EES
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# Technical Memorandum

## Supplemental Investigation Tasks (August 2019)

To: Frank Winslow, Washington Department of Ecology VCP

Copies: Brandon Christensen, Christensen Inc.
Marisha Hamm, Christensen Inc.
Dianne K. Conway, Gordon Thomas Honeywell LLP

From: Daniele Peters, EI, Chris Rhea, LG, and Paul Ecker, LHG

Date: October 23, 2019

Regarding: DeBock's Texaco
100 West Wine Country Road, Grandview, Washington
Ecology Facility ID #94369212, Cleanup Site ID #6910, Voluntary Cleanup ID #CE0488
EES Project 2093-01


This memorandum describes supplemental Remedial Investigation (RI) activities recently conducted at the former DeBock's Texaco site located at 100 West Wine Country Road in Grandview, Washington (Property). RI activities are being conducted in response to historic gasoline release(s) associated with former site-fueling operations. The supplemental investigative activities were conducted in accordance with the work plan dated July 5, 2019, as discussed with the Christensen Inc. team and Ecology's Voluntary Cleanup site manager, Frank Winslow.

The site location and key features are illustrated on Figures 1 and Figure set 2.

## BACKGROUND

RI findings indicate that an upgradient source(s) may be contributing to the gasoline plume originating at the subject Property. As discussed with Ecology, further investigation was necessary to characterize plume conditions and the potential for historic and ongoing contamination originating from undefined upgradient sources. The purpose of this memorandum is to describe recent supplemental RI activities that address the identified data gaps, including temporary boring and well installation and additional source-area groundwater monitoring. The supplemental investigative tasks contribute to completion of the RI and support remedial action planning, in accordance with the Model Toxics Control Act ("MTCA"), Washington's environmental cleanup rules (WAC 173-340 and 173-360), and related published guidance (Ecology Publication 10-09-057, revised June 2016).

RI tasks conducted to date include historical review, site assessment, plume monitoring and characterization activities, and development of a preliminary conceptual site model, including beneficial water-use determination. Subsurface data developed between 2017 and 2019 supplement prior site

information and help to characterize contaminant sources and distribution. Supporting background information is summarized below and detailed in an RI status report dated January 4, 2019. Attached Figures 2A through 7 illustrate recent investigative findings.

Available RI data confirm that residual gasoline impacts in smear-zone soil (approximately 10 to 22 feet below ground surface) and shallow groundwater at the subject Property represent a continuing source of contamination throughout the site. Free-phase gasoline is present on the water table at monitoring well MW-2, located along the western (downgradient) Property boundary, but appears very localized and has not been identified at any other surrounding locations. Dissolved groundwater plume concentrations exceed MTCA cleanup levels throughout much of the subject Property and extend beyond Property boundaries at several locations.

Other than at well MW-2, where floating free product is observed, the greatest concentrations of dissolved gasoline and benzene in groundwater have been observed at boring B1, which is located at a former UST and piping area near the Property's northwestern corner. Although this B1/UST area represents a likely source originating on the subject Property, elevated gasoline concentrations in groundwater are observed at locations north of the subject Property, suggesting additional source(s) may also be present at upgradient locations where historic fueling and other operations occurred over many decades (see Figure 2C). All observed impacts are extensively degraded and consistent with the long history of fueling and maintenance activities on and near the subject Property.

## SUPPLEMENTAL RI TASKS

Based on discussions with Ecology, and in view of MTCA requirements and the need "to fully characterize groundwater quality throughout the plume," EES conducted supplemental RI tasks at the Debock's site in August 2019. The purpose of supplemental RI tasks described in this memo is (1) to evaluate groundwater conditions north of the DeBock's Property to determine whether gasoline-related sources may be present near those upgradient locations, and (2) establish a monitoring well for characterization of groundwater conditions at the B1/UST source area.

Findings from these efforts demonstrate that upgradient sources are contributing to the DeBock's gasoline plume, and a newly installed monitoring well (MW-13) aids in characterizing groundwater conditions at the B1/UST source area. Following a confirmatory monitoring event scheduled for March 2020, EES plans to submit a final RI Report. Implementation of interim cleanup actions including product removal from MW-2 will continue during this RI monitoring period while cleanup action planning is under development.

### SOIL AND GROUNDWATER INVESTIGATION

Soil and groundwater investigation activities were completed at the Debock's site in August 2019. During this field event, EES collected soil and groundwater samples at five temporary upgradient borings (B19 through B23) and at a new RI well (MW-13) installed at the Property's B1/UST location. Groundwater samples were also collected at several wells near MW-13 (MW-5, MW-10, MW-11, and

MW-12). Drilling and sampling activities are summarized below. Boring and well locations are illustrated on Figure 4.

### Utility Locating

Before initiating subsurface drilling work, EES coordinated with public and private utility locators and City representatives to identify and avoid underground utilities at each of the proposed boring locations. During this research process, the City indicated the presence of a stormwater infiltration trench beneath the north side of Wine Country Road, as shown on Figure 2B. This feature is significant, because it contributes increased stormwater infiltration immediately north and up-gradient of the Debock's Property and may alter water-table conditions near local contaminant sources.

### Drilling and Well Installation

From August 6 through 8, 2019, five temporary soil borings were advanced (B19 through B23) upgradient of the DeBock's Property, north of Wine Country Road and within the City's sidewalk right-of-way. All right-of-way work was approved by the City of Grandview Public Works Director, Cus Arteaga. Boring B18 was drilled and converted to a re-usable monitoring well (MW-13) at a likely source area located on the northwestern corner of the Property where a gasoline UST was historically operated. Well MW-13 is intended to duplicate the former boring B1 sampling location.

Drilling and well installation activities were conducted by Cascade Drilling (Woodinville, Washington) using direct-push methods. Borings were initially hand-augered at shallow depths as a precaution to avoid subsurface infrastructure and unmarked features, then advanced to terminal depths of approximately 25 feet below ground surface (bgs). Well MW-13 was installed, developed, and surveyed in accordance with standard practices and Ecology criteria. Soil and groundwater samples were collected from each of the borings and submitted for laboratory analysis.

### Subsurface Conditions

Subsurface conditions were relatively uniform across the boring locations and were consistent with previous observations at the site. Brown to gray native soil consisting of silty sands and sandy silts was observed extending to maximum depths explored of approximately 25 feet bgs. Soil samples were field screened for sheen and for volatile organic vapors using a photoionization detector (PID). Boring and well-construction logs are provided as Attachment A.

Saturated soils were observed at each of the borings at depths of approximately 15 to 17 feet bgs, with stable groundwater measured at approximately 18 to 20 feet bgs. Based on the observed groundwater conditions, new PVC well screens were placed at and above the water table in each borehole. Groundwater was purged until non-turbid, then samples were collected in laboratory-provided containers using a peristaltic pump with new polyethylene tubing.

At boring B18 (MW-13), field indications of petroleum contamination were identified between approximately 13 and 23 feet of the ground surface, which is consistent with conditions observed at B1 during the 2018 investigative drilling events and within the expected range of water table fluctuation and smear-zone conditions. Field observations also indicated obvious petroleum impacts within the

groundwater smear-zone at depths between approximately 13 and 20 feet at borings B19 and B21, located upgradient of the subject Property on the northwest and northeast corners of the Wine Country Road and Division Street intersection.

### Supplemental Groundwater Sampling

The first of two supplemental groundwater monitoring events was conducted on August 8, 2019, with the next event scheduled for March 2020. The limited additional groundwater monitoring is intended to characterize seasonal water table conditions surrounding the new, source-area monitoring well, MW-13. Groundwater testing at four adjacent wells (MW-5, MW-10, MW-11, and MW-12) provides a basis of comparison to the MW-13 and upgradient data.

Before conducting monitoring well purging and sampling, depth to water was measured across the site's full well network. The water table was observed at approximately 18 to 20 feet bgs and flowed to the southwest during the August monitoring event, which is consistent with site data collected since 2017. Depth to water measurements and corresponding water table elevations are provided in Table 2 and illustrated on Figure 6. Groundwater samples were collected from each monitoring well using a peristaltic pump and new disposable polyethylene tubing. Sampling was conducted in accordance with standard low-flow methods. Water quality redox and stability parameters (dissolved oxygen, oxygen reduction potential, ferrous iron, pH, temperature, and conductivity) are provided in Table 3.

### Investigation-Derived Waste

Investigation-derived soil cuttings and purge water were placed in sealed, labeled drums and stored temporarily at the subject Property. Waste profiling and disposal of soil is being coordinated for late 2019. Purge water will be temporarily stored at the subject Property and will be disposed of following the March 2020 groundwater sampling event. Disposal documentation will be provided to Christensen Inc. when available.

## LABORATORY ANALYTICAL RESULTS

Soil and groundwater samples collected during the August sampling event were submitted to Apex Laboratories (Tigard, Oregon) for chemical analysis.

Soil samples were analyzed for gasoline-range organics by Method NWTPH-Gx and related volatile organic compounds (benzene, toluene, ethylbenzene, xylenes [BTEX], and naphthalene) by EPA Method 5035/8260. One vadose-zone soil sample per boring was analyzed from each of the five up-gradient locations (B19 through B23). Soil samples from four depth intervals were analyzed at the MW-13 (B18) boring location to characterize source-area soil conditions.

Groundwater samples collected from each of the temporary borings (B19 through B23) and select monitoring wells (MW-5 and MW-10 through MW-13) were analyzed for gasoline (Method NWTPH-Gx) and gasoline-related volatiles (Method EPA 8260). For source-area confirmatory characterization, the groundwater sample collected from MW-13 was also analyzed for diesel- and oil-range hydrocarbons (Method MWTPH-Dx).

Laboratory analytical results are summarized below, presented in Tables 1 and 4, and illustrated on Figures 5 and 7. A copy of the laboratory analytical report is provided as Attachment B.

### Up-Gradient Source Area (B19-B23)

Gasoline contamination was identified at three of the five borings located north and northeast of the Debock's Property closest to Division Street (Tables 1 and 4 and Figures 5 and 7). Impacts were confirmed in smear-zone soils and groundwater, with the greatest gasoline concentrations identified directly upgradient of the DeBock's Property at B19, which is on the northwest corner of the Wine Country Road and Division Street intersection. Confirmatory laboratory testing was not conducted on shallow soils. These locations correspond with historical automotive and fueling operations as shown on Figure 2C.

- In soil, gasoline was detected at borings B19 and B21 at concentrations of 4,740 and 119 milligrams per kilogram (mg/kg), respectively, at depths between 14 and 15 feet bgs. These concentrations exceed the default MTCA Method A cleanup level of 30 mg/kg.
  - Gasoline-related volatile constituents were also detected at these two locations, but at relatively low concentrations. Only naphthalene (36 mg/kg) at B19 exceeded the Method A cleanup level of 5 mg/kg.
  - Gasoline and related constituents were not detected in laboratory-analyzed samples collected from the other right-of-way borings (B20, B22, and B23).
- In groundwater, gasoline was detected in groundwater samples collected from up-gradient borings B19, B20, and B21 at concentrations ranging between 1,130 and 4,160 micrograms per liter (ug/L), respectively, which all exceed the MTCA Method A cleanup level of 800 ug/L. Gasoline was not detected in samples collected from B22 or B23.
  - Gasoline-related constituents (BTEX and/or naphthalene) were detected in samples consistent with where gasoline was identified. Detected concentrations were all below MTCA Method A cleanup levels.
  - No free-phase hydrocarbons (LNAPL) were identified at the right-of-way boring locations.

### On-Property UST Source-Area (B18/MW-13)

Boring B18 was drilled and converted to monitoring well MW-13 at the former B1/UST source-area near the northwest corner of the subject Property. Soil analytical results confirmed gasoline contamination at B18 at depths between 15 and 20 feet bgs, from within the known groundwater smear-zone (between approximately 12 and 23 feet bgs based on historical site data), and consistent with conditions observed during the 2018 sampling in the similar B1 location (Table 1 and Figure 5). Gasoline impacts were not identified in shallower (10 foot) or deeper (25 foot) soil samples from B18, bracketing the vertical extent of contamination in this area.

Among the five wells sampled near the MW-13 well location in August 2019, dissolved-phase gasoline was detected in four of the five samples (Table 4 and Figure 7). The site's greatest dissolved gasoline concentration was detected at MW-13, confirming a likely source near this former UST area.

- In soil, gasoline was detected in samples collected at 15 and 20 feet bgs at concentrations of 1,600 and 1,210 mg/kg, respectively, which exceed the MTCA Method A cleanup level of 30 mg/kg.
  - Gasoline-related constituents (BTEX and/or naphthalene) were also identified at depths of 15 and 20 feet bgs. Soil concentrations of benzene (0.031 mg/kg at 20 feet) and naphthalene (7.3 mg/kg at 15 feet) slightly exceed the MTCA Method A cleanup levels of 0.03 mg/kg and 5 mg/kg, respectively.
  - No indications of petroleum contamination were observed above 10 feet bgs or below 23 feet bgs.
- Among groundwater samples collected on and immediately adjacent to the DeBock's Property (MW-10 through MW-13), concentrations of gasoline ranged from 115 to 2,580 micrograms per liter (ug/L). Of these detections, only one sample (2,580 ug/L at MW-13) exceeded the MTCA Method A cleanup level of 800 ug/L. Gasoline was not detected in the sample collected from downgradient well MW-5, located west of the Property boundary.
  - Gasoline-related constituents (BTEX and/or naphthalene) were detected in samples consistent with where gasoline was identified. Concentrations were generally below MTCA Method A cleanup levels, except for benzene at MW-13 (8.1 ug/L), which slightly exceeded the MTCA Method A cleanup level of 5 ug/L.
  - Although diesel-range hydrocarbons were identified in the sample collected from MW-13 at a concentration of 1,000 ug/L, the identified diesel concentration was estimated by the laboratory to be due to overlap expected from gasoline range organics and is not representative of a diesel source. Oil-range hydrocarbons were not detected in the MW-13 sample.
  - No LNAPL was identified in site wells except at MW-2, where ongoing product recovery is being conducted.

## CONCLUSIONS

Based on the findings of this supplemental investigation, one or more sources of gasoline contamination originates north of Wine Country Road near Division Street and upgradient from the DeBock's facility. The identified upgradient contaminants are present in shallow groundwater at concentrations exceeding MTCA cleanup criteria and appear likely to migrate towards the DeBock's facility, where historic operations resulted in similar impacts to soil and groundwater that are currently being evaluated for cleanup. If migrating, these upgradient fuel source(s) present implications for possible recontamination and could impede cleanup of the DeBock's site.

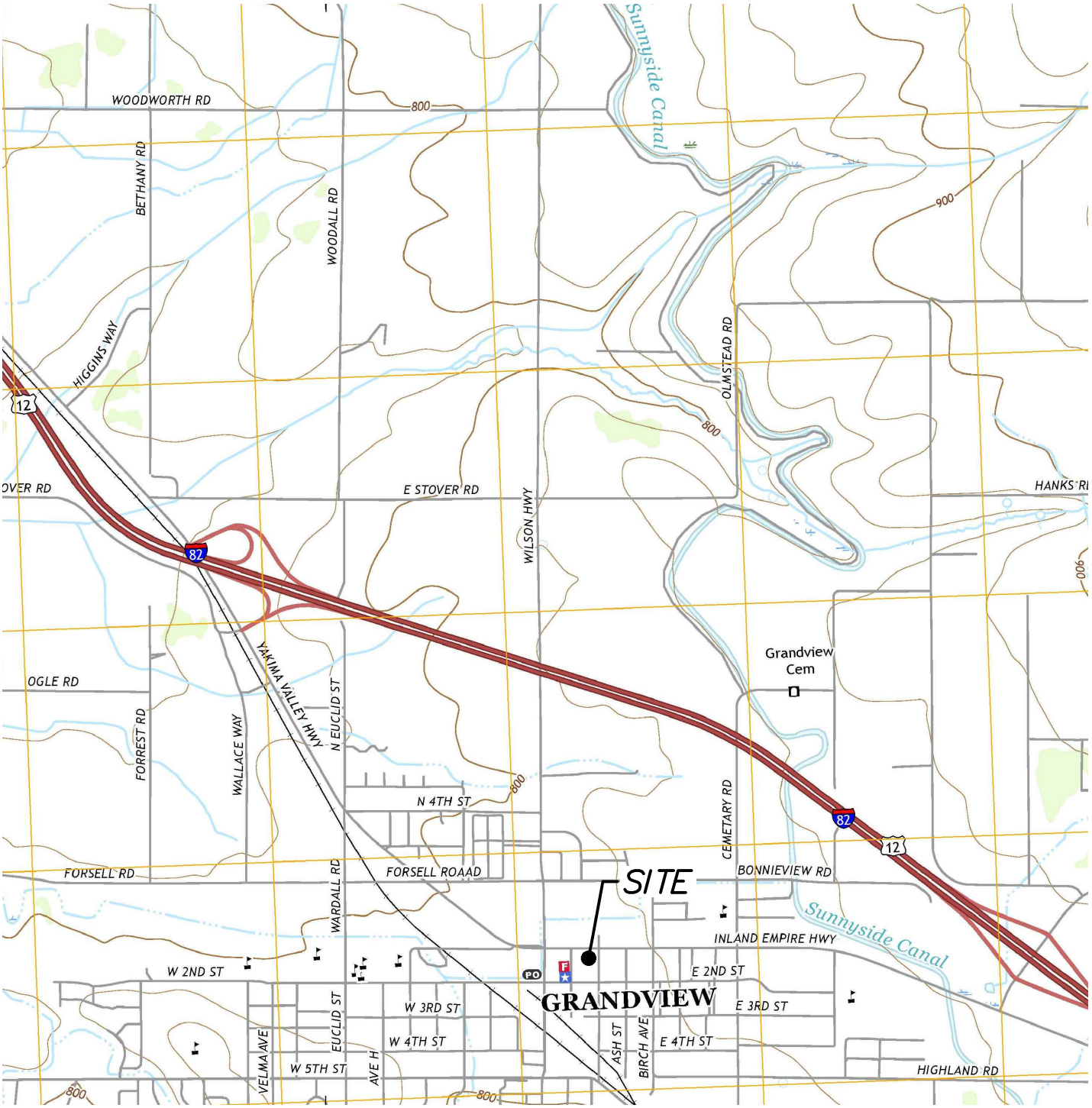
Subject to the findings of an additional confirmatory monitoring event as planned for March 2020, EES believes that site characterization of the DeBock's site is adequately addressed and an RI report can be completed. If Ecology concurs that investigative data gaps are resolved for the DeBock's RI, then an action plan will be developed to address MTCA cleanup requirements attributable to the DeBock's facility. Upgradient source(s) will be considered as Christensen Inc. develops a cleanup action plan for the DeBock's Property. However, further investigation and cleanup of upgradient sources, which now have been reasonably demonstrated, will be the responsibility of other parties.

## ATTACHMENTS

Figure 1: Site Vicinity Map
Figure 2A: Site Features
Figure 2B: Utility Layout
Figure 2C: Potential Historic Contaminant Sources
Figure 3: Monitoring Well and Historic Sample Data
Figure 4: Sample Locations (August 2019)
Figure 5: Soil Analytical Results – March-August 2019
Figure 6: Groundwater Elevation Contours (August 8, 2019)
Figure 7: Groundwater Analytical Results – February 2018-August 2019

Attachment A: Boring and Well Construction Logs
Attachment B: Laboratory Analytical Results

# Figures




SOURCE:
USGS, GRANDVIEW QUADRANGLE
WASHINGTON–YAKIMA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

N

APPROXIMATE SCALE IN FEET

0 1000 2000 4000

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SITE VICINITY MAP

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

| | | |
|---|---|---|
| DATE: | 9–9–19 | PROJECT NO. |
| FILE: | 2093–01 | 2093–01 |
| DRAWN: | JJT | FIGURE NO. |
| APPROVED: | DBP | 1 |

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LEGEND

- PROPERTY LINE
- BUILDING
- ROADWAY
- MW–1 MONITORING WELL
- TOMW–6 TIME OIL MONITORING WELL (DECOMMISIONED BY OTHERS, 2019)
- UST FILL PORT
- FORMER UST LOCATIONS
- SITE FEATURES ARE APPROXIMATE.

ANDERSON MOTORS

COMMERCIAL BUSINESS

RETAIL/COMMERCIAL BUSINESSES

WEST MAIN STREET/WINE COUNTRY ROAD

APPROXIMATE GROUNDWATER FLOW DIRECTION

FORMER GASOLINE UST LOCATION (550 GAL.)

FORMER GASOLINE UST LOCATION (1,000 GAL.)

SIDEWALK

MW–10

MW–11

MW–3

FORMER FUEL DISPENSER ISLAND

RETAIL FUELING

MW–5

MW–13

ABANDONED FUEL TRANSMISSION PIPING

MW–12

RESTAURANT (JAVI'S CHICKEN & CHURROS)

DEBOCK'S TEXACO

PEREZ PROPERTY

MW–4

MW–2

MW–9

EXXON/TIME OIL

SIDEWALK

DIVISION STREET

FORMER GASOLINE UST LOCATIONS (5,000 & 8,000 GAL.)

MW–8

RESTAURANT (EL CAMPESTRE)

MW–1

TOMW–6

MW–7

MW–6

ALLEY

N

APPROXIMATE SCALE IN FEET

0 25 50

| | |
|---|---|
| PROJECT NO. | 2093-01 |
| DATE: 9-19-19 | FIGURE NO. 2A |
| FILE: 2093-01 | |
| DRAWN: JJT | |
| APPROVED: DBP | |

SITE FEATURES

DEBOCK'S TEXACO
100 WEST MAIN ST.
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## LEGEND

- PROPERTY LINE
- MW-1 — MONITORING WELL
- TOMW-6 — TIME OIL MONITORING WELL (DECOMMISSIONED BY OTHERS, 2019)
- WATER METER
- GAS METER
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- CATCH BASIN
- DRAIN
- UST FILL PORT
- POLE
- LIGHT POLE
- ST — STORM SEWER
- S — SANITARY SEWER
- W — WATER
- G — GAS
- FO — FIBER OPTIC
- P — POWER
- ? — UNKNOWN UTILITY
- IR — IRRIGATION

SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET

0 25 50

N

ANDERSON MOTORS

COMMERCIAL BUSINESS

RETAIL/COMMERCIAL BUSINESSES

INFILTRATION TRENCH

4.7'

32"

WEST MAIN STREET/WINE COUNTRY ROAD

FORMER GASOLINE UST LOCATION (1,000 GAL.)

FORMER GASOLINE UST LOCATION (550 GAL.)

SIDEWALK

MW-10

MW-11

MW-3

FORMER FUEL DISPENSER ISLAND

RETAIL FUELING

MW-5

MW-13

ABANDONED FUEL TRANSMISSION PIPING

MW-12

4.2'

3.0'

RESTAURANT (JAVI'S CHICKEN & CHURROS)

DEBOCK'S TEXACO

PEREZ PROPERTY

MW-4

MW-2

MW-9

DIVISION STREET

EXXON/TIME OIL

FORMER GASOLINE UST LOCATIONS (5,000 & 8,000 GAL.)

2.1'

2.5'

MW-8

MW-1

10.5'

3.2'

2.6'

0.5'

RESTAURANT (EL CAMPESTRE)

TOMW-6

MW-7

2.6'

3.5'

2.8'

MW-6

ALLEY

3.0'

3.0'

**APPROXIMATE GROUNDWATER FLOW DIRECTION**

| | |
|---|---|
| PROJECT NO. | 2093-01 |
| DATE: 9-19-19 | FIGURE NO. 2B |
| FILE: 2093-01 | |
| DRAWN: JJT | |
| APPROVED: DBP | |

UTILITY LAYOUT

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

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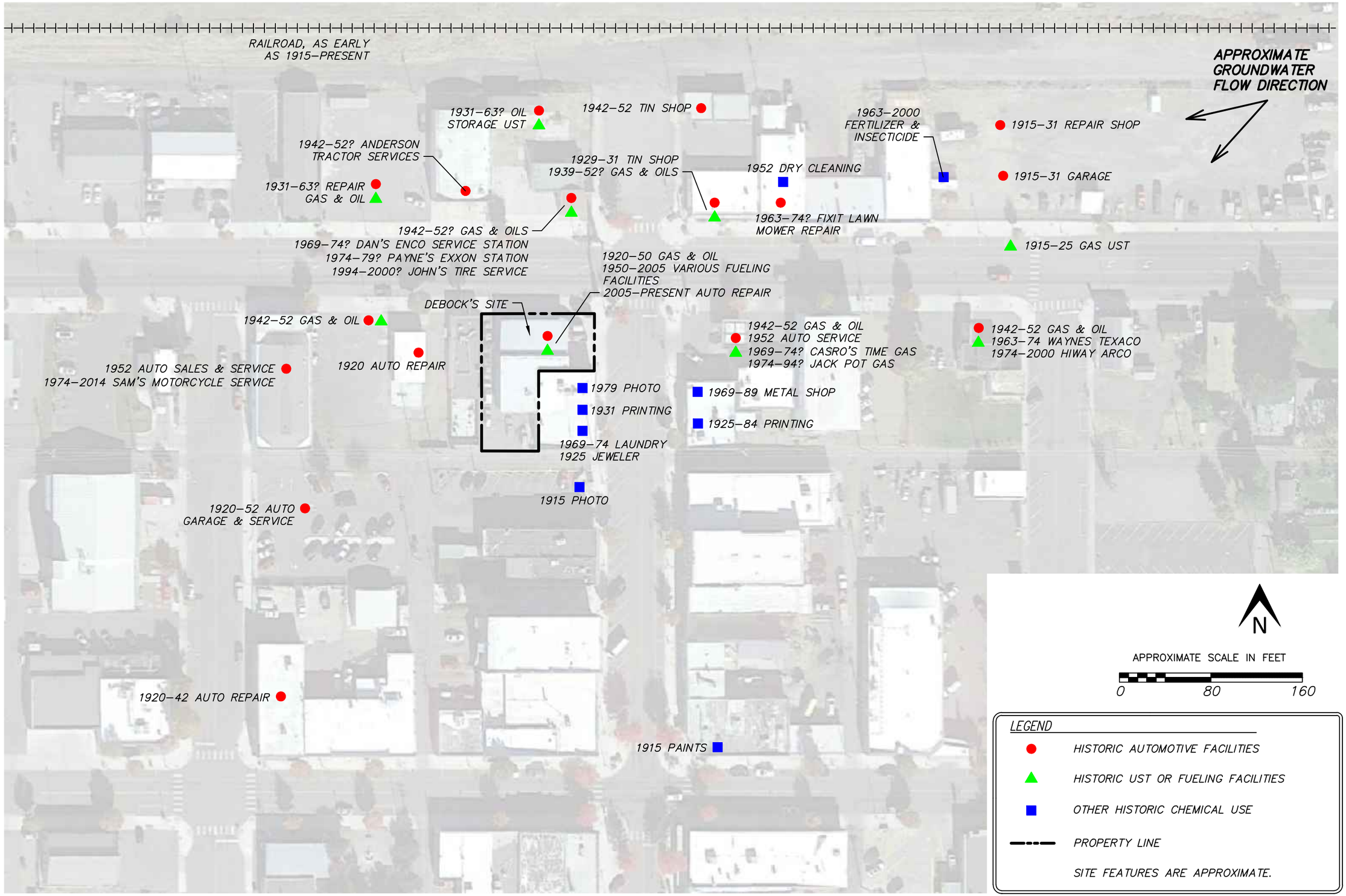


N

APPROXIMATE SCALE IN FEET

0 80 160

LEGEND

- HISTORIC AUTOMOTIVE FACILITIES
- HISTORIC UST OR FUELING FACILITIES
- OTHER HISTORIC CHEMICAL USE
- PROPERTY LINE

SITE FEATURES ARE APPROXIMATE.

| | |
|---|---|
| PROJECT NO. | 2093-01 |
| DATE: 9-13-19 | FIGURE NO. 2C |
| FILE: 2093-01 | |
| DRAWN: JJT | |
| APPROVED: DBP | |

POTENTIAL HISTORIC CONTAMINANT SOURCES

DEBOCK'S TEXACO
100 WEST MAIN ST.
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LEGEND

- PROPERTY LINE
- MW–1 ⊕ MONITORING WELL (OLYMPUS, 1998)
- SP–1 ● SOIL BORING LOCATION (BY OTHERS, 1995–2000)
- 101 ⊕ EXCAVATION SOIL SAMPLE LOCATION (WSI, 1995)
- MTCA METHOD A CLEANUP LEVEL EXCEEDANCE IN SOIL SHALLOWER THAN 10' DEPTH
- MTCA METHOD A CLEANUP LEVEL EXCEEDANCE IN SOIL AT 10' OR GREATER DEPTH
- GROUNDWATER MTCA METHOD A CLEANUP LEVEL EXCEEDANCE

SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET

0 25 50

N

ANDERSON MOTORS

COMMERCIAL BUSINESS

GP–3

GP–4

RETAIL/COMMERCIAL BUSINESSES

APPROXIMATE GROUNDWATER FLOW DIRECTION

WEST MAIN STREET/WINE COUNTRY ROAD

FORMER GASOLINE UST LOCATION (550 GAL.)

EXCAVATION AREA

FORMER GASOLINE UST LOCATION (1,000 GAL.)

SIDEWALK

SB–4

SB–3

SP–4

MW–3

203

302

SP–3

SP–1

FORMER FUEL DISPENSER ISLAND

205

303

SP–2

301

202

ABANDONED FUEL TRANSMISSION PIPING

204

SP–5

SB–6

SB–5

201

GP–2

RETAIL FUELING

RESTAURANT (JAVI'S CHICKEN & CHURROS)

DEBOCK'S TEXACO

GP–1

PEREZ PROPERTY

MW–2

SB–7

RESTAURANT (EL CAMPESTRE)

SIDEWALK

DIVISION STREET

EXXON/TIME OIL

FORMER GASOLINE UST LOCATIONS (5,000 & 8,000 GAL.)

104

105

107

MW–1

103

101

106

GP–5

EXCAVATION AREA

102

| | |
|---|---|
| PROJECT NO. | 2093–01 |
| DATE: | 9–19–19 |
| FILE: | 2093–01 |
| DRAWN: | JJT |
| APPROVED: | DBP |
| FIGURE NO. | 3 |

MONITORING WELL AND HISTORIC SAMPLE DATA

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

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LEGEND

- PROPERTY LINE
- MW–13 — MONITORING WELL (MONITORED AUGUST 2019)
- MW–1 — MONITORING WELL (MONITORED IN 2018–2019)
- TOMW–6 — TIME OIL MONITORING WELL DECOMMISSIONED BY OTHERS, 2019)
- B1 — SOIL BORING (EES, 2018)
- B19 — SOIL BORING (EES, 2019)
- SG1 — SOIL GAS SAMPLE LOCATION–5' DEPTH (EES, 2018)
- CATCH BASIN
- DRAIN
- UST FILL PORT
- DRY WELL

SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET

0 25 50

N

ANDERSON MOTORS

COMMERCIAL BUSINESS

INFILTRATION TRENCH

B22 B20 B19

RETAIL/COMMERCIAL BUSINESSES

B21 B23

APPROXIMATE GROUNDWATER FLOW DIRECTION

WEST MAIN STREET/WINE COUNTRY ROAD

FORMER GASOLINE UST LOCATION (550 GAL.)

FORMER GASOLINE UST LOCATION (1,000 GAL.)

SIDEWALK

MW–10 (B15)

MW–11 (B16)

MW–3

FORMER FUEL DISPENSER ISLAND

B1 B4 B3

SG3 SG7

ABANDONED FUEL TRANSMISSION PIPING

MW–5 (B5)

MW–13 (B18)

MW–12 (B17)

RETAIL FUELING

RESTAURANT (JAVI'S CHICKEN & CHURROS)

SG6 SG2 SG8

B6

DEBOCK'S TEXACO

PEREZ PROPERTY

MW–4 (B2)

MW–2

MW–9 (B14)

SG1 B7

FORMER GASOLINE UST LOCATIONS (5,000 & 8,000 GAL.)

RESTAURANT (EL CAMPESTRE)

SIDEWALK

DIVISION STREET

EXXON/TIME OIL

MW–8 (B11) SG4

MW–1

B9

B8

MW–7 (B13)

TOMW–6

SG9

B10

SG5

MW–6 (B12)

ALLEY

SAMPLE LOCATIONS (AUGUST 2019)

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

| | |
|---|---|
| PROJECT NO. | 2093–01 |
| FIGURE NO. | 4 |
| DATE: | 9–19–19 |
| FILE: | 2093–01 |
| DRAWN: | JJT |
| APPROVED: | DBP |

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APPROXIMATE SCALE IN FEET

0 25 50

N

ANDERSON MOTORS

COMMERCIAL BUSINESS

INFILTRATION TRENCH

RETAIL/COMMERCIAL BUSINESSES

| B22 | G | B | N |
|---|---|---|---|
| 15 | 5.6U | 0.011U | 0.11U |

B22

| B20 | G | B | N |
|---|---|---|---|
| 15 | 5.5U | 0.011U | 0.11U |

B20

B19

| B19 | G | B | N |
|---|---|---|---|
| 15 | 4,740 | 0.45U | 36 |

| B21 | G | B | N |
|---|---|---|---|
| 14 | 119 | 0.016U | 1.4 |

B21

B23

| B23 | G | B | N |
|---|---|---|---|
| 15 | 6.1U | 0.012U | 0.12U |

APPROXIMATE GROUNDWATER FLOW DIRECTION

WEST MAIN STREET/WINE COUNTRY ROAD

| B1 | G | B | N | D |
|---|---|---|---|---|
| 3 | 6.5U | 0.013U | 0.13U | -- |
| 10 | 7.1U | 0.014U | 0.14U | -- |
| 15 | 9,970 | 0.23U | 40 | 25U |
| 20 | 44 | 0.026 | 0.34 | -- |
| 25 | 6.4U | 0.013U | 0.13U | -- |

| B15 | G | B | N |
|---|---|---|---|
| 3 | 7.6U | 0.013U | 0.15U |
| 15 | 7,840 | 0.24U | 24 |
| 20 | 318 | 0.025U | 0.25U |

| B16 | G | B | N |
|---|---|---|---|
| 3 | 7.0U | 0.014U | 0.14U |
| 14 | 441 | 0.025U | 1.8 |
| 20 | 34 | 0.016U | 0.16U |

| B4 | G | B | N | D |
|---|---|---|---|---|
| 15 | 5,600 | 0.26U | 29 | -- |
| 17 | 22,300 | 0.52U | 126 | 342* |
| 20 | 10,500 | 0.50U | 39 | -- |
| 25 | 5.8U | 0.012U | 0.12U | -- |

FORMER GASOLINE UST LOCATION (550 GAL.)

FORMER GASOLINE UST LOCATION (1,000 GAL.)

SIDEWALK

MW-10 (B15)

MW-11 (B16)

MW-3

FORMER FUEL DISPENSER ISLAND

| B5 | G | B | N |
|---|---|---|---|
| 5 | 6.2U | 0.012U | 0.12U |
| 10 | 5.6U | 0.011U | 0.11U |
| 15 | 82 | 0.011U | 0.19 |
| 20 | 2,300 | 0.012U | 9.1 |
| 25 | 6.8U | 0.014U | 0.14U |

MW-5 (B5)

MW-13 (B18)

| B18 | G | B | N |
|---|---|---|---|
| 10 | 7.0U | 0.014U | 0.14U |
| 15 | 1,600 | 0.013U | 7.3 |
| 20 | 1,210 | 0.031 | 3.8 |
| 25 | 6.2U | 0.012U | 0.12 |

B1

B4

SG3

ABANDONED FUEL TRANSMISSION PIPING

SG7

B3

| B3 | G | B | N |
|---|---|---|---|
| 3 | 6.3U | 0.013U | 0.13U |
| 10 | 6.4U | 0.013U | 0.13U |
| 15 | 10,000 | 0.47U | 37 |
| 20 | 13 | 0.011U | 0.11U |
| 25 | 6.9U | 0.014U | 0.14U |

MW-12 (B17)

| B17 | G | B | N |
|---|---|---|---|
| 3 | 7.6U | 0.015U | 0.15U |
| 16.5 | 670 | 0.065 | 2.0 |
| 20 | 7.9U | 0.016U | 0.16U |

RESTAURANT (JAVI'S CHICKEN & CHURROS)

SG6

DEBOCK'S TEXACO

SG2

SG8

| B6 | G | B | N | D |
|---|---|---|---|---|
| 3 | 6.5U | 0.013U | 0.13U | -- |
| 15 | 631 | 0.015U | 2.7 | -- |
| 17 | 206 | 0.026 | 0.86 | 25U |
| 20 | 1,110 | 0.054 | 2.7 | -- |
| 25 | 6.1U | 0.012U | 0.12U | -- |

B6

MW-2

MW-9 (B14)

| B14 | G | B | N |
|---|---|---|---|
| 3 | 6.4U | 0.013U | 0.13U |
| 16 | 108 | 0.014U | 0.14U |

PEREZ PROPERTY

| B2 | G | B | N |
|---|---|---|---|
| 10 | 6.3U | 0.013U | 0.13U |
| 15 | 648 | 0.025U | 1.9 |
| 19 | 1,530 | 0.078 | 1.8 |
| 25 | 5.1U | 0.010U | 0.10U |

MW-4 (B2)

| B7 | G | B | N |
|---|---|---|---|
| 3 | 6.8U | 0.014U | 0.14U |
| 15 | 4,190 | 0.045U | 7.6 |
| 20 | 9.5 | 0.011U | 0.11U |

B7

SG1

EXXON

DIVISION STREET

SIDEWALK

FORMER GASOLINE UST LOCATIONS (5,000 & 8,000 GAL.)

RESTAURANT (EL CAMPESTRE)

MW-8 (B11)

SG4

| B11 | G | B | N | D |
|---|---|---|---|---|
| 3 | 6.0U | 0.012U | 0.12U | -- |
| 16 | 53 | 0.014U | 0.34 | 26U |
| 20 | 15 | 0.012U | 0.13 | -- |

| B8 | G | B | N |
|---|---|---|---|
| 3 | 6.9U | 0.014U | 0.14U |
| 15 | 141 | 0.013U | 0.23 |
| 20 | 367 | 0.013U | 0.60 |
| 25 | 5.8U | 0.012U | 0.12U |

B8

MW-1

B9

TOMW-6

SG9

| B9 | G | B | N | D |
|---|---|---|---|---|
| 16.5 | 6,360 | 0.14U | 11 | 51* |
| 20 | 5.4U | 0.011U | 0.11U | -- |

| B13 | G | B | N |
|---|---|---|---|
| 15 | 6.4U | 0.013U | 0.13U |
| 20 | 4,530 | 0.24U | 2.5 |
| 25 | 6.3U | 0.013U | 0.13U |

MW-7 (B13)

B10

| B12 | G | B | N |
|---|---|---|---|
| 3 | 6.2U | 0.012U | 0.12U |
| 10 | 6.5U | 0.013U | 0.13U |
| 16 | 915 | 0.026U | 1.8 |
| 20 | 5.9U | 0.012U | 0.12U |

SG5

MW-6 (B12)

ALLEY

| B10 | G | B | N |
|---|---|---|---|
| 3 | 7.1U | 0.014U | 0.14U |
| 15 | 6.4U | 0.013U | 0.13U |
| 20 | 6.4U | 0.013U | 0.13U |

LEGEND

- PROPERTY LINE
- MW-1 MONITORING WELL
- MW-4 MONITORING WELL (EES, 2019)
- TOMW-6 TIME OIL MONITORING WELL (DECOMMISSIONED BY OTHERS, 2019)
- B1 SOIL BORING (EES, 2018)
- B19 SOIL BORING (EES, 2019)
- SG1 SOIL GAS SAMPLE LOCATION–5' DEPTH (EES, 2018)
- CATCH BASIN
- DRAIN
- UST FILL PORT
- DRY WELL
- G= GASOLINE
- B= BENZENE
- N= NAPHTHALENE
- D= DIESEL
- U= NOT DETECTED AT METHOD REPORTING LIMIT
- -- NOT ANALYZED FOR THIS PARAMETER
- HISTORIC AUTOMOTIVE FACILITIES
- HISTORIC UST OR FUELING FACILITIES
- * DIESEL DETECTION DUE TO OVERLAP FROM GASOLINE RANGE PRODUCT
- RESULTS SHOWN IN MILLIGRAMS PER KILOGRAM (mg/kg)
- SITE FEATURES ARE APPROXIMATE.

| | |
|---|---|
| PROJECT NO. | 2093-01 |
| DATE: 9-19-19 | FIGURE NO. 5 |
| FILE: 2093-01 | |
| DRAWN: JJT | |
| APPROVED: DBP | |

SOIL ANALYTICAL RESULTS
MARCH–AUGUST 2019

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

EES
ENVIRONMENTAL CONSULTING, INC.
240 N Broadway #203, Portland, OR 97227
(503) 847-2740
www.ees-environmental.com

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LEGEND

- PROPERTY LINE
- MW–1 — MONITORING WELL
- TOMW–6 — TIME OIL MONITORING WELL (DECOMMISSIONED BY OTHERS, 2019)
- CATCH BASIN
- 792.82 — GROUNDWATER ELEVATION (FEET)
- 792.0 — APPROXIMATE GROUNDWATER ELEVATION ISOCONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- NM = NOT MEASURED
- SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET

0 25 50

N

ANDERSON MOTORS

COMMERCIAL BUSINESS

RETAIL/COMMERCIAL BUSINESSES

WEST MAIN STREET/WINE COUNTRY ROAD

APPROXIMATE GROUNDWATER FLOW DIRECTION

FORMER GASOLINE UST LOCATION (550 GAL.)

FORMER GASOLINE UST LOCATION (1,000 GAL.)

SIDEWALK

MW–10 793.35

MW–11 793.73

MW–3 794.02

FORMER FUEL DISPENSER ISLAND

RETAIL FUELING

ABANDONED FUEL TRANSMISSION PIPING

MW–5 792.82

MW–13 793.32

MW–12 793.50

RESTAURANT (JAVI'S CHICKEN & CHURROS)

DEBOCK'S TEXACO

PEREZ PROPERTY

MW–4 792.35

MW–2 NM

MW–9 793.95

794.0

EXXON/TIME OIL

DIVISION STREET

SIDEWALK

FORMER GASOLINE UST LOCATIONS (5,000 & 8,000 GAL.)

RESTAURANT (EL CAMPESTRE)

MW–8 793.13

MW–1 793.01

TOMW–6

MW–7 791.99

792.0

MW–6 792.68

ALLEY

793.0

PROJECT NO. 2093–01
FIGURE NO. 6
DATE: 9–19–19
FILE: 2093–01
DRAWN: JJT
APPROVED: DBP

GROUNDWATER ELEVATION CONTOURS (AUGUST 8, 2019)

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

EES
ENVIRONMENTAL CONSULTING, INC.
240 N Broadway #203, Portland, OR 97227
(503) 847-2740
www.ees-environmental.com

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APPROXIMATE SCALE IN FEET

0 25 50

N

**APPROXIMATE GROUNDWATER FLOW DIRECTION**

| PROJECT NO. | 2093-01 |
|---|---|
| DATE: 10-23-19 | FIGURE NO. 7 |
| FILE: 2093-01 | |
| DRAWN: JJT | |
| APPROVED: DBP | |

GROUNDWATER ANALYTICAL RESULTS
FEBRUARY 2018 – AUGUST 2019

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.


EES
ENVIRONMENTAL CONSULTING, INC.
240 N Broadway #203, Portland, OR 97227
(503) 847-2740
www.ees-environmental.com


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| B22 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 8/7/19 | 100U | 0.20U | 2.0U |

| B20 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 8/7/19 | 1,840 | 0.22 | 2.0U |

| B19 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 8/7/19 | 4,160 | 0.20U | 15 |

| B21 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 8/7/19 | 1,130 | 0.20U | 3.4 |

| B23 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 8/8/19 | 100U | 0.20U | 2.0U |

| MW-12 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 4/24/18 | 3,780 | 5.8 | 6.0 |
| 7/19/18 | 2,070 | 2.3 | 20U |
| 10/24/18 | 2,060 | 5.1 | 6.9 |
| 1/23/19 | 1,160 | 1.9 | 2.4 |
| 8/8/19 | 272 | 0.43 | 2.0U |

| MW-10 | | | |
|---|---|---|---|
| DATE | G | B | N |
| ***4/24/18 | 1,210 | 2.5 | 2.0U |
| 7/18/18 | 466 | 1.2 | 2.0 |
| 10/23/18 | 1,910 | 3.5 | 2.0U |
| 1/23/19 | 1,450 | 3.0 | 2.0U |
| 8/8/19 | 115 | 0.47 | 2.0U |

| MW-11 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 4/24/18 | 2,060 | 0.73 | 2.0U |
| 7/18/18 | 834 | 0.31 | 2.0U |
| 10/24/18 | 2,180 | 0.72 | 9.4 |
| 1/23/19 | 1,880 | 0.66 | 2.0U |
| 8/8/19 | 600 | 0.29 | 2.0U |

| B4-W | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 3/16/18 | 5,250 | 1.3 | 21 | 411Y |

| MW-3 | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 2/2/18 | 121 | 0.20U | 2.0U | 269X |
| 4/24/18 | 821 | 0.20U | 2.0U | -- |
| 7/18/18 | 715 | 0.20U | 2.0U | -- |
| 10/23/18 | 564 | 0.20U | 2.0U | -- |
| 1/22/19 | 847 | 0.20U | 2.0U | -- |

| B1-W | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 3/15/18 | 7,240 | 31 | 162 | 1,070Y |

| MW-13 | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 8/8/19 | 2,580 | 8.1 | 30 | 1,000Z |

| MW-5 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 4/25/18 | 390 | 0.24 | 2.0U |
| 7/19/18 | 100U | 0.20U | 2.0U |
| 10/23/18 | 767 | 0.33 | 2.0U |
| 1/22/19 | 981 | 0.32 | 2.0U |
| 8/8/19 | 100U | 0.20U | 2.0U |

| MW-2 | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 2/1/18 | FREE PRODUCT | | | |
| 4/24/18 | FREE PRODUCT | | | |
| 7/18/18 | 14,500 | 12 | 193 | 948Y |
| 10/23/18 | FREE PRODUCT | | | |
| 1/22/19 | FREE PRODUCT | | | |
| 8/8/19 | FREE PRODUCT | | | |

| MW-4 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 4/25/18 | 521 | 0.53 | 2.0U |
| 7/19/18 | 121 | 0.21 | 2.0U |
| 10/23/18 | 653 | 1.2 | 2.0U |
| 1/22/19 | 628 | 0.37 | 2.0U |

| B8-W | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 4/3/18 | 1,290 | 0.26 | 5.2 | 317Y |

| MW-7 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 4/25/18 | 100U | 0.20U | 2.0U |
| 7/19/18 | 100U | 0.20U | 2.0U |
| 10/24/18 | 100U | 0.20U | 2.0U |
| 1/22/19 | 100U | 0.20U | 2.0U |

| B7-W | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 4/3/18 | 1,270 | 0.20U | 6.2 | 190U |

| B3-W | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 3/16/18 | 1,440 | 0.20U | 2.0U | 348Y |

| B6-W | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 4/3/18 | 1,280 | 6.1 | 4.3 | 194U |

| MW-9 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 4/24/18 | 100U | 0.20U | 2.0U |
| 7/18/18 | 100U | 0.20U | 2.0U |
| 10/23/18 | 100U | 0.20U | 2.0U |
| 1/22/19 | 100U | 0.20U | 2.0U |

| MW-8 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 4/25/18 | 5,860 | 0.20U | 58 |
| ***7/18/18 | 1,590 | 0.20U | 22 |
| ***10/24/18 | 2,390 | 0.20U | 35 |
| ***1/23/19 | 2,980 | 0.24 | 62 |

| MW-1 | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 2/2/18 | 928 | 0.20U | 2.0U | 866X |
| 4/24/18 | 725 | 0.20U | 2.0U | -- |
| 7/18/18 | 364 | 0.20U | 2.0U | -- |
| 10/23/18 | 250 | 0.20U | 2.0U | -- |
| 1/23/19 | 412 | 0.20U | 2.0U | -- |

| MW-6 | | | |
|---|---|---|---|
| DATE | G | B | N |
| 4/25/18 | 100U | 0.20U | 2.0U |
| 7/18/18 | 100U | 0.20U | 2.0U |
| 10/23/18 | 100U | 0.20U | 2.0U |
| 1/22/19 | 100U | 0.20U | 2.0U |

| B9-W | | | | | |
|---|---|---|---|---|---|
| DATE | G | B | N | D | |
| 4/3/18 | 725 | 0.20U | 2.0U | 238Y | |

| B10-W | | | | |
|---|---|---|---|---|
| DATE | G | B | N | D |
| 4/4/18 | 449 | 0.20U | 2.0U | 389Y |

LEGEND

- PROPERTY LINE
- MW-10 — MONITORING WELL (MONITORED 8/2019)
- MW-1 — MONITORING WELL (MONITORED 2018–2019)
- TOMW-6 — TIME OIL MONITORING WELL (DECOMMISSIONED BY OTHERS, 2019)
- B1 — SOIL BORING (EES, 2018)
- B19 — SOIL BORING (EES, 2019)
- SG1 — SOIL GAS SAMPLE LOCATION– 5' DEPTH (EES, 2018)
- CATCH BASIN
- UST FILL PORT
- DRY WELL
- HISTORIC AUTOMOTIVE FACILITIES
- HISTORIC UST OR FUELING FACILITIES

G= GASOLINE
B= BENZENE
N= NAPHTHALENE
D= DIESEL
U= NOT DETECTED AT METHOD REPORTING LIMIT
X= THE CHROMATOGRAPHIC PATTERN DOES NOT RESEMBLE THE FUEL STANDARD USED FOR QUANTITATION
Y= THE RESULT FOR DIESEL IS DUE TO OVERLAP FROM GASOLINE, OR A GASOLINE RANGE PRODUCT.
Z= THE RESULT FOR DIESEL IS ESTIMATED DUE TO OVERLAP FROM GASOLINE RANGE ORGANICS OR OTHER VOLATILE ORGANIC COMPOUNDS.
--= NOT ANALYZED
100 — AVERAGE GASOLINE ISOCONTOUR (ug/L)
***= DUPLICATE COLLECTED AT THIS SAMPLE LOCATION. HIGHER VALUE IS SHOWN.

RESULTS SHOWN IN MICROGRAMS PER LITER (ug/L)

SITE FEATURES ARE APPROXIMATE.

# Tables

**TABLE 1**
**Soil Analytical Results - Fuels and Related Constituents (mg/kg)**
DeBock's Texaco
Grandview, Washington

| Location | Date | Depth (feet bgs) | Gasoline | Diesel | Oil | Benzene | Toluene | Ethylbenzene | Total Xylenes | Naphthalene | Lead[d] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Soil Screening Levels[a] | | | | | | | | | | | |
| Method A Unrestricted Use | | | 30[b] | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 | 5 | 250 |
| Method B Direct Contact | | | | Combined Total 1,500[c] | | 18 | 6,400 | 8,000 | 16,000 | 1,600 | NA |
| Method B Vadose Zone Soil Leaching to Groundwater | | | NA | NA | NA | 0.027 | 4.5 | 5.9 | 14 | 4.5 | 3,000 |
| Method B Saturated Soil Leaching to Groundwater | | | NA | NA | NA | 0.0017 | 0.27 | 0.34 | 0.83 | 0.24 | 150 |
| B1-3 | 03/15/2018 | 3 | 6.5 UJ | - | - | 0.013 U | 0.065 U | 0.032 UJ | 0.097 UJ | 0.13 UJ | - |
| B1-10 | 03/15/2018 | 10 | 7.1 UJ | - | - | 0.014 U | 0.071 U | 0.035 UJ | 0.11 UJ | 0.14 UJ | - |
| B1-15 | 03/15/2018 | 15 | **9,970** J | 25 U | 50 U | *0.23 U* | 1.2 U | **36** J | **85** J | **40** J | 12 |
| B1-20 | 03/15/2018 | 20 | **44** | - | - | 0.026 | 0.054 U | 0.027 U | 0.080 U | 0.34 | - |
| B1-25 | 03/15/2018 | 25 | 6.4 UJ | - | - | 0.013 U | 0.064 U | 0.032 UJ | 0.096 UJ | 0.13 UJ | - |
| B2-10 | 03/15/2018 | 10 | 6.3 UJ | - | - | 0.013 U | 0.063 U | 0.032 UJ | 0.095 UJ | 0.13 UJ | - |
| B2-15 | 03/15/2018 | 15 | **648** | - | - | 0.025 U | 0.12 U | 0.80 | 1.3 | 1.9 | - |
| B2-19 | 03/15/2018 | 19 | **1,530** | - | - | **0.078** | 0.34 U | 1.8 | 1.9 | 1.8 | - |
| B2-25 | 03/15/2018 | 25 | 5.1 UJ | - | - | 0.010 U | 0.051 U | 0.026 UJ | 0.077 UJ | 0.10 UJ | - |
| B3-3 | 03/16/2018 | 3 | 6.3 UJ | - | - | 0.013 U | 0.063 U | 0.032 UJ | 0.095 UJ | 0.13 UJ | - |
| B3-10 | 03/16/2018 | 10 | 6.4 UJ | - | - | 0.013 U | 0.064 U | 0.032 UJ | 0.096 UJ | 0.13 UJ | - |
| B3-15 | 03/16/2018 | 15 | **10,000** J | - | - | *0.47 U* | 2.3 U | **73** J | **374** J | **37** J | - |
| B3-20 | 03/16/2018 | 20 | 13 | - | - | 0.011 U | 0.054 U | 0.027 U | 0.082 U | 0.11 U | - |
| B3-25 | 03/16/2018 | 25 | 6.9 UJ[2] | - | - | 0.014 U | 0.069 U | 0.035 UJ | 0.10 UJ | 0.14 UJ | - |
| B4-15 | 03/16/2018 | 15 | **5,600** J | - | - | *0.26 U* | **7.8** | **40** J | **342** J | **29** J | - |
| B4-17 | 03/16/2018 | 17 | **22,300** J | 342 J[1] | 52 U | *0.52 U* | **98** | **276** J | **1,870** J | **126** J | 10 |
| B4-20 | 03/16/2018 | 20 | **10,500** J | - | - | *0.50 U* | **15** | **71** J | **343** J | **39** J | - |
| B4-25 | 03/16/2018 | 25 | 5.8 UJ[2] | - | - | 0.012 U | 0.058 U | 0.029 UJ | 0.086 UJ | 0.12 UJ | - |
| B5-5 | 03/16/2018 | 5 | 6.2 UJ[2] | - | - | 0.012 U | 0.062 U | 0.031 UJ | 0.093 UJ | 0.12 UJ | - |
| B5-10 | 03/16/2018 | 10 | 5.6 UJ[2] | - | - | 0.011 U | 0.056 U | 0.028 UJ | 0.084 UJ | 0.11 UJ | - |
| B5-15 | 03/16/2018 | 15 | **82** J | - | - | 0.011 U | 0.057 U | 0.029 UJ | 0.086 UJ | 0.19 J | - |
| B5-20 | 03/16/2018 | 20 | **2,300** | - | - | 0.012 U | 0.088 | **8.1** | **19** | **9.1** | - |
| B5-25 | 03/16/2018 | 20 | 6.8 UJ[2] | - | - | 0.014 UJ[2] | 0.068 UJ[2] | 0.034 UJ[2] | 0.10 UJ[2] | 0.14 UJ[2] | - |
| B6-3 | 04/02/2018 | 3 | 6.5 U | - | - | 0.013 U | 0.065 U | 0.032 U | 0.097 U | 0.13 U | - |
| B6-15 | 04/02/2018 | 15 | **631** | - | - | 0.015 U | 0.073 U | 1.1 | 6.6 | 2.7 | - |
| B6-17 | 04/02/2018 | 17 | **206** | 25 U | 50 U | 0.026 | 0.077 | 1.5 | 6.0 | 0.86 | - |
| B6-20 | 04/02/2018 | 20 | **1,110** | - | - | **0.054** | 0.23 U | 5.4 | **12** | 2.7 | - |
| B6-25 | 04/02/2018 | 25 | 6.1 U[2] | - | - | 0.012 U[2] | 0.061 U[2] | 0.031 U[2] | 0.092 U[2] | 0.12 U[2] | - |
| B7-3 | 04/02/2018 | 3 | 6.8 U | - | - | 0.014 U | 0.068 U | 0.034 U | 0.10 U | 0.14 U | - |
| B7-15 | 04/02/2018 | 15 | **4,190** | - | - | 0.045 U | 0.23 U | 2.5 | 5.2 | **7.6** | 8.5 |
| B7-20 | 04/02/2018 | 20 | 9.5 | - | - | 0.011 U | 0.056 U | 0.028 U | 0.084 U | 0.11 U | - |

**TABLE 1**
**Soil Analytical Results - Fuels and Related Constituents (mg/kg)**
DeBock's Texaco
Grandview, Washington

| Location | Date | Depth (feet bgs) | Gasoline | Diesel | Oil | Benzene | Toluene | Ethylbenzene | Total Xylenes | Naphthalene | Lead[d] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Soil Screening Levels[a] | | | | | | | | | | | |
| Method A Unrestricted Use | | | 30[b] | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 | 5 | 250 |
| Method B Direct Contact | | | | Combined Total 1,500[c] | | 18 | 6,400 | 8,000 | 16,000 | 1,600 | NA |
| Method B Vadose Zone Soil Leaching to Groundwater | | | NA | NA | NA | 0.027 | 4.5 | 5.9 | 14 | 4.5 | 3,000 |
| Method B Saturated Soil Leaching to Groundwater | | | NA | NA | NA | 0.0017 | 0.27 | 0.34 | 0.83 | 0.24 | 150 |
| B8-3 | 04/02/2018 | 3 | 6.9 U | - | - | 0.014 U | 0.069 U | 0.035 U | 0.10 U | 0.14 U | - |
| B8-15 | 04/02/2018 | 15 | **141** | - | - | 0.013 U | 0.067 U | 0.033 U | 0.10 U | 0.23 | - |
| B8-20 | 04/02/2018 | 20 | **367** | - | - | 0.013 U | 0.065 U | 1.2 | 2.9 | 0.60 | - |
| B8-25 | 04/02/2018 | 25 | 5.8 U[2] | - | - | 0.012 U[2] | 0.058 U[2] | 0.029 U[2] | 0.087 U[2] | 0.12 U[2] | - |
| B9-16.5 | 04/03/2018 | 16.5 | **6,360** | 51 [1] | 50 U | *0.14 U* | 0.70 U | **15** | **61** | **11** | - |
| B9-20 | 04/03/2018 | 20 | 5.4 U | - | - | 0.011 U | 0.054 U | 0.041 | 0.082 U | 0.11 U | - |
| B10-3 | 04/03/2018 | 3 | 7.1 U | - | - | 0.014 U | 0.071 U | 0.035 U | 0.11 U | 0.14 U | - |
| B10-15 | 04/03/2018 | 15 | 6.4 U | - | - | 0.013 U | 0.064 U | 0.032 U | 0.096 U | 0.13 U | - |
| B10-20 | 04/03/2018 | 20 | 6.4 U | - | - | 0.013 U | 0.064 U | 0.032 U | 0.096 U | 0.13 U | - |
| B11-3 | 04/03/2018 | 3 | 6.0 U | - | - | 0.012 U | 0.060 U | 0.030 U | 0.091 U | 0.12 U | - |
| B11-16 | 04/03/2018 | 16 | **53** | 26 U | 52 U | 0.014 U | 0.070 U | 0.11 | 0.61 | 0.34 | - |
| B11-20 | 04/03/2018 | 20 | 15 | - | - | 0.012 U | 0.061 U | 0.36 | 1.5 | 0.13 | - |
| B12-3 | 04/03/2018 | 3 | 6.2 U | - | - | 0.012 U | 0.062 U | 0.031 U | 0.093 U | 0.12 U | - |
| B12-10 | 04/03/2018 | 10 | 6.5 U | - | - | 0.013 U | 0.065 U | 0.033 U | 0.098 U | 0.13 U | - |
| B12-16 | 04/03/2018 | 16 | **915** | - | - | 0.026 U | 0.13 U | 0.39 | 0.19 U | 1.8 | 7.6 |
| B12-20 | 04/03/2018 | 20 | 5.9 U | - | - | 0.012 U | 0.059 U | 0.030 U | 0.089 U | 0.12 U | - |
| B13-15 | 04/03/2018 | 15 | 6.4 U | - | - | 0.013 U | 0.064 U | 0.032 U | 0.095 U | 0.13 U | - |
| B13-20 | 04/03/2018 | 20 | **4,530** | - | - | *0.24 U* | 1.2 U | 3.8 | 6.1 | 2.5 | - |
| B13-25 | 04/03/2018 | 25 | 6.3 U | - | - | 0.013 U | 0.063 U | 0.032 U | 0.095 U | 0.13 U | - |
| B14-3 | 04/04/2018 | 3 | 6.4 U | - | - | 0.013 U | 0.064 U | 0.032 U | 0.096 U | 0.13 U | - |
| B14-16 | 04/04/2018 | 16 | **108** | - | - | 0.014 U | 0.071 U | 0.035 U | 0.11 U | 0.14 U | - |
| B15-3 | 04/04/2018 | 3 | 7.6 U | - | - | 0.015 U | 0.076 U | 0.038 U | 0.11 U | 0.15 U | - |
| B15-15 | 04/04/2018 | 15 | **7,840** | - | - | *0.24 U* | 1.2 U | **16** | **39** | **24** | - |
| B15-20 | 04/04/2018 | 20 | **318** | - | - | 0.025 U | 0.12 U | 0.061 U | 0.18 U | 0.25 U | - |
| B16-3 | 04/05/2018 | 3 | 7.0 U | - | - | 0.014 U | 0.070 U | 0.035 U | 0.10 U | 0.14 U | - |
| B16-14 | 04/05/2018 | 14 | **441** | - | - | 0.025 U | 0.13 U | 1.1 | 3.4 | 1.8 | - |
| B16-20 | 04/05/2018 | 20 | **34** | - | - | 0.016 U | 0.079 U | 0.040 U | 0.12 U | 0.16 U | - |
| B17-3 | 04/05/2018 | 3 | 7.6 U | - | - | 0.015 U | 0.076 U | 0.038 U | 0.11 U | 0.15 U | - |
| B17-16.5 | 04/05/2018 | 16.5 | **670** | - | - | **0.065** | 1.2 | 5.5 | **26** | 2.0 | - |
| B17-20 | 04/05/2018 | 20 | 7.9 U | - | - | 0.016 U | 0.079 U | 0.040 U | 0.12 U | 0.16 U | - |

**TABLE 1**

**Soil Analytical Results - Fuels and Related Constituents (mg/kg)**

DeBock's Texaco

Grandview, Washington

| Location | Date | Depth (feet bgs) | Gasoline | Diesel | Oil | Benzene | Toluene | Ethylbenzene | Total Xylenes | Naphthalene | Lead[d] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Soil Screening Levels[a] | | | | | | | | | | | |
| Method A Unrestricted Use | | | 30[b] | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 | 5 | 250 |
| Method B Direct Contact | | | | Combined Total 1,500[c] | | 18 | 6,400 | 8,000 | 16,000 | 1,600 | NA |
| Method B Vadose Zone Soil Leaching to Groundwater | | | NA | NA | NA | 0.027 | 4.5 | 5.9 | 14 | 4.5 | 3,000 |
| Method B Saturated Soil Leaching to Groundwater | | | NA | NA | NA | 0.0017 | 0.27 | 0.34 | 0.83 | 0.24 | 150 |
| B18-10 (MW13-10) | 08/06/2019 | 10 | 7.0 U | - | - | 0.014 U | 0.070 U | 0.035 U | 0.11 U | 0.14 U | - |
| B18-15 (MW13-15) | 08/06/2019 | 15 | **1,600** | - | - | 0.013 U | 0.072 [3] | 4.0 | 8.8 | **7.3** | - |
| B18-20 (MW13-20) | 08/06/2019 | 20 | **1,210** | - | - | **0.031** | 0.078 [3] | 0.078 [3] | 0.22 [4] | 3.8 | - |
| B18-25 (MW13-25) | 08/06/2019 | 25 | 6.2 U | - | - | 0.012 U | 0.062 U | 0.031 U | 0.093 U | 0.12 U | - |
| B19-15 | 08/07/2019 | 15 | **4,740** | - | - | *0.45 U* | 2.3 U | 3.1 | 4.2 | **36** | - |
| B20-15 | 08/07/2019 | 15 | 5.5 U | - | - | 0.011 U | 0.055 U | 0.028 U | 0.083 U | 0.11 U | - |
| B21-14 | 08/07/2019 | 14 | **119** | - | - | 0.016 U | 0.081 U | 0.040 U | 0.12 U | 1.4 | - |
| B22-15 | 08/07/2019 | 15 | 5.6 U | - | - | 0.011 U | 0.056 U | 0.028 U | 0.083 U | 0.11 U | - |
| B23-15 | 08/08/2019 | 15 | 6.1 U | - | - | 0.012 U | 0.061 U | 0.030 U | 0.091 U | 0.12 U | - |

**Notes:**

Gasoline analyzed by NWTPH-Gx

Diesel and Oil analyzed by NWTPH-Dx

[a] Model Toxics Control Act (MTCA) Cleanup Amendments, Soil Cleanup Levels (CLARC Tables, May 2019)

[b] Per MTCA, the cleanup value for gasoline is 30 mg/kg if benzene is detected and/or if the sum of the toluene, ethylbenzene, and xylenes is greater than one percent of the gasoline concentration, and 100 mg/kg for all other gasoline mixtures.

[c] Draft - Model Remedies for Sites with Petroleum Impacts to Groundwater (Ecology Publication #16-09-057, August 2017)

[d] Lead background concentration = 17 mg/kg (WDOE, Natural Background Soil Metals Concentrations in Washington State, Table 1, October 1994)

[1] Diesel result is estimated due to overlap from gasoline range organics or a gasoline range product.

[2] Sample was analyzed past the recommended holding time.

[3] Due to matrix interference, this analyte cannot be accurately quantified. The reported result may contain a high bias.

[4] Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.

bgs = below ground surface

mg/kg = milligrams per kilogram

J = Data Validation Qualifier. The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = undetected at method reporting limit shown

NA = Not Available

- = not analyzed for this parameter

**BOLD** values exceed the MTCA A screening level

*Italicized* reporting limits are above the MTCA A screening level

**TABLE 2**

**Groundwater Elevation + Product Thickness Data**

DeBock's Texaco

Grandview, Washington

| Well Identification | TOC Elevation (feet) | Date Measured | Depth to Water (feet below TOC) | Depth to Product (feet below TOC) | Product Thickness (feet) | Groundwater Elevation[a] (feet) |
|---|---|---|---|---|---|---|
| MW-1 | 99.08 | 04/01/1998 | 17.34 | - | 0 | 81.74 |
| | | 09/27/2000 | 14.26 | - | 0 | 84.82 |
| | | 10/25/2017 | 18.59 | - | 0 | 80.49 |
| | | 11/07/2017 | 18.88 | - | 0 | 80.20 |
| | | 02/02/2018 | 20.18 | - | 0 | 78.90 |
| | 812.37 | 03/06/2018 | 20.59 | - | 0 | 791.78 |
| | | 03/16/2018 | 20.71 | - | 0 | 791.66 |
| | | 04/02/2018 | 20.93 | - | 0 | 791.44 |
| | | 04/05/2018 | 20.96 | - | 0 | 791.41 |
| | | 04/24/2018 | 21.14 | - | 0 | 791.23 |
| | | 07/17/2018 | 20.40 | - | 0 | 791.97 |
| | | 10/22/2018 | 19.07 | - | 0 | 793.30 |
| | | 01/22/2019 | 20.64 | - | 0 | 791.73 |
| | | 08/08/2019 | 19.36 | - | 0 | 793.01 |
| MW-2 | 99.55 | 04/01/1998 | 17.93 | - | 0 | 81.62 |
| | | 09/27/2000 | 14.66 | - | 0 | 84.89 |
| | | 10/25/2017 | 19.91 | 19.05 | 0.86 | 80.26 |
| | | 11/07/2017 | 20.13 | 19.22 | 0.91 | 80.08 |
| | | 02/01/2018 | 21.81 | 20.67 | 1.14 | 78.56 |
| | | 02/02/2018 | 21.31 | 21.18 | 0.13 | 78.33 |
| | | 02/03/2018 | 21.14 | 20.89 | 0.25 | 78.59 |
| | 812.91 | 03/06/2018 | 21.61 | 21.22 | 0.39 | 791.58 |
| | | 03/16/2018 | 21.73 | 21.32 | 0.41 | 791.48 |
| | | 04/02/2018 | 22.03 | 21.53 | 0.50 | 791.24 |
| | | 04/05/2018 | 22.03 | 21.56 | 0.47 | 791.22 |
| | | 04/24/2018 | 22.32 | 21.73 | 0.59 | 791.01 |
| | | 05/04/2018 | 22.42 | 21.83 | 0.59 | 790.91 |
| | | 06/05/2018 | 21.80 | 21.67 | 0.13 | 791.20 |
| | | 07/17/2018 | 21.00 | - | 0 | 791.91 |
| | | 08/17/2018 | 20.53 | 20.40 | 0.13 | 792.47 |
| | | 09/10/2018 | 19.86 | 19.78 | 0.08 | 793.11 |
| | | 10/22/2018 | 19.73 | 19.63 | 0.10 | 793.25 |
| | | 11/13/2018 | 20.13 | 20.06 | 0.07 | 792.83 |
| | | 12/11/2018 | 20.65 | 20.57 | 0.08 | 792.32 |
| | | 01/22/2019 | 21.32 | 21.26 | 0.06 | 791.63 |
| | | 02/19/2019 | 21.62 | 21.56 | 0.06 | 791.33 |
| | | 04/23/2019 | 22.08 | 21.60 | 0.48 | 791.18 |
| | | 07/23/2019 | 20.21 | 20.20 | 0.01 | 792.71 |
| MW-3 | 99.23 | 04/01/1998 | 16.29 | - | 0 | 82.94 |
| | | 09/27/2000 | 13.01 | - | 0 | 86.22 |
| | | 10/25/2017 | 17.92 | - | 0 | 81.31 |
| | | 11/07/2017 | 18.18 | - | 0 | 81.05 |
| | | 02/02/2018 | 19.58 | - | 0 | 79.65 |
| | 812.74 | 03/06/2018 | 19.99 | - | 0 | 792.75 |
| | | 03/16/2018 | 21.02 | - | 0 | 791.72 |
| | | 04/05/2018 | 20.38 | - | 0 | 792.36 |
| | | 04/24/2018 | 20.62 | - | 0 | 792.12 |
| | | 07/17/2018 | 19.83 | - | 0 | 792.91 |
| | | 10/22/2018 | 18.40 | - | 0 | 794.34 |
| | | 01/22/2019 | 20.05 | - | 0 | 792.69 |
| | | 08/08/2019 | 18.72 | - | 0 | 794.02 |
| MW-4 | | 03/16/2018 | 21.04 | - | 0 | - |
| | | 04/02/2018 | 21.27 | - | 0 | - |
| | | 04/05/2018 | 21.30 | - | 0 | - |

**TABLE 2**

**Groundwater Elevation + Product Thickness Data**

DeBock's Texaco

Grandview, Washington

| Well Identification | TOC Elevation (feet) | Date Measured | Depth to Water (feet below TOC) | Depth to Product (feet below TOC) | Product Thickness (feet) | Groundwater Elevation[a] (feet) |
|---|---|---|---|---|---|---|
| MW-4 (cont'd) | 811.94 | 04/24/2018 | 21.48 | - | 0 | 790.46 |
| | | 07/17/2018 | 20.66 | - | 0 | 791.28 |
| | | 10/22/2018 | 19.27 | - | 0 | 792.67 |
| | | 01/22/2019 | 20.90 | - | 0 | 791.04 |
| | | 08/08/2019 | 19.59 | - | 0 | 792.35 |
| MW-5 | | 04/05/2018 | 20.83 | - | 0 | - |
| | 811.64 | 04/24/2018 | 20.99 | - | 0 | 790.65 |
| | | 07/17/2018 | 19.91 | - | 0 | 791.73 |
| | | 10/22/2018 | 18.56 | - | 0 | 793.08 |
| | | 01/22/2019 | 20.40 | - | 0 | 791.24 |
| | | 08/08/2019 | 18.82 | - | 0 | 792.82 |
| MW-6 | | 04/05/2018 | 20.96 | - | 0 | - |
| | 811.99 | 04/24/2018 | 21.10 | - | 0 | 790.89 |
| | | 07/17/2018 | 20.34 | - | 0 | 791.65 |
| | | 10/22/2018 | 19.02 | - | 0 | 792.97 |
| | | 01/22/2019 | 20.60 | - | 0 | 791.39 |
| | | 08/08/2019 | 19.31 | - | 0 | 792.68 |
| MW-7 | | 04/05/2018 | 22.82 | - | 0 | - |
| | 811.92 | 04/24/2018 | 21.75 | - | 0 | 790.17 |
| | | 07/17/2018 | 20.99 | - | 0 | 790.93 |
| | | 10/22/2018 | 19.65 | - | 0 | 792.27 |
| | | 01/22/2019 | 21.20 | - | 0 | 790.72 |
| | | 08/08/2019 | 19.93 | - | 0 | 791.99 |
| MW-8 | | 04/05/2018 | 20.77 | - | 0 | - |
| | 812.28 | 04/24/2018 | 20.94 | - | 0 | 791.34 |
| | | 07/17/2018 | 20.20 | - | 0 | 792.08 |
| | | 10/22/2018 | 18.84 | - | 0 | 793.44 |
| | | 1/22/20019 | 20.41 | - | 0 | 791.87 |
| | | 08/08/2019 | 19.15 | - | 0 | 793.13 |
| MW-9 | | 04/05/2018 | 21.02 | - | 0 | - |
| | 812.76 | 04/24/2018 | 20.69 | - | 0 | 792.07 |
| | | 07/17/2018 | 19.92 | - | 0 | 792.84 |
| | | 10/22/2018 | 18.56 | - | 0 | 794.20 |
| | | 01/22/2019 | 20.15 | - | 0 | 792.61 |
| | | 08/08/2019 | 18.81 | - | 0 | 793.95 |
| MW-10 | | 04/05/2018 | 20.91 | - | 0 | - |
| | 812.05 | 04/24/2018 | 20.70 | - | 0 | 791.35 |
| | | 07/17/2018 | 19.79 | - | 0 | 792.26 |
| | | 10/22/2018 | 18.38 | - | 0 | 793.67 |
| | | 01/22/2019 | 20.10 | - | 0 | 791.95 |
| | | 08/08/2019 | 18.70 | - | 0 | 793.35 |
| MW-11 | | 04/05/2018 | - | - | 0 | - |
| | 812.13 | 04/24/2018 | 20.29 | - | 0 | 791.84 |
| | | 07/17/2018 | 19.47 | - | 0 | 792.66 |
| | | 10/22/2018 | 18.05 | - | 0 | 794.08 |
| | | 01/22/2019 | 19.68 | - | 0 | 792.45 |
| | | 08/08/2019 | 18.40 | - | 0 | 793.73 |
| MW-12 | | 04/05/2018 | - | - | 0 | - |
| | 812.81 | 04/24/2018 | 21.18 | - | 0 | 791.63 |
| | | 07/17/2018 | 20.38 | - | 0 | 792.43 |
| | | 10/22/2018 | 18.93 | - | 0 | 793.88 |
| | | 01/22/2019 | 20.62 | - | 0 | 792.19 |
| | | 08/08/2019 | 19.31 | - | 0 | 793.50 |

**TABLE 2**

**Groundwater Elevation + Product Thickness Data**

DeBock's Texaco

Grandview, Washington

| Well Identification | TOC Elevation (feet) | Date Measured | Depth to Water (feet below TOC) | Depth to Product (feet below TOC) | Product Thickness (feet) | Groundwater Elevation[a] (feet) |
|---|---|---|---|---|---|---|
| MW-13 | 812.72 | 08/08/2019 | 19.40 | - | 0 | 793.32 |

**Notes:**

[a] Groundwater elevation is adjusted to account for floating gasoline product, where present.

Data prior to 2017 was obtained from historical reports.

Wells surveyed on 3/6/2018, 4/24/2018, and 8/7/2019 by PLSA of Yakima, Washington.

TOC = Top of Casing

- = Not measured

**TABLE 3**
**Groundwater Field Parameters**
Debock's Texaco
Grandview, Washington

| Well Name | Date | Dissolved Oxygen (mg/L) DRI [a] | Oxidation Reduction Potential (mV) DRI [a] | Ferrous Iron (Fe 2+) (mg/L) HACH [b] | pH (unitless) DRI [a] | Turbidity (NTUs) | Specific Conductance (ms/cm) DRI [a] |
|---|---|---|---|---|---|---|---|
| MW-1 | 02/02/2018 | 3.6 | 74 | 0.0 | 7.1 | 8.2 | 1.676 |
| | 04/24/2018 | 1.1 | 25 | 0.0 | 6.9 | 4.8 | 1.586 |
| | 07/18/2018 | 1.8 | 4.4 | 0.5 | 7.0 | 5.3 | 1.747 |
| | 10/23/2018 | 0.29 | 85 | 0.0 | 7.0 | 3.0 | 1.208 |
| | 01/22/2019 | 0.93 | 48 | 0.0 | 7.1 | 3.9 | 1.694 |
| MW-2 | 02/02/2018[1] | - | - | - | - | - | - |
| | 04/25/2018[1] | - | - | - | - | - | - |
| | 07/18/2018 | 1.2 | -181 | 5.5[c] | 7.6 | 0.4 | 1.895 |
| | 10/22/2018[1] | - | - | - | - | - | - |
| | 01/22/2019[1] | - | - | - | - | - | - |
| MW-3 | 02/02/2018 | 0.79 | 25 | 0.0 | 7.2 | 33 | 1.334 |
| | 04/24/2018 | 0.80 | -41 | 1.0[c] | 6.9 | 2.7 | 1.321 |
| | 07/18/2018 | 1.2 | -57 | 3.0[c] | 7.1 | 1.0 | 1.632 |
| | 10/23/2018 | 0.35 | -23 | 2.5[c] | 6.9 | 12 | 1.132 |
| | 01/22/2019 | 0.74 | 21 | 1.0[c] | 6.9 | 6.4 | 1.677 |
| MW-4 | 04/25/2018 | 0.84 | 142 | 0.0 | 6.9 | 0.0 | 1.626 |
| | 07/19/2018 | 1.4 | 138 | 0.0 | 7.3 | 3.9 | 2.068 |
| | 10/23/2018 | 0.34 | -29 | 2.5[c] | 6.9 | 4.8 | 1.488 |
| | 01/22/2019 | 1.0 | 35 | 0.5[c] | 6.9 | 4.0 | 2.047 |
| MW-5 | 04/25/2018 | 2.0 | 122 | 0.0 | 7.2 | 0.0 | 0.878 |
| | 07/19/2018 | 2.0 | 205 | 0.0 | 7.6 | 2.1 | 1.083 |
| | 10/23/2018 | 0.53 | -47 | 1.0[c] | 7.1 | 5.2 | 0.857 |
| | 01/22/2019 | 0.97 | 26 | 0.5[c] | 7.2 | 2.1 | 1.152 |
| | 08/08/2019 | 2.0 | -112 | 0.5 | 7.3 | 2.3 | 1.070 |
| MW-6 | 04/25/2018 | 1.1 | 155 | 0.0 | 7.1 | 0.9 | 1.309 |
| | 07/18/2018 | 1.4 | 90 | 1.0[c] | 7.2 | 14 | 1.673 |
| | 10/23/2018 | 0.44 | 88 | 0.0 | 6.9 | 4.4 | 1.242 |
| | 01/22/2019 | 1.1 | 172 | 0.0 | 7.0 | 3.0 | 1.878 |
| MW-7 | 04/25/2018 | 1.0 | 112 | - | 7.1 | 0.0 | 1.104 |
| | 07/19/2018 | 1.7 | 142 | 0.5 | 7.6 | 2.4 | 1.311 |
| | 10/24/2018 | 1.4 | 124 | 0.0 | 6.8 | 2.4 | 1.017 |
| | 01/22/2019 | 1.4 | 126 | 0.0 | 7.1 | 2.7 | 1.530 |
| MW-8 | 04/25/2018 | 0.89 | -38 | 0.5[c] | 7.0 | 50 | 1.612 |
| | 07/17/2018 | 1.5 | -61 | 3.0[c] | 7.1 | 4.4 | 2.115 |
| | 10/24/2018 | 0.54 | -64 | 6.5[c] | 6.9 | 3.9 | 1.443 |
| | 01/22/2019 | 1.6 | -30 | 1.5[c] | 7.1 | 15 | 2.221 |
| MW-9 | 04/24/2018 | 2.4 | 124 | 0.0 | 7.2 | 2.8 | 1.419 |
| | 07/18/2018 | 3.0 | 216 | 0.0 | 7.1 | 16 | 1.738 |
| | 10/23/2018 | 0.52 | 116 | 0.0 | 7.0 | 2.8 | 1.514 |
| | 01/22/2019 | 1.1 | 182 | 0.0 | 7.0 | 2.5 | 2.205 |
| MW-10 | 04/24/2018 | 1.1 | 46 | 0.0 | 7.0 | 16 | 1.550 |
| | 07/18/2018 | 1.5 | 0.7 | 0.5[c] | 7.1 | 27 | 1.879 |
| | 10/23/2018 | 0.31 | -9.9 | 0.5[c] | 6.9 | 3.9 | 1.345 |
| | 01/22/2019 | 0.83 | 35 | 1.0[c] | 7.1 | 2.4 | 2.042 |
| | 08/08/2019 | 1.8 | -108 | 0.5 | 7.2 | 40 | 1.796 |
| MW-11 | 04/24/2018 | 1.3 | 45 | 0.0 | 7.0 | 8.5 | 1.098 |
| | 07/18/2018 | 1.4 | 14 | 0.5[c] | 6.9 | 8.7 | 1.318 |
| | 10/24/2018 | 0.46 | 28 | 1.0[c] | 6.8 | 2.7 | 1.028 |
| | 01/22/2019 | 0.71 | 25 | 0.5[c] | 6.9 | 2.3 | 1.428 |

**TABLE 3**
**Groundwater Field Parameters**
Debock's Texaco
Grandview, Washington

| Well Name | Date | Dissolved Oxygen (mg/L) DRI [a] | Oxidation Reduction Potential (mV) DRI [a] | Ferrous Iron (Fe 2+) (mg/L) HACH [b] | pH (unitless) DRI [a] | Turbidity (NTUs) | Specific Conductance (ms/cm) DRI [a] |
|---|---|---|---|---|---|---|---|
| MW-11 (cont'd) | 08/08/2019 | 1.8 | -121 | 1.0[c] | 7.0 | 16 | 1.317 |
| MW-12 | 04/24/2018 | 0.97 | -30 | 0.0 | 7.0 | 22 | 1.644 |
| | 07/19/2018 | 1.5 | -59 | 3.0[c] | 6.9 | 3.9 | 1.856 |
| | 10/24/2018 | 0.82 | -40 | 3.5[c] | 6.9 | 3.0 | 1.396 |
| | 01/22/2019 | 0.62 | -21 | 2.0[c] | 7.0 | 2.5 | 2.056 |
| | 08/08/2019 | 1.9 | -24 | 0.5 | 7.0 | 23 | 1.927 |
| MW-13 | 08/08/2019 | 3.3 | -130 | 0.0 | 7.1 | 18 | 1.894 |

**Notes:**
[a] DRI = Direct-Read Instrument
[b] HACH = Colorimetric "Hach" Field Kit
[c] Field filtered sample
[1] Free product observed - not measured
mg/L = milligrams per liter
mV = millivolts
ms/cm = millisiemens per centimeter
NTU = nephelometric turbidity units
- = not measured

**TABLE 4**
**Groundwater Analytical Results - Fuels, Volatile Organic Compounds and Lead (ug/L)**
Debock's Texaco
Grandview, Washington

| Location | Date | Gasoline | Diesel | Oil | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Naphthalene | EDB | EDC | Total Lead | Dissolved Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Groundwater Screening Levels | | | | | | | | | | | | | | |
| Method A[a] | | 800 | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 160 | 0.01 | 5 | 15 | 15 |
| Method B/MCL[b] | | NA | NA | NA | 5[c] | 640 | 700[c] | 1,600 | 24 | 160 | 0.05[c] | 0.48 | 15[c] | 15[c] |
| MW-1 | 02/02/2018 | **928** | **866** J[7] | 385 U | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.033 U*[2,4] | 0.50 U | 0.27 | 0.20 U |
| | 04/24/2018 | 725 | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.020 U*[2,3,4] | 0.50 U | 0.20 U | 0.20 |
| | 07/18/2018 | 364 | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | 0.20 U | - |
| | 10/23/2018 | 250 | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 0.20 U | - |
| | 01/23/2019 | 412 | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| MW-2 (free product) | 02/01/2018[d] | DET [1] | *45,000,000 U*[1] | *90,100,000 U*[1] | *6,760 U* | *50,700* | *1,700,000* | *3,892,000* | *33,800 U* | *1,220,000* | *33,800 U* | *16,900 U* | - | - |
| | 04/24/2018[e] | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-2 (groundwater) | 07/18/2018 | **14,500** | **948** J[5] | 404 U | **12** | 34 | 441 | 936 | 10 U | **193** | *5.0 U* | 5.0 U | 2.6 | - |
| | 10/23/2018[e] | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 01/22/2019[e] | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MW-3 | 02/02/2018 | 121 | 269 J[7] | 377 U | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | 0.010 U[2,3] | 0.50 U | 0.27 | 0.20 U |
| | 04/24/2018 | **821** | - | - | 0.20 U | 1.0 U | 5.0 | 13 | 1.0 U | 2.0 U | *0.020 U*[2,3,4] | 0.50 U | 0.20 U | 0.44 |
| | 07/18/2018 | 715 | - | - | 0.20 U | 1.0 U | 12 | 20 | - | 2.0 U | - | - | 0.20 U | - |
| | 10/23/2018 | 564 | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 0.20 U | - |
| | 01/22/2019 | **847** | - | - | 0.20 U | 1.0 U | 4.7 | 13 | - | 2.0 U | - | - | - | - |
| MW-4 | 04/25/2018 | 521 | - | - | 0.53 | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | 0.010 U[2,3] | 0.50 U | 0.93 | 0.64 |
| | 07/19/2018 | 121 | - | - | 0.21 | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| | 10/23/2018 | 653 | - | - | 1.2 | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 2.7 | - |
| | 01/22/2019 | 628 | - | - | 0.37 | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| MW-5 | 04/25/2018 | 390 | - | - | 0.24 | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | 0.010 U[2,3] | 0.50 U | 0.94 | 0.71 |
| | 07/19/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| | 10/23/2018 | 767 | - | - | 0.33 | 1.0 U | 1.3 J | 2.2 J | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 1.1 | - |
| | 01/22/2019 | **981** | - | - | 0.32 | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| | 08/08/2019 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| MW-6 | 04/25/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | 0.010 U[2,3] | 0.50 U | 0.82 | 0.23 |
| | 07/18/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| | 10/23/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 0.71 | - |
| | 01/22/2019 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| MW-7 | 04/25/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.74 | 1.5 U | 1.0 U | 2.0 U | 0.010 U[2,3] | 0.50 U | 1.5 | 0.71 |
| | 07/19/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| | 10/24/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 0.63 | - |
| | 01/22/2019 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| MW-8 | 04/25/2018 | **5,860** | - | - | 0.20 U | 3.9 | 75 | 299 | 1.0 U | 58 | *0.020 U*[2,3,4] | 0.50 U | 3.8 | 0.66 |
| | 07/18/2018 | **1,590** | - | - | 0.20 U | 1.0 U | 8.9 | 18 | - | 22 | - | - | 1.3 | - |
| MW-50 (DUP) | 07/18/2018 | **1,410** | - | - | 0.20 U | 1.0 U | 8.9 | 16 | - | 17 | - | - | - | - |
| | 10/24/2018 | **2,390** | - | - | 0.20 U | 5.2 | 121 J | 206 J | 1.0 U | 35 J | *0.50 U* | 0.50 U | 0.90 | - |
| MW-50 (DUP) | 10/24/2018 | **2,170** | - | - | 0.20 U | 4.9 | 112 J | 190 J | 1.0 U | 32 J | *0.50 U* | 0.50 U | 0.92 | - |
| | 01/23/2019 | **2,980** | - | - | 0.22 | 1.0 U | 64 | 10 | - | 59 | - | - | - | - |
| MW-50 (DUP) | 01/23/2019 | **2,920** | - | - | 0.24 | 1.0 U | 72 | 11 | - | 62 | - | - | - | - |
| MW-9 | 04/24/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | 0.010 U[2,3] | 0.50 U | 2.5 | 0.20 U |
| | 07/18/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| | 10/23/2018 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 0.28 | - |
| | 01/22/2019 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| MW-10 | 04/24/2018 | **1,210** | - | - | 2.5 | 1.0 U | 9.2 | 13 | 1.0 U | 2.0 U | *0.020 U*[2,3,4] | 0.50 U | 1.1 | 1.1 |
| MW-50 (DUP) | 04/24/2018 | 779 | - | - | 2.1 | 1.0 U | 3.8 | 5.1 | 1.0 U | 2.0 U | *0.020 U*[2,3,4,6] | 0.50 U | 0.95 | 0.85 |
| | 07/18/2018 | 466 | - | - | 1.2 | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | 1.4 | - |
| | 10/23/2018 | **1,910** | - | - | 3.5 | 1.0 U | 2.3 J | 3.0 J | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 1.8 | - |
| | 01/23/2019 | **1,450** | - | - | 3.0 | 1.0 U | 0.51 | 1.5 U | - | 2.0 U | - | - | - | - |
| | 08/08/2019 | 115 | - | - | 0.47 | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |

**TABLE 4**
**Groundwater Analytical Results - Fuels, Volatile Organic Compounds and Lead (ug/L)**
Debock's Texaco
Grandview, Washington

| Location | Date | Gasoline | Diesel | Oil | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Naphthalene | EDB | EDC | Total Lead | Dissolved Lead |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MTCA Groundwater Screening Levels | | | | | | | | | | | | | | |
| Method A[a] | | 800 | 500 | 500 | 5 | 1,000 | 700 | 1,000 | 20 | 160 | 0.01 | 5 | 15 | 15 |
| Method B/MCL[b] | | NA | NA | NA | 5[c] | 640 | 700[c] | 1,600 | 24 | 160 | 0.05[c] | 0.48 | 15[c] | 15[c] |
| MW-11 | 04/24/2018 | **2,060** | - | - | 0.73 | 1.5 | 1.6 | 16 | 1.0 U | 2.0 U | *0.020 U*[2,3,4] | 0.50 U | 0.72 | 0.61 |
| | 07/18/2018 | **834** | - | - | 0.31 | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | 0.59 | - |
| | 10/24/2018 | **2,180** | - | - | 0.72 | 1.0 U | 4.8 J | 3.2 J | 1.0 U | 9.4 J | *0.50 U* | 0.50 U | 0.77 | - |
| | 01/23/2019 | **1,880** | - | - | 0.66 | 1.0 U | 0.73 | 1.7 | - | 2.0 U | - | - | - | - |
| | 08/08/2019 | 600 | - | - | 0.29 | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| MW-12 | 04/24/2018 | **3,780** | - | - | **5.8** | 50 | 92 | 596 | 1.0 U | 6.0 | *0.020 U*[2,3,4] | 0.50 U | 0.91 | 1.1 |
| | 07/19/2018 | **2,070** | - | - | 2.3 | 10 U | 15 | 281 | - | 20 U | - | - | 0.51 | - |
| | 10/24/2018 | **2,060** | - | - | **5.1** | 2.5 | 17 | 59 | 1.0 U | 6.9 | *0.50 U* | 0.50 U | 0.60 | - |
| | 01/23/2019 | **1,160** | - | - | 1.9 | 1.0 U | 0.95 | 4.1 | - | 2.4 | - | - | - | - |
| | 08/08/2019 | 272 | - | - | 0.43 | 1.0 U | 0.50 U | 1.8 | - | 2.0 U | - | - | - | - |
| MW-13 | 08/08/2019 | **2,580** | **1,000** [8,9] | 374 U | **8.1** | 1.5 | 13 | 25 | - | 30 | - | - | - | - |
| B1-W | 03/15/2018 | **7,240** | **1,070** J[5] | *1,960 U* | **31** | 6.9 | 98 | 195 | 5.0 U | **162** | *2.5 U* | 2.5 U | 7.6 | 1.3 |
| B3-W | 03/16/2018 | **1,440** | 348 J[5] | 388 U | 0.20 U | 1.0 U | 9.9 | 35 | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | **18** | 2.0 U |
| B4-W | 03/16/2018 | **5,250** | 411 J[5] | 388 U | 1.3 | 66 | 92 | 588 | 5.0 U | 21 | *2.5 U* | 2.5 U | 13 | 1.0 U |
| B6-W | 04/03/2018 | **1,280** | 194 U | 388 U | **6.1** | 5.2 | 36 | 125 | 1.0 U | 4.3 | *0.50 U* | 0.50 U | **28** | 1.1 |
| B7-W | 04/03/2018 | **1,270** | 190 U | 381 U | 0.20 U | 1.4 | 28 | 40 | 1.0 U | 6.2 | *0.50 U* | 0.50 U | **27** | 0.26 |
| B8-W | 04/03/2018 | **1,290** | 317 [5] | 381 U | 0.26 | 13 | 39 | 68 | 1.0 U | 5.2 | *0.50 U* | 0.50 U | **26** | 0.20 U |
| B9-W | 04/03/2018 | 725 | 238 [5] | 392 U | 0.20 U | 2.3 | 18 | 39 | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 11 | 0.20 U |
| B10-W | 04/04/2018 | 449 | 389 [5] | 374 U | 0.20 U | 3.9 | 0.50 U | 1.5 U | 1.0 U | 2.0 U | *0.50 U* | 0.50 U | 4.3 | 0.20 U |
| B19-W | 08/07/2019 | **4,160** | - | - | 0.20 U | 1.0 U | 4.9 | 6.7 | - | 15 | - | - | - | - |
| B20-W | 08/07/2019 | **1,840** | - | - | 0.22 | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| B21-W | 08/07/2019 | **1,130** | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 3.4 | - | - | - | - |
| B22-W | 08/07/2019 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |
| B23-W | 08/08/2019 | 100 U | - | - | 0.20 U | 1.0 U | 0.50 U | 1.5 U | - | 2.0 U | - | - | - | - |

**TABLE 4**
**Groundwater Analytical Results - Fuels, Volatile Organic Compounds and Lead (ug/L)**
Debock's Texaco
Grandview, Washington

**Notes:**

[a] Washington Department of Ecology (WDOE), Model Toxics Control Act (MTCA) Cleanup Amendments, Method A Groundwater Cleanup Levels (CLARC Database, May 2019)

[b] MTCA Cleanup Amendments, Method B Groundwater Cleanup Levels or Washington State Maximum Contaminant Level (WDOE, CLARC Database, May 2019). For carcinogenic chemicals the Maximum Contaminant Level (MCL) is shown if the value is less than one in one hundred thousand excess cancer risk, otherwise the default MTCA Method B value is shown (WAC 173-340-705[5]). For all chemicals, the MCL is shown if it is less than the MTCA B value.

[c] MCL value

[d] Concentrations are shown in units of micrograms per kilogram (ug/kg) wet

[e] Free product observed - not sampled

Gasoline analyzed by Method NWTPH-Gx

Diesel and Oil analyzed by Method NWTPH-Dx

Volatile Organic Compounds (VOCs) by EPA Method 8260C

Lead by EPA Method 200.8 (ICPMS)

[1] Gasoline, Diesel and Oil analyzed by Method NWTPH-HCID

[2] EDB was analyzed by EPA Method 8260C-SIM

[3] Analyte was reported down to the method detection limit (MDL)

[4] The reporting limit for this analyte has been raised to account for interference from coeluting compounds and/or matrix interference.

[5] The result for diesel (diesel range organics, C12-C24) is due to overlap from gasoline or a gasoline range product.

[6] The sample aliquot was taken from a vial with headspace (air bubble greater than 6mm diameter).

[7] The chromatographic pattern does not resemble the fuel standard used for quantitation.

[8] Analyte detected in an associated blank at a level between one-half the MRL and the MRL.

[9] The result for diesel is estimated due to overlap from gasoline range organics or other VOCs.

MCL = Maximum Contaminant Level (Washington State)

MTBE = Methyl tert-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

J = Data Validation Qualifier. The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U = Undetected at method reporting limit shown

ug/L = micrograms per liter

NA = Not Available

- = Not analyzed for this parameter

**BOLD** values exceed the MTCA Method A screening level.

*Italicized* values indicate the reporting limit was higher than the MTCA Method A screening level.

# Attachment A

**EES** EES Environmental Consulting, Inc.

BORING NO. **B18** PAGE **1** OF **1**

PROJECT **DeBock's Texaco**

LOCATION **Grandview, Washington**

START CARD **RE18004** WELL ID **MW-13**

COORDINATES

PROJECT NO. **2093-01**

SURFACE ELEVATION **812.98'** DATUM

LOGGED BY **PCT**

| DEPTH FEET | LAB SAMPLE ID | pH | PID (ppmV) | SHEEN | RECOVERY % | STRATA | DESCRIPTION | CONSTRUCTION DETAIL/ COMMENTS | ELEVATION FEET |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 100 | | Topsoil and grass. | | |
| | | | | | | | Brown SILT (ML), trace sand and gravel; medium stiff, dry, sand is fine, gravel is coarse. | Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap. | |
| | | | 0.0 | SLIGHT | | | Becomes moist. | | |
| | | | | | | | Becomes without gravel, otherwise same as above. | | |
| 5 | | | 0.0 | VERY SLIGHT | 100 | | 0.5-inch-thick ash lens. | | |
| | | | | | | | Gray-brown silty SAND (SM); loose, moist, fine. | | |
| | | | 0.0 | NO | | | Stratified brown medium sand, from 8' to 8.5'. | | |
| 10 | MW13-10 | | 0.0 | NO | 100 | | | | |
| | | | | | | | Brown SILT (ML), trace gravel; stiff, moist. | | |
| | | | 0.0 | NO | | | Stratified 1- to 2-inch-thick medium sand lenses every 1.5' to 2' from 13' to 18'. | | |
| 15 | MW13-15 | | 396 | MOD. | 100 | | Becomes gray (stained). | Well constructed using two-inch diameter threaded schedule-40 PVC casing and screened with machine-cut 0.020-inch slots. Filter media consists of #8/12 sand. Ecology Well Tag ID: BLW 391 | |
| | | | 2,633 | MOD. | | | Becomes saturated. Strong petroleum odor. | | |
| | | | | | | | Brown SAND (SP), trace silt; dense, saturated, fine. | | |
| 20 | MW13-20 | | 60.8 | NO | 100 | | | | |
| | | | | | | | Brown SILT (ML), trace sand; soft, saturated, sand is fine. | | |
| | | | 73.7 | NO | | | | | |
| | | | | | | | Becomes stiff and moist. | | |
| 25 | MW13-25 | | 12.4 | NO | | | | | |
| | | | | | | | Boring complete at 25 feet. Installed groundwater monitoring well. | | |

DRILLING CONTRACTOR **Cascade Drilling**

DRILLING METHOD **Hand Auger/Direct Push**

DRILLING EQUIPMENT **Geoprobe 7720DT**

DRILLING STARTED **8/6/19** ENDED **8/6/19**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWNN03.GDT - 8/22/19 09:40 - C:\USERS\DANIELE\DROPBOX (EES ENVIRONMENTAL)\PROJECTS_GINT\PROJECTS\2093-01 DEBOCKS 082119.GPJ

**EES** EES Environmental Consulting, Inc.

BORING NO. **B19** PAGE **1** OF **1**

PROJECT **DeBock's Texaco**

LOCATION **Grandview, Washington**

START CARD **SE65434** WELL ID

COORDINATES

PROJECT NO. **2093-01**

SURFACE ELEVATION DATUM

LOGGED BY **DBP**

| SAMPLE INFORMATION | | | | | | STRATA | DESCRIPTION | CONSTRUCTION DETAIL/ COMMENTS | ELEVATION FEET |
|---|---|---|---|---|---|---|---|---|---|
| DEPTH FEET | LAB SAMPLE ID | pH | PID (ppmV) | SHEEN | RECOVERY % | | | | |
| | | | | | 100 | | Concrete | | |
| | | | | | | | Gray silty GRAVEL (GM); dry, coarse (fill). | | |
| | | | 0.0 | NO | | | Brown sandy SILT (ML), minor gravel; medium stiff, moist, gravel is coarse, sand is fine. | | |
| 5 | | | 0.0 | NO | 100 | | Becomes without gravel, otherwise same as above. | | |
| | | | 0.0 | NO | | | | | |
| 10 | | | 0.0 | NO | 100 | | Brown silty SAND (SM); medium dense, moist, fine to medium. | | |
| | | | 0.0 | NO | | | Brown sandy SILT (ML); medium stiff, moist, sand is fine to medium. | | |
| | | | | | | | Becomes gray (stained). | | |
| 15 | B19-15 | | 1,812 | SLIGHT | 100 | | Gray silty SAND (SM); medium dense, moist, fine to medium, sand and silt stratified in 4-inch-thick layers. Strong petroleum order. | | |
| | | | | | | | Gray-brown (stained) SILT (ML), minor sand; medium stiff, saturated, sand is fine. | | |
| | | | 256 | SLIGHT | | | Grades to tan from 17'-22'. | | |
| | | | | | | | Becomes wet. | | |
| | | | | | | | Tan silty SAND (SM); dense, moist, fine. | ▼ | |
| 20 | | | 590 | SLIGHT | 100 | | Becomes saturated. | | |
| | | | 18.1 | NO | | | Becomes tan. | | |
| | | | | | | | Becomes loose. | | |
| | | | | | | | Becomes dense. | | |
| 25 | | | 1.2 | NO | | | | | |
| | | | | | | | Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with concrete. | | |

Installed temporary 3/4-inch Sch 40 PVC well screened from 15 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 15 feet during groundwater sampling. Collected groundwater sample B19W.

DRILLING CONTRACTOR **Cascade Drilling**

DRILLING METHOD **Hand Auger/Direct Push**

DRILLING EQUIPMENT **Geoprobe 7720DT**

DRILLING STARTED **8/7/19** ENDED **8/7/19**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWNN03.GDT - 8/22/19 09:40 - C:\USERS\DANIELE\DROPBOX (EES ENVIRONMENTAL)\PROJECTS_GINT\PROJECTS\2093-01 DEBOCKS 082119.GPJ

**EES** EES Environmental Consulting, Inc.

BORING NO. **B20** PAGE **1** OF **1**

PROJECT **DeBock's Texaco**

LOCATION **Grandview, Washington**

START CARD **SE70846** WELL ID

COORDINATES PROJECT NO. **2093-01**

SURFACE ELEVATION DATUM LOGGED BY **DBP**

| SAMPLE INFORMATION | | | | | | STRATA | DESCRIPTION | CONSTRUCTION DETAIL/ COMMENTS | ELEVATION FEET |
|---|---|---|---|---|---|---|---|---|---|
| DEPTH FEET | LAB SAMPLE ID | pH | PID (ppmV) | SHEEN | RECOVERY % | | | | |
| | | | | | 100 | | Concrete | | |
| | | | | | | | Gray silty GRAVEL (GM); dry, coarse (fill). | | |
| | | | 0.0 | NO | | | Brown sandy SILT (ML); medium stiff, moist, sand is fine. | | |
| 5 | | | 0.0 | NO | 100 | | 0.5-inch-thick ash lens. | | |
| | | | 0.0 | NO | | | | | |
| 10 | | | 0.0 | NO | 100 | | | | |
| | | | 0.0 | NO | | | Brown silty SAND (SM); medium dense, moist, fine to medium, sand and silt stratified in 4- to 6-inch-thick layers. | | |
| 15 | B20-15 | | 0.0 | NO | 100 | | | | |
| | | | 0.0 | NO | | | Brown SILT (ML), minor sand; medium stiff, saturated, sand is fine. | | |
| | | | | | | | Brown silty SAND (SM); medium dense, saturated, sand is fine. | ▼ | |
| 20 | | | 0.0 | NO | 100 | | Becomes tan. | | |
| | | | 1.5 | NO | | | Becomes loose. | | |
| | | | | | | | Becomes dense. | | |
| 25 | | | 2.9 | NO | | | Boring complete at 25 feet, backfilled with bentonite chips, and finished at the surface with concrete. | | |

CONSTRUCTION DETAIL/ COMMENTS: Installed temporary 3/4-inch Sch 40 PVC well screened from 15 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 15 feet during groundwater sampling. Collected groundwater sample B20W.

DRILLING CONTRACTOR **Cascade Drilling**

DRILLING METHOD **Hand Auger/Direct Push**

DRILLING EQUIPMENT **Geoprobe 7720DT**

DRILLING STARTED **8/7/19** ENDED **8/7/19**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWNN03.GDT - 8/22/19 09:40 - C:\USERS\DANIELE\DROPBOX (EES ENVIRONMENTAL)\PROJECTS_GINT\PROJECTS\2093-01 DEBOCKS 082119.GPJ

**EES** EES Environmental Consulting, Inc.

BORING NO. **B21** PAGE **1** OF **1**
PROJECT **DeBock's Texaco**
LOCATION **Grandview, Washington**
PROJECT NO. **2093-01**
LOGGED BY **DBP**

START CARD **SE70846** WELL ID
COORDINATES
SURFACE ELEVATION DATUM

| DEPTH FEET | LAB SAMPLE ID | pH | PID (ppmV) | SHEEN | RECOVERY % | STRATA | DESCRIPTION | CONSTRUCTION DETAIL/ COMMENTS | ELEVATION FEET |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 100 | | Concrete<br>Gray silty GRAVEL (GM); dry, coarse (fill). | Installed temporary 3/4-inch Sch 40 PVC well screened from 15 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 15 feet during groundwater sampling. Collected groundwater sample B21W. | |
| | | | 0.0 | SLIGHT | | | Brown sandy SILT (ML); medium stiff, moist, sand is fine. | | |
| | | | 0.0 | SLIGHT | | | 1-inch-thick ash lens. | | |
| 5 | | | | | 100 | | | | |
| | | | 0.0 | SLIGHT | | | 4-inch-thick silty fine sand lens. | | |
| | | | 0.0 | SLIGHT | | | Brown silty SAND (SM); medium dense, moist. | | |
| 10 | | | | | 100 | | | | |
| | | | 4.8 | VERY SLIGHT | | | 5-inch-thick stiff silt lens. | | |
| | B21-14 | | 839 | VERY SLIGHT | | | Becomes gray (stained).<br>Strong petroleum odor from 13.5' to 17.5'.<br>6-inch-thick medium stiff silt lens.<br>Becomes wet.<br>2-inch-thick fine sand lens. | | |
| 15 | | | | | 100 | | 3-inch-thick fine to medium sand lens. | | |
| | | | 195 | NO | | | Gray-brown SILT (ML), trace sand; soft, saturated, sand is fine.<br>Becomes tan and stiff. | ▼ | |
| | | | 12.3 | NO | | | | | |
| 20 | | | | | 100 | | Tan silty SAND (SM); loose, saturated, fine. | | |
| | | | 3.5 | NO | | | Becomes medium dense. | | |
| | | | 0.0 | NO | | | | | |
| 25 | | | | | | | Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with concrete. | | |

DRILLING CONTRACTOR **Cascade Drilling**
DRILLING METHOD **Hand Auger/Direct Push**
DRILLING EQUIPMENT **Geoprobe 7720DT**
DRILLING STARTED **8/7/19** ENDED **8/7/19**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWNN03.GDT - 8/22/19 09:40 - C:\USERS\DANIELE\DROPBOX (EES ENVIRONMENTAL)\PROJECTS_GINT\PROJECTS\2093-01 DEBOCKS 082119.GPJ

**EES** EES Environmental Consulting, Inc.

BORING NO. **B22** PAGE **1** OF **1**

PROJECT **DeBock's Texaco**

LOCATION **Grandview, Washington**

START CARD **SE70846** WELL ID

COORDINATES PROJECT NO. **2093-01**

SURFACE ELEVATION DATUM LOGGED BY **DBP**

| SAMPLE INFORMATION | | | | | | STRATA | DESCRIPTION | CONSTRUCTION DETAIL/ COMMENTS | ELEVATION FEET |
|---|---|---|---|---|---|---|---|---|---|
| DEPTH FEET | LAB SAMPLE ID | pH | PID (ppmV) | SHEEN | RECOVERY % | | | | |
| | | | | | 100 | | Concrete<br>Gray silty GRAVEL (GM); dry, coarse (fill). | Installed temporary 3/4-inch Sch 40 PVC well screened from 15 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 15 feet during groundwater sampling. Collected groundwater sample B22W. | |
| | | | 0.0 | VERY SLIGHT | | | Brown sandy SILT (ML); medium stiff, moist, sand is fine. | | |
| 5 | | | 0.0 | NO | 100 | | 1-inch-thick ash lens. | | |
| | | | 0.0 | SLIGHT* | | | 3-inch-thick silty fine sand lens.<br>* Not indicative of petroleum.<br>5-inch-thick fine sand lens. | | |
| 10 | | | 0.0 | NO | 100 | | 2-inch-thick medium sand lens. | | |
| | | | 0.0 | NO | | | 1-inch-thick medium to coarse sand lens.<br>Brown SILT (ML), minor sand; medium stiff, wet, sand is fine. | | |
| 15 | B22-15 | | 0.0 | NO | 20 | | No recovery from 15' to 19'. | | |
| 20 | | | 0.0 | NO | 100 | | Tan silty SAND (SM); medium dense, saturated, fine.<br>Becomes loose. | ▼ | |
| | | | 0.0 | NO | | | Becomes medium dense. | | |
| 25 | | | 0.0 | NO | | | Becomes dense.<br>Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with concrete. | | |

DRILLING CONTRACTOR **Cascade Drilling**

DRILLING METHOD **Hand Auger/Direct Push**

DRILLING EQUIPMENT **Geoprobe 7720DT**

DRILLING STARTED **8/7/19** ENDED **8/7/19**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

See key sheet for symbols and abbreviations used above.

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**EES** EES Environmental Consulting, Inc.

BORING NO. **B23** PAGE **1** OF **1**
PROJECT **DeBock's Texaco**
LOCATION **Grandview, Washington**
PROJECT NO. **2093-01**
LOGGED BY **DBP**

START CARD **SE70846** WELL ID
COORDINATES
SURFACE ELEVATION DATUM

| SAMPLE INFORMATION | | | | | | STRATA | DESCRIPTION | CONSTRUCTION DETAIL/ COMMENTS | ELEVATION FEET |
|---|---|---|---|---|---|---|---|---|---|
| DEPTH FEET | LAB SAMPLE ID | pH | PID (ppmV) | SHEEN | RECOVERY % | | | | |
| | | | | | 100 | | Asphalt | | |
| | | | | | | | Gray silty GRAVEL (GM); dry, coarse (fill). | | |
| | | | 0.0 | VERY SLIGHT* | | | Gray-brown sandy SILT (ML); medium stiff, moist, sand is fine.<br>* Not indicative of petroleum. | Installed temporary 3/4-inch Sch 40 PVC well screened from 15 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 15 feet during groundwater sampling. Collected groundwater sample B23W. | |
| | | | | | | | 1-inch-thick ash lens. | | |
| 5 | | | 0.0 | NO | 100 | | | | |
| | | | 0.0 | NO | | | | | |
| | | | | | | | 1-inch-thick medium sand lens. | | |
| | | | | | | | 0.5-inch-thick medium sand lens. | | |
| 10 | | | 0.0 | NO | 100 | | | | |
| | | | 0.0 | NO | | | 5-inch-thick medium sand lens. | | |
| | | | | | | | Sand becomes trace. | | |
| | | | | | | | Becomes sandy, sand is fine.<br>Becomes stiff. | | |
| 15 | B23-15 | | 0.0 | NO | 100 | | | | |
| | | | | | | | Becomes saturated and soft. | | |
| | | | 0.0 | NO | | | Becomes medium stiff. | ▼ | |
| | | | | | | | | | |
| 20 | | | 0.0 | NO | 100 | | | | |
| | | | | | | | Becomes soft. | | |
| | | | 0.0 | NO | | | | | |
| | | | | | | | Gray-brown silty SAND (SM); dense, saturated, fine. | | |
| 25 | | | 0.0 | NO | | | | | |
| | | | | | | | Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with asphalt. | | |

DRILLING CONTRACTOR **Cascade Drilling**
DRILLING METHOD **Hand Auger/Direct Push**
DRILLING EQUIPMENT **Geoprobe 7720DT**
DRILLING STARTED **8/8/19** ENDED **8/8/19**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

See key sheet for symbols and abbreviations used above.

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# Attachment B

**Apex Laboratories, LLC**

**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

Monday, August 26, 2019

Chris Rhea
EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

RE: A9H0318 - Debocks Texaco - 2093-01

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9H0318, which was received by the laboratory on 8/9/2019 at 11:25:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

| | | | |
|---|---|---|---|
| Cooler #1 | 0.9 degC | Cooler #2 | 4.3 degC |

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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Apex Laboratories

Kevin J. Friscia, Project Manager

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**Apex Laboratories, LLC**

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| 240 N Broadway Ste 203 | Project Number: **2093-01** | **Report ID:** |
| Portland, OR 97227 | Project Manager: **Chris Rhea** | A9H0318 - 08 26 19 0857 |

# ANALYTICAL REPORT FOR SAMPLES

## SAMPLE INFORMATION

| Client Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| MW-13-10 | A9H0318-03 | Soil | 08/06/19 12:20 | 08/09/19 11:25 |
| MW-13-15 | A9H0318-04 | Soil | 08/06/19 12:25 | 08/09/19 11:25 |
| MW-13-20 | A9H0318-05 | Soil | 08/06/19 12:45 | 08/09/19 11:25 |
| MW-13-25 | A9H0318-06 | Soil | 08/06/19 13:00 | 08/09/19 11:25 |
| B19-15 | A9H0318-11 | Soil | 08/07/19 09:25 | 08/09/19 11:25 |
| B19-W | A9H0318-15 | Water | 08/07/19 11:00 | 08/09/19 11:25 |
| B20-15 | A9H0318-18 | Soil | 08/07/19 11:35 | 08/09/19 11:25 |
| B20-W | A9H0318-21 | Water | 08/07/19 12:45 | 08/09/19 11:25 |
| B21-14 | A9H0318-25 | Soil | 08/07/19 14:25 | 08/09/19 11:25 |
| B22-15 | A9H0318-31 | Soil | 08/07/19 15:55 | 08/09/19 11:25 |
| B21-W | A9H0318-33 | Water | 08/07/19 16:00 | 08/09/19 11:25 |
| B22-W | A9H0318-35 | Water | 08/07/19 17:00 | 08/09/19 11:25 |
| B23-15 | A9H0318-39 | Soil | 08/08/19 08:05 | 08/09/19 11:25 |
| B23-W | A9H0318-42 | Water | 08/08/19 09:15 | 08/09/19 11:25 |
| MW-12 | A9H0318-43 | Water | 08/08/19 10:00 | 08/09/19 11:25 |
| MW-10 | A9H0318-44 | Water | 08/08/19 11:05 | 08/09/19 11:25 |
| MW-11 | A9H0318-45 | Water | 08/08/19 11:50 | 08/09/19 11:25 |
| MW-5 | A9H0318-46 | Water | 08/08/19 12:30 | 08/09/19 11:25 |
| MW13-W | A9H0318-47 | Water | 08/08/19 13:05 | 08/09/19 11:25 |

Apex Laboratories

Kevin J. Friscia, Project Manager

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**EPA ID: OR01039**

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| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL CASE NARRATIVE

**Work Order: A9H0318**

Amended Report Revision 1:

This report supersedes all previous reports.

The following sample name was changed per client request:

A9H0318-25: B21-15 is changed to B21-14

Kevin Friscia
Project Manager
8/23/2019

**Apex Laboratories, LLC**

**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### Diesel and/or Oil Hydrocarbons by NWTPH-Dx

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **MW13-W (A9H0318-47)** | | | | **Matrix: Water** | | **Batch: 9080890** | | |
| **Diesel** | **1.00** | --- | 0.187 | mg/L | 1 | 08/14/19 04:33 | NWTPH-Dx | **B-02, F-20** |
| Oil | ND | --- | 0.374 | mg/L | 1 | 08/14/19 04:33 | NWTPH-Dx | |
| *Surrogate: o-Terphenyl (Surr)* | | *Recovery: 105 %* | | *Limits: 50-150 %* | *1* | *08/14/19 04:33* | *NWTPH-Dx* | |

Apex Laboratories

Kevin J. Friscia, Project Manager

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EPA ID: OR01039

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|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **MW-13-10 (A9H0318-03)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Gasoline Range Organics | ND | --- | 7.00 | mg/kg dry | 50 | 08/12/19 15:35 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *88 %* | *Limits: 50-150 %* | *1* | *08/12/19 15:35* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *79 %* | *50-150 %* | *1* | *08/12/19 15:35* | *NWTPH-Gx (MS)* | |
| **MW-13-15 (A9H0318-04RE2)** | | | | **Matrix: Soil** | | **Batch: 9080960** | | |
| **Gasoline Range Organics** | **1600** | --- | 64.8 | mg/kg dry | 500 | 08/14/19 16:33 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *102 %* | *Limits: 50-150 %* | *1* | *08/14/19 16:33* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *83 %* | *50-150 %* | *1* | *08/14/19 16:33* | *NWTPH-Gx (MS)* | |
| **MW-13-20 (A9H0318-05RE2)** | | | | **Matrix: Soil** | | **Batch: 9080960** | | |
| **Gasoline Range Organics** | **1210** | --- | 62.3 | mg/kg dry | 500 | 08/14/19 16:05 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *99 %* | *Limits: 50-150 %* | *1* | *08/14/19 16:05* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *80 %* | *50-150 %* | *1* | *08/14/19 16:05* | *NWTPH-Gx (MS)* | |
| **MW-13-25 (A9H0318-06RE1)** | | | | **Matrix: Soil** | | **Batch: 9081072** | | |
| Gasoline Range Organics | ND | --- | 6.21 | mg/kg dry | 50 | 08/19/19 14:50 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *97 %* | *Limits: 50-150 %* | *1* | *08/19/19 14:50* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *81 %* | *50-150 %* | *1* | *08/19/19 14:50* | *NWTPH-Gx (MS)* | |
| **B19-15 (A9H0318-11RE2)** | | | | **Matrix: Soil** | | **Batch: 9080960** | | |
| **Gasoline Range Organics** | **4740** | --- | 225 | mg/kg dry | 2000 | 08/14/19 17:27 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *93 %* | *Limits: 50-150 %* | *1* | *08/14/19 17:27* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *81 %* | *50-150 %* | *1* | *08/14/19 17:27* | *NWTPH-Gx (MS)* | |
| **B19-W (A9H0318-15)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Gasoline Range Organics** | **4.16** | --- | 0.100 | mg/L | 1 | 08/12/19 15:22 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *107 %* | *Limits: 50-150 %* | *1* | *08/12/19 15:22* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *105 %* | *50-150 %* | *1* | *08/12/19 15:22* | *NWTPH-Gx (MS)* | |
| **B20-15 (A9H0318-18)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Gasoline Range Organics | ND | --- | 5.51 | mg/kg dry | 50 | 08/12/19 17:51 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *101 %* | *Limits: 50-150 %* | *1* | *08/12/19 17:51* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *82 %* | *50-150 %* | *1* | *08/12/19 17:51* | *NWTPH-Gx (MS)* | |
| **B20-W (A9H0318-21)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |

Apex Laboratories

Kevin J. Friscia, Project Manager

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503-718-2323
EPA ID: OR01039

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **B20-W (A9H0318-21)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Gasoline Range Organics** | **1.84** | --- | 0.100 | mg/L | 1 | 08/12/19 16:20 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 103 %* | | *Limits: 50-150 %* | *1* | *08/12/19 16:20* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *104 %* | *50-150 %* | *1* | *08/12/19 16:20* | *NWTPH-Gx (MS)* | |
| **B21-14 (A9H0318-25)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| **Gasoline Range Organics** | **119** | --- | 8.09 | mg/kg dry | 50 | 08/12/19 18:19 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 96 %* | | *Limits: 50-150 %* | *1* | *08/12/19 18:19* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *80 %* | *50-150 %* | *1* | *08/12/19 18:19* | *NWTPH-Gx (MS)* | |
| **B22-15 (A9H0318-31)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Gasoline Range Organics | ND | --- | 5.55 | mg/kg dry | 50 | 08/12/19 18:46 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 88 %* | | *Limits: 50-150 %* | *1* | *08/12/19 18:46* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *78 %* | *50-150 %* | *1* | *08/12/19 18:46* | *NWTPH-Gx (MS)* | |
| **B21-W (A9H0318-33)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Gasoline Range Organics** | **1.13** | --- | 0.100 | mg/L | 1 | 08/12/19 16:48 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 103 %* | | *Limits: 50-150 %* | *1* | *08/12/19 16:48* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *104 %* | *50-150 %* | *1* | *08/12/19 16:48* | *NWTPH-Gx (MS)* | |
| **B22-W (A9H0318-35)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Gasoline Range Organics | ND | --- | 0.100 | mg/L | 1 | 08/12/19 17:16 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 98 %* | | *Limits: 50-150 %* | *1* | *08/12/19 17:16* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *105 %* | *50-150 %* | *1* | *08/12/19 17:16* | *NWTPH-Gx (MS)* | |
| **B23-15 (A9H0318-39)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Gasoline Range Organics | ND | --- | 6.06 | mg/kg dry | 50 | 08/12/19 19:13 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 87 %* | | *Limits: 50-150 %* | *1* | *08/12/19 19:13* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *78 %* | *50-150 %* | *1* | *08/12/19 19:13* | *NWTPH-Gx (MS)* | |
| **B23-W (A9H0318-42)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Gasoline Range Organics | ND | --- | 0.100 | mg/L | 1 | 08/12/19 17:44 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 100 %* | | *Limits: 50-150 %* | *1* | *08/12/19 17:44* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *106 %* | *50-150 %* | *1* | *08/12/19 17:44* | *NWTPH-Gx (MS)* | |
| **MW-12 (A9H0318-43)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |

Apex Laboratories

Kevin J. Friscia, Project Manager

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**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

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|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **MW-12 (A9H0318-43)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Gasoline Range Organics** | **0.272** | --- | 0.100 | mg/L | 1 | 08/12/19 18:11 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 99 %* | *Limits: 50-150 %* | | *1* | *08/12/19 18:11* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *105 %* | *50-150 %* | *1* | *08/12/19 18:11* | *NWTPH-Gx (MS)* | |
| **MW-10 (A9H0318-44)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Gasoline Range Organics** | **0.115** | --- | 0.100 | mg/L | 1 | 08/12/19 18:39 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 102 %* | *Limits: 50-150 %* | | *1* | *08/12/19 18:39* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *107 %* | *50-150 %* | *1* | *08/12/19 18:39* | *NWTPH-Gx (MS)* | |
| **MW-11 (A9H0318-45)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Gasoline Range Organics** | **0.600** | --- | 0.100 | mg/L | 1 | 08/12/19 19:06 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 101 %* | *Limits: 50-150 %* | | *1* | *08/12/19 19:06* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *105 %* | *50-150 %* | *1* | *08/12/19 19:06* | *NWTPH-Gx (MS)* | |
| **MW-5 (A9H0318-46)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Gasoline Range Organics | ND | --- | 0.100 | mg/L | 1 | 08/12/19 19:33 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 98 %* | *Limits: 50-150 %* | | *1* | *08/12/19 19:33* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *108 %* | *50-150 %* | *1* | *08/12/19 19:33* | *NWTPH-Gx (MS)* | |
| **MW13-W (A9H0318-47)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Gasoline Range Organics** | **2.58** | --- | 0.100 | mg/L | 1 | 08/12/19 20:00 | NWTPH-Gx (MS) | |
| *Surrogate: 4-Bromofluorobenzene (Sur)* | | *Recovery: 102 %* | *Limits: 50-150 %* | | *1* | *08/12/19 20:00* | *NWTPH-Gx (MS)* | |
| *1,4-Difluorobenzene (Sur)* | | | *103 %* | *50-150 %* | *1* | *08/12/19 20:00* | *NWTPH-Gx (MS)* | |

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503-718-2323
EPA ID: OR01039

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **MW-13-10 (A9H0318-03)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Benzene | ND | --- | 14.0 | ug/kg dry | 50 | 08/12/19 15:35 | 5035A/8260C | |
| Toluene | ND | --- | 70.0 | ug/kg dry | 50 | 08/12/19 15:35 | 5035A/8260C | |
| Ethylbenzene | ND | --- | 35.0 | ug/kg dry | 50 | 08/12/19 15:35 | 5035A/8260C | |
| Xylenes, total | ND | --- | 105 | ug/kg dry | 50 | 08/12/19 15:35 | 5035A/8260C | |
| Naphthalene | ND | --- | 140 | ug/kg dry | 50 | 08/12/19 15:35 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *103 %* | *Limits: 80-120 %* | *1* | *08/12/19 15:35* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *97 %* | *80-120 %* | *1* | *08/12/19 15:35* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *108 %* | *80-120 %* | *1* | *08/12/19 15:35* | *5035A/8260C* | |
| **MW-13-15 (A9H0318-04)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Benzene | ND | --- | 13.0 | ug/kg dry | 50 | 08/12/19 16:30 | 5035A/8260C | |
| **Toluene** | **72.3** | --- | 64.8 | ug/kg dry | 50 | 08/12/19 16:30 | 5035A/8260C | **M-04** |
| **Ethylbenzene** | **4010** | --- | 32.4 | ug/kg dry | 50 | 08/12/19 16:30 | 5035A/8260C | |
| **Xylenes, total** | **8780** | --- | 97.2 | ug/kg dry | 50 | 08/12/19 16:30 | 5035A/8260C | |
| **Naphthalene** | **7280** | --- | 130 | ug/kg dry | 50 | 08/12/19 16:30 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *109 %* | *Limits: 80-120 %* | *1* | *08/12/19 16:30* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *106 %* | *80-120 %* | *1* | *08/12/19 16:30* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *104 %* | *80-120 %* | *1* | *08/12/19 16:30* | *5035A/8260C* | |
| **MW-13-20 (A9H0318-05)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| **Benzene** | **30.5** | --- | 12.5 | ug/kg dry | 50 | 08/12/19 16:57 | 5035A/8260C | |
| **Toluene** | **77.6** | --- | 62.3 | ug/kg dry | 50 | 08/12/19 16:57 | 5035A/8260C | **M-04** |
| **Ethylbenzene** | **77.8** | --- | 31.1 | ug/kg dry | 50 | 08/12/19 16:57 | 5035A/8260C | **M-04** |
| **Xylenes, total** | **224** | --- | 93.4 | ug/kg dry | 50 | 08/12/19 16:57 | 5035A/8260C | **M-02** |
| **Naphthalene** | **3790** | --- | 125 | ug/kg dry | 50 | 08/12/19 16:57 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *109 %* | *Limits: 80-120 %* | *1* | *08/12/19 16:57* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *106 %* | *80-120 %* | *1* | *08/12/19 16:57* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *110 %* | *80-120 %* | *1* | *08/12/19 16:57* | *5035A/8260C* | |
| **MW-13-25 (A9H0318-06RE1)** | | | | **Matrix: Soil** | | **Batch: 9081072** | | |
| Benzene | ND | --- | 12.4 | ug/kg dry | 50 | 08/19/19 14:50 | 5035A/8260C | |
| Toluene | ND | --- | 62.1 | ug/kg dry | 50 | 08/19/19 14:50 | 5035A/8260C | |
| Ethylbenzene | ND | --- | 31.1 | ug/kg dry | 50 | 08/19/19 14:50 | 5035A/8260C | |
| Xylenes, total | ND | --- | 93.2 | ug/kg dry | 50 | 08/19/19 14:50 | 5035A/8260C | |

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| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **MW-13-25 (A9H0318-06RE1)** | | | | **Matrix: Soil** | | **Batch: 9081072** | | |
| Naphthalene | ND | --- | 124 | ug/kg dry | 50 | 08/19/19 14:50 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *112 %* | *Limits: 80-120 %* | *1* | *08/19/19 14:50* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *93 %* | *80-120 %* | *1* | *08/19/19 14:50* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *110 %* | *80-120 %* | *1* | *08/19/19 14:50* | *5035A/8260C* | |
| **B19-15 (A9H0318-11RE2)** | | | | **Matrix: Soil** | | **Batch: 9080960** | | |
| Benzene | ND | --- | 449 | ug/kg dry | 2000 | 08/14/19 17:27 | 5035A/8260C | |
| Toluene | ND | --- | 2250 | ug/kg dry | 2000 | 08/14/19 17:27 | 5035A/8260C | |
| **Ethylbenzene** | **3140** | --- | 1120 | ug/kg dry | 2000 | 08/14/19 17:27 | 5035A/8260C | |
| **Xylenes, total** | **4190** | --- | 3370 | ug/kg dry | 2000 | 08/14/19 17:27 | 5035A/8260C | |
| **Naphthalene** | **35600** | --- | 4490 | ug/kg dry | 2000 | 08/14/19 17:27 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *106 %* | *Limits: 80-120 %* | *1* | *08/14/19 17:27* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *100 %* | *80-120 %* | *1* | *08/14/19 17:27* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *107 %* | *80-120 %* | *1* | *08/14/19 17:27* | *5035A/8260C* | |
| **B19-W (A9H0318-15)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Benzene | ND | --- | 0.200 | ug/L | 1 | 08/12/19 15:22 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 15:22 | EPA 8260C | |
| **Ethylbenzene** | **4.92** | --- | 0.500 | ug/L | 1 | 08/12/19 15:22 | EPA 8260C | |
| **Xylenes, total** | **6.68** | --- | 1.50 | ug/L | 1 | 08/12/19 15:22 | EPA 8260C | |
| **Naphthalene** | **15.2** | --- | 2.00 | ug/L | 1 | 08/12/19 15:22 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *102 %* | *Limits: 80-120 %* | *1* | *08/12/19 15:22* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *101 %* | *80-120 %* | *1* | *08/12/19 15:22* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *94 %* | *80-120 %* | *1* | *08/12/19 15:22* | *EPA 8260C* | |
| **B20-15 (A9H0318-18)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Benzene | ND | --- | 11.0 | ug/kg dry | 50 | 08/12/19 17:51 | 5035A/8260C | |
| Toluene | ND | --- | 55.1 | ug/kg dry | 50 | 08/12/19 17:51 | 5035A/8260C | |
| Ethylbenzene | ND | --- | 27.5 | ug/kg dry | 50 | 08/12/19 17:51 | 5035A/8260C | |
| Xylenes, total | ND | --- | 82.6 | ug/kg dry | 50 | 08/12/19 17:51 | 5035A/8260C | |
| Naphthalene | ND | --- | 110 | ug/kg dry | 50 | 08/12/19 17:51 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *110 %* | *Limits: 80-120 %* | *1* | *08/12/19 17:51* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *91 %* | *80-120 %* | *1* | *08/12/19 17:51* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *111 %* | *80-120 %* | *1* | *08/12/19 17:51* | *5035A/8260C* | |

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| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **B20-W (A9H0318-21)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Benzene** | **0.220** | --- | 0.200 | ug/L | 1 | 08/12/19 16:20 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 16:20 | EPA 8260C | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | 08/12/19 16:20 | EPA 8260C | |
| Xylenes, total | ND | --- | 1.50 | ug/L | 1 | 08/12/19 16:20 | EPA 8260C | |
| Naphthalene | ND | --- | 2.00 | ug/L | 1 | 08/12/19 16:20 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *103 %* | *Limits: 80-120 %* | *1* | *08/12/19 16:20* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *101 %* | *80-120 %* | *1* | *08/12/19 16:20* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *97 %* | *80-120 %* | *1* | *08/12/19 16:20* | *EPA 8260C* | |
| **B21-14 (A9H0318-25)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Benzene | ND | --- | 16.2 | ug/kg dry | 50 | 08/12/19 18:19 | 5035A/8260C | |
| Toluene | ND | --- | 80.9 | ug/kg dry | 50 | 08/12/19 18:19 | 5035A/8260C | |
| Ethylbenzene | ND | --- | 40.4 | ug/kg dry | 50 | 08/12/19 18:19 | 5035A/8260C | |
| Xylenes, total | ND | --- | 121 | ug/kg dry | 50 | 08/12/19 18:19 | 5035A/8260C | |
| **Naphthalene** | **1380** | --- | 162 | ug/kg dry | 50 | 08/12/19 18:19 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *107 %* | *Limits: 80-120 %* | *1* | *08/12/19 18:19* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *96 %* | *80-120 %* | *1* | *08/12/19 18:19* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *109 %* | *80-120 %* | *1* | *08/12/19 18:19* | *5035A/8260C* | |
| **B22-15 (A9H0318-31)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Benzene | ND | --- | 11.1 | ug/kg dry | 50 | 08/12/19 18:46 | 5035A/8260C | |
| Toluene | ND | --- | 55.5 | ug/kg dry | 50 | 08/12/19 18:46 | 5035A/8260C | |
| Ethylbenzene | ND | --- | 27.7 | ug/kg dry | 50 | 08/12/19 18:46 | 5035A/8260C | |
| Xylenes, total | ND | --- | 83.2 | ug/kg dry | 50 | 08/12/19 18:46 | 5035A/8260C | |
| Naphthalene | ND | --- | 111 | ug/kg dry | 50 | 08/12/19 18:46 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *106 %* | *Limits: 80-120 %* | *1* | *08/12/19 18:46* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *97 %* | *80-120 %* | *1* | *08/12/19 18:46* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *106 %* | *80-120 %* | *1* | *08/12/19 18:46* | *5035A/8260C* | |
| **B21-W (A9H0318-33)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Benzene | ND | --- | 0.200 | ug/L | 1 | 08/12/19 16:48 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 16:48 | EPA 8260C | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | 08/12/19 16:48 | EPA 8260C | |
| Xylenes, total | ND | --- | 1.50 | ug/L | 1 | 08/12/19 16:48 | EPA 8260C | |

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**EPA ID: OR01039**

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **B21-W (A9H0318-33)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Naphthalene** | **3.36** | --- | 2.00 | ug/L | 1 | 08/12/19 16:48 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery: 103 %* | | *Limits: 80-120 %* | *1* | *08/12/19 16:48* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *101 %* | *80-120 %* | *1* | *08/12/19 16:48* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *97 %* | *80-120 %* | *1* | *08/12/19 16:48* | *EPA 8260C* | |
| **B22-W (A9H0318-35)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Benzene | ND | --- | 0.200 | ug/L | 1 | 08/12/19 17:16 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 17:16 | EPA 8260C | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | 08/12/19 17:16 | EPA 8260C | |
| Xylenes, total | ND | --- | 1.50 | ug/L | 1 | 08/12/19 17:16 | EPA 8260C | |
| Naphthalene | ND | --- | 2.00 | ug/L | 1 | 08/12/19 17:16 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery: 105 %* | | *Limits: 80-120 %* | *1* | *08/12/19 17:16* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *101 %* | *80-120 %* | *1* | *08/12/19 17:16* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *96 %* | *80-120 %* | *1* | *08/12/19 17:16* | *EPA 8260C* | |
| **B23-15 (A9H0318-39)** | | | | **Matrix: Soil** | | **Batch: 9080869** | | |
| Benzene | ND | --- | 12.1 | ug/kg dry | 50 | 08/12/19 19:13 | 5035A/8260C | |
| Toluene | ND | --- | 60.6 | ug/kg dry | 50 | 08/12/19 19:13 | 5035A/8260C | |
| Ethylbenzene | ND | --- | 30.3 | ug/kg dry | 50 | 08/12/19 19:13 | 5035A/8260C | |
| Xylenes, total | ND | --- | 90.9 | ug/kg dry | 50 | 08/12/19 19:13 | 5035A/8260C | |
| Naphthalene | ND | --- | 121 | ug/kg dry | 50 | 08/12/19 19:13 | 5035A/8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery: 107 %* | | *Limits: 80-120 %* | *1* | *08/12/19 19:13* | *5035A/8260C* | |
| *Toluene-d8 (Surr)* | | | *97 %* | *80-120 %* | *1* | *08/12/19 19:13* | *5035A/8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *108 %* | *80-120 %* | *1* | *08/12/19 19:13* | *5035A/8260C* | |
| **B23-W (A9H0318-42)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Benzene | ND | --- | 0.200 | ug/L | 1 | 08/12/19 17:44 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 17:44 | EPA 8260C | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | 08/12/19 17:44 | EPA 8260C | |
| Xylenes, total | ND | --- | 1.50 | ug/L | 1 | 08/12/19 17:44 | EPA 8260C | |
| Naphthalene | ND | --- | 2.00 | ug/L | 1 | 08/12/19 17:44 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery: 105 %* | | *Limits: 80-120 %* | *1* | *08/12/19 17:44* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *101 %* | *80-120 %* | *1* | *08/12/19 17:44* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *95 %* | *80-120 %* | *1* | *08/12/19 17:44* | *EPA 8260C* | |

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503-718-2323
EPA ID: OR01039

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|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **MW-12 (A9H0318-43)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Benzene** | **0.430** | --- | 0.200 | ug/L | 1 | 08/12/19 18:11 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 18:11 | EPA 8260C | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | 08/12/19 18:11 | EPA 8260C | |
| **Xylenes, total** | **1.84** | --- | 1.50 | ug/L | 1 | 08/12/19 18:11 | EPA 8260C | |
| Naphthalene | ND | --- | 2.00 | ug/L | 1 | 08/12/19 18:11 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *105 %* | *Limits: 80-120 %* | *1* | *08/12/19 18:11* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *101 %* | *80-120 %* | *1* | *08/12/19 18:11* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *98 %* | *80-120 %* | *1* | *08/12/19 18:11* | *EPA 8260C* | |
| **MW-10 (A9H0318-44)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Benzene** | **0.470** | --- | 0.200 | ug/L | 1 | 08/12/19 18:39 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 18:39 | EPA 8260C | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | 08/12/19 18:39 | EPA 8260C | |
| Xylenes, total | ND | --- | 1.50 | ug/L | 1 | 08/12/19 18:39 | EPA 8260C | |
| Naphthalene | ND | --- | 2.00 | ug/L | 1 | 08/12/19 18:39 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *104 %* | *Limits: 80-120 %* | *1* | *08/12/19 18:39* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *101 %* | *80-120 %* | *1* | *08/12/19 18:39* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *96 %* | *80-120 %* | *1* | *08/12/19 18:39* | *EPA 8260C* | |
| **MW-11 (A9H0318-45)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Benzene** | **0.290** | --- | 0.200 | ug/L | 1 | 08/12/19 19:06 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 19:06 | EPA 8260C | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | 08/12/19 19:06 | EPA 8260C | |
| Xylenes, total | ND | --- | 1.50 | ug/L | 1 | 08/12/19 19:06 | EPA 8260C | |
| Naphthalene | ND | --- | 2.00 | ug/L | 1 | 08/12/19 19:06 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *105 %* | *Limits: 80-120 %* | *1* | *08/12/19 19:06* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *101 %* | *80-120 %* | *1* | *08/12/19 19:06* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *98 %* | *80-120 %* | *1* | *08/12/19 19:06* | *EPA 8260C* | |
| **MW-5 (A9H0318-46)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Benzene | ND | --- | 0.200 | ug/L | 1 | 08/12/19 19:33 | EPA 8260C | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | 08/12/19 19:33 | EPA 8260C | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | 08/12/19 19:33 | EPA 8260C | |
| Xylenes, total | ND | --- | 1.50 | ug/L | 1 | 08/12/19 19:33 | EPA 8260C | |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## ANALYTICAL SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **MW-5 (A9H0318-46)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| Naphthalene | ND | --- | 2.00 | ug/L | 1 | 08/12/19 19:33 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *106 %* | *Limits: 80-120 %* | *1* | *08/12/19 19:33* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *102 %* | *80-120 %* | *1* | *08/12/19 19:33* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *93 %* | *80-120 %* | *1* | *08/12/19 19:33* | *EPA 8260C* | |
| **MW13-W (A9H0318-47)** | | | | **Matrix: Water** | | **Batch: 9080853** | | |
| **Benzene** | **8.08** | --- | 0.200 | ug/L | 1 | 08/12/19 20:00 | EPA 8260C | |
| **Toluene** | **1.51** | --- | 1.00 | ug/L | 1 | 08/12/19 20:00 | EPA 8260C | |
| **Ethylbenzene** | **12.9** | --- | 0.500 | ug/L | 1 | 08/12/19 20:00 | EPA 8260C | |
| **Xylenes, total** | **24.5** | --- | 1.50 | ug/L | 1 | 08/12/19 20:00 | EPA 8260C | |
| **Naphthalene** | **29.7** | --- | 2.00 | ug/L | 1 | 08/12/19 20:00 | EPA 8260C | |
| *Surrogate: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *103 %* | *Limits: 80-120 %* | *1* | *08/12/19 20:00* | *EPA 8260C* | |
| *Toluene-d8 (Surr)* | | | *102 %* | *80-120 %* | *1* | *08/12/19 20:00* | *EPA 8260C* | |
| *4-Bromofluorobenzene (Surr)* | | | *98 %* | *80-120 %* | *1* | *08/12/19 20:00* | *EPA 8260C* | |

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## ANALYTICAL SAMPLE RESULTS

### Percent Dry Weight

| Analyte | Sample Result | Detection Limit | Reporting Limit | Units | Dilution | Date Analyzed | Method Ref. | Notes |
|---|---|---|---|---|---|---|---|---|
| **MW-13-10 (A9H0318-03)** | | | | **Matrix: Soil** | | **Batch: 9080878** | | |
| **% Solids** | **75.7** | --- | 1.00 | % by Weight | 1 | 08/13/19 07:33 | EPA 8000C | |
| **MW-13-15 (A9H0318-04)** | | | | **Matrix: Soil** | | **Batch: 9080921** | | |
| **% Solids** | **80.3** | --- | 1.00 | % by Weight | 1 | 08/14/19 07:16 | EPA 8000C | |
| **MW-13-20 (A9H0318-05)** | | | | **Matrix: Soil** | | **Batch: 9080921** | | |
| **% Solids** | **79.0** | --- | 1.00 | % by Weight | 1 | 08/14/19 07:16 | EPA 8000C | |
| **MW-13-25 (A9H0318-06)** | | | | **Matrix: Soil** | | **Batch: 9081148** | | |
| **% Solids** | **78.0** | --- | 1.00 | % by Weight | 1 | 08/21/19 07:44 | EPA 8000C | |
| **B19-15 (A9H0318-11)** | | | | **Matrix: Soil** | | **Batch: 9080921** | | |
| **% Solids** | **81.2** | --- | 1.00 | % by Weight | 1 | 08/14/19 07:16 | EPA 8000C | |
| **B20-15 (A9H0318-18)** | | | | **Matrix: Soil** | | **Batch: 9080921** | | |
| **% Solids** | **82.8** | --- | 1.00 | % by Weight | 1 | 08/14/19 07:16 | EPA 8000C | |
| **B21-14 (A9H0318-25)** | | | | **Matrix: Soil** | | **Batch: 9080921** | | |
| **% Solids** | **76.3** | --- | 1.00 | % by Weight | 1 | 08/14/19 07:16 | EPA 8000C | |
| **B22-15 (A9H0318-31)** | | | | **Matrix: Soil** | | **Batch: 9080921** | | |
| **% Solids** | **82.0** | --- | 1.00 | % by Weight | 1 | 08/14/19 07:16 | EPA 8000C | |
| **B23-15 (A9H0318-39)** | | | | **Matrix: Soil** | | **Batch: 9080878** | | |
| **% Solids** | **79.7** | --- | 1.00 | % by Weight | 1 | 08/13/19 07:33 | EPA 8000C | |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Diesel and/or Oil Hydrocarbons by NWTPH-Dx

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080890 - EPA 3510C (Fuels/Acid Ext.)** | | | | | | | **Water** | | | | | |
| **Blank (9080890-BLK1)** | | | Prepared: 08/13/19 09:39 | | Analyzed: 08/14/19 00:51 | | | | | | | |
| **NWTPH-Dx** | | | | | | | | | | | | |
| Diesel | ND | --- | 0.182 | mg/L | 1 | --- | --- | --- | --- | --- | --- | B-02 |
| Oil | ND | --- | 0.364 | mg/L | 1 | --- | --- | --- | --- | --- | --- | |
| *Surr: o-Terphenyl (Surr)* | | *Recovery: 102 %* | | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |
| **LCS (9080890-BS1)** | | | Prepared: 08/13/19 09:39 | | Analyzed: 08/14/19 01:12 | | | | | | | |
| **NWTPH-Dx** | | | | | | | | | | | | |
| Diesel | 1.14 | --- | 0.200 | mg/L | 1 | 1.25 | --- | 91 | 58-115% | --- | --- | |
| *Surr: o-Terphenyl (Surr)* | | *Recovery: 101 %* | | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |
| **LCS Dup (9080890-BSD1)** | | | Prepared: 08/13/19 09:39 | | Analyzed: 08/14/19 01:32 | | | | | | | **Q-19** |
| **NWTPH-Dx** | | | | | | | | | | | | |
| Diesel | 1.24 | --- | 0.200 | mg/L | 1 | 1.25 | --- | 100 | 58-115% | 9 | 20% | |
| *Surr: o-Terphenyl (Surr)* | | *Recovery: 109 %* | | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |

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## QUALITY CONTROL (QC) SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080853 - EPA 5030B** | | | | | | | | | Water | | | |
| **Blank (9080853-BLK1)** | | | Prepared: 08/12/19 09:27 | | Analyzed: 08/12/19 13:05 | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 0.100 | mg/L | 1 | --- | --- | --- | --- | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *100 %* | *Limits:* | *50-150 %* | | *Dilution:* | *1x* | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *109 %* | | *50-150 %* | | | *"* | | | | |
| **LCS (9080853-BS2)** | | | Prepared: 08/12/19 09:27 | | Analyzed: 08/12/19 12:38 | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | 0.488 | --- | 0.100 | mg/L | 1 | 0.500 | --- | 98 | 80-120% | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *100 %* | *Limits:* | *50-150 %* | | *Dilution:* | *1x* | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *107 %* | | *50-150 %* | | | *"* | | | | |
| **Duplicate (9080853-DUP1)** | | | Prepared: 08/12/19 09:27 | | Analyzed: 08/12/19 22:42 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0287-08) | | | | | | | | | | | | |
| Gasoline Range Organics | **10.9** | --- | 0.500 | mg/L | 5 | --- | 13.3 | --- | --- | 20 | 30% | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *101 %* | *Limits:* | *50-150 %* | | *Dilution:* | *1x* | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *101 %* | | *50-150 %* | | | *"* | | | | |
| **Duplicate (9080853-DUP2)** | | | Prepared: 08/12/19 09:27 | | Analyzed: 08/12/19 15:51 | | | | | | | |
| QC Source Sample: B19-W (A9H0318-15) | | | | | | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | **3.69** | --- | 0.100 | mg/L | 1 | --- | 4.16 | --- | --- | 12 | 30% | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *102 %* | *Limits:* | *50-150 %* | | *Dilution:* | *1x* | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *102 %* | | *50-150 %* | | | *"* | | | | |

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## QUALITY CONTROL (QC) SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080869 - EPA 5035A** | | | | | | | | | | | | **Soil** |
| **Blank (9080869-BLK1)** | | | Prepared: 08/12/19 13:00 Analyzed: 08/12/19 15:02 | | | | | | | | | |
| **NWTPH-Gx (MS)** | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 3.33 | mg/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | | *Recovery: 91 %* | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *79 %* | *50-150 %* | | | *"* | | | | | |
| **LCS (9080869-BS2)** | | | Prepared: 08/12/19 13:00 Analyzed: 08/12/19 14:34 | | | | | | | | | |
| **NWTPH-Gx (MS)** | | | | | | | | | | | | |
| Gasoline Range Organics | 23.2 | --- | 5.00 | mg/kg wet | 50 | 25.0 | --- | 93 | 80-120% | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | | *Recovery: 86 %* | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *80 %* | *50-150 %* | | | *"* | | | | | |
| **Duplicate (9080869-DUP1)** | | | Prepared: 08/06/19 12:20 Analyzed: 08/12/19 16:02 | | | | | | | | | |
| **QC Source Sample: MW-13-10 (A9H0318-03)** | | | | | | | | | | | | |
| **NWTPH-Gx (MS)** | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 7.47 | mg/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | | *Recovery: 86 %* | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *78 %* | *50-150 %* | | | *"* | | | | | |

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## QUALITY CONTROL (QC) SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080915 - EPA 5035A** | | | | | | | | | Soil | | | |
| **Blank (9080915-BLK1)** | | | Prepared: 08/13/19 12:00 Analyzed: 08/13/19 16:06 | | | | | | | | | |
| **NWTPH-Gx (MS)** | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 3.33 | mg/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | | *Recovery: 84 %* | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *78 %* | *50-150 %* | | | *"* | | | | | |
| **LCS (9080915-BS2)** | | | Prepared: 08/13/19 12:00 Analyzed: 08/13/19 15:39 | | | | | | | | | |
| **NWTPH-Gx (MS)** | | | | | | | | | | | | |
| Gasoline Range Organics | 22.2 | --- | 5.00 | mg/kg wet | 50 | 25.0 | --- | 89 | 80-120% | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | | *Recovery: 84 %* | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *83 %* | *50-150 %* | | | *"* | | | | | |
| **Duplicate (9080915-DUP1)** | | | Prepared: 08/12/19 13:15 Analyzed: 08/13/19 17:01 | | | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0380-01)** | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 5.82 | mg/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | | *Recovery: 88 %* | *Limits: 50-150 %* | | | *Dilution: 1x* | | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *80 %* | *50-150 %* | | | *"* | | | | | |

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EPA ID: OR01039

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| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080960 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Blank (9080960-BLK1)** | | | Prepared: 08/14/19 10:00 | | Analyzed: 08/14/19 15:38 | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 3.33 | mg/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery: 91 %* | *Limits: 50-150 %* | | *Dilution: 1x* | | | | | | | |
| *1,4-Difluorobenzene (Sur)* | | *79 %* | *50-150 %* | | *"* | | | | | | | |
| **LCS (9080960-BS2)** | | | Prepared: 08/14/19 10:00 | | Analyzed: 08/14/19 15:11 | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | 23.4 | --- | 5.00 | mg/kg wet | 50 | 25.0 | --- | 93 | 80-120% | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery: 85 %* | *Limits: 50-150 %* | | *Dilution: 1x* | | | | | | | |
| *1,4-Difluorobenzene (Sur)* | | *79 %* | *50-150 %* | | *"* | | | | | | | S-06 |
| **Duplicate (9080960-DUP1)** | | | Prepared: 08/13/19 13:10 | | Analyzed: 08/14/19 21:32 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0439-01) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 6.31 | mg/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery: 87 %* | *Limits: 50-150 %* | | *Dilution: 1x* | | | | | | | |
| *1,4-Difluorobenzene (Sur)* | | *77 %* | *50-150 %* | | *"* | | | | | | | |
| **Duplicate (9080960-DUP2)** | | | Prepared: 08/13/19 15:20 | | Analyzed: 08/15/19 00:14 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0439-06) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 6.61 | mg/kg dry | 50 | --- | ND | --- | --- | --- | **30%** | Q-05 |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery: 89 %* | *Limits: 50-150 %* | | *Dilution: 1x* | | | | | | | |
| *1,4-Difluorobenzene (Sur)* | | *77 %* | *50-150 %* | | *"* | | | | | | | |

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| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9081009 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Blank (9081009-BLK1)** | | | Prepared: 08/16/19 10:00 | | Analyzed: 08/16/19 12:19 | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 3.33 | mg/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *106 %* | *Limits:* | *50-150 %* | | *Dilution:* | *1x* | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *100 %* | | *50-150 %* | | | *"* | | | | |
| **LCS (9081009-BS2)** | | | Prepared: 08/16/19 10:00 | | Analyzed: 08/16/19 11:52 | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | 27.6 | --- | 5.00 | mg/kg wet | 50 | 25.0 | --- | 110 | 80-120% | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *107 %* | *Limits:* | *50-150 %* | | *Dilution:* | *1x* | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *103 %* | | *50-150 %* | | | *"* | | | | |
| **Duplicate (9081009-DUP1)** | | | Prepared: 08/16/19 10:44 | | Analyzed: 08/16/19 13:13 | | | | | | | **V-15** |
| QC Source Sample: Non-SDG (A9H0534-01) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 8.13 | mg/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery:* | *110 %* | *Limits:* | *50-150 %* | | *Dilution:* | *1x* | | | | |
| *1,4-Difluorobenzene (Sur)* | | | *101 %* | | *50-150 %* | | | *"* | | | | |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9081072 - EPA 5035A** | | | | | | | Soil | | | | | |
| **Blank (9081072-BLK1)** | | | Prepared: 08/19/19 10:00 Analyzed: 08/19/19 14:21 | | | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | ND | --- | 3.33 | mg/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery: 85 %* | *Limits: 50-150 %* | | *Dilution: 1x* | | | | | | | |
| *1,4-Difluorobenzene (Sur)* | | *76 %* | *50-150 %* | | *"* | | | | | | | |
| **LCS (9081072-BS2)** | | | Prepared: 08/19/19 10:00 Analyzed: 08/19/19 13:54 | | | | | | | | | |
| NWTPH-Gx (MS) | | | | | | | | | | | | |
| Gasoline Range Organics | 23.1 | --- | 5.00 | mg/kg wet | 50 | 25.0 | --- | 92 | 80-120% | --- | --- | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery: 87 %* | *Limits: 50-150 %* | | *Dilution: 1x* | | | | | | | |
| *1,4-Difluorobenzene (Sur)* | | *82 %* | *50-150 %* | | *"* | | | | | | | |
| **Duplicate (9081072-DUP1)** | | | Prepared: 08/13/19 11:00 Analyzed: 08/19/19 21:09 | | | | | | | | | |
| QC Source Sample: Non-SDG (A9H0408-02) | | | | | | | | | | | | |
| Gasoline Range Organics | **2430** | --- | 91.3 | mg/kg dry | 500 | --- | 2550 | --- | --- | 5 | 30% | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery: 112 %* | *Limits: 50-150 %* | | *Dilution: 1x* | | | | | | | |
| *1,4-Difluorobenzene (Sur)* | | *82 %* | *50-150 %* | | *"* | | | | | | | |
| **Duplicate (9081072-DUP2)** | | | Prepared: 08/15/19 12:52 Analyzed: 08/19/19 22:30 | | | | | | | | | |
| QC Source Sample: Non-SDG (A9H0553-01) | | | | | | | | | | | | |
| Gasoline Range Organics | **48.0** | --- | 13.9 | mg/kg dry | 50 | --- | 54.1 | --- | --- | 12 | 30% | |
| *Surr: 4-Bromofluorobenzene (Sur)* | | *Recovery: 102 %* | *Limits: 50-150 %* | | *Dilution: 1x* | | | | | | | |
| *1,4-Difluorobenzene (Sur)* | | *79 %* | *50-150 %* | | *"* | | | | | | | |

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## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080853 - EPA 5030B** | | | | | | | | | | | | **Water** |
| **Blank (9080853-BLK1)** | | | Prepared: 08/12/19 09:27 Analyzed: 08/12/19 13:05 | | | | | | | | | |
| EPA 8260C | | | | | | | | | | | | |
| Benzene | ND | --- | 0.200 | ug/L | 1 | --- | --- | --- | --- | --- | --- | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | --- | --- | --- | --- | --- | --- | |
| Ethylbenzene | ND | --- | 0.500 | ug/L | 1 | --- | --- | --- | --- | --- | --- | |
| Xylenes, total | ND | --- | 1.50 | ug/L | 1 | --- | --- | --- | --- | --- | --- | |
| Naphthalene | ND | --- | 2.00 | ug/L | 1 | --- | --- | --- | --- | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 107 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *101 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *96 %* | *80-120 %* | | *"* | | | | | | | |
| **LCS (9080853-BS1)** | | | Prepared: 08/12/19 09:27 Analyzed: 08/12/19 12:11 | | | | | | | | | |
| EPA 8260C | | | | | | | | | | | | |
| Benzene | 19.4 | --- | 0.200 | ug/L | 1 | 20.0 | --- | 97 | 80-120% | --- | --- | |
| Toluene | 18.2 | --- | 1.00 | ug/L | 1 | 20.0 | --- | 91 | 80-120% | --- | --- | |
| Ethylbenzene | 18.9 | --- | 0.500 | ug/L | 1 | 20.0 | --- | 94 | 80-120% | --- | --- | |
| Xylenes, total | 57.3 | --- | 1.50 | ug/L | 1 | 60.0 | --- | 96 | 80-120% | --- | --- | |
| Naphthalene | 20.5 | --- | 2.00 | ug/L | 1 | 20.0 | --- | 102 | 80-120% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 102 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *101 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *95 %* | *80-120 %* | | *"* | | | | | | | |
| **Duplicate (9080853-DUP1)** | | | Prepared: 08/12/19 09:27 Analyzed: 08/12/19 22:42 | | | | | | | | | |
| QC Source Sample: Non-SDG (A9H0287-08) | | | | | | | | | | | | |
| Benzene | **193** | --- | 1.00 | ug/L | 5 | --- | 201 | --- | --- | 4 | 30% | |
| Toluene | **5.55** | --- | 5.00 | ug/L | 5 | --- | 5.65 | --- | --- | 2 | 30% | |
| Ethylbenzene | **83.6** | --- | 2.50 | ug/L | 5 | --- | 86.0 | --- | --- | 3 | 30% | |
| Xylenes, total | ND | --- | 7.50 | ug/L | 5 | --- | 7.15 | --- | --- | *** | 30% | |
| Naphthalene | **342** | --- | 10.0 | ug/L | 5 | --- | 417 | --- | --- | 20 | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 102 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *100 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *96 %* | *80-120 %* | | *"* | | | | | | | |
| **Duplicate (9080853-DUP2)** | | | Prepared: 08/12/19 09:27 Analyzed: 08/12/19 15:51 | | | | | | | | | |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080853 - EPA 5030B** | | | | | | | **Water** | | | | | |
| **Duplicate (9080853-DUP2)** | | | Prepared: 08/12/19 09:27 Analyzed: 08/12/19 15:51 | | | | | | | | | |
| **QC Source Sample: B19-W (A9H0318-15)** | | | | | | | | | | | | |
| **EPA 8260C** | | | | | | | | | | | | |
| Benzene | ND | --- | 0.200 | ug/L | 1 | --- | ND | --- | --- | --- | 30% | |
| Toluene | ND | --- | 1.00 | ug/L | 1 | --- | ND | --- | --- | --- | 30% | |
| Ethylbenzene | **5.05** | --- | 0.500 | ug/L | 1 | --- | 4.92 | --- | --- | 3 | 30% | |
| Xylenes, total | **6.82** | --- | 1.50 | ug/L | 1 | --- | 6.68 | --- | --- | 2 | 30% | |
| Naphthalene | **16.4** | --- | 2.00 | ug/L | 1 | --- | 15.2 | --- | --- | 7 | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | | *Recovery: 102 %* | | *Limits: 80-120 %* | | | *Dilution: 1x* | | | | |
| *Toluene-d8 (Surr)* | | | *101 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *97 %* | | *80-120 %* | | | *"* | | | | |
| **Matrix Spike (9080853-MS1)** | | | Prepared: 08/12/19 09:27 Analyzed: 08/12/19 20:27 | | | | | | | | | |
| **QC Source Sample: MW13-W (A9H0318-47)** | | | | | | | | | | | | |
| **EPA 8260C** | | | | | | | | | | | | |
| Benzene | 30.0 | --- | 0.200 | ug/L | 1 | 20.0 | 8.08 | 110 | 79-120% | --- | --- | |
| Toluene | 21.4 | --- | 1.00 | ug/L | 1 | 20.0 | 1.51 | 99 | 80-121% | --- | --- | |
| Ethylbenzene | 31.0 | --- | 0.500 | ug/L | 1 | 20.0 | 12.9 | 91 | 79-121% | --- | --- | |
| Xylenes, total | 85.2 | --- | 1.50 | ug/L | 1 | 60.0 | 24.5 | 101 | 79-121% | --- | --- | |
| Naphthalene | 44.8 | --- | 2.00 | ug/L | 1 | 20.0 | 29.7 | 76 | 61-128% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | | *Recovery: 103 %* | | *Limits: 80-120 %* | | | *Dilution: 1x* | | | | |
| *Toluene-d8 (Surr)* | | | *101 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *96 %* | | *80-120 %* | | | *"* | | | | |

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| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080869 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Blank (9080869-BLK1)** | | | Prepared: 08/12/19 13:00 Analyzed: 08/12/19 15:02 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | ND | --- | 6.67 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Toluene | ND | --- | 33.3 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Ethylbenzene | ND | --- | 16.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Xylenes, total | ND | --- | 50.0 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Naphthalene | ND | --- | 66.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *106 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *97 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *108 %* | | *80-120 %* | | | *"* | | | | |
| **LCS (9080869-BS1)** | | | Prepared: 08/12/19 13:00 Analyzed: 08/12/19 14:07 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | 992 | --- | 10.0 | ug/kg wet | 50 | 1000 | --- | 99 | 80-120% | --- | --- | |
| Toluene | 917 | --- | 50.0 | ug/kg wet | 50 | 1000 | --- | 92 | 80-120% | --- | --- | |
| Ethylbenzene | 983 | --- | 25.0 | ug/kg wet | 50 | 1000 | --- | 98 | 80-120% | --- | --- | |
| Xylenes, total | 2820 | --- | 75.0 | ug/kg wet | 50 | 3000 | --- | 94 | 80-120% | --- | --- | |
| Naphthalene | 1110 | --- | 100 | ug/kg wet | 50 | 1000 | --- | 111 | 80-120% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *103 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *97 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *105 %* | | *80-120 %* | | | *"* | | | | |
| **Duplicate (9080869-DUP1)** | | | Prepared: 08/06/19 12:20 Analyzed: 08/12/19 16:02 | | | | | | | | | |
| **QC Source Sample: MW-13-10 (A9H0318-03)** | | | | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | ND | --- | 14.9 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Toluene | ND | --- | 74.7 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Ethylbenzene | ND | --- | 37.4 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Xylenes, total | ND | --- | 112 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Naphthalene | ND | --- | 149 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *103 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *99 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *107 %* | | *80-120 %* | | | *"* | | | | |

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**503-718-2323**
**EPA ID: OR01039**

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|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080869 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Matrix Spike (9080869-MS1)** | | | Prepared: 08/08/19 08:05 Analyzed: 08/12/19 19:41 | | | | | | | | | |
| **QC Source Sample: B23-15 (A9H0318-39)** | | | | | | | | | | | | |
| **5035A/8260C** | | | | | | | | | | | | |
| Benzene | 1210 | --- | 12.1 | ug/kg dry | 50 | 1210 | ND | 100 | 77-121% | --- | --- | |
| Toluene | 1070 | --- | 60.6 | ug/kg dry | 50 | 1210 | ND | 88 | 77-121% | --- | --- | |
| Ethylbenzene | 1180 | --- | 30.3 | ug/kg dry | 50 | 1210 | ND | 97 | 76-122% | --- | --- | |
| Xylenes, total | 3360 | --- | 90.9 | ug/kg dry | 50 | 3640 | ND | 92 | 78-124% | --- | --- | |
| Naphthalene | 1330 | --- | 121 | ug/kg dry | 50 | 1210 | ND | 110 | 62-129% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | | *Recovery: 107 %* | | *Limits: 80-120 %* | | | *Dilution: 1x* | | | | |
| *Toluene-d8 (Surr)* | | | *96 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *109 %* | | *80-120 %* | | | *"* | | | | |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080915 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Blank (9080915-BLK1)** | | | Prepared: 08/13/19 12:00 Analyzed: 08/13/19 16:06 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | ND | --- | 6.67 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Toluene | ND | --- | 33.3 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Ethylbenzene | ND | --- | 16.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Xylenes, total | ND | --- | 50.0 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Naphthalene | ND | --- | 66.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 104 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *99 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *107 %* | *80-120 %* | | *"* | | | | | | | |
| **LCS (9080915-BS1)** | | | Prepared: 08/13/19 12:00 Analyzed: 08/13/19 15:12 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | 962 | --- | 10.0 | ug/kg wet | 50 | 1000 | --- | 96 | 80-120% | --- | --- | |
| Toluene | 869 | --- | 50.0 | ug/kg wet | 50 | 1000 | --- | 87 | 80-120% | --- | --- | |
| Ethylbenzene | 955 | --- | 25.0 | ug/kg wet | 50 | 1000 | --- | 95 | 80-120% | --- | --- | |
| Xylenes, total | 2750 | --- | 75.0 | ug/kg wet | 50 | 3000 | --- | 92 | 80-120% | --- | --- | |
| Naphthalene | 1070 | --- | 100 | ug/kg wet | 50 | 1000 | --- | 107 | 80-120% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 105 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *95 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *109 %* | *80-120 %* | | *"* | | | | | | | |
| **Duplicate (9080915-DUP1)** | | | Prepared: 08/12/19 13:15 Analyzed: 08/13/19 17:01 | | | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0380-01)** | | | | | | | | | | | | |
| Benzene | ND | --- | 11.6 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Toluene | ND | --- | 58.2 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Ethylbenzene | ND | --- | 29.1 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Xylenes, total | ND | --- | 87.4 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Naphthalene | ND | --- | 116 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 104 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *98 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *106 %* | *80-120 %* | | *"* | | | | | | | |
| **Matrix Spike (9080915-MS1)** | | | Prepared: 08/13/19 10:20 Analyzed: 08/13/19 18:51 | | | | | | | | | |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080915 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Matrix Spike (9080915-MS1)** | | | Prepared: 08/13/19 10:20 Analyzed: 08/13/19 18:51 | | | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0380-04)** | | | | | | | | | | | | |
| **5035A/8260C** | | | | | | | | | | | | |
| Benzene | 1170 | --- | 12.0 | ug/kg dry | 50 | 1200 | ND | 97 | 77-121% | --- | --- | |
| Toluene | 1070 | --- | 60.0 | ug/kg dry | 50 | 1200 | ND | 89 | 77-121% | --- | --- | |
| Ethylbenzene | 1170 | --- | 30.0 | ug/kg dry | 50 | 1200 | ND | 98 | 76-122% | --- | --- | |
| Xylenes, total | 3380 | --- | 89.9 | ug/kg dry | 50 | 3600 | ND | 94 | 78-124% | --- | --- | |
| Naphthalene | 1380 | --- | 120 | ug/kg dry | 50 | 1200 | ND | 115 | 62-129% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 103 %* | | *Limits: 80-120 %* | | | *Dilution: 1x* | | | | | |
| *Toluene-d8 (Surr)* | | *98 %* | | *80-120 %* | | | *"* | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *105 %* | | *80-120 %* | | | *"* | | | | | |

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## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080960 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Blank (9080960-BLK1)** | | | Prepared: 08/14/19 10:00 Analyzed: 08/14/19 15:38 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | ND | --- | 6.67 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Toluene | ND | --- | 33.3 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Ethylbenzene | ND | --- | 16.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Xylenes, total | ND | --- | 50.0 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Naphthalene | ND | --- | 66.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 106 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *97 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *108 %* | *80-120 %* | | *"* | | | | | | | |
| **LCS (9080960-BS1)** | | | Prepared: 08/14/19 10:00 Analyzed: 08/14/19 14:44 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | 960 | --- | 10.0 | ug/kg wet | 50 | 1000 | --- | 96 | 80-120% | --- | --- | |
| Toluene | 863 | --- | 50.0 | ug/kg wet | 50 | 1000 | --- | 86 | 80-120% | --- | --- | |
| Ethylbenzene | 942 | --- | 25.0 | ug/kg wet | 50 | 1000 | --- | 94 | 80-120% | --- | --- | |
| Xylenes, total | 2720 | --- | 75.0 | ug/kg wet | 50 | 3000 | --- | 91 | 80-120% | --- | --- | |
| Naphthalene | 1080 | --- | 100 | ug/kg wet | 50 | 1000 | --- | 108 | 80-120% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 104 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *95 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *109 %* | *80-120 %* | | *"* | | | | | | | |
| **Duplicate (9080960-DUP1)** | | | Prepared: 08/13/19 13:10 Analyzed: 08/14/19 21:32 | | | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0439-01)** | | | | | | | | | | | | |
| Benzene | ND | --- | 12.6 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Toluene | ND | --- | 63.1 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Ethylbenzene | ND | --- | 31.6 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Xylenes, total | ND | --- | 94.7 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Naphthalene | ND | --- | 126 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 105 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *98 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *108 %* | *80-120 %* | | *"* | | | | | | | |
| **Duplicate (9080960-DUP2)** | | | Prepared: 08/13/19 15:20 Analyzed: 08/15/19 00:14 | | | | | | | | | |

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| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080960 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Duplicate (9080960-DUP2)** | | | Prepared: 08/13/19 15:20 Analyzed: 08/15/19 00:14 | | | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0439-06)** | | | | | | | | | | | | |
| Benzene | ND | --- | 13.2 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Toluene | ND | --- | 66.1 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Ethylbenzene | ND | --- | 33.0 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Xylenes, total | ND | --- | 99.1 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Naphthalene | ND | --- | 132 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *106 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *98 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *106 %* | | *80-120 %* | | | *"* | | | | |
| **Matrix Spike (9080960-MS1)** | | | Prepared: 08/13/19 15:30 Analyzed: 08/15/19 01:08 | | | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0439-07)** | | | | | | | | | | | | |
| **5035A/8260C** | | | | | | | | | | | | |
| Benzene | 1420 | --- | 13.9 | ug/kg dry | 50 | 1390 | ND | 102 | 77-121% | --- | --- | |
| Toluene | 1190 | --- | 69.4 | ug/kg dry | 50 | 1390 | ND | 86 | 77-121% | --- | --- | |
| Ethylbenzene | 1290 | --- | 34.7 | ug/kg dry | 50 | 1390 | ND | 93 | 76-122% | --- | --- | |
| Xylenes, total | 3700 | --- | 104 | ug/kg dry | 50 | 4160 | ND | 89 | 78-124% | --- | --- | |
| Naphthalene | 1610 | --- | 139 | ug/kg dry | 50 | 1390 | ND | 116 | 62-129% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *111 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *93 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *111 %* | | *80-120 %* | | | *"* | | | | |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9081009 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Blank (9081009-BLK1)** | | | Prepared: 08/16/19 10:00 Analyzed: 08/16/19 12:19 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | ND | --- | 6.67 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Toluene | ND | --- | 33.3 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Ethylbenzene | ND | --- | 16.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Xylenes, total | ND | --- | 50.0 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Naphthalene | ND | --- | 66.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *103 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *99 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *101 %* | | *80-120 %* | | | *"* | | | | |
| **LCS (9081009-BS1)** | | | Prepared: 08/16/19 10:00 Analyzed: 08/16/19 11:25 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | 1010 | --- | 10.0 | ug/kg wet | 50 | 1000 | --- | 101 | 80-120% | --- | --- | |
| Toluene | 998 | --- | 50.0 | ug/kg wet | 50 | 1000 | --- | 100 | 80-120% | --- | --- | |
| Ethylbenzene | 1030 | --- | 25.0 | ug/kg wet | 50 | 1000 | --- | 103 | 80-120% | --- | --- | |
| Xylenes, total | 3190 | --- | 75.0 | ug/kg wet | 50 | 3000 | --- | 106 | 80-120% | --- | --- | |
| Naphthalene | 1080 | --- | 100 | ug/kg wet | 50 | 1000 | --- | 108 | 80-120% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *102 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *99 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *100 %* | | *80-120 %* | | | *"* | | | | |
| **Duplicate (9081009-DUP1)** | | | Prepared: 08/16/19 10:44 Analyzed: 08/16/19 13:13 | | | | | | | | | **V-15** |
| QC Source Sample: Non-SDG (A9H0534-01) | | | | | | | | | | | | |
| Benzene | ND | --- | 16.3 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Toluene | ND | --- | 81.3 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Ethylbenzene | ND | --- | 40.7 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Xylenes, total | ND | --- | 122 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Naphthalene | ND | --- | 163 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *104 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *99 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *100 %* | | *80-120 %* | | | *"* | | | | |
| **Matrix Spike (9081009-MS1)** | | | Prepared: 08/16/19 10:44 Analyzed: 08/16/19 14:07 | | | | | | | | | **V-15** |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9081009 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Matrix Spike (9081009-MS1)** | | | Prepared: 08/16/19 10:44 | | Analyzed: 08/16/19 14:07 | | | | | | | **V-15** |
| **QC Source Sample: Non-SDG (A9H0534-02)** | | | | | | | | | | | | |
| **5035A/8260C** | | | | | | | | | | | | |
| Benzene | 1510 | --- | 15.0 | ug/kg dry | 50 | 1500 | ND | 101 | 77-121% | --- | --- | |
| Toluene | 1450 | --- | 74.8 | ug/kg dry | 50 | 1500 | ND | 97 | 77-121% | --- | --- | |
| Ethylbenzene | 1510 | --- | 37.4 | ug/kg dry | 50 | 1500 | ND | 101 | 76-122% | --- | --- | |
| Xylenes, total | 4710 | --- | 112 | ug/kg dry | 50 | 4490 | ND | 105 | 78-124% | --- | --- | |
| Naphthalene | 1640 | --- | 150 | ug/kg dry | 50 | 1500 | ND | 110 | 62-129% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | | *Recovery: 102 %* | | *Limits: 80-120 %* | | | | *Dilution: 1x* | | | |
| *Toluene-d8 (Surr)* | | | *98 %* | | *80-120 %* | | | | *"* | | | |
| *4-Bromofluorobenzene (Surr)* | | | *100 %* | | *80-120 %* | | | | *"* | | | |

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Kevin J. Friscia, Project Manager

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|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9081072 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Blank (9081072-BLK1)** | | | Prepared: 08/19/19 10:00 Analyzed: 08/19/19 14:21 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | ND | --- | 6.67 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Toluene | ND | --- | 33.3 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Ethylbenzene | ND | --- | 16.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Xylenes, total | ND | --- | 50.0 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| Naphthalene | ND | --- | 66.7 | ug/kg wet | 50 | --- | --- | --- | --- | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 105 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *98 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *105 %* | *80-120 %* | | *"* | | | | | | | |
| **LCS (9081072-BS1)** | | | Prepared: 08/19/19 10:00 Analyzed: 08/19/19 13:27 | | | | | | | | | |
| 5035A/8260C | | | | | | | | | | | | |
| Benzene | 992 | --- | 10.0 | ug/kg wet | 50 | 1000 | --- | 99 | 80-120% | --- | --- | |
| Toluene | 909 | --- | 50.0 | ug/kg wet | 50 | 1000 | --- | 91 | 80-120% | --- | --- | |
| Ethylbenzene | 967 | --- | 25.0 | ug/kg wet | 50 | 1000 | --- | 97 | 80-120% | --- | --- | |
| Xylenes, total | 2790 | --- | 75.0 | ug/kg wet | 50 | 3000 | --- | 93 | 80-120% | --- | --- | |
| Naphthalene | 1090 | --- | 100 | ug/kg wet | 50 | 1000 | --- | 109 | 80-120% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 106 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *99 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *108 %* | *80-120 %* | | *"* | | | | | | | |
| **Duplicate (9081072-DUP1)** | | | Prepared: 08/13/19 11:00 Analyzed: 08/19/19 21:09 | | | | | | | | | |
| QC Source Sample: Non-SDG (A9H0408-02) | | | | | | | | | | | | |
| Benzene | ND | --- | 183 | ug/kg dry | 500 | --- | ND | --- | --- | --- | 30% | |
| Toluene | **1220** | --- | 913 | ug/kg dry | 500 | --- | 1330 | --- | --- | 8 | 30% | |
| Ethylbenzene | **3970** | --- | 456 | ug/kg dry | 500 | --- | 4260 | --- | --- | 7 | 30% | |
| Xylenes, total | **14900** | --- | 1370 | ug/kg dry | 500 | --- | 15700 | --- | --- | 5 | 30% | |
| Naphthalene | **5280** | --- | 1830 | ug/kg dry | 500 | --- | 5560 | --- | --- | 5 | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery: 115 %* | *Limits: 80-120 %* | | *Dilution: 1x* | | | | | | | |
| *Toluene-d8 (Surr)* | | *93 %* | *80-120 %* | | *"* | | | | | | | |
| *4-Bromofluorobenzene (Surr)* | | *114 %* | *80-120 %* | | *"* | | | | | | | |
| **Duplicate (9081072-DUP2)** | | | Prepared: 08/15/19 12:52 Analyzed: 08/19/19 22:30 | | | | | | | | | |

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| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### BTEX+N Compounds by EPA 8260C

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9081072 - EPA 5035A** | | | | | | | **Soil** | | | | | |
| **Duplicate (9081072-DUP2)** | | | Prepared: 08/15/19 12:52 Analyzed: 08/19/19 22:30 | | | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0553-01)** | | | | | | | | | | | | |
| Benzene | ND | --- | 27.8 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Toluene | **258** | --- | 139 | ug/kg dry | 50 | --- | 167 | --- | --- | **43** | **30%** | Q-05 |
| Ethylbenzene | ND | --- | 69.6 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Xylenes, total | ND | --- | 209 | ug/kg dry | 50 | --- | ND | --- | --- | --- | 30% | |
| Naphthalene | ND | --- | 278 | ug/kg dry | 50 | --- | 161 | --- | --- | *** | 30% | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *113 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *93 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *115 %* | | *80-120 %* | | | *"* | | | | |
| **Matrix Spike (9081072-MS1)** | | | Prepared: 08/15/19 12:52 Analyzed: 08/19/19 22:57 | | | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0553-01)** | | | | | | | | | | | | |
| **5035A/8260C** | | | | | | | | | | | | |
| Benzene | 2680 | --- | 26.6 | ug/kg dry | 50 | 2660 | ND | 101 | 77-121% | --- | --- | |
| Toluene | 2330 | --- | 133 | ug/kg dry | 50 | 2660 | 167 | 81 | 77-121% | --- | --- | |
| Ethylbenzene | 2400 | --- | 66.5 | ug/kg dry | 50 | 2660 | ND | 90 | 76-122% | --- | --- | |
| Xylenes, total | 6980 | --- | 200 | ug/kg dry | 50 | 7980 | ND | 87 | 78-124% | --- | --- | |
| Naphthalene | 3040 | --- | 266 | ug/kg dry | 50 | 2660 | 161 | 108 | 62-129% | --- | --- | |
| *Surr: 1,4-Difluorobenzene (Surr)* | | *Recovery:* | *113 %* | *Limits:* | *80-120 %* | | *Dilution:* | *1x* | | | | |
| *Toluene-d8 (Surr)* | | | *91 %* | | *80-120 %* | | | *"* | | | | |
| *4-Bromofluorobenzene (Surr)* | | | *112 %* | | *80-120 %* | | | *"* | | | | |

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| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Percent Dry Weight

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080878 - Total Solids (Dry Weight)** | | | | | | | Soil | | | | | |
| **Duplicate (9080878-DUP1)** | | | Prepared: 08/12/19 16:09 | | Analyzed: 08/13/19 07:33 | | | | | | | |
| QC Source Sample: Non-SDG (A9G0573-06) | | | | | | | | | | | | |
| % Solids | **85.0** | --- | 1.00 | % by Weight | 1 | --- | 83.7 | --- | --- | 1 | 10% | |
| **Duplicate (9080878-DUP2)** | | | Prepared: 08/12/19 16:09 | | Analyzed: 08/13/19 07:33 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0258-03) | | | | | | | | | | | | |
| % Solids | **90.5** | --- | 1.00 | % by Weight | 1 | --- | 90.3 | --- | --- | 0.3 | 10% | |
| **Duplicate (9080878-DUP3)** | | | Prepared: 08/12/19 16:09 | | Analyzed: 08/13/19 07:33 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0260-29) | | | | | | | | | | | | |
| % Solids | **83.6** | --- | 1.00 | % by Weight | 1 | --- | 83.9 | --- | --- | 0.4 | 10% | |
| **Duplicate (9080878-DUP4)** | | | Prepared: 08/12/19 16:09 | | Analyzed: 08/13/19 07:33 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0290-07) | | | | | | | | | | | | |
| % Solids | **53.5** | --- | 1.00 | % by Weight | 1 | --- | 53.2 | --- | --- | 0.5 | 10% | |
| **Duplicate (9080878-DUP5)** | | | Prepared: 08/12/19 16:09 | | Analyzed: 08/13/19 07:33 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0319-01) | | | | | | | | | | | | |
| % Solids | **79.6** | --- | 1.00 | % by Weight | 1 | --- | 80.1 | --- | --- | 0.6 | 10% | |
| **Duplicate (9080878-DUP6)** | | | Prepared: 08/12/19 18:38 | | Analyzed: 08/13/19 07:33 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0356-02) | | | | | | | | | | | | |
| % Solids | **68.3** | --- | 1.00 | % by Weight | 1 | --- | 68.0 | --- | --- | 0.5 | 10% | |
| **Duplicate (9080878-DUP7)** | | | Prepared: 08/12/19 18:38 | | Analyzed: 08/13/19 07:33 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0361-02) | | | | | | | | | | | | |
| % Solids | **87.4** | --- | 1.00 | % by Weight | 1 | --- | 90.1 | --- | --- | 3 | 10% | |
| **Duplicate (9080878-DUP8)** | | | Prepared: 08/12/19 18:38 | | Analyzed: 08/13/19 07:33 | | | | | | | |
| QC Source Sample: Non-SDG (A9H0364-02) | | | | | | | | | | | | |
| % Solids | **79.3** | --- | 1.00 | % by Weight | 1 | --- | 79.6 | --- | --- | 0.4 | 10% | |

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Percent Dry Weight

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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## QUALITY CONTROL (QC) SAMPLE RESULTS

### Percent Dry Weight

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080921 - Total Solids (Dry Weight)** | | | | | | | **Soil** | | | | | |
| **Duplicate (9080921-DUP1)** | | | Prepared: 08/13/19 16:54 | | Analyzed: 08/14/19 07:16 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0093-04)** | | | | | | | | | | | | |
| % Solids | **96.0** | --- | 1.00 | % by Weight | 1 | --- | 95.8 | --- | --- | 0.3 | 10% | |
| **Duplicate (9080921-DUP2)** | | | Prepared: 08/13/19 16:54 | | Analyzed: 08/14/19 07:16 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0280-02)** | | | | | | | | | | | | |
| % Solids | **81.6** | --- | 1.00 | % by Weight | 1 | --- | 80.4 | --- | --- | 1 | 10% | |
| **Duplicate (9080921-DUP3)** | | | Prepared: 08/13/19 16:54 | | Analyzed: 08/14/19 07:16 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0288-01)** | | | | | | | | | | | | |
| % Solids | **85.1** | --- | 1.00 | % by Weight | 1 | --- | 84.9 | --- | --- | 0.3 | 10% | |
| **Duplicate (9080921-DUP4)** | | | Prepared: 08/13/19 16:54 | | Analyzed: 08/14/19 07:16 | | | | | | | |
| **QC Source Sample: B22-15 (A9H0318-31)** | | | | | | | | | | | | |
| **EPA 8000C** | | | | | | | | | | | | |
| % Solids | **81.1** | --- | 1.00 | % by Weight | 1 | --- | 82.0 | --- | --- | 1 | 10% | |
| **Duplicate (9080921-DUP5)** | | | Prepared: 08/13/19 16:54 | | Analyzed: 08/14/19 07:16 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0322-07)** | | | | | | | | | | | | |
| % Solids | **79.9** | --- | 1.00 | % by Weight | 1 | --- | 80.3 | --- | --- | 0.5 | 10% | |
| **Duplicate (9080921-DUP6)** | | | Prepared: 08/13/19 16:54 | | Analyzed: 08/14/19 07:16 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0380-03)** | | | | | | | | | | | | |
| % Solids | **89.5** | --- | 1.00 | % by Weight | 1 | --- | 88.9 | --- | --- | 0.7 | 10% | |
| **Duplicate (9080921-DUP7)** | | | Prepared: 08/13/19 17:19 | | Analyzed: 08/14/19 07:16 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0399-01)** | | | | | | | | | | | | |
| % Solids | **94.8** | --- | 1.00 | % by Weight | 1 | --- | 94.0 | --- | --- | 0.8 | 10% | |
| **Duplicate (9080921-DUP8)** | | | Prepared: 08/13/19 19:51 | | Analyzed: 08/14/19 07:16 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0410-01)** | | | | | | | | | | | | |
| % Solids | **92.5** | --- | 1.00 | % by Weight | 1 | --- | 92.6 | --- | --- | 0.09 | 10% | |

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| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Percent Dry Weight

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9080921 - Total Solids (Dry Weight)** | | | | | | | **Soil** | | | | | |

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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## QUALITY CONTROL (QC) SAMPLE RESULTS

### Percent Dry Weight

| Analyte | Result | Detection Limit | Reporting Limit | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 9081148 - Total Solids (Dry Weight)** | | | | | | | **Soil** | | | | | |
| **Duplicate (9081148-DUP1)** | | | Prepared: 08/20/19 09:34 | | Analyzed: 08/21/19 07:44 | | | | | | | |
| **QC Source Sample: MW-13-25 (A9H0318-06)** | | | | | | | | | | | | |
| **EPA 8000C** | | | | | | | | | | | | |
| % Solids | **78.0** | --- | 1.00 | % by Weight | 1 | --- | 78.0 | --- | --- | 0.02 | 10% | |
| **Duplicate (9081148-DUP2)** | | | Prepared: 08/20/19 09:34 | | Analyzed: 08/21/19 07:44 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0552-10)** | | | | | | | | | | | | |
| % Solids | **91.0** | --- | 1.00 | % by Weight | 1 | --- | 88.2 | --- | --- | 3 | 10% | |
| **Duplicate (9081148-DUP4)** | | | Prepared: 08/20/19 19:24 | | Analyzed: 08/21/19 07:44 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0640-02)** | | | | | | | | | | | | |
| % Solids | **78.8** | --- | 1.00 | % by Weight | 1 | --- | 79.1 | --- | --- | 0.4 | 10% | |
| **Duplicate (9081148-DUP5)** | | | Prepared: 08/20/19 19:24 | | Analyzed: 08/21/19 07:44 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0647-01)** | | | | | | | | | | | | |
| % Solids | **97.7** | --- | 1.00 | % by Weight | 1 | --- | 95.4 | --- | --- | 2 | 10% | |
| **Duplicate (9081148-DUP6)** | | | Prepared: 08/20/19 19:24 | | Analyzed: 08/21/19 07:44 | | | | | | | |
| **QC Source Sample: Non-SDG (A9H0652-02)** | | | | | | | | | | | | |
| % Solids | **88.5** | --- | 1.00 | % by Weight | 1 | --- | 88.6 | --- | --- | 0.2 | 10% | |

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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## SAMPLE PREPARATION INFORMATION

### Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

| Lab Number | Matrix | Method | Sampled | Prepared | Sample Initial/Final | Default Initial/Final | RL Prep Factor |
|---|---|---|---|---|---|---|---|
| Batch: 9080890 | | | | | | | |
| A9H0318-47 | Water | NWTPH-Dx | 08/08/19 13:05 | 08/13/19 09:39 | 1070mL/5mL | 1000mL/5mL | 0.94 |

### Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

| Lab Number | Matrix | Method | Sampled | Prepared | Sample Initial/Final | Default Initial/Final | RL Prep Factor |
|---|---|---|---|---|---|---|---|
| Batch: 9080853 | | | | | | | |
| A9H0318-15 | Water | NWTPH-Gx (MS) | 08/07/19 11:00 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-21 | Water | NWTPH-Gx (MS) | 08/07/19 12:45 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-33 | Water | NWTPH-Gx (MS) | 08/07/19 16:00 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-35 | Water | NWTPH-Gx (MS) | 08/07/19 17:00 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-42 | Water | NWTPH-Gx (MS) | 08/08/19 09:15 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-43 | Water | NWTPH-Gx (MS) | 08/08/19 10:00 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-44 | Water | NWTPH-Gx (MS) | 08/08/19 11:05 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-45 | Water | NWTPH-Gx (MS) | 08/08/19 11:50 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-46 | Water | NWTPH-Gx (MS) | 08/08/19 12:30 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-47 | Water | NWTPH-Gx (MS) | 08/08/19 13:05 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |

Prep: EPA 5035A

| Lab Number | Matrix | Method | Sampled | Prepared | Sample Initial/Final | Default Initial/Final | RL Prep Factor |
|---|---|---|---|---|---|---|---|
| Batch: 9080869 | | | | | | | |
| A9H0318-03 | Soil | NWTPH-Gx (MS) | 08/06/19 12:20 | 08/06/19 12:20 | 6.12g/5mL | 5g/5mL | 0.82 |
| A9H0318-18 | Soil | NWTPH-Gx (MS) | 08/07/19 11:35 | 08/07/19 11:35 | 6.75g/5mL | 5g/5mL | 0.74 |
| A9H0318-25 | Soil | NWTPH-Gx (MS) | 08/07/19 14:25 | 08/07/19 14:25 | 5.01g/5mL | 5g/5mL | 1.00 |
| A9H0318-31 | Soil | NWTPH-Gx (MS) | 08/07/19 15:55 | 08/07/19 15:55 | 6.85g/5mL | 5g/5mL | 0.73 |
| A9H0318-39 | Soil | NWTPH-Gx (MS) | 08/08/19 08:05 | 08/08/19 08:05 | 6.56g/5mL | 5g/5mL | 0.76 |
| Batch: 9080960 | | | | | | | |
| A9H0318-04RE2 | Soil | NWTPH-Gx (MS) | 08/06/19 12:25 | 08/06/19 12:25 | 5.93g/5mL | 5g/5mL | 0.84 |
| A9H0318-05RE2 | Soil | NWTPH-Gx (MS) | 08/06/19 12:45 | 08/06/19 12:45 | 6.45g/5mL | 5g/5mL | 0.78 |
| A9H0318-11RE2 | Soil | NWTPH-Gx (MS) | 08/07/19 09:25 | 08/07/19 09:25 | 6.91g/5mL | 5g/5mL | 0.72 |
| Batch: 9081072 | | | | | | | |
| A9H0318-06RE1 | Soil | NWTPH-Gx (MS) | 08/06/19 13:00 | 08/06/19 13:00 | 6.67g/5mL | 5g/5mL | 0.75 |

### BTEX+N Compounds by EPA 8260C

Apex Laboratories

Kevin J. Friscia, Project Manager

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## SAMPLE PREPARATION INFORMATION

### BTEX+N Compounds by EPA 8260C

Prep: EPA 5030B

| Lab Number | Matrix | Method | Sampled | Prepared | Sample Initial/Final | Default Initial/Final | RL Prep Factor |
|---|---|---|---|---|---|---|---|
| Batch: 9080853 | | | | | | | |
| A9H0318-15 | Water | EPA 8260C | 08/07/19 11:00 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-21 | Water | EPA 8260C | 08/07/19 12:45 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-33 | Water | EPA 8260C | 08/07/19 16:00 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-35 | Water | EPA 8260C | 08/07/19 17:00 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-42 | Water | EPA 8260C | 08/08/19 09:15 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-43 | Water | EPA 8260C | 08/08/19 10:00 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-44 | Water | EPA 8260C | 08/08/19 11:05 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-45 | Water | EPA 8260C | 08/08/19 11:50 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-46 | Water | EPA 8260C | 08/08/19 12:30 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |
| A9H0318-47 | Water | EPA 8260C | 08/08/19 13:05 | 08/12/19 09:27 | 5mL/5mL | 5mL/5mL | 1.00 |

Prep: EPA 5035A

| Lab Number | Matrix | Method | Sampled | Prepared | Sample Initial/Final | Default Initial/Final | RL Prep Factor |
|---|---|---|---|---|---|---|---|
| Batch: 9080869 | | | | | | | |
| A9H0318-03 | Soil | 5035A/8260C | 08/06/19 12:20 | 08/06/19 12:20 | 6.12g/5mL | 5g/5mL | 0.82 |
| A9H0318-04 | Soil | 5035A/8260C | 08/06/19 12:25 | 08/06/19 12:25 | 5.93g/5mL | 5g/5mL | 0.84 |
| A9H0318-05 | Soil | 5035A/8260C | 08/06/19 12:45 | 08/06/19 12:45 | 6.45g/5mL | 5g/5mL | 0.78 |
| A9H0318-18 | Soil | 5035A/8260C | 08/07/19 11:35 | 08/07/19 11:35 | 6.75g/5mL | 5g/5mL | 0.74 |
| A9H0318-25 | Soil | 5035A/8260C | 08/07/19 14:25 | 08/07/19 14:25 | 5.01g/5mL | 5g/5mL | 1.00 |
| A9H0318-31 | Soil | 5035A/8260C | 08/07/19 15:55 | 08/07/19 15:55 | 6.85g/5mL | 5g/5mL | 0.73 |
| A9H0318-39 | Soil | 5035A/8260C | 08/08/19 08:05 | 08/08/19 08:05 | 6.56g/5mL | 5g/5mL | 0.76 |
| Batch: 9080960 | | | | | | | |
| A9H0318-11RE2 | Soil | 5035A/8260C | 08/07/19 09:25 | 08/07/19 09:25 | 6.91g/5mL | 5g/5mL | 0.72 |
| Batch: 9081072 | | | | | | | |
| A9H0318-06RE1 | Soil | 5035A/8260C | 08/06/19 13:00 | 08/06/19 13:00 | 6.67g/5mL | 5g/5mL | 0.75 |

### Percent Dry Weight

Prep: Total Solids (Dry Weight)

| Lab Number | Matrix | Method | Sampled | Prepared | Sample Initial/Final | Default Initial/Final | RL Prep Factor |
|---|---|---|---|---|---|---|---|
| Batch: 9080878 | | | | | | | |
| A9H0318-03 | Soil | EPA 8000C | 08/06/19 12:20 | 08/12/19 18:38 | | | NA |
| A9H0318-39 | Soil | EPA 8000C | 08/08/19 08:05 | 08/12/19 18:38 | | | NA |
| Batch: 9080921 | | | | | | | |
| A9H0318-04 | Soil | EPA 8000C | 08/06/19 12:25 | 08/13/19 16:54 | | | NA |

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Kevin J. Friscia, Project Manager

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**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

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|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## SAMPLE PREPARATION INFORMATION

### Percent Dry Weight

Prep: Total Solids (Dry Weight)

| Lab Number | Matrix | Method | Sampled | Prepared | Sample Initial/Final | Default Initial/Final | RL Prep Factor |
|---|---|---|---|---|---|---|---|
| A9H0318-05 | Soil | EPA 8000C | 08/06/19 12:45 | 08/13/19 16:54 | | | NA |
| A9H0318-11 | Soil | EPA 8000C | 08/07/19 09:25 | 08/13/19 16:54 | | | NA |
| A9H0318-18 | Soil | EPA 8000C | 08/07/19 11:35 | 08/13/19 16:54 | | | NA |
| A9H0318-25 | Soil | EPA 8000C | 08/07/19 14:25 | 08/13/19 16:54 | | | NA |
| A9H0318-31 | Soil | EPA 8000C | 08/07/19 15:55 | 08/13/19 16:54 | | | NA |
| Batch: 9081148 | | | | | | | |
| A9H0318-06 | Soil | EPA 8000C | 08/06/19 13:00 | 08/20/19 09:34 | | | NA |

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## QUALIFIER DEFINITIONS

### Client Sample and Quality Control (QC) Sample Qualifier Definitions:

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| | |
|---|---|
| **B-02** | Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.) |
| **F-20** | Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs. |
| **M-02** | Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated. |
| **M-04** | Due to matrix interference, this analyte cannot be accurately quantified. The reported result may contain a high bias. |
| **Q-05** | Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level. |
| **Q-19** | Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis. |
| **S-06** | Surrogate recovery is outside of established control limits. |
| **V-15** | Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling. |

Apex Laboratories

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## REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

Kevin J. Friscia, Project Manager

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| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

**Apex Laboratories, LLC**

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**EPA ID: OR01039**

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|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## LABORATORY ACCREDITATION INFORMATION

### TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

| Matrix | Analysis | TNI_ID | Analyte | TNI_ID | Accreditation |
|---|---|---|---|---|---|

All reported analytes are included in Apex Laboratories' current ORELAP scope.

### Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

### Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

### Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Kevin J. Friscia, Project Manager

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**EPA ID: OR01039**

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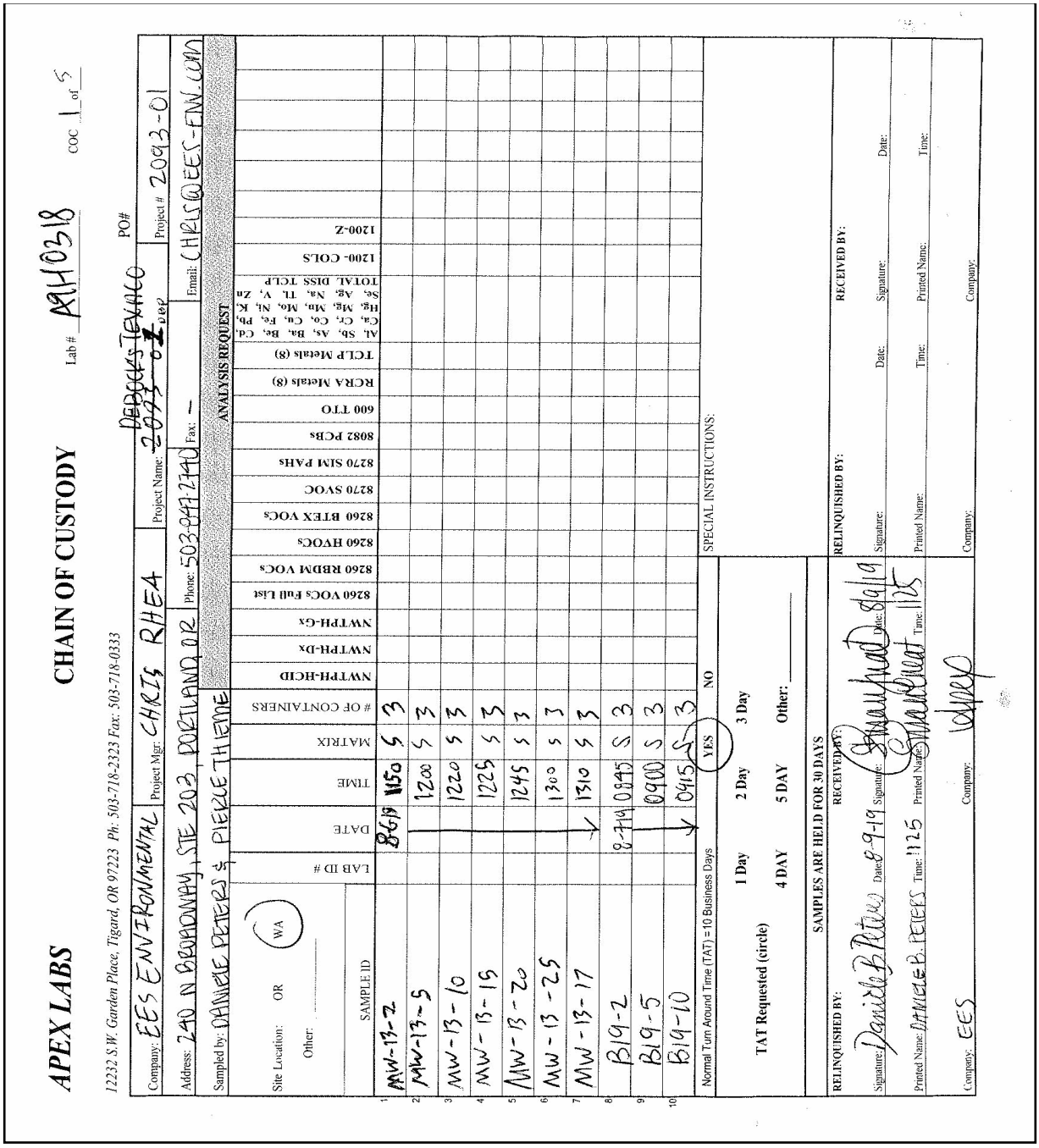
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



APEX LABS

CHAIN OF CUSTODY

Lab # A9H0318

COC 1 of 5

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES ENVIRONMENTAL | Project Mgr: CHRIS RHEA | Project Name: DEBOCKS TEXACO | PO# | Project # 2093-01

Address: 240 N BROADWAY, STE 203, PORTLAND, OR | Phone: 503-841-2740 | Fax: - | Email: CHRIS@EES-ENV.COM

Sampled by: DANIELE PETERS & PIERRE THIEME

Site Location: OR WA

Other: _____

ANALYSIS REQUEST

| # | SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | 8260 VOCs Full List | 8260 RBDM VOCs | 8260 HVOCs | 8260 BTEX VOCs | 8270 SVOC | 8270 SIM PAHs | 8082 PCBs | 600 TTO | RCRA Metals (8) | TCLP Metals (8) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP | 1200- COLS | 1200-Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-13-2 | | 8/19 | 1150 | S | 3 | | | | | | | | | | | | | | | | |
| 2 | MW-13-5 | | | 1200 | S | 3 | | | | | | | | | | | | | | | | |
| 3 | MW-13-10 | | | 1220 | S | 3 | | | | | | | | | | | | | | | | |
| 4 | MW-13-15 | | | 1225 | S | 3 | | | | | | | | | | | | | | | | |
| 5 | MW-13-20 | | | 1245 | S | 3 | | | | | | | | | | | | | | | | |
| 6 | MW-13-25 | | | 1300 | S | 3 | | | | | | | | | | | | | | | | |
| 7 | MW-13-17 | | | 1310 | S | 3 | | | | | | | | | | | | | | | | |
| 8 | B19-2 | | 8-719 | 0845 | S | 3 | | | | | | | | | | | | | | | | |
| 9 | B19-5 | | | 0900 | S | 3 | | | | | | | | | | | | | | | | |
| 10 | B19-10 | | ↓ | 0915 | S | 3 | | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days — YES / NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Daniele B. Peters Date: 8-9-19 Printed Name: DANIELE B. PETERS Time: 1125 Company: EES

RECEIVED BY: Signature: Date: 8/9/19 Printed Name: Time: 1125 Company:

RELINQUISHED BY: Signature: Date: Printed Name: Time: Company:

RECEIVED BY: Signature: Date: Printed Name: Time: Company:

Apex Laboratories

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Kevin J. Friscia, Project Manager

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**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

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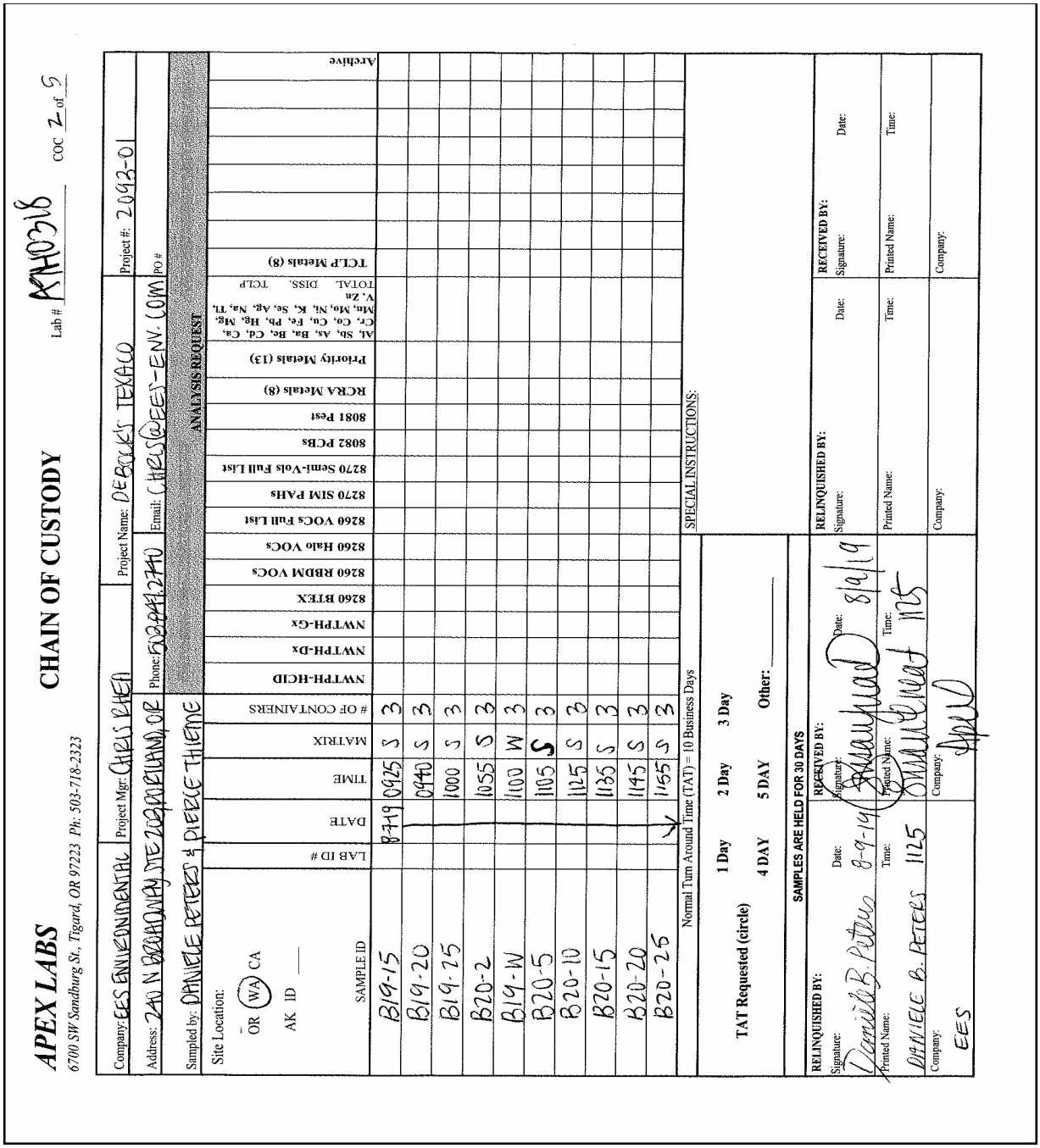
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



**APEX LABS** — 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

**CHAIN OF CUSTODY** — Lab # A9H0318 — COC 2 of 2

Company: EES ENVIRONMENTAL | Project Mgr: CHRIS RHEA | Project Name: DEBOCKS TEXACO | Project #: 2093-01
Address: 240 N BROADWAY STE 203 PORTLAND OR | Phone: 503.841.2741 | Email: CHRIS@EES-ENV.COM | PO #
Sampled by: DANIELE PETERS & PIERCE THIEME

Site Location: OR (WA) CA — AK ID ____

| SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | 8260 BTEX | 8260 RBDM VOCs | 8260 Halo VOCs | 8260 VOCs Full List | 8270 SIM PAHs | 8270 Semi-Vols Full List | 8082 PCBs | 8081 Pest | RCRA Metals (8) | Priority Metals (13) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn | TOTAL DISS. TCLP | TCLP Metals (8) | Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B19-15 | | 8/19 | 0925 | S | 3 | | | | | | | | | | | | | | | | |
| B19-20 | | | 0940 | S | 3 | | | | | | | | | | | | | | | | |
| B19-25 | | | 1000 | S | 3 | | | | | | | | | | | | | | | | |
| B20-2 | | | 1055 | S | 3 | | | | | | | | | | | | | | | | |
| B19-W | | | 1100 | W | 3 | | | | | | | | | | | | | | | | |
| B20-5 | | | 1105 | S | 3 | | | | | | | | | | | | | | | | |
| B20-10 | | | 1125 | S | 3 | | | | | | | | | | | | | | | | |
| B20-15 | | | 1135 | S | 3 | | | | | | | | | | | | | | | | |
| B20-20 | | | 1145 | S | 3 | | | | | | | | | | | | | | | | |
| B20-25 | | ↓ | 1155 | S | 3 | | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ____

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

| RELINQUISHED BY: | RECEIVED BY: | RELINQUISHED BY: | RECEIVED BY: |
|---|---|---|---|
| Signature: | Signature: | Signature: | Signature: |
| Date: | Date: 8-9-19 | Date: 8/19/19 | Date: |
| Time: | Time: | Time: | Time: |
| Printed Name: | Printed Name: | Printed Name: | Printed Name: |
| Company: EES | Company: APEX | Company: | Company: |

Apex Laboratories

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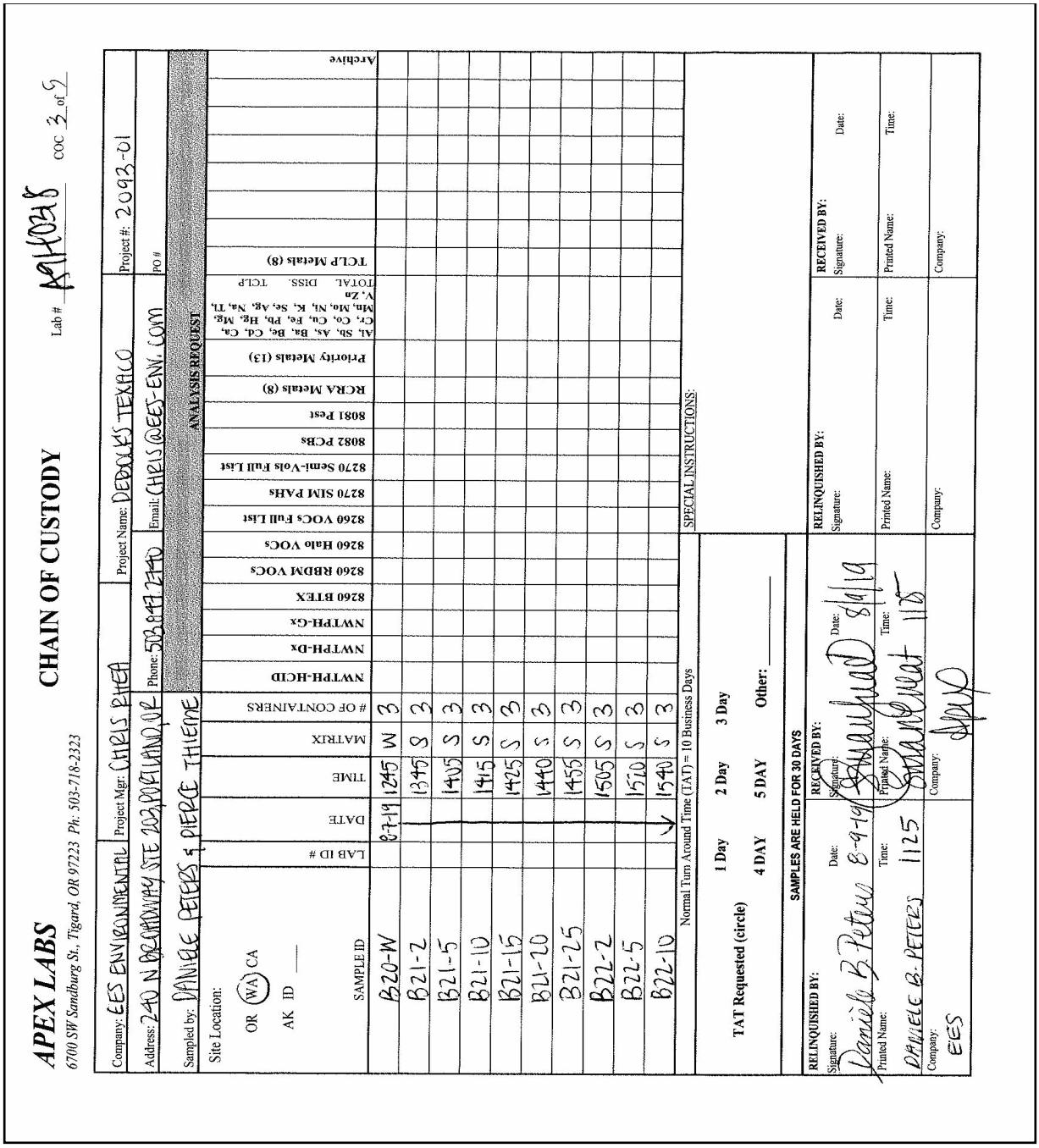
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



**APEX LABS**
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

**CHAIN OF CUSTODY**

Lab # A9H0318 COC 2 of 5

Company: EES ENVIRONMENTAL | Project Mgr: CHRIS RHEA | Project Name: DEBOCKS TEXACO | Project #: 2093-01
Address: 240 N BROADWAY STE 203, PORTLAND, OR | Phone: 503 847 2740 | Email: CHRIS@EES-ENV.COM | PO #
Sampled by: DANIELE PETERS & PIERCE THIEME

Site Location: OR (WA) CA AK ID ____

ANALYSIS REQUEST

| SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | 8260 BTEX | 8260 RBDM VOCs | 8260 Halo VOCs | 8260 VOCs Full List | 8270 SIM PAHs | 8270 Semi-Vols Full List | 8082 PCBs | 8081 Pest | RCRA Metals (8) | Priority Metals (13) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP | TCLP Metals (8) | Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B20-W | | 8-7-19 | 1245 | W | 3 | | | | | | | | | | | | | | | |
| B21-2 | | | 1345 | S | 3 | | | | | | | | | | | | | | | |
| B21-5 | | | 1405 | S | 3 | | | | | | | | | | | | | | | |
| B21-10 | | | 1415 | S | 3 | | | | | | | | | | | | | | | |
| B21-15 | | | 1425 | S | 3 | | | | | | | | | | | | | | | |
| B21-20 | | | 1440 | S | 3 | | | | | | | | | | | | | | | |
| B21-25 | | | 1455 | S | 3 | | | | | | | | | | | | | | | |
| B22-2 | | | 1505 | S | 3 | | | | | | | | | | | | | | | |
| B22-5 | | | 1520 | S | 3 | | | | | | | | | | | | | | | |
| B22-10 | | ↓ | 1540 | S | 3 | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle)
1 Day 2 Day 3 Day
4 DAY 5 DAY Other: ____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Daniele B Peters Date: 8-9-19 Time: 1125 Printed Name: DANIELE B. PETERS Company: EES

RECEIVED BY: Signature: [illegible] Date: 8/9/19 Time: 1125 Printed Name: [illegible] Company: APEX

RELINQUISHED BY: Signature: Date: Time: Printed Name: Company:

RECEIVED BY: Signature: Date: Time: Printed Name: Company:

Apex Laboratories

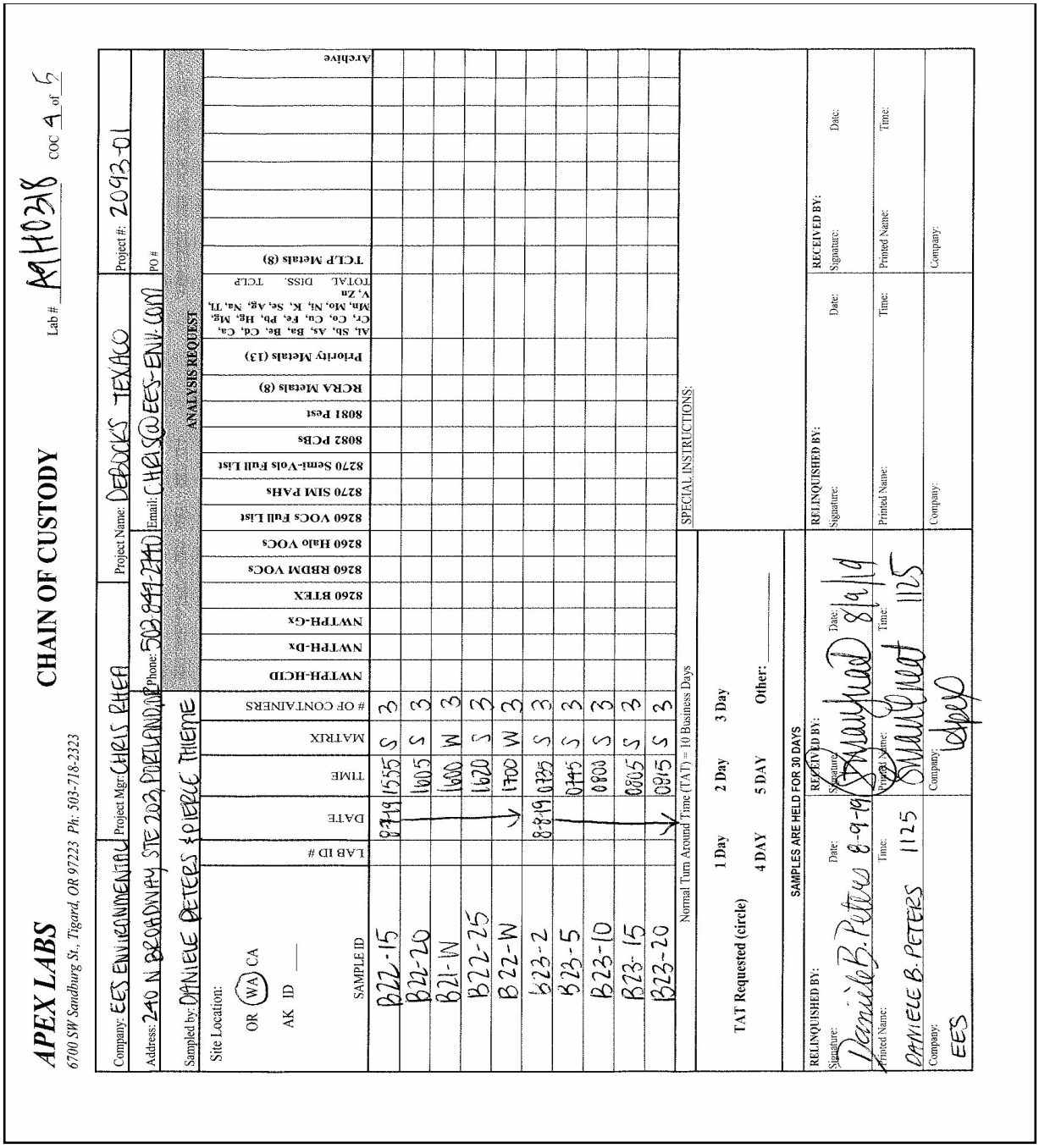
*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Kevin J. Friscia, Project Manager

**Apex Laboratories, LLC**

**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A9H0318 COC 4 of 5

Company: EES ENVIRONMENTAL Project Mgr: CHRIS RHEA Project Name: DEBOCKS TEXACO Project #: 2093-01
Address: 240 N BROADWAY STE 203, PORTLAND, OR Phone: 503 841-2741 Email: CHRIS@EES-ENV.COM PO #
Sampled by: DANIELE PETERS & PIERCE THIEME

Site Location: OR (WA) CA AK ID ____

| SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | 8260 BTEX | 8260 RBDM VOCs | 8260 Halo VOCs | 8260 VOCs Full List | 8270 SIM PAHs | 8270 Semi-Vols Full List | 8082 PCBs | 8081 Pest | RCRA Metals (8) | Priority Metals (13) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP | TCLP Metals (8) | Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B22-15 | | 8/19 | 1555 | S | 3 | | | | | | | | | | | | | | | | |
| B22-20 | | | 1605 | S | 3 | | | | | | | | | | | | | | | | |
| B21-IN | | | 1600 | W | 3 | | | | | | | | | | | | | | | | |
| B22-25 | | | 1620 | S | 2 | | | | | | | | | | | | | | | | |
| B22-W | | | 1700 | W | 2 | | | | | | | | | | | | | | | | |
| B23-2 | | 8-8-19 | 0725 | S | 3 | | | | | | | | | | | | | | | | |
| B23-5 | | | 0745 | S | 3 | | | | | | | | | | | | | | | | |
| B23-10 | | | 0800 | S | 3 | | | | | | | | | | | | | | | | |
| B23-15 | | | 0805 | S | 3 | | | | | | | | | | | | | | | | |
| B23-20 | | | 0815 | S | 3 | | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Daniele B. Peters Date: 8-9-19 Time: 1125 Printed Name: DANIELE B. PETERS Company: EES

RECEIVED BY: Signature: Date: Time: Printed Name: Company:

RELINQUISHED BY: Signature: Date: Time: Printed Name: Company:

RECEIVED BY: Signature: Date: 8/9/19 Time: 1125 Printed Name: Company:



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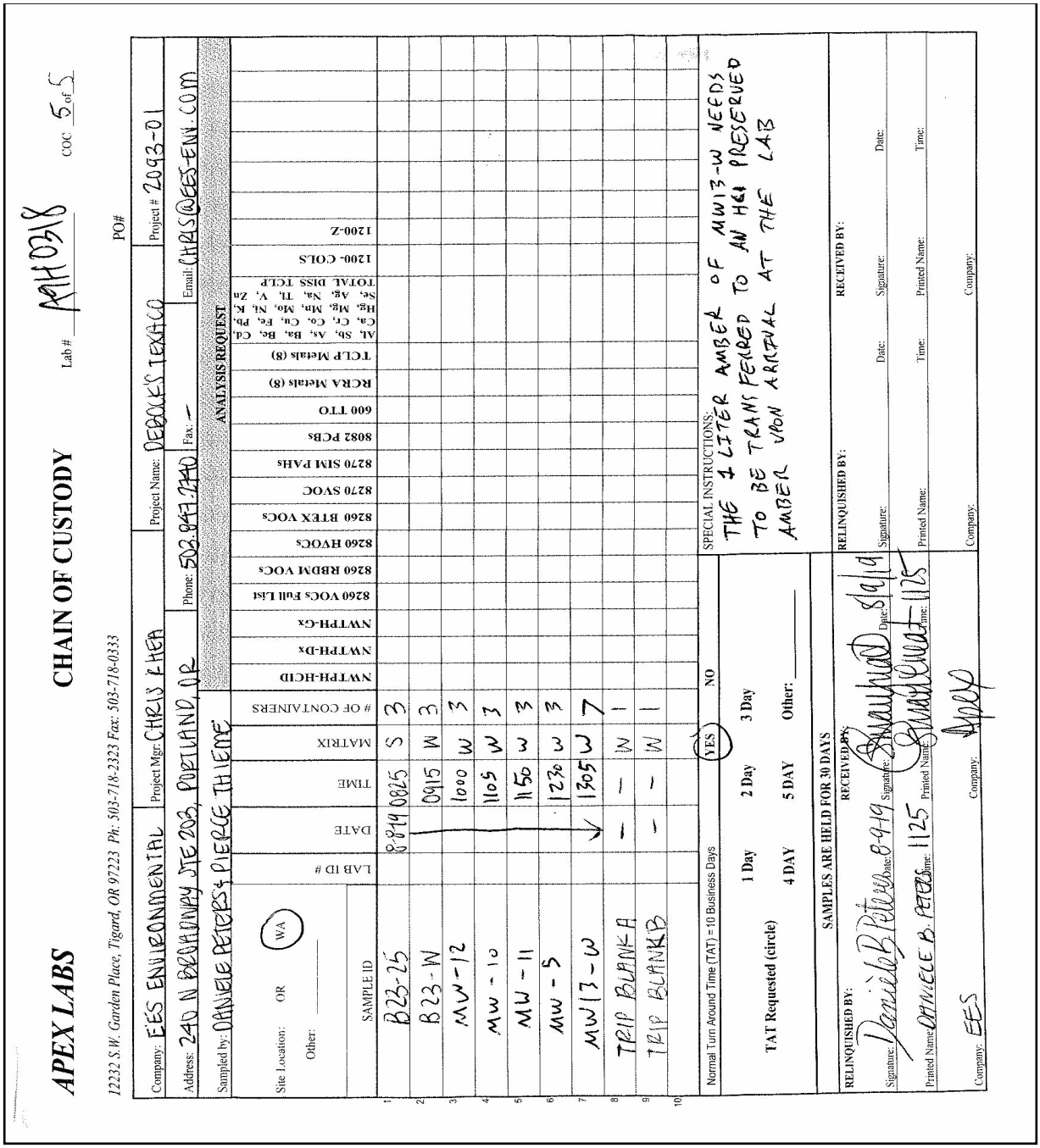
Kevin J. Friscia, Project Manager

**Apex Laboratories, LLC**

**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



APEX LABS

CHAIN OF CUSTODY

Lab # A9H0318 COC 5 of 5

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

PO#

Company: EES ENVIRONMENTAL | Project Mgr: CHRIS RHEA | Project Name: DEBOCKS TEXACO | Project # 2093-01

Address: 240 N BROADWAY STE 203, PORTLAND, OR | Phone: 503.943.7220 | Fax: — | Email: CHRIS@EES-ENV.COM

Sampled by: DANIELE PETERS & PIERCE THIEME

Site Location: OR (WA) Other: ____

ANALYSIS REQUEST

| # | SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | 8260 VOCs Full List | 8260 RBDM VOCs | 8260 HVOCs | 8260 BTEX VOCs | 8270 SVOC | 8270 SIM PAHs | 8082 PCBs | 600 TTO | RCRA Metals (8) | TCLP Metals (8) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP | 1200- COLS | 1200-Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | B23-25 | | 8/19 | 0825 | S | 3 | | | | | | | | | | | | | | | | |
| 2 | B23-W | | | 0915 | W | 3 | | | | | | | | | | | | | | | | |
| 3 | MW-12 | | | 1000 | W | 3 | | | | | | | | | | | | | | | | |
| 4 | MW-10 | | | 1105 | W | 3 | | | | | | | | | | | | | | | | |
| 5 | MW-11 | | | 1150 | W | 3 | | | | | | | | | | | | | | | | |
| 6 | MW-5 | | | 1230 | W | 3 | | | | | | | | | | | | | | | | |
| 7 | MW13-W | | ↓ | 1305 | W | 7 | | | | | | | | | | | | | | | | |
| 8 | TRIP BLANK A | | — | — | W | 1 | | | | | | | | | | | | | | | | |
| 9 | TRIP BLANK B | | — | — | W | 1 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days (YES) NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ____

SPECIAL INSTRUCTIONS:
THE 1 LITER AMBER OF MW13-W NEEDS TO BE TRANSFERED TO AN HCl PRESERVED AMBER VOA ARRIVAL AT THE LAB

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Daniele B Peters Date: 8-9-19 Printed Name: DANIELE B. PETERS Time: 1125 Company: EES

RECEIVED BY: Signature: Date: Printed Name: Time: Company:

RELINQUISHED BY: Signature: Date: Printed Name: Time: Company:

RECEIVED BY: Signature: Date: Printed Name: Time: Company:

Apex Laboratories

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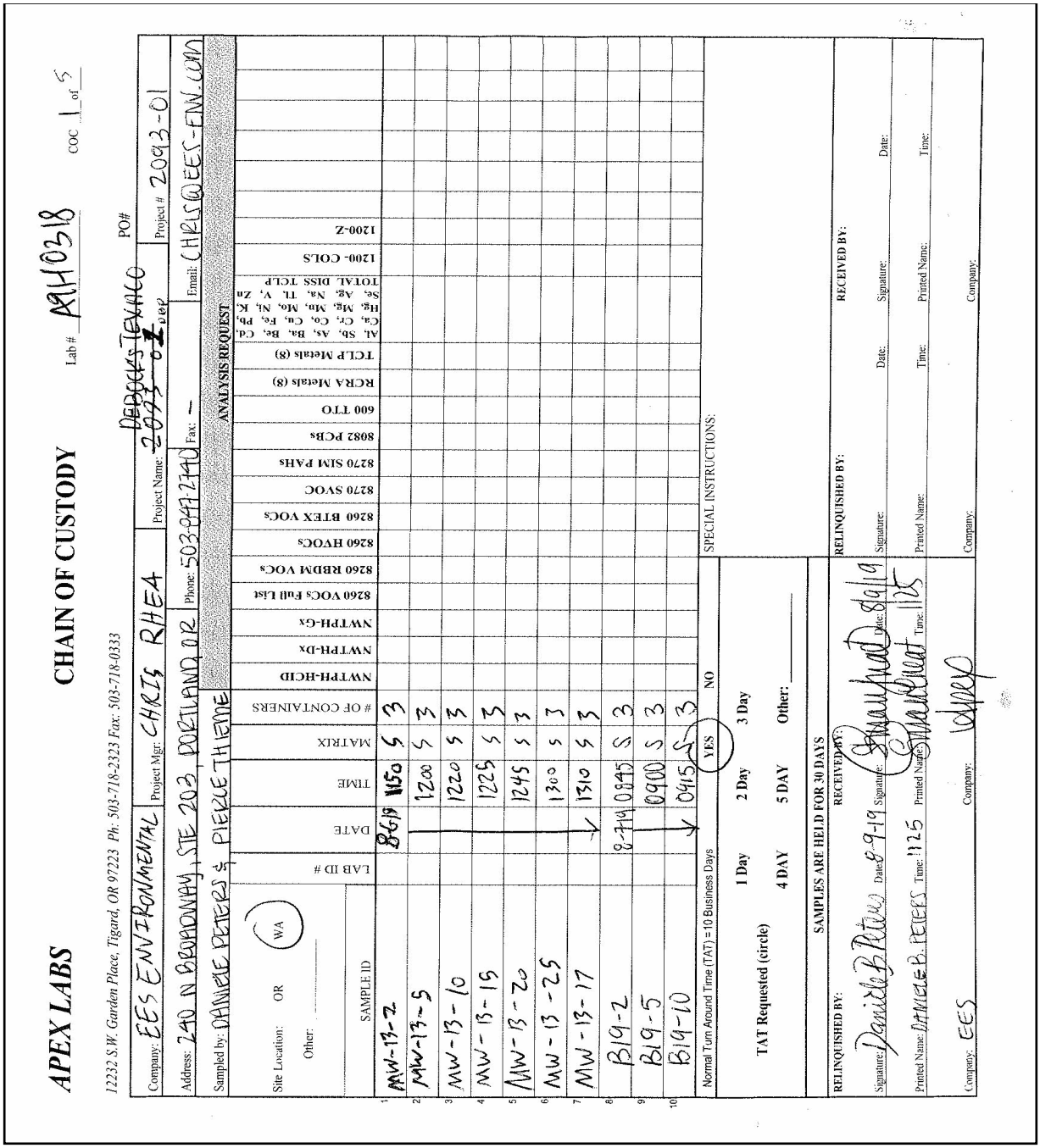
Kevin J. Friscia, Project Manager

**Apex Laboratories, LLC**

**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



APEX LABS

CHAIN OF CUSTODY

Lab # A9H0318

COC 1 of 5

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES ENVIRONMENTAL | Project Mgr: CHRIS RHEA | Project Name: 2093-01 DEBOCKS TEXACO | Project # 2093-01

Address: 240 N BROADWAY, STE 203, PORTLAND OR | Phone: 503-841-2740 | Fax: - | Email: CHRLS@EES-ENV.COM

Sampled by: DANIELE PETERS & PIERRE THIENE | PO#

Site Location: OR WA

Other:

ANALYSIS REQUEST

| | SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | 8260 VOCs Full List | 8260 RBDM VOCs | 8260 HVOCs | 8260 BTEX VOCs | 8270 SVOC | 8270 SIM PAHs | 8082 PCBs | 600 TTO | RCRA Metals (8) | TCLP Metals (8) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP | 1200- COLS | 1200-Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-13-2 | | 8/9/19 | 1150 | S | 3 | | | | | | | | | | | | | | | | |
| 2 | MW-13-5 | | | 1200 | S | 3 | | | | | | | | | | | | | | | | |
| 3 | MW-13-10 | | | 1220 | S | 3 | | | | | | | | | | | | | | | | |
| 4 | MW-13-15 | | | 1225 | S | 3 | | | | | | | | | | | | | | | | |
| 5 | MW-13-20 | | | 1245 | S | 3 | | | | | | | | | | | | | | | | |
| 6 | MW-13-25 | | | 1300 | S | 3 | | | | | | | | | | | | | | | | |
| 7 | MW-13-17 | | | 1310 | S | 3 | | | | | | | | | | | | | | | | |
| 8 | B19-2 | | 8-19 | 0845 | S | 3 | | | | | | | | | | | | | | | | |
| 9 | B19-5 | | | 0900 | S | 3 | | | | | | | | | | | | | | | | |
| 10 | B19-10 | | ↓ | 0945 | S | 3 | | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) =10 Business Days | YES (circled) NO

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day | 2 Day | 3 Day | 4 DAY | 5 DAY | Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Daniele Peters Date: 8-9-19 Printed Name: DANIELE PETERS Time: 1125 Company: EES

RECEIVED BY: Signature: Date: Printed Name: Time: Company:

RELINQUISHED BY: Signature: Date: Printed Name: Time: Company:

RECEIVED BY: Signature: Date: 8/9/19 Printed Name: Time: 1125 Company:

Apex Laboratories

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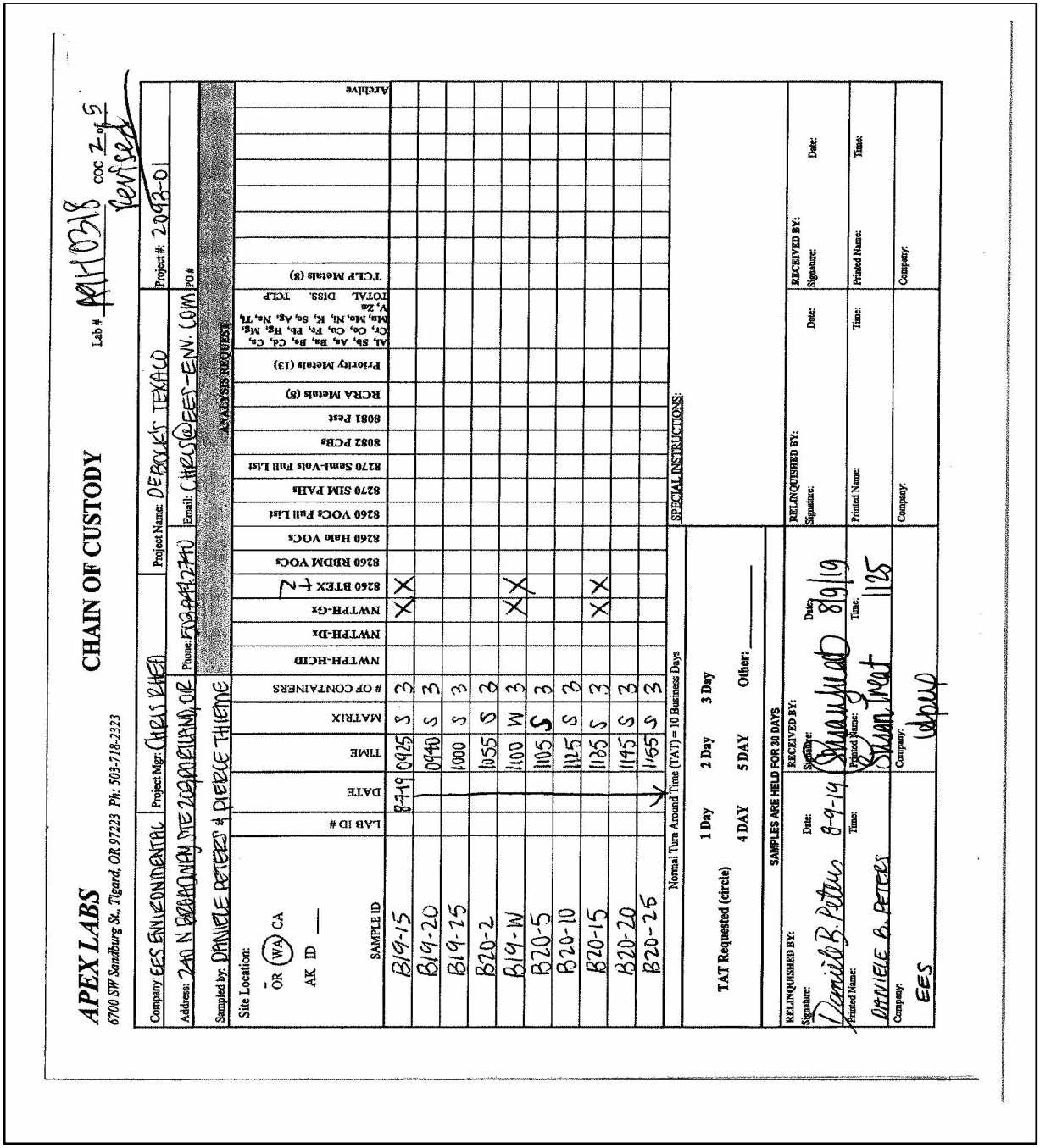
Kevin J. Friscia, Project Manager

**Apex Laboratories, LLC**
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A9H0318 COC 2 of 2 Revised

Company: EES ENVIRONMENTAL | Project Mgr: CHRIS RHEA | Project Name: DEBOCKS TEXACO | Project #: 2093-01
Address: 240 N BROADWAY STE 203 PORTLAND, OR | Phone: 503.841.2740 | Email: CHRIS@EES-ENV.COM | PO #
Sampled by: DANIELE PETERS & PIERRE THIEME

Site Location: OR (WA) CA AK ID —

ANALYSIS REQUEST

| SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | 8260 BTEX + 2 | 8260 RBDM VOCs | 8260 Halo VOCs | 8260 VOCs Full List | 8270 SIM PAHs | 8270 Semi-Vols Full List | 8082 PCBs | 8081 Pest | RCRA Metals (8) | Priority Metals (13) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP | TCLP Metals (8) | Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B19-15 | | 8-19 | 0925 | S | 3 | | | X | X | | | | | | | | | | | |
| B19-20 | | | 0940 | S | 3 | | | | | | | | | | | | | | | |
| B19-25 | | | 1000 | S | 3 | | | | | | | | | | | | | | | |
| B20-2 | | | 1055 | S | 3 | | | | | | | | | | | | | | | |
| B19-W | | | 1100 | W | 3 | | | X | X | | | | | | | | | | | |
| B20-5 | | | 1105 | S | 3 | | | | | | | | | | | | | | | |
| B20-10 | | | 1125 | S | 3 | | | | | | | | | | | | | | | |
| B20-15 | | | 1135 | S | 3 | | | X | X | | | | | | | | | | | |
| B20-20 | | | 1145 | S | 3 | | | | | | | | | | | | | | | |
| B20-25 | | | 1155 | S | 3 | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ____

SAMPLES ARE HELD FOR 30 DAYS

| RELINQUISHED BY: | RECEIVED BY: | | RELINQUISHED BY: | | RECEIVED BY: | |
|---|---|---|---|---|---|---|
| Signature: Daniele B. Peters | Signature: Susan Treat | Date: 8-19-19 | Signature: | Date: | Signature: | Date: |
| Printed Name: DANIELE B. PETERS | Printed Name: Susan Treat | Time: 1125 | Printed Name: | Time: | Printed Name: | Time: |
| Company: EES | Company: apex | | Company: | | Company: | |

Apex Laboratories

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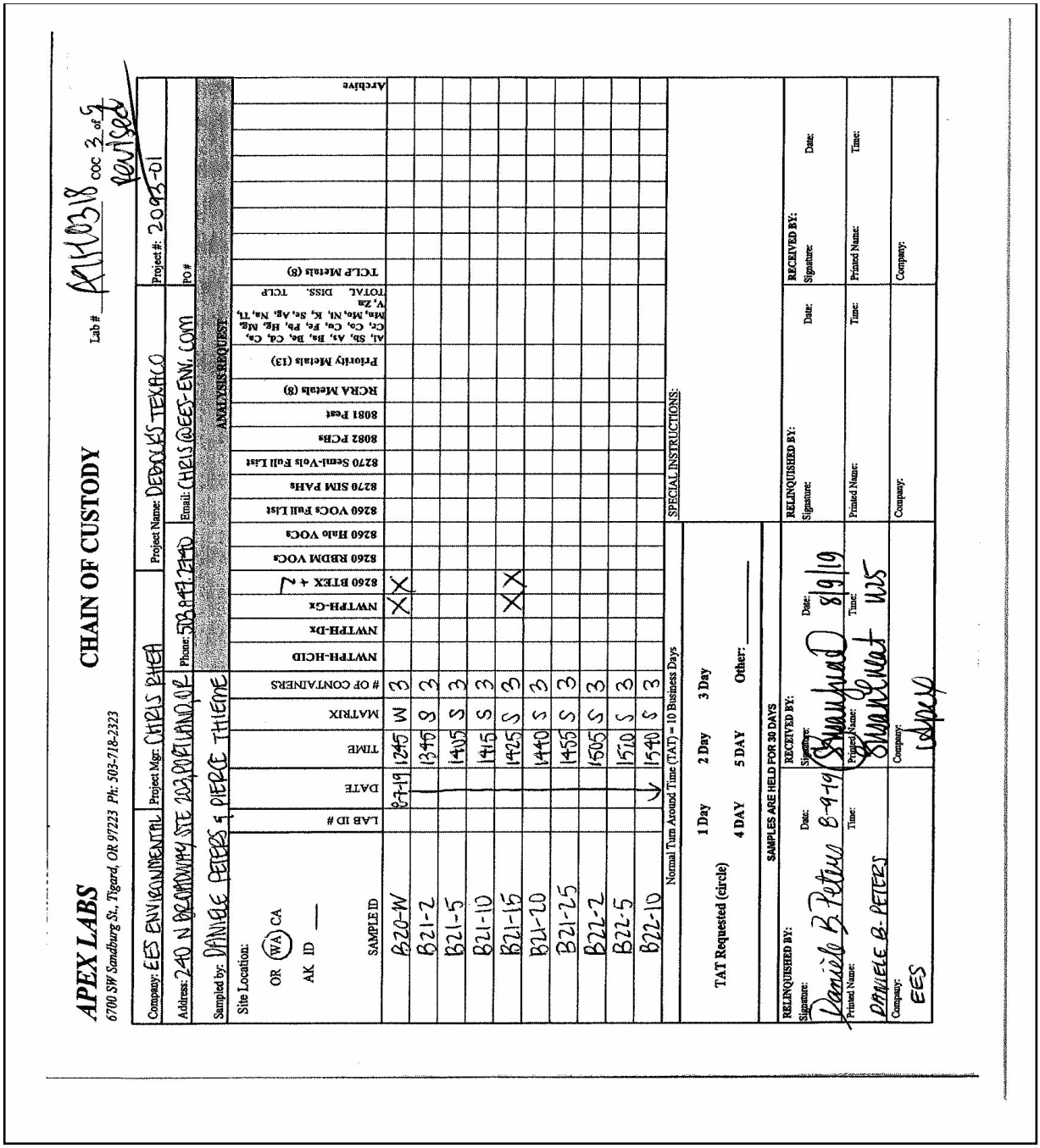
Kevin J. Friscia, Project Manager

**Apex Laboratories, LLC**

**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



**APEX LABS** — **CHAIN OF CUSTODY** — Lab # A9H0318 COC 3 of 3 revised

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: EES ENVIRONMENTAL | Project Mgr: CHRIS RHEA | Phone: 503.841.2340 | Project Name: DEBOCKS TEXACO | Project #: 2093-01

Address: 240 N BROADWAY STE 203, PORTLAND, OR | Email: CHRIS@EES-ENV.COM | PO #

Sampled by: DANIELE PETERS & PIERCE THIEME

Site Location: OR (WA) CA AK ID —

ANALYSIS REQUEST

| SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTFH-HCID | NWTFH-Dx | NWTFH-Gx | 8260 BTEX + 7 | 8260 RBDM VOCs | 8260 Halo VOCs | 8260 Full List | 8270 SIM PAHs | 8270 Semi-Vols Full List | 8082 PCBs | 8081 Pest | RCRA Metals (8) | Priority Metals (13) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP | TCLP Metals (8) | Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B20-W | | 8-7-19 | 1245 | W | 3 | | | XX | | | | | | | | | | | | |
| B21-2 | | | 1340 | S | 3 | | | | | | | | | | | | | | | |
| B21-5 | | | 1405 | S | 3 | | | | | | | | | | | | | | | |
| B21-10 | | | 1415 | S | 3 | | | | | | | | | | | | | | | |
| B21-15 | | | 1425 | S | 3 | | | XX | | | | | | | | | | | | |
| B21-20 | | | 1440 | S | 3 | | | | | | | | | | | | | | | |
| B21-25 | | | 1455 | S | 3 | | | | | | | | | | | | | | | |
| B22-2 | | | 1505 | S | 3 | | | | | | | | | | | | | | | |
| B22-5 | | | 1510 | S | 3 | | | | | | | | | | | | | | | |
| B22-10 | | ↓ | 1540 | S | 3 | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Daniele B Peters Date: 8-9-19 Time: Printed Name: DANIELE B. PETERS Company: EES

RECEIVED BY: Signature: Date: Time: Printed Name: Company:

RELINQUISHED BY: Signature: Date: 8/9/19 Time: Printed Name: Company:

RECEIVED BY: Signature: Date: Time: Printed Name: Company:



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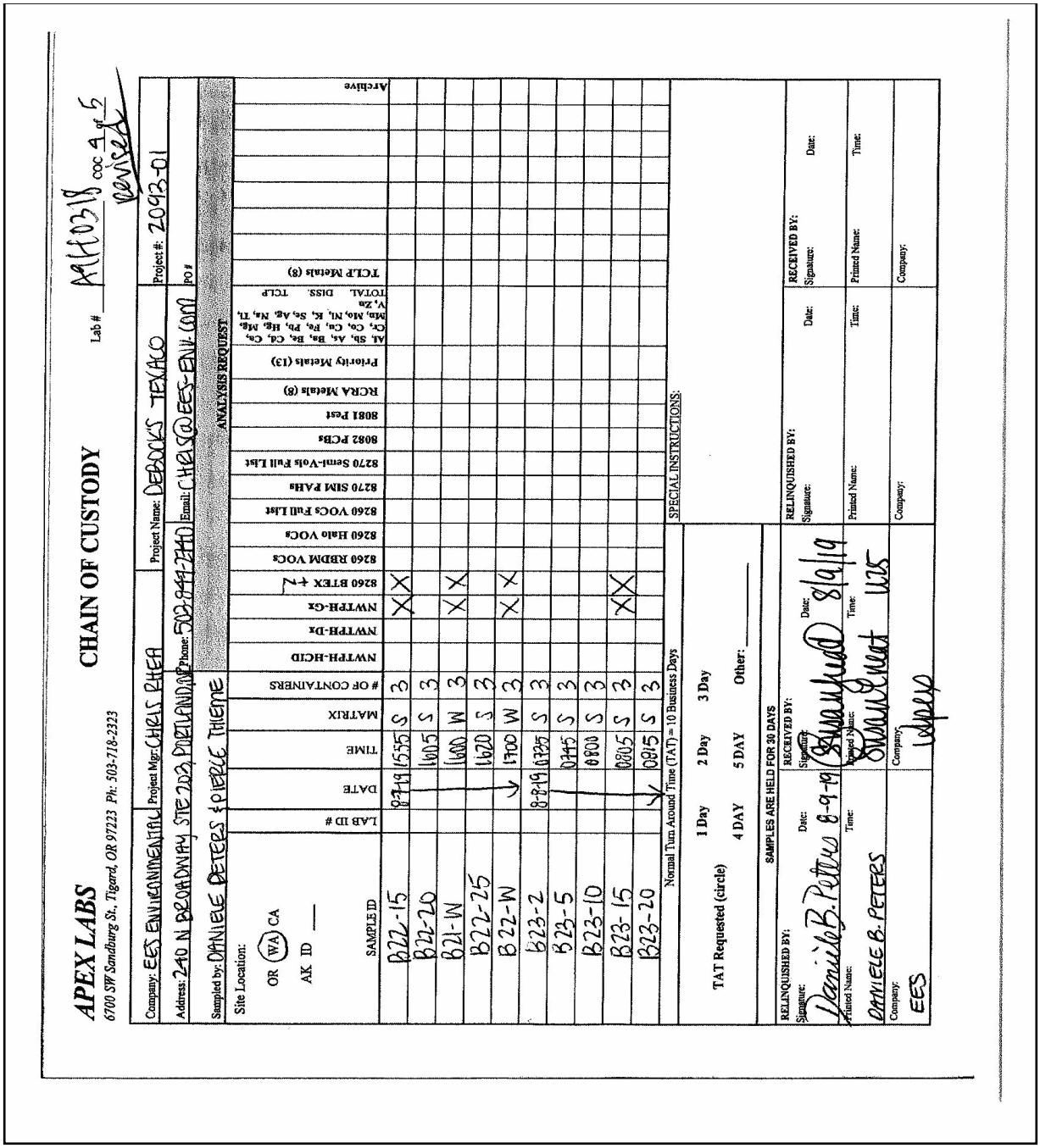
Kevin J. Friscia, Project Manager

**Apex Laboratories, LLC**

**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A9H0318 COC 4 of 5 revised

Company: EES ENVIRONMENTAL Project Mgr: CHRIS RHEA
Address: 240 N BROADWAY STE 203, PORTLAND, OR Phone: 503-841-2740 Email: CHRIS@EES-ENV.COM
Sampled by: DANIELE PETERS & PIERCE THIEME
Site Location: OR (WA) CA AK ID ___

Project Name: DEBOCKS TEXACO Project #: 2093-01 PO #

ANALYSIS REQUEST

| SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTFH-HCID | NWTFH-Dx | NWTFH-Gx | 8260 BTEX + 7 | 8260 RBDM VOCs | 8260 Halo VOCs | 8260 VOCs Full List | 8270 SIM PAHs | 8270 Semi-Vols Full List | 8082 PCBs | 8081 Pest | RCRA Metals (8) | Priority Metals (13) | Al, Sb, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP | TCLP Metals (8) | Archive |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B22-15 | | 8/19 | 1555 | S | 3 | | | X | X | | | | | | | | | | | |
| B22-20 | | | 1605 | S | 3 | | | | | | | | | | | | | | | |
| B21-W | | | 1600 | W | 3 | | | X | X | | | | | | | | | | | |
| B22-25 | | | 1620 | S | 3 | | | | | | | | | | | | | | | |
| B22-W | | ↓ | 1700 | W | 3 | | | X | X | | | | | | | | | | | |
| B23-2 | | 8-8-19 | 0735 | S | 3 | | | | | | | | | | | | | | | |
| B23-5 | | | 0745 | S | 3 | | | | | | | | | | | | | | | |
| B23-10 | | | 0800 | S | 3 | | | | | | | | | | | | | | | |
| B23-15 | | | 0805 | S | 3 | | | X | X | | | | | | | | | | | |
| B23-20 | | ↓ | 0815 | S | 3 | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle)
1 Day 2 Day 3 Day
4 DAY 5 DAY Other: ___

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Daniele B. Peters Date: 8-9-19 Time: Printed Name: DANIELE B. PETERS Company: EES

RECEIVED BY: Signature: Date: Time: Printed Name: Company:

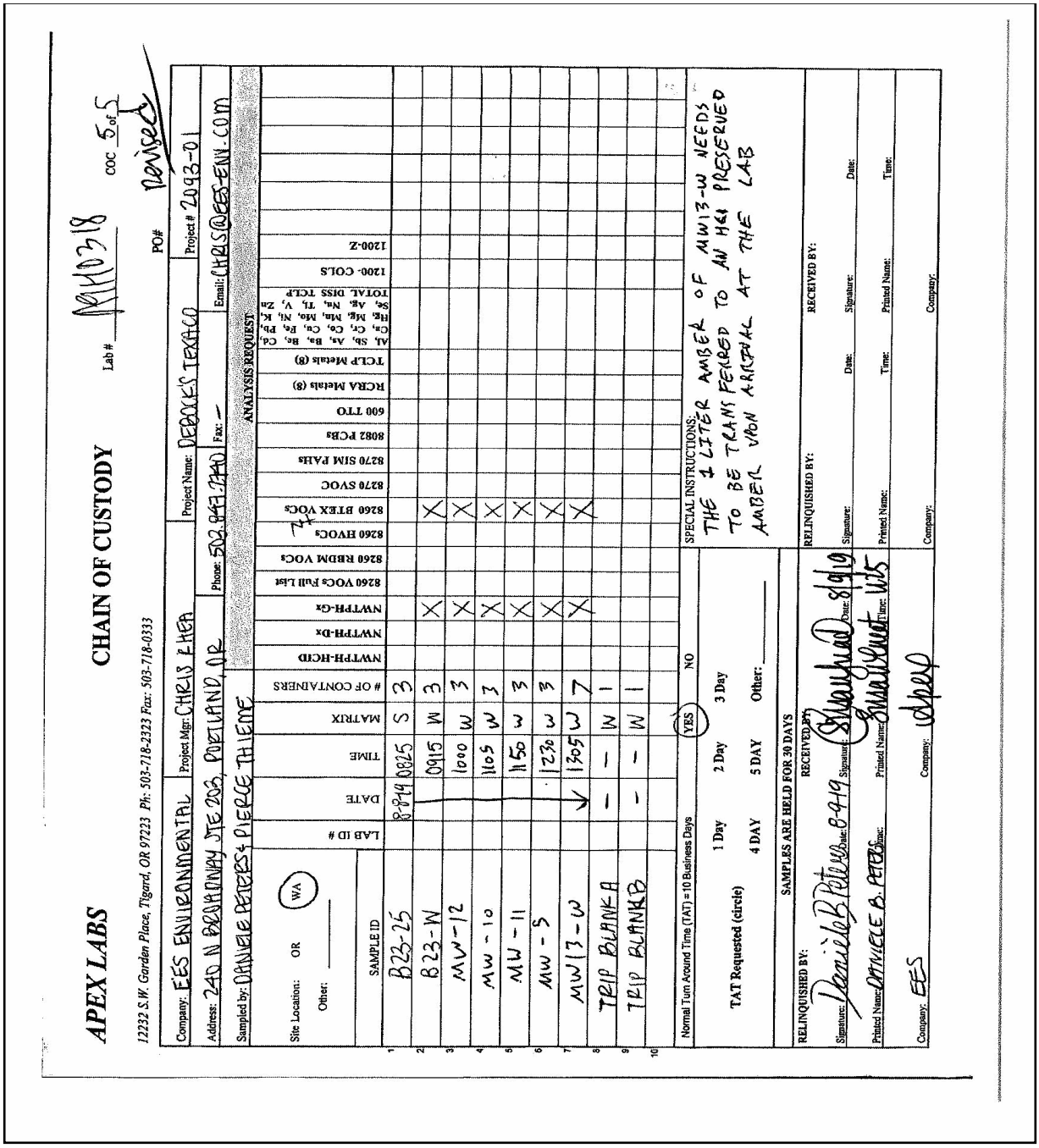
RELINQUISHED BY: Signature: Date: Time: Printed Name: Company:

RECEIVED BY: Signature: Date: 8/9/19 Time: 1135 Printed Name: Company: Apex

**Apex Laboratories, LLC**

**6700 S.W. Sandburg Street**
**Tigard, OR 97223**
**503-718-2323**
**EPA ID: OR01039**

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |



APEX LABS

CHAIN OF CUSTODY

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Lab # A9H0318 COC 5 of 5

PO# Revised

Company: EES ENVIRONMENTAL | Project Mgr: CHRIS RHEA | Project Name: DEBOCKS TEXACO | Project # 2093-01

Address: 240 N BROADWAY STE 203, PORTLAND, OR | Phone: 503.667.7440 | Fax: — | Email: CHRS@EES-ENV.COM

Sampled by: DANIELE PETERS & PIERCE THIEME

Site Location: OR (WA) Other: ____

ANALYSIS REQUEST

| # | SAMPLE ID | LAB ID # | DATE | TIME | MATRIX | # OF CONTAINERS | NWTPH-HCID | NWTPH-Dx | NWTPH-Gx | 8260 VOCs Full List | 8260 RBDM VOCs | 8260 HVOCs | 8260 BTEX VOCs | 8270 SVOC | 8270 SIM PAHs | 8082 PCBs | 600 TTO | RCRA Metals (8) | TCLP Metals (8) | Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP | 1200- COLS | 1200-Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | B22-25 | | 8-8-19 | 0825 | S | 3 | | | | | | | | | | | | | | | | |
| 2 | B23-W | | | 0915 | W | 3 | | | X | | | | X | | | | | | | | | |
| 3 | MW-12 | | | 1000 | W | 3 | | | X | | | | X | | | | | | | | | |
| 4 | MW-10 | | | 1105 | W | 3 | | | X | | | | X | | | | | | | | | |
| 5 | MW-11 | | | 1150 | W | 3 | | | X | | | | X | | | | | | | | | |
| 6 | MW-5 | | | 1230 | W | 3 | | | X | | | | X | | | | | | | | | |
| 7 | MW13-W | | ↓ | 1305 | W | 7 | | | X | | | | X | | | | | | | | | |
| 8 | TRIP BLANK A | | — | — | W | 1 | | | | | | | | | | | | | | | | |
| 9 | TRIP BLANK B | | — | — | W | 1 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |

Normal Turn Around Time (TAT) = 10 Business Days (YES) NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ____

SPECIAL INSTRUCTIONS: THE 1 LITER AMBER OF MW13-W NEEDS TO BE TRANSFERED TO AN HCL PRESERVED AMBER VOA ARRIVAL AT THE LAB

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Daniele B Peters Date: 8-9-19 Printed Name: Daniele B. Peters Time: Company: EES

RECEIVED BY: Signature: Date: Printed Name: Time: Company:

RELINQUISHED BY: Signature: Date: Printed Name: Time: Company:

RECEIVED BY: Signature: Date: 8/9/19 Printed Name: Time: 1115 Company:

Apex Laboratories

*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.*

Kevin J. Friscia, Project Manager

**Apex Laboratories, LLC**
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

| | | |
|---|---|---|
| **EES Environmental Inc** | Project: **Debocks Texaco** | |
| **240 N Broadway Ste 203** | Project Number: **2093-01** | **Report ID:** |
| **Portland, OR 97227** | Project Manager: **Chris Rhea** | **A9H0318 - 08 26 19 0857** |

## APEX LABS COOLER RECEIPT FORM

**Client:** EES Element WO#: A9 H0318

**Project/Project #:** Debocks Texaco

**Delivery Info:**

Date/time received: 8/9/19 @ 1125 By: [illegible]

Delivered by: Apex ___ Client X ESS ___ FedEx ___ UPS ___ Swift ___ Senvoy ___ SDS ___ Other ___

**Cooler Inspection** Date/time inspected: 8/9/19 @ 1125 By: [illegible]

Chain of Custody included? Yes X No ___ Custody seals? Yes ___ No X

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

| | Cooler #1 | Cooler #2 | Cooler #3 | Cooler #4 | Cooler #5 | Cooler #6 | Cooler #7 |
|---|---|---|---|---|---|---|---|
| Temperature (°C) | 0.9 | 4.3 | | | | | |
| Received on ice? (Y/N) | Y | Y | | | | | |
| Temp. blanks? (Y/N) | Y | Y | | | | | |
| Ice type: (Gel/Real/Other) | real | real | | | | | |
| Condition: | good | good | | | | | |

Cooler out of temp? (Y/(N)) Possible reason why: ___

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/(NA)

Out of temperature samples form initiated? Yes/No/(NA)

**Samples Inspection:** Date/time inspected: 8/10/19 @ 1020 By: OB

All samples intact? Yes ___ No X Comments: MW-11 1/3 HCL voas received broken

Bottle labels/COCs agree? Yes ___ No X Comments: B21-15 reads B21-14 on all coats.

COC/container discrepancies form initiated? Yes ___ No X NA ___

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ___

Do VOA vials have visible headspace? Yes ___ No X NA ___

Comments ___

Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes ___ No X NA ___

OB 8/10/19 Comments: B19-W, B20-W, B21-W, B22-W MW-13W pH ~7

Additional information: TB #2014 - TRIP BLANK A TB#2090-TRIP BLANK B

Labeled by: [illegible] Witness: [illegible] Cooler Inspected by: TAG See Project Contact Form: Y



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Kevin J. Friscia, Project Manager