

Tosco Corporation #6380

UST 471259

DATE: July 7, 1999

UST #8394

RECEIVED

**TOSCO MARKETING COMPANY  
GROUNDWATER MONITORING REPORT**

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

JUL 14 1999

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

- Monitored, purged, and sampled 4 groundwater monitoring wells

DEPT. OF ECOLOGY

**WORK PROPOSED FOR NEXT QUARTER [Third - 1999]:**

- Monitor, purge, and sample 4 monitoring wells

**SUMMARY:**

|  |                               |                        |
|--|-------------------------------|------------------------|
| Frequency of Sampling Events:              | <u>Quarterly</u>              | (Quarterly, etc.)      |
| Approximate Depth to Groundwater:          | <u>5 to 8 ft</u>              | (Measured Feet)        |
| Groundwater Gradient:                      | <u>Southerly and Westerly</u> | (Direction)            |
|  | <u>0.003 ft/ft</u>            | (Magnitude)            |
| Maximum TPH-G/Benzene Concentrations:      | <u>210/ND</u>                 | (ppb)                  |
| Measurable Free Product Detected:          | <u>No</u>                     | (Yes - ID wells(s)/No) |
| Free Product Recovered This Quarter:       | <u>Not Applicable</u>         | (gallons)              |
| Cumulative Free Product Recovered to Date: | <u>Not Applicable</u>         | (gallons)              |
| Bulk Soil Removed This Quarter:            | <u>Unknown</u>                | (cubic yards)          |
| Water Wells or Surface Waters w/in a 2000' | <u>Unknown</u>                | (Distance &            |
| Radius and Respective Direction:           | <u>Not Applicable</u>         | Direction)             |
| Current Remedial Action:                   | <u>None</u>                   | (SVE/AS/P&T etc.)      |
| Permits for Discharge:                     | <u>None</u>                   | (NPDES, POTW,etc.)     |

**DISCUSSION:**

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

**ATTACHMENTS:**

- Plate P-1 - Groundwater Sample Analyses Map, 5/25/99
- Table 1 - Groundwater Analytical Results
- Laboratory Reports and Chain of Custody Records
- Field Data Records

DEPARTMENT OF ECOLOGY  
NWRO/TCP TANK UNIT

471259

INTERIM CLEANUP REPORT

SITE CHARACTERIZATION

FINAL CLEANUP REPORT

OTHER

AFFECTED MEDIA: SOIL

                                  GW

OTHER

SECTOR (INIT.)  DATE 6/23/99

cc: Ecology NW Region

Prepared By:

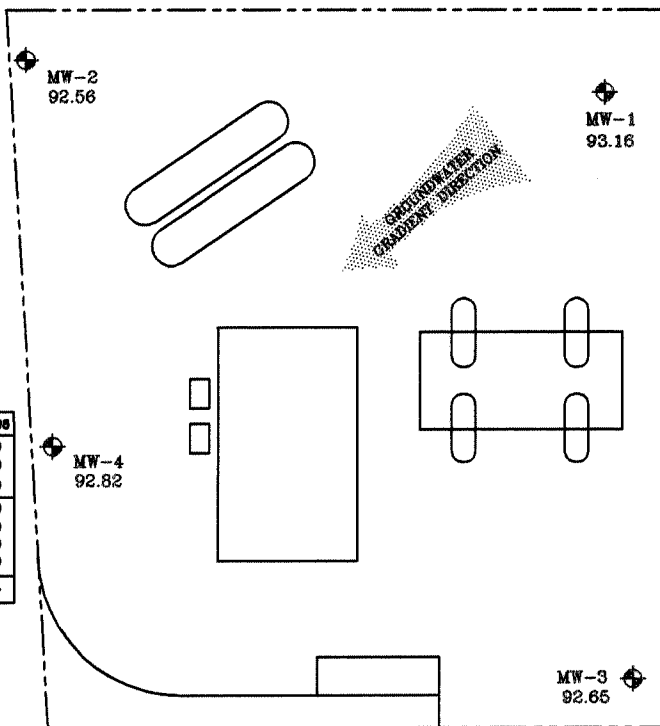
John K. Meyer, R.G.  
Environmental Resolutions, Inc.

| 3/11/99 | 5/25/99 |
|---------|---------|
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| 162     | --      |

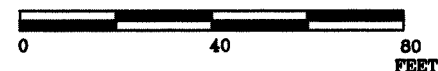
| 3/11/99 | 5/25/99 |
|---------|---------|
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| 29.0    | --      |

| 3/11/99 | 5/25/99 |
|---------|---------|
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| 2.41    | --      |

| 3/11/99 | 5/25/99 |
|---------|---------|
| ND      | 210     |
| ND      | 383     |
| ND      | ND      |
| ND      | ND      |
| ND      | ND      |
| ND      | 3.04    |
| ND      | 3.93    |
| 6.35    | --      |



APPROXIMATE SCALE



Laboratory Results  
in ug/L (ppb)

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

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

SOURCE: Modified  
from maps provided by  
Tosco Marketing Company

FN 6380

## GROUNDWATER SAMPLE ANALYSES MAP - 5/25/99

TOSCO FACILITY 6380  
200 South 36th Street  
Bellingham, Washington

### EXPLANATION

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

### PROJECT NO.

31065

### PLATE

P-1

DATE: 7/7/99



TABLE 1  
GROUNDWATER ANALYTICAL RESULTS  
Tosco Facility 6380  
200 South 36th Street  
Bellingham, Washington  
Page 1 of 1

| Well Name                   | Sample Date | DTW  | GW Elev. | TPH-G              | TPH-D | TPH-O | B      | T      | E      | X     | Total Pb |
|-----------------------------|-------------|------|----------|--------------------|-------|-------|--------|--------|--------|-------|----------|
| MW-1                        | 3/11/99     | 4.96 | 93.53    | <50                | <250  | <750  | <0.500 | <0.500 | <0.500 | <1.00 | 2.41     |
| 98.49                       | 5/25/99     | 5.33 | 93.16    | <50.0              | <250  | <750  | <0.500 | <0.500 | <0.500 | <1.00 | --       |
| MW-2                        | 3/11/99     | 7.93 | 92.81    | <50                | <250  | <750  | <0.500 | <0.500 | <0.500 | <1.00 | 162      |
| 100.74                      | 5/25/99     | 8.18 | 92.56    | <50.0              | <250  | <750  | <0.500 | <0.500 | <0.500 | <1.00 | --       |
| MW-3                        | 3/11/99     | 4.93 | 92.91    | <50                | <250  | <750  | <0.500 | <0.500 | <0.500 | <1.00 | 6.35     |
| 97.84                       | 5/25/99     | 5.19 | 92.65    | 210                | 383   | <750  | <0.500 | <0.500 | 3.04   | 3.93  | --       |
| MW-4                        | 3/11/99     | 6.39 | 93.05    | <50                | <250  | <750  | <0.500 | <0.500 | <0.500 | <1.00 | 29.0     |
| 99.44                       | 5/25/99     | 6.62 | 92.82    | <50.0              | <250  | <750  | <0.500 | <0.500 | <0.500 | <1.00 | --       |
| MTCA Method A Cleanup Level |             |      |          | 1,000 <sup>a</sup> |       |       | 5      | 40     | 30     | 20    | 5        |

**EXPLANATION:**

All concentrations in ug/L (ppb).

Wellhead elevations taken from prior consultants reports.

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

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

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

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

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

BTEX = Aromatic compounds by EPA Method 8020.

Total Pb = Total lead by EPA Method 7421.

-- = Not analyzed or no data.

< = Less than the stated laboratory reporting limit.

Shaded values equal or exceed MTCA Method A Cleanup Levels.

<sup>a</sup> Total Petroleum Hydrocarbons

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



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|  |   |   |
|--|---|---|
| ERI<br>1921 Edmonds Drive SE<br>Renton, WA 98055 | Project: Tosco #6380<br>Project Number: #31065<br>Project Manager: John Meyer | Sampled: 5/25/99<br>Received: 5/26/99<br>Reported: 6/3/99 12:33 |
|--|---|---|

**ANALYTICAL REPORT FOR SAMPLES:**

| Sample Description | Laboratory Sample Number | Sample Matrix | Date Sampled |
|--------------------|--------------------------|---------------|--------------|
| MW-1               | B905541-01               | Water         | 5/25/99      |
| MW-2               | B905541-02               | Water         | 5/25/99      |
| MW-3               | B905541-03               | Water         | 5/25/99      |
| MW-4               | B905541-04               | Water         | 5/25/99      |

North Creek Analytical - Bothell

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

Matthew Essig, Project Manager

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



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|--|---|---|

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

| Analyte                     | Batch Number | Date Prepared | Date Analyzed | Surrogate Limits         | Reporting Limit | Result | Units               | Notes* |
|-----------------------------|--------------|---------------|---------------|--------------------------|-----------------|--------|---------------------|--------|
|                             |              |               |               | <b><u>B905541-01</u></b> |                 |        | <b><u>Water</u></b> |        |
| Gasoline Range Hydrocarbons | 0690017      | 6/1/99        | 6/2/99        |                          | 50.0            | ND     | ug/l                |        |
| Benzene                     | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Toluene                     | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Ethylbenzene                | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Xylenes (total)             | "            | "             | "             |                          | 1.00            | ND     | "                   |        |
| Surrogate: 4-BFB (FID)      | "            | "             | "             | 50.0-150                 |                 | 100    | %                   |        |
| Surrogate: 4-BFB (PID)      | "            | "             | "             | 50.0-150                 |                 | 106    | "                   |        |
|                             |              |               |               | <b><u>B905541-02</u></b> |                 |        | <b><u>Water</u></b> |        |
| Gasoline Range Hydrocarbons | 0690017      | 6/1/99        | 6/2/99        |                          | 50.0            | ND     | ug/l                |        |
| Benzene                     | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Toluene                     | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Ethylbenzene                | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Xylenes (total)             | "            | "             | "             |                          | 1.00            | ND     | "                   |        |
| Surrogate: 4-BFB (FID)      | "            | "             | "             | 50.0-150                 |                 | 102    | %                   |        |
| Surrogate: 4-BFB (PID)      | "            | "             | "             | 50.0-150                 |                 | 104    | "                   |        |
|                             |              |               |               | <b><u>B905541-03</u></b> |                 |        | <b><u>Water</u></b> |        |
| Gasoline Range Hydrocarbons | 0690017      | 6/1/99        | 6/2/99        |                          | 50.0            | 210    | ug/l                |        |
| Benzene                     | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Toluene                     | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Ethylbenzene                | "            | "             | "             |                          | 0.500           | 3.04   | "                   |        |
| Xylenes (total)             | "            | "             | "             |                          | 1.00            | 3.93   | "                   |        |
| Surrogate: 4-BFB (FID)      | "            | "             | "             | 50.0-150                 |                 | 134    | %                   |        |
| Surrogate: 4-BFB (PID)      | "            | "             | "             | 50.0-150                 |                 | 113    | "                   |        |
|                             |              |               |               | <b><u>B905541-04</u></b> |                 |        | <b><u>Water</u></b> |        |
| Gasoline Range Hydrocarbons | 0690017      | 6/1/99        | 6/2/99        |                          | 50.0            | ND     | ug/l                |        |
| Benzene                     | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Toluene                     | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Ethylbenzene                | "            | "             | "             |                          | 0.500           | ND     | "                   |        |
| Xylenes (total)             | "            | "             | "             |                          | 1.00            | ND     | "                   |        |
| Surrogate: 4-BFB (FID)      | "            | "             | "             | 50.0-150                 |                 | 104    | %                   |        |
| Surrogate: 4-BFB (PID)      | "            | "             | "             | 50.0-150                 |                 | 108    | "                   |        |

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

Matthew Essig, Project Manager

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|  |   |   |
|--|---|---|
| ERI<br>1921 Edmonds Drive SE<br>Renton, WA 98055 | Project: Tosco #6380<br>Project Number: #31065<br>Project Manager: John Meyer | Sampled: 5/25/99<br>Received: 5/26/99<br>Reported: 6/3/99 12:33 |
|--|---|---|

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

| Analyte                      | Batch Number | Date Prepared | Date Analyzed | Surrogate Limits  | Reporting Limit | Result | Units        | Notes* |
|------------------------------|--------------|---------------|---------------|-------------------|-----------------|--------|--------------|--------|
| <b>MW-1</b>                  |              |               |               | <b>B905541-01</b> |                 |        | <b>Water</b> |        |
| Diesel Range Hydrocarbons    | 0590802      | 5/30/99       | 6/2/99        |                   | 0.250           | ND     | mg/l         |        |
| Heavy Oil Range Hydrocarbons | "            | "             | "             |                   | 0.750           | ND     | "            |        |
| Surrogate: 2-FBP             | "            | "             | "             | 50.0-150          |                 | 98.3   | %            |        |
| <b>MW-2</b>                  |              |               |               | <b>B905541-02</b> |                 |        | <b>Water</b> |        |
| Diesel Range Hydrocarbons    | 0590802      | 5/30/99       | 6/2/99        |                   | 0.250           | ND     | mg/l         |        |
| Heavy Oil Range Hydrocarbons | "            | "             | "             |                   | 0.750           | ND     | "            |        |
| Surrogate: 2-FBP             | "            | "             | "             | 50.0-150          |                 | 74.8   | %            |        |
| <b>MW-3</b>                  |              |               |               | <b>B905541-03</b> |                 |        | <b>Water</b> |        |
| Diesel Range Hydrocarbons    | 0590802      | 5/30/99       | 6/2/99        |                   | 0.250           | 0.383  | mg/l         |        |
| Heavy Oil Range Hydrocarbons | "            | "             | "             |                   | 0.750           | ND     | "            |        |
| Surrogate: 2-FBP             | "            | "             | "             | 50.0-150          |                 | 97.4   | %            |        |
| <b>MW-4</b>                  |              |               |               | <b>B905541-04</b> |                 |        | <b>Water</b> |        |
| Diesel Range Hydrocarbons    | 0590802      | 5/30/99       | 6/2/99        |                   | 0.250           | ND     | mg/l         |        |
| Heavy Oil Range Hydrocarbons | "            | "             | "             |                   | 0.750           | ND     | "            |        |
| Surrogate: 2-FBP             | "            | "             | "             | 50.0-150          |                 | 72.9   | %            |        |



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|--|---|---|

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

| Analyte                     | Date Analyzed | Spike Level | Sample Result                  | QC Result | Reporting Limit Units | Recov. Limits                             | Recov. % | RPD Limit | RPD % | Notes* |
|-----------------------------|---------------|-------------|--------------------------------|-----------|-----------------------|---|----------|-----------|-------|--------|
| <b>Batch: 0690017</b>       |               |             | <b>Date Prepared: 6/1/99</b>   |           |                       | <b>Extraction Method: EPA 5030B (P/T)</b> |          |           |       |        |
| <b>Blank</b>                |               |             | <b>0690017-BLK1</b>            |           |                       |   |          |           |       |        |
| Gasoline Range Hydrocarbons | 6/1/99        |             |                                | ND        | ug/l                  | 50.0                                      |          |           |       |        |
| Benzene                     | "             |             |                                | ND        | "                     | 0.500                                     |          |           |       |        |
| Toluene                     | "             |             |                                | ND        | "                     | 0.500                                     |          |           |       |        |
| Ethylbenzene                | "             |             |                                | ND        | "                     | 0.500                                     |          |           |       |        |
| Xylenes (total)             | "             |             |                                | ND        | "                     | 1.00                                      |          |           |       |        |
| Surrogate: 4-BFB (FID)      | "             | 48.0        |                                | 48.7      | "                     | 50.0-150                                  | 101      |           |       |        |
| Surrogate: 4-BFB (PID)      | "             | 48.0        |                                | 49.8      | "                     | 50.0-150                                  | 104      |           |       |        |
| <b>LCS</b>                  |               |             | <b>0690017-BS1</b>             |           |                       |   |          |           |       |        |
| Gasoline Range Hydrocarbons | 6/1/99        | 500         |                                | 532       | ug/l                  | 70.0-130                                  | 106      |           |       |        |
| Surrogate: 4-BFB (FID)      | "             | 48.0        |                                | 53.4      | "                     | 50.0-150                                  | 111      |           |       |        |
| <b>Duplicate</b>            |               |             | <b>0690017-DUP1 B905527-07</b> |           |                       |   |          |           |       |        |
| Gasoline Range Hydrocarbons | 6/2/99        |             | 411                            | 408       | ug/l                  |   |          | 25.0      | 0.733 |        |
| Surrogate: 4-BFB (FID)      | "             | 48.0        |                                | 80.5      | "                     | 50.0-150                                  | 168      |           |       | 1      |
| <b>Matrix Spike</b>         |               |             | <b>0690017-MS1 B905541-01</b>  |           |                       |   |          |           |       |        |
| Benzene                     | 6/2/99        | 10.0        | ND                             | 8.52      | ug/l                  | 70.0-130                                  | 85.2     |           |       |        |
| Toluene                     | "             | 10.0        | ND                             | 9.09      | "                     | 70.0-130                                  | 90.9     |           |       |        |
| Ethylbenzene                | "             | 10.0        | ND                             | 9.57      | "                     | 70.0-130                                  | 95.7     |           |       |        |
| Xylenes (total)             | "             | 30.0        | ND                             | 27.8      | "                     | 70.0-130                                  | 92.7     |           |       |        |
| Surrogate: 4-BFB (PID)      | "             | 48.0        |                                | 51.7      | "                     | 50.0-150                                  | 108      |           |       |        |
| <b>Matrix Spike Dup</b>     |               |             | <b>0690017-MSD1 B905541-01</b> |           |                       |   |          |           |       |        |
| Benzene                     | 6/2/99        | 10.0        | ND                             | 8.92      | ug/l                  | 70.0-130                                  | 89.2     | 15.0      | 4.59  |        |
| Toluene                     | "             | 10.0        | ND                             | 9.49      | "                     | 70.0-130                                  | 94.9     | 15.0      | 4.31  |        |
| Ethylbenzene                | "             | 10.0        | ND                             | 10.3      | "                     | 70.0-130                                  | 103      | 15.0      | 7.35  |        |
| Xylenes (total)             | "             | 30.0        | ND                             | 30.2      | "                     | 70.0-130                                  | 101      | 15.0      | 8.57  |        |
| Surrogate: 4-BFB (PID)      | "             | 48.0        |                                | 51.6      | "                     | 50.0-150                                  | 107      |           |       |        |

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

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|--|---|---|

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

| Analyte                      | Date Analyzed | Spike Level                   | Sample Result | QC Result                                      | Units | Reporting Limit<br>Recov. Limits | Recov. % | RPD Limit | RPD % | Notes* |
|------------------------------|---------------|-------------------------------|---------------|--|-------|----------------------------------|----------|-----------|-------|--------|
| <b>Batch: 0590802</b>        |               | <b>Date Prepared: 5/30/99</b> |               | <b>Extraction Method: EPA 3520C/600 Series</b> |       |                                  |          |           |       |        |
| <b>Blank</b>                 |               | <b>0590802-BLK1</b>           |               |  |       |                                  |          |           |       |        |
| Diesel Range Hydrocarbons    | 6/2/99        |                               |               | ND   | mg/l  | 0.250                            |          |           |       |        |
| Heavy Oil Range Hydrocarbons | "             |                               |               | ND   | "     | 0.750                            |          |           |       |        |
| Surrogate: 2-FBP             | "             | 0.321                         |               | 0.326  | "     | 50.0-150                         | 102      |           |       |        |
| <b>LCS</b>                   |               | <b>0590802-BS1</b>            |               |  |       |                                  |          |           |       |        |
| Diesel Range Hydrocarbons    | 6/2/99        | 2.00                          |               | 1.53   | mg/l  | 60.0-140                         | 76.5     |           |       |        |
| Surrogate: 2-FBP             | "             | 0.321                         |               | 0.239  | "     | 50.0-150                         | 74.5     |           |       |        |
| <b>Duplicate</b>             |               | <b>0590802-DUP1</b>           |               | <b>B905587-02</b>                              |       |                                  |          |           |       |        |
| Diesel Range Hydrocarbons    | 6/2/99        |                               | 1.67          | 0.307  | mg/l  |                                  |          | 44.0      | 138   | 2      |
| Heavy Oil Range Hydrocarbons | "             |                               | 3.28          | ND   | "     |                                  |          | 44.0      |       |        |
| Surrogate: 2-FBP             | "             | 0.642                         |               | 0.586  | "     | 50.0-150                         | 91.3     |           |       |        |
| <b>Duplicate</b>             |               | <b>0590802-DUP2</b>           |               | <b>B905541-01</b>                              |       |                                  |          |           |       |        |
| Diesel Range Hydrocarbons    | 6/2/99        |                               | ND            | ND   | mg/l  |                                  |          | 44.0      |       |        |
| Heavy Oil Range Hydrocarbons | "             |                               | ND            | ND   | "     |                                  |          | 44.0      |       |        |
| Surrogate: 2-FBP             | "             | 0.605                         |               | 0.464  | "     | 50.0-150                         | 76.7     |           |       |        |

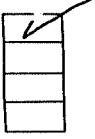


**Seattle** 18939 120th Avenue NE, Suite 101, Bothell, WA 98011-9508  
 425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
 509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
**Bend** 20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883  
 541.383.9310 fax 541.382.7588

|  |   |   |
|--|---|---|
| ERI<br>1921 Edmonds Drive SE<br>Renton, WA 98055 | Project: Tosco #6380<br>Project Number: #31065<br>Project Manager: John Meyer | Sampled: 5/25/99<br>Received: 5/26/99<br>Reported: 6/3/99 12:33 |
|--|---|---|

**Notes and Definitions**

| #      | Note   |
|--------|--|
| 1      | The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample. |
| 2      | Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.                                       |
| DET    | Analyte DETECTED   |
| ND     | Analyte NOT DETECTED at or above the reporting limit   |
| NR     | Not Reported   |
| dry    | Sample results reported on a dry weight basis  |
| Recov. | Recovery   |
| RPD    | Relative Percent Difference  |



# TOSCO CHAIN OF CUSTODY REPORT

B905541

**TOSCO INFORMATION**

Facility Number: 6380 Ballingsham  
 Site Address: 200 S. 76th St  
 City, State, ZIP: Ballingsham, MA  
 Project/AWO Code: 776 9802511 / 290/48/10300/609  
 Tosco Manager: Tim Johnson 256382

FACILITY TYPE: (check one)  BP/Ⓚ  Terminal/Bulk Plant  
 Brown Bear  Former 76 Site  Other \_\_\_\_\_

**CONSULTANT INFORMATION**

Firm: ERI Project#: 31065  
 Address: 1901 Edmond Dr SE  
Renton, WA 98055  
 Phone: (425) 227-0280 Fax: 1-8225  
 Project Manager: John Mayhew E-mail: \_\_\_\_\_  
 Sample Collection by: John Mayhew

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

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

| SAMPLE IDENTIFICATION | SAMPLING DATE / TIME | MATRIX (W.S.O) | # OF CONTAINERS |
|-----------------------|----------------------|----------------|-----------------|
| 1. <u>MW-1</u>        | <u>5/25/99</u>       | <u>U</u>       | <u>3</u>        |
| 2. <u>MW-2</u>        | ↓                    | ↓              | ↓               |
| 3. <u>MW-3</u>        |                      |                |                 |
| 4. <u>MW-4</u>        |                      |                |                 |
| 5.                    |                      |                |                 |
| 6.                    |                      |                |                 |
| 7.                    |                      |                |                 |
| 8.                    |                      |                |                 |
| 9.                    |                      |                |                 |
| 10.                   |                      |                |                 |

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

NCA SAMPLE NUMBER

B905541-01  
-02  
-03  
-04

|                                     |                  |                             |                               |                  |                             |
|-------------------------------------|------------------|-----------------------------|-------------------------------|------------------|-----------------------------|
| Relinquished by: <u>[Signature]</u> | Firm: <u>ERI</u> | Date & Time: <u>5/24/99</u> | Received by: <u>S. Wicken</u> | Firm: <u>NCA</u> | Date & Time: <u>5/26/99</u> |
| 2. <u>[Signature]</u>               |                  |                             |                               |                  |                             |
| 3.                                  |                  |                             |                               |                  |                             |

Comments: 45

W/o 16.9

