150*			
Matrix Spike (1A16015-MS1)					**Source: B1A0178-02**					
Benzene	0.492	0.0500	mg/kg dry	0.545	ND	90.3	60-140			
Toluene	0.521	0.0500	"	0.545	ND	91.7	60-140			
Ethylbenzene	0.548	0.0500	"	0.545	ND	96.3	60-140			
Xylenes (total)	1.65	0.100	"	1.64	ND	95.9	60-140			
Surrogate: 4-BFB (PID)	*4.21*		"	*4.36*		*96.6*	*50-150*			
Matrix Spike Dup (1A16015-MSD1)					**Source: B1A0178-02**					
Benzene	0.492	0.0500	mg/kg dry	0.545	ND	90.3	60-140	0	20	
Toluene	0.516	0.0500	"	0.545	ND	90.8	60-140	0.964	20	
Ethylbenzene	0.547	0.0500	"	0.545	ND	96.1	60-140	0.183	20	
Xylenes (total)	1.63	0.100	"	1.64	ND	94.7	60-140	1.22	20	
Surrogate: 4-BFB (PID)	*4.02*		"	*4.36*		*92.2*	*50-150*			

JmG
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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

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 1A15007: Prepared 01/15/01 Using EPA 3550B										
Blank (1A15007-BLK1)										
Diesel Range Hydrocarbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydrocarbons	ND	25.0	"							
Surrogate: 2-FBP	*9.67*		"	*10.7*		*90.4*	*50-150*			
Surrogate: Octacosane	*10.4*		"	*10.7*		*97.2*	*50-150*			
LCS (1A15007-BS1)										
Diesel Range Hydrocarbons	67.5	10.0	mg/kg wet	66.7		101	60-140			
Surrogate: 2-FBP	*10.3*		"	*10.7*		*96.3*	*50-150*			
Duplicate (1A15007-DUP1)					**Source: B1A0128-03**					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	"		ND				50	
Surrogate: 2-FBP	*12.0*		"	*12.9*		*93.0*	*50-150*			
Surrogate: Octacosane	*12.4*		"	*12.9*		*96.1*	*50-150*			
Duplicate (1A15007-DUP2)					**Source: B1A0159-05**					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry		ND				50	
Lube Oil Range Hydrocarbons	ND	25.0	"		ND				50	
Surrogate: 2-FBP	*12.2*		"	*12.9*		*94.6*	*50-150*			
Surrogate: Octacosane	*12.8*		"	*12.9*		*99.2*	*50-150*			

JmG

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

MTBE Second-Column Confirmation by EPA Method 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A16015: Prepared 01/16/01 Using EPA 5030B (MeOH)										
Blank (1A16015-BLK1)										
Methyl tert-butyl ether	0	0	mg/kg wet							
Surrogate: 4-BFB (PID)	*3.73*		"	*4.00*		*93.3*	*50-150*			
LCS (1A16015-BS2)										
Methyl tert-butyl ether	0.484	0	mg/kg wet	0.500		96.8	0-200			
Surrogate: 4-BFB (PID)	*3.98*		"	*4.00*		*99.5*	*50-150*			
Matrix Spike (1A16015-MS1)					**Source: B1A0178-02**					
Methyl tert-butyl ether	0.516	0	mg/kg dry	0.545	0	94.7	0-200			
Surrogate: 4-BFB (PID)	*4.21*		"	*4.36*		*96.6*	*50-150*			
Matrix Spike Dup (1A16015-MSD1)					**Source: B1A0178-02**					
Methyl tert-butyl ether	0.513	0	mg/kg dry	0.545	0	94.1	0-200	0.583	200	
Surrogate: 4-BFB (PID)	*4.02*		"	*4.36*		*92.2*	*50-150*			

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

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 1A24012: Prepared 01/24/01 Using Dry Weight										
Blank (1A24012-BLK1)										
Dry Weight	100	1.00	%							

JMG

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Secor-Redmond	Project: TOSCO #4725	
12034-134th Court NE.,Suite 102	Project Number: 001-01102-500	**Reported:**
Redmond WA, 98052	Project Manager: Mark Sauze	01/26/01 15:25

Notes and Definitions

G-01	Results reported for the gas range are primarily due to overlap from diesel range hydrocarbons.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
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

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

CHAIN OF CUSTODY REPORT

Work Order # B1A0178

REPORT TO: SECOR International INC.
ATTENTION: Marc Sauze
ADDRESS: 12034. 134th Ct NE
REDMOND, WA
PHONE: 425.636.6210 FAX: 425.372.1650
PROJECT NAME: TOSCO - 4725
PROJECT NUMBER: 001-01102-500
SAMPLED BY: Marc Sauze

INVOICE TO: TOSCO
ATTENTION: Tim Johnson
ADDRESS: 3977 Leary Way NW
SEATTLE, WA
P.O. NUMBER: TOSCO 4725 NCA QUOTE #:

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [X] 10 Standard | 7 | 5 | 4 | 3 | 2 | 1 | Same Day
Fuels & Hydrocarbon Analyses: 5 Standard | 3-4 | 2 | 1 | Same Day
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NCA SAMPLE ID (Laboratory Use Only)	NWTPH-G/BTEX	NWTPH-Dx	MTBE 8021	MATRIX (W, S, A, O)	# OF CONTAINERS	COMMENTS
1.	P1-1	1/12/01 11:30AM		X					01
2.	P2-1	1/12/01 11:45AM		X					02
3.	P3-1	1/12/01 12:00AM		X	X				03
4.	P4-1	1/12/01 12:15PM		X	X				04
5.	P5-1	1/12/01 12:30PM		X					05
6.	P6-1	1/12/01 1:00PM		X					06
7.	S1-1	1/12/01 1:15PM		X	X				07
8.	L1-1	1/12/01 1:30PM		X	X	X			08
9.	L1-2	1/12/01 1:30PM		X	X	X			HOLD 09
10.	L1-3	1/12/01 1:45PM		X	X	X			HOLD 10
11.	L1-4	1/12/01 1:45PM		X	X	X			HOLD 11

Analysis Request: B.O.K. NO

RELINQUISHED BY (Signature): Marc Sauze DATE:
PRINT NAME: Marc Sauze FIRM: TIME:
RELINQUISHED BY (Signature): DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY (Signature): Cathy Nichols DATE: 1/12/01
PRINT NAME: C. Nichols FIRM: NCA TIME: 14:45
RECEIVED BY (Signature): DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:
SAMPLES WERE NOT @ 2-6C UPON RECEIPT
14.3° w/o

PAGE OF

CHC Rev 8, 1/96

TOSCO CORP (#254725-30713)
LUST 5339 unocal station #4725
UST 8430

SECOR International Incorporated
Redmond Office
12034 - 134th Court NE, Suite 102
Redmond, WA 98007
Phone: (425) 372-1600
FAX: (425) 372-1650

LETTER OF TRANSMITTAL

Date: 2-28-01

Attn: Ben Forson, Environmental Engineer

Company: Washington Department of Ecology

Address: 3190 160th Ave SE
Bellevue, WA 98008-5452

RE: Results of Soil Sampling During Dispensor Upgrade
TOSCO Facility Number 4725
16510 Aurora Avenue North, Seattle, Washington

SECOR PN: 001.01102.500

RECEIVED
MAR 06 2001
DEPT. OF ECOLOGY

ENCLOSED:		FOR:	
( )	Proposal	( )	As Requested
( )	Contract	(X)	Review
( )	Report	( )	Your Information
(X)	Letter Report	( )	Approval
( )	Other: _____	( )	Signature
		( )	Return
		( )	Other: _____

Comments:

Signature: _____
Name: Marc Sauze
Title: Senior Engineer

crm
ENTERED
12/6/01

Cc: Tim Johnson, TOSCO Marketing, Inc.

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