

LUST 471259 TOSCO # 6380
Bellingham

DATE: March 8, 2002

TOSCO CORPORATION
GROUNDWATER MONITORING REPORT

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

WORK PERFORMED THIS QUARTER(S) [First - 2002]:

- Monitored, purged, and sampled 4 groundwater monitoring wells.

WORK PROPOSED FOR NEXT QUARTER [First - 2003]:

- Monitor, purge, and sample 4 monitoring wells.

SUMMARY:

| | | |
|--|-------------------------------|-----------------------|
| Frequency of Sampling Events: | <u>Annually</u> | (Quarterly, etc.) |
| Approximate Depth to Groundwater: | <u>4 to 8 ft</u> | (Measured Feet) |
| Groundwater Gradient: | <u>Northerly and Easterly</u> | (Direction) |
| | <u>0.007 ft/ft</u> | (Magnitude) |
| Maximum TPH-G/Benzene Concentrations: | <u>838/128</u> | (ppb) |
| Measurable Free Product Detected: | <u>None</u> | (Yes - ID well(s)/No) |
| Free Product Recovered This Quarter: | <u>Unknown</u> | (gallons) |
| Cumulative Free Product Recovered to Date: | <u>Unknown</u> | (gallons) |
| Bulk Soil Removed This Quarter: | <u>None</u> | (cubic yards) |
| Water Wells or Surface Waters w/in a 2000' : | <u>Unknown</u> | (Distance & |
| Radius and Respective Direction: | <u>Not Applicable</u> | Direction) |
| Current Remedial Action: | <u>None</u> | (SVE/AS/P&T etc.) |
| Permits for Discharge: | <u>None</u> | (NPDES, POTW, etc.) |

DISCUSSION:

- MW1 contained hydrocarbon concentrations exceeding MTCA Method A Cleanup Levels.
- 3 of 4 wells sampled contained total lead concentrations exceeding the MTCA Method A Cleanup Level.
- Samples were additionally analyzed for total lead, dissolved lead, and turbidity. Refer to official laboratory report for turbidity results.

ATTACHMENTS:

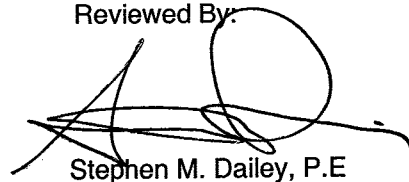
Plate 1: Groundwater Sample Analysis Map – 03/07/02
Table 1: Groundwater Analytical Results
Laboratory Reports and Chain of Custody Records
Field Data Records

Prepared By:



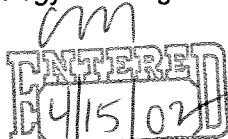
Yukiko Noguchi
Environmental Technician

Reviewed By:



Stephen M. Dailey, P.E.
Senior Staff Engineer

cc: Ecology NW Region



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31065GWS

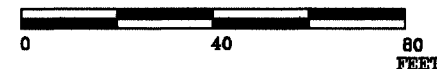
| 12/07/99 | 02/10/00 | 02/02/01 | 02/08/02 |
|----------|----------|----------|----------|
| <50.0 | <50.0 | <50.0 | <50.0 |
| <250 | <250 | <250 | <250 |
| <750 | <750 | <750 | <500 |
| <0.500 | <0.500 | <0.500 | <0.500 |
| <0.500 | <0.500 | <0.500 | <0.500 |
| <0.500 | <0.500 | <0.500 | <0.500 |
| <1.00 | <1.00 | <1.00 | <1.00 |
| 17.0 | 49.1 | -- | 40.6 |

| 12/07/99 | 02/10/00 | 02/02/01 | 02/08/02 |
|----------|----------|----------|----------|
| <50.0 | <50.0 | <50.0 | 838 |
| <250 | <250 | 588 | 1,800 |
| <750 | <750 | <750 | <500 |
| <0.500 | <0.500 | 12.4 | 128 |
| <0.500 | <0.500 | 1.02 | 2.15 |
| <0.500 | <0.500 | 1.10 | 85.4 |
| <1.00 | <1.00 | 2.77 | 6.55 |
| 6.18 | 1.75 | -- | 7.70 |

| 12/07/99 | 02/10/00 | 02/02/01 | 02/08/02 |
|----------|----------|----------|----------|
| <50.0 | <50.0 | <50.0 | <50.0 |
| <250 | <250 | <250 | <250 |
| <750 | <750 | <750 | <500 |
| <0.500 | <0.500 | <0.500 | <0.500 |
| <0.500 | <0.500 | <0.500 | <0.500 |
| <0.500 | <0.500 | <0.500 | <0.500 |
| <1.00 | <1.00 | <1.00 | <1.00 |
| 10.2 | 23.6 | -- | 3.30 |

| 12/07/99 | 02/10/00 | 02/02/01 | 02/08/02 |
|----------|----------|----------|----------|
| 94.7 | <50.0 | 63.0 | 91.5 |
| <250 | <250 | 413 | 410 |
| <750 | <750 | <750 | <500 |
| <0.500 | <0.500 | <0.500 | <0.500 |
| 0.598 | <0.500 | <0.500 | <0.500 |
| <0.500 | <0.500 | 0.503 | <0.500 |
| <1.00 | <1.00 | <1.00 | <1.00 |
| 4.40 | 17.6 | -- | 22.3 |

APPROXIMATE SCALE



Laboratory Results
in ug/L (ppb)

| 02/25/98 | Sample Date |
|----------|--|
| 210 | Total Petroleum Hydrocarbons as Gasoline |
| 383 | Total Petroleum Hydrocarbons as Diesel |
| <500 | Total Petroleum Hydrocarbons as Oil |
| <0.500 | Benzene |
| <0.500 | Toluene |
| 3.04 | Ethylbenzene |
| 40.8 | Total Xylenes |
| -- | Total or Dissolved Lead |

< 1.00 = Less than the Stated Laboratory Reporting Limit

SOURCE: Modified
from maps provided by
Tosco Corporation

FN 31065GWS



GROUNDWATER SAMPLE ANALYSIS MAP - 02/08/02

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

EXPLANATION

| | | |
|--|-------|-----------------------------|
| | MW3 | Groundwater Monitoring Well |
| | 92.65 | Groundwater Elevation |

PROJECT NO.

31065

PLATE

1

YN: 03/06/02

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

| Well Name | Sample Date | DTW | GW Elev. | TPH-G | TPH-D | TPH-O | B | T | E | X | Total Pb | Diss. Pb |
|---------------|-------------|------|----------|-------|-------|-------|--------|--------|--------|-------|----------|----------|
| MW1 98.49 | 03/11/99 | 4.96 | 93.53 | <50 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 2.41 | -- |
| | 05/25/99 | 5.33 | 93.16 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 08/12/99 | 6.66 | 91.83 | <50.0 | -- | -- | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 12/07/99 | 6.10 | 92.39 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 5.18 | -- |
| | 02/10/00 | 6.10 | 92.39 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 1.75 | -- |
| | 02/02/01 | 5.17 | 93.32 | <50.0 | 588 | <750 | 12.4 | 1.02 | 1.10 | 2.77 | -- | <1.00 |
| | 02/08/02 | 5.77 | 92.72 | 838 | 1,600 | <500 | 1128 | 2.15 | 85.4 | 6.55 | 7.70 | <1.00 |
| MW2 100.74 | 03/11/99 | 7.93 | 92.81 | <50 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 162 | -- |
| | 05/25/99 | 8.18 | 92.56 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 08/12/99 | 8.94 | 91.80 | <50.0 | 281 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 12/07/99 | 8.04 | 92.70 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 17.0 | -- |
| | 02/10/00 | 8.32 | 92.42 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 49.1 | -- |
| | 02/02/01 | 6.40 | 94.34 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 |
| | 02/08/02 | 7.77 | 92.97 | <50.0 | <250 | <500 | <0.500 | <0.500 | <0.500 | <1.00 | 40.6 | <1.00 |
| MW3 97.84 | 03/11/99 | 4.93 | 92.91 | <50 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 5.35 | -- |
| | 05/25/99 | 5.19 | 92.65 | 210 | 383 | <750 | <0.500 | <0.500 | 3.04 | 3.93 | -- | -- |
| | 08/12/99 | 5.70 | 92.14 | 56.3 | <250 | <750 | <0.500 | <0.500 | 0.732 | 1.84 | -- | -- |
| | 12/07/99 | 5.03 | 92.81 | 94.7 | <250 | <750 | <0.500 | 0.598 | <0.500 | <1.00 | 4.40 | -- |
| | 02/10/00 | 4.92 | 92.92 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 17.6 | -- |
| | 02/02/01 | 4.76 | 93.08 | 63.0 | 413 | <750 | <0.500 | <0.500 | 0.503 | <1.00 | -- | <1.00 |
| | 02/08/02 | 4.59 | 93.25 | 91.5 | 410 | <500 | <0.500 | <0.500 | <0.500 | <1.00 | 22.3 | <1.00 |
| MW4 99.44 | 03/11/99 | 6.39 | 93.05 | <50 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 29.0 | -- |
| | 05/25/99 | 6.62 | 92.82 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 08/12/99 | 7.31 | 92.13 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 12/07/99 | 6.37 | 93.07 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 10.2 | -- |
| | 02/10/00 | 6.48 | 92.96 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | 23.6 | -- |
| | 02/02/01 | 6.37 | 93.07 | <50.0 | <250 | <750 | <0.500 | <0.500 | <0.500 | <1.00 | -- | <1.00 |
| | 02/08/02 | 6.03 | 93.41 | <50.0 | <250 | <500 | <0.500 | <0.500 | <0.500 | <1.00 | 3.30 | <1.00 |

MTCA Method A Cleanup Level

1,000^a

5

40

30

20

5

5

EXPLANATION:

All concentrations in ug/L (ppb).

Wellhead elevations taken from prior consultants reports.

DTW = Depth to water in feet below top of casing.

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

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

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

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

BTEX = Aromatic compounds by EPA Method 8021B.

Total Pb = Total lead by EPA Method 6020.

Diss.Pb = Dissolved lead by EPA 6020.

-- = Not analyzed or sampled.

< = Less than the stated laboratory reporting limit.

Shaded values equal or exceed MTCA Method A Cleanup Levels.

^a Total Petroleum Hydrocarbons.

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



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

27 February 2002

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

Enclosed are the results of analyses for samples received by the laboratory on 02/08/02 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
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503.906.9200 fax 503.906.9210
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541.383.9310 fax 541.382.7588

ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

ANALYTICAL REPORT FOR SAMPLES - Amended

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| MW1 | B2B0194-01 | Water | 02/08/02 12:00 | 02/08/02 15:00 |
| MW2 | B2B0194-02 | Water | 02/08/02 12:00 | 02/08/02 15:00 |
| MW3 | B2B0194-03 | Water | 02/08/02 12:00 | 02/08/02 15:00 |
| MW4 | B2B0194-04 | Water | 02/08/02 13:00 | 02/08/02 15:00 |

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Amar Gill, Project Manager

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Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
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503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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 |
|--|--------|-----------------|-------|----------|---------|----------|----------|----------------|-------|
| MW1 (B2B0194-01) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Gasoline Range Hydrocarbons | 838 | 50.0 | ug/l | 1 | 2B19003 | 02/19/02 | 02/19/02 | NWTPH-Gx/8021B | |
| Benzene | 128 | 2.50 | " | 5 | " | " | 02/19/02 | " | |
| Toluene | 2.15 | 0.500 | " | 1 | " | " | 02/19/02 | " | |
| Ethylbenzene | 85.4 | 0.500 | " | " | " | " | " | " | |
| Xylenes (total) | 6.55 | 1.00 | " | " | " | " | " | " | |
| Surrogate: 4-BFB (FID) | 127 % | 62-139 | | | " | " | " | " | |
| Surrogate: 4-BFB (PID) | 109 % | 62-125 | | | " | " | " | " | |
| MW2 (B2B0194-02) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 50.0 | ug/l | 1 | 2B19003 | 02/19/02 | 02/19/02 | NWTPH-Gx/8021B | |
| Benzene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.500 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 1.00 | " | " | " | " | " | " | |
| Surrogate: 4-BFB (FID) | 96.0 % | 62-139 | | | " | " | " | " | |
| Surrogate: 4-BFB (PID) | 97.7 % | 62-125 | | | " | " | " | " | |
| MW3 (B2B0194-03) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Gasoline Range Hydrocarbons | 91.5 | 50.0 | ug/l | 1 | 2B19003 | 02/19/02 | 02/19/02 | NWTPH-Gx/8021B | |
| Benzene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.500 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 1.00 | " | " | " | " | " | " | |
| Surrogate: 4-BFB (FID) | 105 % | 62-139 | | | " | " | " | " | |
| Surrogate: 4-BFB (PID) | 100 % | 62-125 | | | " | " | " | " | |

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Amar Gill, Project Manager

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425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
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541.383.9310 fax 541.382.7588

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815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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 |
|---|--------|--------------------|-------|----------|---------|----------|----------|----------------|-------|
| MW4 (B2B0194-04) Water Sampled: 02/08/02 13:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 50.0 | ug/l | 1 | 2B19003 | 02/19/02 | 02/19/02 | NWTPH-Gx/8021B | |
| Benzene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.500 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 1.00 | " | " | " | " | " | " | |
| Surrogate: 4-BFB (FID) | 83.5 % | 62-139 | | | " | " | " | " | |
| Surrogate: 4-BFB (PID) | 85.8 % | 62-125 | | | " | " | " | " | |

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815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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 |
|--|--------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| MW1 (B2B0194-01) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | 1.60 | 0.250 | mg/l | 1 | 2B12024 | 02/12/02 | 02/13/02 | NWTPH-Dx | D-03 |
| Lube Oil Range Hydrocarbons | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 2-FBP | 82.0 % | 50-121 | | | " | " | " | " | |
| Surrogate: Octacosane | 77.5 % | 56-123 | | | " | " | " | " | |
| MW2 (B2B0194-02) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | ND | 0.250 | mg/l | 1 | 2B12024 | 02/12/02 | 02/13/02 | NWTPH-Dx | |
| Lube Oil Range Hydrocarbons | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 2-FBP | 78.7 % | 50-121 | | | " | " | " | " | |
| Surrogate: Octacosane | 82.9 % | 56-123 | | | " | " | " | " | |
| MW3 (B2B0194-03) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | 0.410 | 0.250 | mg/l | 1 | 2B12024 | 02/12/02 | 02/13/02 | NWTPH-Dx | |
| Lube Oil Range Hydrocarbons | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 2-FBP | 89.7 % | 50-121 | | | " | " | " | " | |
| Surrogate: Octacosane | 87.6 % | 56-123 | | | " | " | " | " | |
| MW4 (B2B0194-04) Water Sampled: 02/08/02 13:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Diesel Range Hydrocarbons | ND | 0.250 | mg/l | 1 | 2B12024 | 02/12/02 | 02/13/02 | NWTPH-Dx | |
| Lube Oil Range Hydrocarbons | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 2-FBP | 84.3 % | 50-121 | | | " | " | " | " | |
| Surrogate: Octacosane | 82.6 % | 56-123 | | | " | " | " | " | |

North Creek Analytical - Bothell

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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---------|--------------------|-------|----------|---------|----------|----------|----------|-------|
| MW1 (B2B0194-01) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Lead | 0.00770 | 0.00100 | mg/l | 1 | 2B13035 | 02/13/02 | 02/14/02 | EPA 6020 | |
| MW2 (B2B0194-02) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Lead | 0.0406 | 0.00100 | mg/l | 1 | 2B13035 | 02/13/02 | 02/14/02 | EPA 6020 | |
| MW3 (B2B0194-03) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Lead | 0.0223 | 0.00100 | mg/l | 1 | 2B13035 | 02/13/02 | 02/14/02 | EPA 6020 | |
| MW4 (B2B0194-04) Water Sampled: 02/08/02 13:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Lead | 0.00330 | 0.00100 | mg/l | 1 | 2B13035 | 02/13/02 | 02/14/02 | EPA 6020 | |

North Creek Analytical - Bothell

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Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------|----------|-------|
| MW1 (B2B0194-01) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 Q-30 | | | | | | | | | |
| Lead | ND | 0.00100 | mg/l | 1 | 2B14028 | 02/14/02 | 02/15/02 | EPA 6020 | |
| MW2 (B2B0194-02) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 Q-30 | | | | | | | | | |
| Lead | ND | 0.00100 | mg/l | 1 | 2B14028 | 02/14/02 | 02/15/02 | EPA 6020 | |
| MW3 (B2B0194-03) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 Q-30 | | | | | | | | | |
| Lead | ND | 0.00100 | mg/l | 1 | 2B14028 | 02/14/02 | 02/15/02 | EPA 6020 | |
| MW4 (B2B0194-04) Water Sampled: 02/08/02 13:00 Received: 02/08/02 15:00 Q-30 | | | | | | | | | |
| Lead | ND | 0.00100 | mg/l | 1 | 2B14028 | 02/14/02 | 02/15/02 | EPA 6020 | |

North Creek Analytical - Bothell

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815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| MW1 (B2B0194-01) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Turbidity | 326 | 1.00 | NTU | 1 | 2B12002 | 02/09/02 | 02/09/02 | EPA 180.1 | |
| MW2 (B2B0194-02) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Turbidity | 1520 | 3.00 | NTU | 3 | 2B12002 | 02/09/02 | 02/09/02 | EPA 180.1 | |
| MW3 (B2B0194-03) Water Sampled: 02/08/02 12:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Turbidity | 545 | 1.00 | NTU | 1 | 2B12002 | 02/09/02 | 02/09/02 | EPA 180.1 | |
| MW4 (B2B0194-04) Water Sampled: 02/08/02 13:00 Received: 02/08/02 15:00 | | | | | | | | | |
| Turbidity | 251 | 1.00 | NTU | 1 | 2B12002 | 02/09/02 | 02/09/02 | EPA 180.1 | |

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Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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 2B19003: Prepared 02/19/02 Using EPA 5030B (P/T)

Blank (2B19003-BLK1)

| | | | | | | | | | | |
|-----------------------------|------|-------|------|------|--|------|--------|--|--|--|
| Gasoline Range Hydrocarbons | ND | 50.0 | ug/l | | | | | | | |
| Benzene | ND | 0.500 | " | | | | | | | |
| Toluene | ND | 0.500 | " | | | | | | | |
| Ethylbenzene | ND | 0.500 | " | | | | | | | |
| Xylenes (total) | ND | 1.00 | " | | | | | | | |
| Surrogate: 4-BFB (FID) | 43.9 | | " | 48.0 | | 91.5 | 62-139 | | | |
| Surrogate: 4-BFB (PID) | 46.8 | | " | 48.0 | | 97.5 | 62-125 | | | |

LCS (2B19003-BS1)

| | | | | | | | | | | |
|-----------------------------|------|-------|------|------|--|------|--------|--|--|--|
| Gasoline Range Hydrocarbons | 500 | 50.0 | ug/l | 500 | | 100 | 80-120 | | | |
| Benzene | 6.49 | 0.500 | " | 6.01 | | 108 | 80-120 | | | |
| Toluene | 33.3 | 0.500 | " | 35.8 | | 93.0 | 80-120 | | | |
| Ethylbenzene | 8.70 | 0.500 | " | 8.37 | | 104 | 80-120 | | | |
| Xylenes (total) | 41.1 | 1.00 | " | 41.4 | | 99.3 | 80-120 | | | |
| Surrogate: 4-BFB (FID) | 43.5 | | " | 48.0 | | 90.6 | 62-139 | | | |
| Surrogate: 4-BFB (PID) | 42.8 | | " | 48.0 | | 89.2 | 62-125 | | | |

LCS Dup (2B19003-BSD1)

| | | | | | | | | | | |
|-----------------------------|------|-------|------|------|--|------|--------|------|----|--|
| Gasoline Range Hydrocarbons | 522 | 50.0 | ug/l | 500 | | 104 | 80-120 | 4.31 | 25 | |
| Benzene | 6.16 | 0.500 | " | 6.01 | | 102 | 80-120 | 5.22 | 40 | |
| Toluene | 32.1 | 0.500 | " | 35.8 | | 89.7 | 80-120 | 3.67 | 40 | |
| Ethylbenzene | 8.42 | 0.500 | " | 8.37 | | 101 | 80-120 | 3.27 | 40 | |
| Xylenes (total) | 39.7 | 1.00 | " | 41.4 | | 95.9 | 80-120 | 3.47 | 40 | |
| Surrogate: 4-BFB (FID) | 47.9 | | " | 48.0 | | 99.8 | 62-139 | | | |
| Surrogate: 4-BFB (PID) | 43.9 | | " | 48.0 | | 91.5 | 62-125 | | | |

Matrix Spike (2B19003-MS1)

Source: B2B0194-02

| | | | | | | | | | | |
|-----------------------------|------|-------|------|------|----|------|--------|--|--|--|
| Gasoline Range Hydrocarbons | 496 | 50.0 | ug/l | 500 | ND | 99.2 | 70-130 | | | |
| Benzene | 6.00 | 0.500 | " | 6.01 | ND | 99.8 | 80-120 | | | |
| Toluene | 31.1 | 0.500 | " | 35.8 | ND | 86.5 | 75-117 | | | |
| Ethylbenzene | 8.07 | 0.500 | " | 8.37 | ND | 96.4 | 80-120 | | | |
| Xylenes (total) | 38.2 | 1.00 | " | 41.4 | ND | 92.3 | 80-120 | | | |
| Surrogate: 4-BFB (FID) | 48.2 | | " | 48.0 | | 100 | 62-139 | | | |
| Surrogate: 4-BFB (PID) | 44.6 | | " | 48.0 | | 92.9 | 62-125 | | | |

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425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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 Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|--------------|-------|

Batch 2B19003: Prepared 02/19/02 Using EPA 5030B (P/T)

Matrix Spike Dup (2B19003-MSD1)

Source: B2B0194-02

| | | | | | | | | | |
|-----------------------------|------|-------|------|------|----|------|--------|-------|----|
| Gasoline Range Hydrocarbons | 500 | 50.0 | ug/l | 500 | ND | 100 | 70-130 | 0.803 | 25 |
| Benzene | 6.05 | 0.500 | " | 6.01 | ND | 101 | 80-120 | 0.830 | 40 |
| Toluene | 31.4 | 0.500 | " | 35.8 | ND | 87.4 | 75-117 | 0.960 | 40 |
| Ethylbenzene | 8.12 | 0.500 | " | 8.37 | ND | 97.0 | 80-120 | 0.618 | 40 |
| Xylenes (total) | 38.5 | 1.00 | " | 41.4 | ND | 93.0 | 80-120 | 0.782 | 40 |
| Surrogate: 4-BFB (FID) | 48.5 | | " | 48.0 | | 101 | 62-139 | | |
| Surrogate: 4-BFB (PID) | 45.0 | | " | 48.0 | | 93.8 | 62-125 | | |

North Creek Analytical - Bothell

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Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
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541.383.9310 fax 541.382.7588

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815 Industry Dr
Tukwila WA/USA, 98188

Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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 Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|----------------|------|--------------|-------|
| Batch 2B12024: Prepared 02/12/02 Using EPA 3520C | | | | | | | | | |
| Blank (2B12024-BLK1) | | | | | | | | | |
| Diesel Range Hydrocarbons | ND | 0.250 | mg/l | | | | | | |
| Lube Oil Range Hydrocarbons | ND | 0.500 | " | | | | | | |
| Surrogate: 2-FBP | 0.254 | | " | 0.320 | | 79.4 50-121 | | | |
| Surrogate: Octacosane | 0.249 | | " | 0.320 | | 77.8 56-123 | | | |
| LCS (2B12024-BS1) | | | | | | | | | |
| Diesel Range Hydrocarbons | 1.67 | 0.250 | mg/l | 2.00 | | 83.5 62-122 | | | |
| Surrogate: 2-FBP | 0.265 | | " | 0.320 | | 82.8 50-121 | | | |
| LCS Dup (2B12024-BSD1) | | | | | | | | | |
| Diesel Range Hydrocarbons | 1.69 | 0.250 | mg/l | 2.00 | | 84.5 62-122 | 1.19 | 40 | |
| Surrogate: 2-FBP | 0.259 | | " | 0.320 | | 80.9 50-121 | | | |

North Creek Analytical - Bothell

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

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Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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 2B13035: Prepared 02/13/02 Using EPA 3020A | | | | | | | | | | |
| Blank (2B13035-BLK1) | | | | | | | | | | |
| Lead | ND | 0.00100 | mg/l | | | | | | | |
| LCS (2B13035-BS1) | | | | | | | | | | |
| Lead | 0.203 | 0.00100 | mg/l | 0.200 | | 102 | 80-120 | | | |
| LCS Dup (2B13035-BSD1) | | | | | | | | | | |
| Lead | 0.202 | 0.00100 | mg/l | 0.200 | | 101 | 80-120 | 0.494 | 20 | |
| Matrix Spike (2B13035-MS1) | | | | | | | | | | |
| Source: B2B0194-01 | | | | | | | | | | |
| Lead | 0.204 | 0.00100 | mg/l | 0.200 | 0.00770 | 98.2 | 75-125 | | | |
| Matrix Spike Dup (2B13035-MSD1) | | | | | | | | | | |
| Source: B2B0194-01 | | | | | | | | | | |
| Lead | 0.206 | 0.00100 | mg/l | 0.200 | 0.00770 | 99.2 | 75-125 | 0.976 | 20 | |

North Creek Analytical - Bothell

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Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|----------------|--------|--------------|-------|
| Batch 2B14028: Prepared 02/14/02 Using EPA 3005A | | | | | | | | | |
| Blank (2B14028-BLK1) | | | | | | | | | |
| Lead | ND | 0.00100 | mg/l | | | | | | |
| LCS (2B14028-BS1) | | | | | | | | | |
| Lead | 0.204 | 0.00100 | mg/l | 0.200 | | 102 | 80-120 | | |
| LCS Dup (2B14028-BSD1) | | | | | | | | | |
| Lead | 0.205 | 0.00100 | mg/l | 0.200 | | 102 | 80-120 | 0.489 | 20 |
| Matrix Spike (2B14028-MS1) | | | | | | | | | |
| Source: B2B0194-01 | | | | | | | | | |
| Lead | 0.204 | 0.00100 | mg/l | 0.200 | ND | 102 | 75-125 | | |
| Matrix Spike Dup (2B14028-MSD1) | | | | | | | | | |
| Source: B2B0194-01 | | | | | | | | | |
| Lead | 0.203 | 0.00100 | mg/l | 0.200 | ND | 102 | 75-125 | 0.491 | 20 |

North Creek Analytical - Bothell

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Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC Limits | RPD Limit | Notes |
|---|--------|--------------------|-------|----------------|------------------|----------------|--------------|-------|
| Batch 2B12002: Prepared 02/09/02 Using General Preparation | | | | | | | | |
| Blank (2B12002-BLK1) | | | | | | | | |
| Turbidity | ND | 1.00 | NTU | | | | | |
| LCS (2B12002-BS1) | | | | | | | | |
| Turbidity | 18.3 | 1.00 | NTU | 20.0 | | 91.5 90-110 | | |
| LCS Dup (2B12002-BSD1) | | | | | | | | |
| Turbidity | 18.6 | 1.00 | NTU | 20.0 | | 93.0 90-110 | 1.63 20 | |
| Duplicate (2B12002-DUP1) | | | | | | | | |
| Source: B2B0194-04 | | | | | | | | |
| Turbidity | 257 | 1.00 | NTU | | 251 | | 2.36 20 | |

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Project: Tosco #6380
Project Number: 1065
Project Manager: John Meyer

Amended Report
Issued: 02/27/02 10:35

Notes and Definitions

- D-03 The hydrocarbon concentration result in this sample is partially due to one or more individual peaks eluting in the diesel/heavy oil range. Quantitation by EPA method 8270 is recommended.
- Q-30 This sample was laboratory filtered since it was not field filtered as is required by the methodology.
- 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 32B0194

TOSCO INFORMATION

Facility Number: 3028

Site Address: 200 S 36th St.

City, State, ZIP: Bellingham, WA

Project/AWO Code

Tosco Manager: Tim Johnson

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

☐ Brown Bear ☒ Former 76 Site ☐ Other _____

| CONSULTANT INFORMATION | |
|--|----------------------|
| Firm: ERT | Project# 1065 |
| Address: 815 INDUSTRY DR TUKWILA WA 98188 | |
| Phone: (206) 575-6220 | Fax: X6423 |
| Project Manager: | E-mail: |
| Sample Collection by: ROY MORSE | |

Quality Assurance Data Level:

~~A~~ B

A: Standard Summary

B: Standard + Chromatograms

Laboratory Turnaround Days:

~~10~~ 5 3 2 1

10 Day - Standard

| SAMPLE IDENTIFICATION | SAMPLING DATE / TIME | MATRIX (W,S,O) | # OF CON- TAINERS |
|-----------------------|-------------------------|-------------------|-------------------------|
| 1. MW1 | 2/8/02 | W | 73 |
| 2. MW2 | | W | 7 |
| 3. MW3 | 12:00pm | W | 7 |
| 4. MW4 | 1:00pm | W | 7 |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |

| | <input type="radio"/> OR | <input type="radio"/> WA | <input type="radio"/> AK | <input type="radio"/> NW Series | <input type="radio"/> ID |
|----------------------|--------------------------|--------------------------|--------------------------|---------------------------------|--------------------------|
| TPH-HCID | | | | | |
| TPH-Gas | | | | | |
| BTEX | | | | | |
| EPA 8021 Mod. | | | | | |
| TPH-Gas + BTEX | X | X | X | X | X |
| TPH-Diesel | | | | | |
| TPH-Diesel | | | | | |
| Extended | X | X | X | X | X |
| 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: | X | X | X | X | X |
| Mercury or Dissolved | | | | | |
| TCLP or RCRA | | | | | |
| Metals (8) | | | | | |
| Lead | X | X | X | X | X |
| Dissolved | X | X | X | X | X |
| Toxicity | X | X | X | X | X |

[illegible]

| | Relinquished by: | Firm: | Date & Time | Received by: | Firm: | Date & Time |
|----|------------------|-------|-------------|------------------|-------|-------------|
| 1. | Ray & Moore | ERT | 2/8/2 15:00 | Patricia Nichols | NCA | 2/8/2 15:00 |
| 2. | | | | | | |
| 3. | | | | | | |

Comments:

GROUNDWATER SAMPLING - FIELD LOG

Client Name: TOSCO
Location: Bellingham
Field Crew: Roy MOUSE

ERI Job No. 1065

Date: 2/8/02

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Field Cleaning Performed:

Analysis: _____

* - Case Volume = $(d_{\text{inner}} - d_{\text{water}})_{\text{in ft}} \times F$ where $F =$
 0.163 for a 2" inside diameter well casing
 0.652 for a 4" inside diameter well casing
 1.467 for a 6" inside diameter well casing

[illegible]

Revised 4/20/94

ENVIRONMENTAL RESOLUTIONS, INC.