

From: [Dean Malte](#)
To: ["Myers, Dale - TCP \(ECY\)"](#)
Cc: [Ty Schreiner](#)
Subject: Meeting Notes Jan 24th 2019 Chevron Brooklyn Site
Date: Monday, January 28, 2019 11:20:00 AM
Attachments: [Meeting Summary Notes 1-24-2019 Chevron Brooklyn Site.docx](#)

Dale-

Our summary notes for January 24th, 2019 meeting for the Chevron Brooklyn site are attached (MS Word version; let us know if you need a PDF also). Please let us know if you have any questions or comments.

Also, are you still available Wednesday or Thursday for our site visits?

Thank you.

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From: [Dean Malte](#)
To: ["Myers, Dale - TCP \(ECY\)"](#)
Cc: [Ty Schreiner](#)
Subject: January 30th, 2019 Site Visits Summary
Date: Tuesday, February 5, 2019 9:40:00 AM
Attachments: [Brooklyn_01_20190130.jpg](#)
[Brooklyn_02_20190130.jpg](#)
[Chev209335_01_20190130.jpg](#)
[Site_Visit_Summary_20190130.docx](#)
[Site_Visit_Summary_20190130.pdf](#)
[Strickland_01_20190130.jpg](#)
[Strickland_02_20190130.jpg](#)

Dale-

Our summary notes for the January 30th, 2019 site visits for Brooklyn Chevron, Chevron 209335, and Texaco Strickland are attached. The PDF file includes summary notes and copies of select photos. The native MS Word and photo jpeg files are also attached. We will compile all of our photographs (mine and Ty's) separately for each site and forward to Ecology. Please let us know if you have any questions or comments, thank you.

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From: [Dean Malte](#)
To: ["Myers, Dale - TCP \(ECY\)"](#)
Cc: [Ty Schreiner](#)
Subject: Title and Property Review Tech Memo - Chevron Brooklyn Site
Date: Friday, February 1, 2019 10:49:00 AM
Attachments: [Title Review Table 1 Brooklyn Chevron 02-01-2019.xlsx](#)
[Title Review Tech Memo Brooklyn Chevron 02-01-2019.docx](#)
[Title Review Tech Memo Brooklyn Chevron 02-01-2019.pdf](#)

Dale-

Our Technical Memorandum summarizing property ownership for King County tax parcel 8817400125 (4701 Brooklyn Ave NE, Seattle, WA) is attached. The attached PDF file includes the Memorandum text, summary table, and attachments. Native file formats for the text (MS Word) and summary table (MS Excel) are also attached.

Please let us know if you have any questions or comments, thank you.

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From: [Dean Malte](#)
To: ["Myers, Dale - TCP \(ECY\)"](#)
Cc: [Ty Schreiner](#)
Subject: Brooklyn Chevron Off-Property HVOC Analyses
Date: Wednesday, February 6, 2019 2:26:00 PM
Attachments: [Groundwater Map and Data Tables Brooklyn Chevron HVOC.pdf](#)

Dale-

As you requested during our site visit last week to the Chevron Brooklyn site (4700 Brooklyn Avenue, Seattle, WA), recent reports documenting HVOC analyses in off-property groundwater are summarized below. The referenced reports include the most recent sampling data (samples collected after the recent remedial action), and sampling data for analyses performed prior to the remedial action. The information presented below is based on a review of previous reports included in the site file materials recently provided electronically by Ecology (a review of Ecology's hard-copy files for the Site was not performed).

The most recent off-property groundwater sampling data for HVOCs (multiple samples collected during August 2018) are presented in the January 4th 2019 Interim Action Report prepared by Aspect Consulting (Aspect, 2019). The sampled wells included four wells installed in January 2018 (MW-17, -18, -25, and -26). Wells MW-27 and MW-28, located in the sidewalk south of the main property, were not sampled due to dewatering drawdown and presence of LNAPL. Well locations are shown on the site map from Aspect's January 2019 report included in the attached PDF file. Additional sampling (possibly including additional wells) may have been performed but not yet reported to Ecology; we recommend that Ecology request any recent data from Aspect.

Prior to the remedial action, analysis of HVOCs in groundwater samples was performed by the Riley Group (Riley, 2016) in January 2016 and by Aspect (Aspect, 2017) in November 2016. The wells sampled in 2016 included perimeter wells located near the margin of the property which have since been abandoned (wells MW-3, -6, -9, -13 by Riley and wells MW-9, -11, and -13 by Aspect; see attached location map), and are not the same wells as the off-property wells sampled in 2018, which were installed in January 2018 (analysis of perimeter/off-property groundwater samples for HVOCs does not appear to have been performed prior to 2016 based on the records we have).

The referenced reports are listed below. Copies of the groundwater data summary table from each report are provided in the attached PDF for reference.

- Aspect Consulting. 2019. Interim Action Report, Former Chevron Service Station No. 90129, 4700 Brooklyn Avenue NE, Seattle, WA. Prepared for FH Brooklyn, LLC, and Chevron Environmental Management Company. Dated January 4th, 2019.
- Aspect Consulting. 2017. On-Property Remedial Investigation Data Report, 4700 Brooklyn Avenue NE, Seattle, WA. Memorandum to Dale Myers, Washington State Department of Ecology. Dated January 17th, 2017.
- Riley Group Inc. 2016. Summary of Recent Groundwater Sampling and Summary of Groundwater Data, Chevron Station No. 90129, 4700 Brooklyn Avenue NE, Seattle, WA. Technical Memorandum to Mr. Eran Fields of Fields Holdings, LLC. Dated January 18th, 2016.

Please contact us with any questions or comments. Thank you.

Dean K. Malte | Geologist

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From: [Dean Malte](#)
To: [Myers, Dale - TCP \(ECY\)](#)
Subject: RE: Chevron 90129 File Schema - 03-05-2019
Date: Tuesday, March 5, 2019 2:03:00 PM
Attachments: [Chevron 90129 File Schema Updated - 03-05-2019.docx](#)

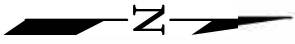
Dale-The updated Schema is attached

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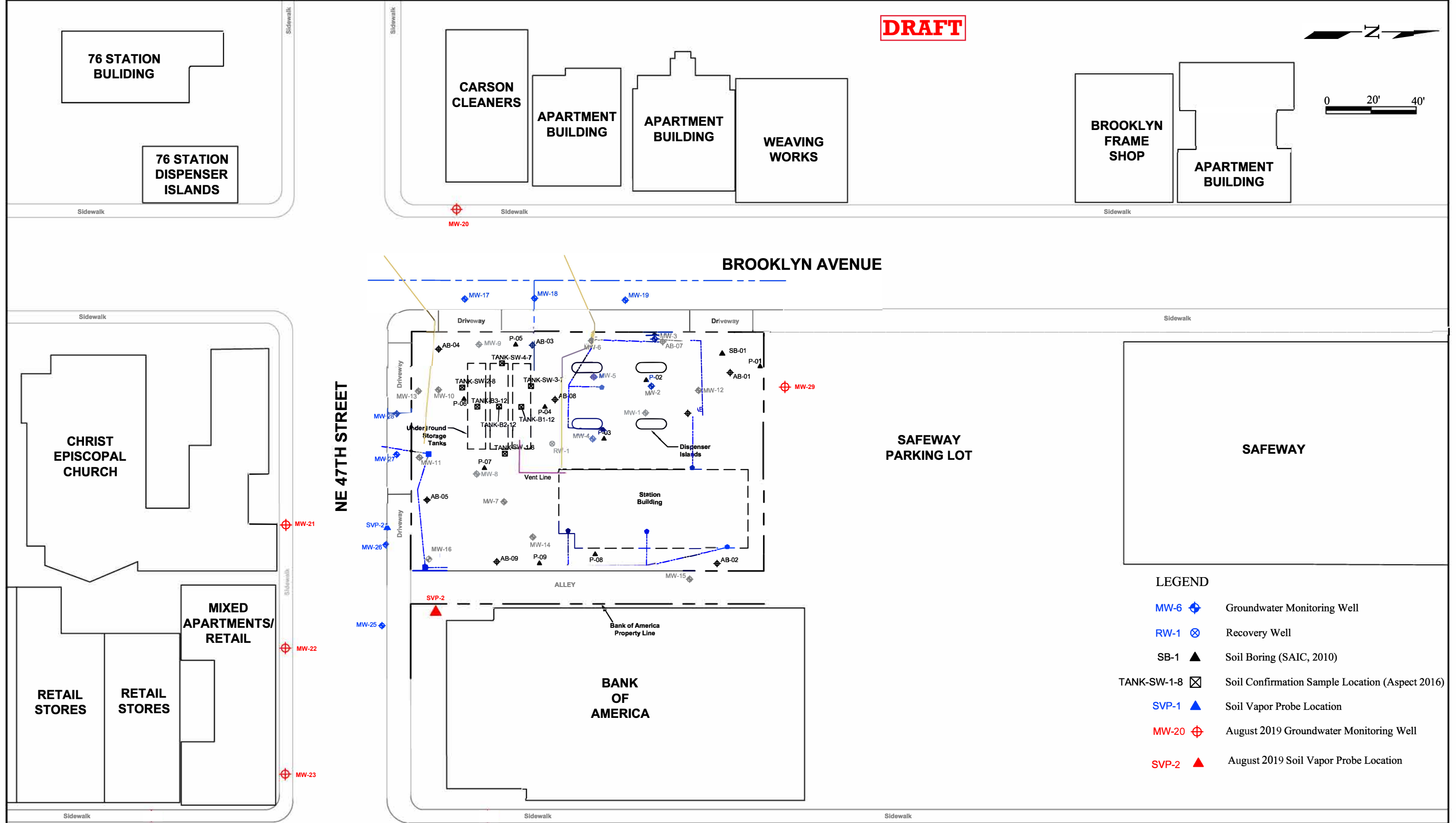
From: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Sent: Tuesday, March 05, 2019 9:09 AM
To: Dean Malte <DeanMalte@KennedyJenks.com>
Cc: Ty Schreiner <TySchreiner@KennedyJenks.com>; Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Subject: Chevron 90129 File Schema - 03-05-2019

Morning Dean
This is the Site File Schema we will start with
We may or may not be making further edits
Dale

DRAFT



0 20' 40'



76 STATION BUILDING

76 STATION DISPENSER ISLANDS

CARSON CLEANERS

APARTMENT BUILDING

APARTMENT BUILDING

WEAVING WORKS

BROOKLYN FRAME SHOP

APARTMENT BUILDING

CHRIST EPISCOPAL CHURCH

MIXED APARTMENTS/ RETAIL

RETAIL STORES

RETAIL STORES

BANK OF AMERICA

SAFEWAY PARKING LOT

SAFEWAY

LEGEND

- MW-6 Groundwater Monitoring Well
- RW-1 Recovery Well
- SB-1 Soil Boring (SAIC, 2010)
- TANK-SW-1-8 Soil Confirmation Sample Location (Aspect 2016)
- SVP-1 Soil Vapor Probe Location
- MW-20 August 2019 Groundwater Monitoring Well
- SVP-2 August 2019 Soil Vapor Probe Location



Former Chevron Service Station No. 90129
4700 Brooklyn Avenue
Seattle, Washington

FIGURE 1
Groundwater Monitoring Well
Locations and Soil Vapor Probe
installed August 2019

DATE: 10/28/19

DRAWING:

Table 1 - Soil Results

Table 1 - 2019 Soil Results

| Chemical | Unit | MTCA A Then B | MTCA A Then B note | Location Code | MW-20 | MW-20 | MW-20 | MW-20 | MW-21 | MW-21 | MW-21 | MW-21 | MW-21 |
|---|-----------|---------------|--------------------|---------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | | | Depth | 10.5 | 18.0 | 28.0 | 30.0 | 10.0 | 15.0 | 20.0 | 25.0 | 26.5 |
| | | | | Sample Name | MW-20-S-10.5-190810 | MW-20-S-18.0-190810 | MW-20-S-28.0-190810 | MW-20-S-30.0-190810 | MW-21-S-10.0-190809 | MW-21-S-15.0-190809 | MW-21-S-20.0-190809 | MW-21-S-25.0-190809 | MW-21-S-26.5-190809 |
| Date | 8/10/2019 | 8/10/2019 | 8/10/2019 | 8/10/2019 | 8/9/2019 | 8/9/2019 | 8/9/2019 | 8/9/2019 | 8/9/2019 | | | | |
| Total Petroleum Hydrocarbons | | | | | | | | | | | | | |
| Gasoline-Range Organics | mg/kg | 30/100 | Method A | | 0.8 | 0.4 | 0.6 | 1 | 0.9 | 1 | 1.7 | 0.5 | 0.9 |
| Total Petroleum Hydrocarbons - Diesel - without silica gel cleanup | | | | | | | | | | | | | |
| Diesel-Range Organics | mg/kg | 2000 | Method A | | < 4.4 | < 4.5 | < 4.9 | < 5.2 | < 4.3 | < 4.3 | < 4.7 | < 4.6 | < 4.6 |
| Oil-Range Organics | mg/kg | 2000 | Method A | | < 11 | < 11 | 18 | < 13 | < 11 | < 11 | < 12 | < 11 | < 11 |
| Semi Volatile Organic Compounds using SIM | | | | | | | | | | | | | |
| Benzo(a)anthracene | mg/kg | 1.37 | B Cancer | | -- | -- | -- | -- | -- | -- | -- | <0.0008 | -- |
| Benzo(a)pyrene | mg/kg | 0.1 | Method A | | -- | -- | -- | -- | -- | -- | -- | 0.0008 | -- |
| Benzo(b)Fluoranthene | mg/kg | 1.37 | B Cancer | | -- | -- | -- | -- | -- | -- | -- | 0.001 | -- |
| Benzo(k)Fluoranthene | mg/kg | 13.7 | B Cancer | | -- | -- | -- | -- | -- | -- | -- | <0.0008 | -- |
| Chrysene | mg/kg | 137 | B Cancer | | -- | -- | -- | -- | -- | -- | -- | 0.001 | -- |
| Dibenz(a,h)Anthracene | mg/kg | 0.137 | B Cancer | | -- | -- | -- | -- | -- | -- | -- | <0.0008 | -- |
| Indeno(1,2,3-c,d)Pyrene | mg/kg | 1.37 | B Cancer | | -- | -- | -- | -- | -- | -- | -- | <0.0008 | -- |
| Volatile Organic Compounds | | | | | | | | | | | | | |
| Benzene | mg/kg | 0.03 | Method A | | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0004 | 0.0008 | 0.003 |
| cis-1,2-Dichloroethene | mg/kg | 160 | B Non Cancer | | < 0.0005 | < 0.0005 | < 0.0005 | 0.0007 | -- | -- | -- | 0.003 | 0.019 |
| trans-1,2-Dichloroethene | mg/kg | 1600 | B Non Cancer | | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | -- | -- | -- | < 0.0004 | 0.0007 |
| Ethylbenzene | mg/kg | 6 | Method A | | < 0.0004 | < 0.0004 | < 0.0004 | < 0.0004 | < 0.0004 | < 0.0004 | < 0.0003 | < 0.0003 | < 0.0004 |
| Tetrachloroethene (PCE) | mg/kg | 0.05 | Method A | | 0.068 | 0.075 | 0.030 | 0.06 | -- | -- | -- | 0.032 | 0.18 |
| Toluene | mg/kg | 7 | Method A | | < 0.0006 | < 0.0006 | < 0.0006 | < 0.0006 | < 0.0005 | < 0.0006 | < 0.0005 | < 0.0005 | 0.0006 |
| Trichloroethene (TCE) | mg/kg | 0.03 | Method A | | < 0.0005 | < 0.0005 | 0.025 | 0.003 | -- | -- | -- | 0.063 | 0.38 E |
| Vinyl Chloride | mg/kg | 0.670 | B Cancer | | < 0.0006 | < 0.0006 | < 0.0006 | < 0.0006 | -- | -- | -- | < 0.0005 | < 0.0006 |
| Xylene, total | mg/kg | 9 | Method A | | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Metals | | | | | | | | | | | | | |
| Lead | mg/kg | 250 | Method A | | 4.18 | 3.59 | 5.42 | 2.83 | 8.7 | 3.64 | 4.16 | 4.49 | 7.44 |
| Moisture | | | | | | | | | | | | | |
| Percent Moisture | % | | | | 9.4 | 12.9 | 19.7 | 23.0 | 7.7 | 7.6 | 14.5 | 13.5 | 13.9 |

| | |
|--------------|---|
| 751 | Detected concentrations above the cleanup level are shaded yellow and bolded. |
| < -- | Non-detect values above the cleanup level are shaded gray and italicized. |
| 0.436 | Detected concentrations at or above the method detection limit are shown in bold. |

Notes:

Table was prepared in December 2019 at the request of the Ecology PM.

Abbreviations and Symbols

" - " denotes not measured, not available, or not applicable.

" < " denotes not detected at or above the indicated method detection limit.

E = Concentrations are estimated since they exceed the calibration range of the instrument. Results of a further diluted analysis performed outside of method holding time is shown in parenthesis.

mg/kg = milligrams per kilogram

Cleanup Levels (CUL)

Cleanup level values based on Model Toxics Control Act (MTCA) Method A values for unrestricted land use (Method A) based on Washington State Administrative Code (WAC) 173-340-740 Table 740-1. Where MTCA Method A values are not available, the lowest of MTCA Method B values (B Cancer or B Non Cancer) from Cleanup Levels and Risk Calculation (CLARC) tables have been used (Accessed January 2017).

Table 1 - Soil Results

Table 1 - 2019 Soil Results

| | | | Location Code | MW-22 | MW-22 | MW-22 | MW-23 | MW-23 | MW-23 | MW-29 | MW-29 | MW-29 |
|---|-------|---------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | | Depth | 10.0 | 23.0 | 28.5 | 10.0 | 25.0 | 30.0 | 10.5 | 20.0 | 31.5 |
| | | | Sample Name | MW-22-S-10.0-190808 | MW-22-S-23.0-190808 | MW-22-S-28.5-190808 | MW-23-S-10.0-190808 | MW-23-S-25.0-190808 | MW-23-S-30.0-190808 | MW-29-S-10.5-190810 | MW-29-S-20.0-190810 | MW-29-S-31.5-190810 |
| | | | Date | 8/8/2019 | 8/8/2019 | 8/8/2019 | 8/8/2019 | 8/8/2019 | 8/8/2019 | 8/10/2019 | 8/10/2019 | 8/10/2019 |
| Chemical | Unit | MTCA A Then B | MTCA A Then B note | | | | | | | | | |
| Total Petroleum Hydrocarbons | | | | | | | | | | | | |
| Gasoline-Range Organics | mg/kg | 30/100 | Method A | < 0.2 | < 0.2 | < 0.3 | 4.0 | < 0.3 | < 0.4 | < 0.2 | 0.7 | 0.6 |
| Total Petroleum Hydrocarbons - Diesel - without silica gel cleanup | | | | | | | | | | | | |
| Diesel-Range Organics | mg/kg | 2000 | Method A | < 4.2 | < 4.7 | < 5.2 | 4.5 | < 4.7 | < 5.4 | < 4.5 | < 4.6 | < 4.8 |
| Oil-Range Organics | mg/kg | 2000 | Method A | < 10 | < 12 | < 13 | 32 | < 12 | < 40 | 16 | 13 | < 12 |
| Semi Volatile Organic Compounds using SIM | | | | | | | | | | | | |
| Benzo(a)anthracene | mg/kg | 1.37 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | mg/kg | 0.1 | Method A | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b)Fluoranthene | mg/kg | 1.37 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(k)Fluoranthene | mg/kg | 13.7 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | mg/kg | 137 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenz(a,h)Anthracene | mg/kg | 0.137 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-c,d)Pyrene | mg/kg | 1.37 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Volatile Organic Compounds | | | | | | | | | | | | |
| Benzene | mg/kg | 0.03 | Method A | < 0.0004 | 0.001 | < 0.0006 | < 0.0005 | 0.015 | < 0.0006 | < 0.0005 | < 0.0005 | 0.002 |
| cis-1,2-Dichloroethene | mg/kg | 160 | B Non Cancer | -- | 0.087 | < 0.0006 | -- | 0.15 | -- | -- | -- | -- |
| trans-1,2-Dichloroethene | mg/kg | 1600 | B Non Cancer | -- | < 0.0004 | < 0.0006 | -- | 0.0008 | -- | -- | -- | -- |
| Ethylbenzene | mg/kg | 6 | Method A | < 0.0004 | < 0.0003 | < 0.0004 | < 0.0004 | < 0.0004 | < 0.0005 | < 0.0004 | < 0.0004 | 0.0004 |
| Tetrachloroethene (PCE) | mg/kg | 0.05 | Method A | -- | 0.001 | < 0.0006 | -- | < 0.0005 | -- | -- | -- | -- |
| Toluene | mg/kg | 7 | Method A | < 0.0005 | < 0.0005 | < 0.0007 | < 0.0005 | < 0.0006 | < 0.0007 | < 0.0006 | < 0.0006 | 0.0007 |
| Trichloroethene (TCE) | mg/kg | 0.03 | Method A | -- | 0.006 | < 0.0006 | -- | < 0.0005 | -- | -- | -- | -- |
| Vinyl Chloride | mg/kg | 0.670 | B Cancer | -- | < 0.0005 | < 0.0007 | -- | 0.005 | -- | -- | -- | -- |
| Xylene, total | mg/kg | 9 | Method A | < 0.001 | < 0.001 | < 0.002 | < 0.001 | < 0.001 | < 0.002 | < 0.001 | < 0.001 | < 0.001 |
| Metals | | | | | | | | | | | | |
| Lead | mg/kg | 250 | Method A | 2.89 | 3.18 | 9.79 | 4.40 | 3.17 | 13.0 | -- | -- | -- |
| Moisture | | | | | | | | | | | | |
| Percent Moisture | % | | | 5.3 | 16.5 | 24.0 | 8.3 | 14.7 | 26.8 | 11.6 | 13.0 | 17.2 |

Table 1 - Soil Results

Table 1 - 2019 Soil Results

| | | | Location Code | DUP-1-S-190810 | SUP-1-1-S-6.5-190810 |
|---|-------|---------------|--------------------|----------------|----------------------|
| | | | Depth | 6.5 | |
| | | | Sample Name | DUP-1-S-190810 | SUP-1-1-S-6.5-190810 |
| | | | Date | 8/10/2019 | 8/10/2019 |
| Chemical | Unit | MTCA A Then B | MTCA A Then B note | | |
| Total Petroleum Hydrocarbons | | | | | |
| Gasoline-Range Organics | mg/kg | 30/100 | Method A | < 0.3 | < 0.3 |
| Total Petroleum Hydrocarbons - Diesel - without silica gel cleanup | | | | | |
| Diesel-Range Organics | mg/kg | 2000 | Method A | < 4.5 | < 4.4 |
| Oil-Range Organics | mg/kg | 2000 | Method A | < 11 | < 11 |
| Semi Volatile Organic Compounds using SIM | | | | | |
| Benzo(a)anthracene | mg/kg | 1.37 | B Cancer | -- | -- |
| Benzo(a)pyrene | mg/kg | 0.1 | Method A | -- | -- |
| Benzo(b)Fluoranthene | mg/kg | 1.37 | B Cancer | -- | -- |
| Benzo(k)Fluoranthene | mg/kg | 13.7 | B Cancer | -- | -- |
| Chrysene | mg/kg | 137 | B Cancer | -- | -- |
| Dibenz(a,h)Anthracene | mg/kg | 0.137 | B Cancer | -- | -- |
| Indeno(1,2,3-c,d)Pyrene | mg/kg | 1.37 | B Cancer | -- | -- |
| Volatile Organic Compounds | | | | | |
| Benzene | mg/kg | 0.03 | Method A | < 0.0004 | < 0.0005 |
| cis-1,2-Dichloroethene | mg/kg | 160 | B Non Cancer | -- | -- |
| trans-1,2-Dichloroethene | mg/kg | 1600 | B Non Cancer | -- | -- |
| Ethylbenzene | mg/kg | 6 | Method A | < 0.0004 | < 0.0004 |
| Tetrachloroethene (PCE) | mg/kg | 0.05 | Method A | -- | -- |
| Toluene | mg/kg | 7 | Method A | < 0.0005 | < 0.0006 |
| Trichloroethene (TCE) | mg/kg | 0.03 | Method A | -- | -- |
| Vinyl Chloride | mg/kg | 0.670 | B Cancer | -- | -- |
| Xylene, total | mg/kg | 9 | Method A | < 0.001 | < 0.001 |
| Metals | | | | | |
| Lead | mg/kg | 250 | Method A | -- | -- |
| Moisture | | | | | |
| Percent Moisture | % | | | 11.1 | 9.6 |

Table 2 - 2019 Groundwater Results

Table 2 - 2019 Groundwater Results

| Chemical | Unit | MTCA A Then B | MTCA A Then B Note | Location Code | QA-T1 | QA-T2 | QA-T3 | QA-T4 | QA-T5 | QA-T6 | QA-O1 | QA-1-T | QA-O2 | QA-2-T | MW-17-W | MW-18-W | MW-19-W | MW-20-W | MW-21-W | |
|---|------|---------------|---|---------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|------------------------|-------------------------|------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------|
| | | | | Sample Type | 8/12/2019 | 8/12/2019 | 8/12/2019 | 8/12/2019 | 8/12/2019 | 8/12/2019 | 8/8/2019 | 8/13/2019 | 8/9/2019 | 8/14/2019 | 8/15/2019 | 8/13/2019 | 8/13/2019 | 8/13/2019 | 8/15/2019 | 8/15/2019 |
| | | | | Date | 8/12/2019 | 8/12/2019 | 8/12/2019 | 8/12/2019 | 8/12/2019 | 8/12/2019 | 8/8/2019 | 8/13/2019 | 8/9/2019 | 8/14/2019 | 8/15/2019 | 8/13/2019 | 8/13/2019 | 8/13/2019 | 8/15/2019 | 8/15/2019 |
| | | | | Sample ID | QA-T1-190812 NA WATER | QA-T2-190812 NA WATER | QA-T3-190812 NA WATER | QA-T4-190812 NA WATER | QA-T5-190812 NA WATER | QA-T6-190812 NA WATER | QA-O1-190808 Grab Water | QA-1-T-190813 NA Water | QA-O2-190808 Grab Water | QA-2-T-190814 NA Water | MW-17-W-190815 Grab Groundwater | MW-18-W-190813 Grab Groundwater | MW-19-W-190813 Grab Groundwater | MW-20-W-190815 Grab Groundwater | MW-21-W-190815 Grab Groundwater | |
| Parent ID | | | | | | | | | | | | | | | | | | | | |
| Metals | | | | | | | | | | | | | | | | | | | | |
| Lead | ug/l | 15 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 7.1 T | < 7.1 T | < 7.1 T | < 7.1 T | < 7.1 T | |
| TPH | | | | | | | | | | | | | | | | | | | | |
| Gasoline Range Organics-NWTPH | ug/l | 800 | | < 19 | < 19* | < 19 | < 19 | < 19 | < 19 | < 19* | < 19 | < 19* | < 19 | < 19* | 500 | < 19* | 26 | 30 | < 19 | |
| Total Petroleum Hydrocarbons - Diesel - without silica gel cleanup | | | | | | | | | | | | | | | | | | | | |
| Diesel-Range Organics | ug/l | 500 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 710 | < 46 | < 47 | < 45 | < 46 | |
| Oil-Range Organics | ug/l | 500 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 100 | < 100 | < 100 | < 100 | < 100 | |
| VOCs | | | | | | | | | | | | | | | | | | | | |
| Benzene | ug/l | 5 | B Cancer | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2* | < 0.2 | < 0.2 | 6 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | |
| 1,2-Dichloroethane | ug/l | 5 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.5 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | |
| cis-1,2-Dichloroethene | ug/l | | B Non Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 52 | < 0.2 | < 0.2 | 7 | 0.4 | |
| trans-1,2-Dichloroethene | ug/l | | B Non Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.8 | < 0.2 | < 0.2 | 0.5 | < 0.2 | |
| Ethylbenzene | ug/l | 700 | B Non Cancer | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4* | < 0.4 | < 0.4 | 14 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | |
| Methyl tert-Butyl ether | ug/l | 20 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | |
| Tetrachloroethene (PCE) | ug/l | 5 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7 | 3 | < 0.2 | 64 | 2 | |
| Toluene | ug/l | 1000 | B Non Cancer | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | 0.2* | < 0.2 | 0.3 | 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | |
| Trichloroethene (TCE) | ug/l | 5 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3 | < 0.2 | < 0.2 | 13 | 4 | |
| Vinyl Chloride | ug/l | 0.2 | B Cancer, When children may be exposed, see guidance. Federal MCL = 2 ug/L. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | |
| Xylene, total | ug/l | 1000 | B Non Cancer | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1* | < 1 | < 1 | < 1 | 6 | < 1 | < 1 | < 1 | < 1 | |
| 1,2-Dibromoethane | ug/l | 0.01 | B Cancer | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0095 D1 | < 0.0096 D1 | < 0.0095 D1 | < 0.0095 D2 | < 0.0095 D1 | |

| | |
|--------------|---|
| 751 | Detected concentrations above the cleanup level are shaded yellow and bolded. |
| < -- | Non-detect values above the cleanup level are shaded gray and italicized. |
| 0.436 | Detected concentrations at or above the method detection limit are shown in bold. |

Notes:

Table was prepared in December 2019 at the request of the Ecology PM.

Abbreviations and Symbols

" - " denotes not measured, not available, or not applicable.

" < " denotes not detected at or above the indicated method detection limit.

ug/l = micrograms per liter

* = The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

Concentrations are estimated

time was not met

for dissolved

sample filtration.

D1 = Indicates for dual column analyses that the result is reported from column 1.

D2 = Indicates for dual column analyses that the result is reported from column 2.

Cleanup Levels (CUL)

Cleanup level values based on Model Toxics Control Act (MTCA) Method A values for unrestricted land use (Method A) based on Washington State Administrative Code (WAC) 173-340-740 Table 740-1. Where MTCA Method A values are not available, the lowest of MTCA Method B values (B Cancer or B Non Cancer) from Cleanup Levels and Risk Calculation (CLARC) tables have been used (Accessed January 2017).

Table 2 - 2019 Groundwater Results

Table 2 - 2019 Groundwater Results

| Location Code | | MW-22-W | MW-23-W | MW-25-W | MW-26-W | MW-27-W | MW-28-W | DUP-1-WD-190813 Grab Groundwater | MW-29-W | | |
|---|------|---------------------------------|---|---------------------------------|-------------|-------------|---------------|----------------------------------|---------------------------------|-------------|-------------|
| Sample Type | | | | | | | | DUP | | | |
| Date | | 8/14/2019 | 8/15/2019 | 8/16/2019 | 8/13/2019 | 8/13/2019 | 8/13/2019 | 8/13/2019 | 8/16/2019 | | |
| Sample ID | | MW-22-W-190814 Grab Groundwater | MW-23-W-190815 Grab Groundwater | MW-25-W-190816 Grab Groundwater | | | | DUP-1-WD-190813 Grab Groundwater | MW-29-W-190816 Grab Groundwater | | |
| Parent ID | | | | | | | | Unknown | | | |
| Chemical | Unit | MTCA A Then B | MTCA A Then B Note | | | | | | | | |
| Metals | | | | | | | | | | | |
| Lead | ug/l | 15 | | < 7.1 T | < 7.1 T | < 7.1 T | < 7.1 T | < 7.1 T | < 7.1 T | | |
| TPH | | | | | | | | | | | |
| Gasoline Range Organics-NWTPH | ug/l | 800 | | 39 | < 19 | 250 | 150 | 2900 | 3700 | 3800* | < 19 |
| Total Petroleum Hydrocarbons - Diesel - without silica gel cleanup | | | | | | | | | | | |
| Diesel-Range Organics | ug/l | 500 | | < 45 | < 49 | < 47 | < 45 | 1400 | 770 | 840 | < 46 |
| Oil-Range Organics | ug/l | 500 | | < 100 | < 110 | < 100 | < 100 | < 100 | < 100 | < 100 | < 100 |
| VOCs | | | | | | | | | | | |
| Benzene | ug/l | 5 | B Cancer | 10 | 19 | 57 | 24 | 9 | 14 | 15 | < 0.2 |
| 1,2-Dichloroethane | ug/l | 5 | B Cancer | < 3 | 1 | 3 | 0.4 | < 6 | < 6 | < 6 | 4 |
| cis-1,2-Dichloroethene | ug/l | | B Non Cancer | 740 | 340 | 1200 | 820 E (720) | 700 | 250 | 270 | < 0.2 |
| trans-1,2-Dichloroethene | ug/l | | B Non Cancer | 6 | 2 | 82 | 230 | 55 | 6 | 5 | < 0.2 |
| Ethylbenzene | ug/l | 700 | B Non Cancer | < 4 | < 0.4 | 10 | 8 | 84 | 220 | 210 | < 0.4 |
| Methyl tert-Butyl ether | ug/l | 20 | B Cancer | < 2 | < 0.2 | < 0.2 | < 0.2 | < 4 | < 4 | < 4 | < 0.2 |
| Tetrachloroethene (PCE) | ug/l | 5 | B Cancer | < 2 | < 0.2 | 24 | 5 | < 4 | 260 | 300 | < 0.2 |
| Toluene | ug/l | 1000 | B Non Cancer | < 2 | 0.2 | 4 | 2 | < 4 | < 4 | < 4 | < 0.2 |
| Trichloroethene (TCE) | ug/l | 5 | B Cancer | 370 | 23 | 320 | 2200 E (1700) | 780 | 770 | 820 | < 0.2 |
| Vinyl Chloride | ug/l | 0.2 | B Cancer, When children may be exposed, see guidance. Federal MCL = 2 ug/L. | 5 | 16 | 150 | 38 | 23 | 8 | 8 | < 0.2 |
| Xylene, total | ug/l | 1000 | B Non Cancer | < 14 | < 1 | 2 | < 1 | 30 | 90 | 86 | < 1 |
| 1,2-Dibromoethane | ug/l | 0.01 | B Cancer | < 0.0094 D1 | < 0.0095 D1 | < 0.0095 D2 | < 0.0094 D2 | < 0.0094 D1 | < 0.0096 D2 | < 0.0095 D1 | < 0.0095 D1 |



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

Report Date: October 17, 2019 13:20

Project: 90129

Account #: 11255
Group Number: 2059029
PO Number: 0015324185
Release Number: BISHOP
State of Sample Origin: WA

Electronic Copy To Leidos

Attn: Ruth Otteman

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to <https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/> . Historical copies may be requested through your project manager.



SAMPLE INFORMATION

| <u>Client Sample Description</u> | <u>Sample Collection Date/Time</u> | <u>ELLE#</u> |
|----------------------------------|------------------------------------|--------------|
| MW-20-S-10.5-190810 Grab Soil | 08/10/2019 08:50 | 1126287 |
| SUP-1-1-S-6.5-190810 Grab Soil | 08/10/2019 08:50 | 1126288 |
| MW-20-S-18.0-190810 Grab Soil | 08/10/2019 09:15 | 1126289 |
| MW-20-S-28.0-190810 Grab Soil | 08/10/2019 09:30 | 1126290 |
| MW-20-S-30.0-190810 Grab Soil | 08/10/2019 10:00 | 1126291 |
| MW-29-S-20.0-190810 Grab Soil | 08/10/2019 13:13 | 1126292 |
| MW-29-S-31.5-190810 Grab Soil | 08/10/2019 13:52 | 1126293 |
| DUP-1-S-190810 Grab Soil | 08/10/2019 14:00 | 1126294 |
| MW-29-S-10.5-190810 Grab Soil | 08/10/2019 13:30 | 1126295 |
| QA-T1-190812 NA Water | 08/12/2019 14:00 | 1126296 |
| QA-T2-190812 NA Water | 08/12/2019 14:05 | 1126297 |
| QA-T3-190812 NA Water | 08/12/2019 14:30 | 1126298 |
| QA-T4-190812 NA Water | 08/12/2019 14:40 | 1126299 |
| QA-T5-190812 NA Water | 08/12/2019 15:40 | 1126300 |
| QA-T6-190812 NA Water | 08/12/2019 15:50 | 1126301 |
| MW-23-S-10.0-190808 Grab Soil | 08/08/2019 11:30 | 1126302 |
| MW-23-S-25.0-190808 Grab Soil | 08/08/2019 12:05 | 1126303 |
| MW-23-S-30.0-190808 Grab Soil | 08/08/2019 12:20 | 1126304 |
| MW-22-S-10.0-190808 Grab Soil | 08/08/2019 15:20 | 1126305 |
| MW-22-S-23.0-190808 Grab Soil | 08/08/2019 15:30 | 1126306 |
| MW-22-S-28.5-190808 Grab Soil | 08/08/2019 15:45 | 1126307 |
| QA-O1-190808 Grab Water | 08/08/2019 17:20 | 1126308 |
| QA-O2-190809 Grab Water | 08/09/2019 08:10 | 1126309 |
| MW-21-S-10.0-190809 Grab Soil | 08/09/2019 09:30 | 1126310 |
| MW-21-S-15.0-190809 Grab Soil | 08/09/2019 09:45 | 1126311 |
| MW-21-S-20.0-190809 Grab Soil | 08/09/2019 10:00 | 1126312 |
| MW-21-S-25.0-190809 Grab Soil | 08/09/2019 10:15 | 1126313 |
| MW-21-S-26.5-190809 Grab Soil | 08/09/2019 10:30 | 1126314 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: MW-20-S-10.5-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126287
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 08:50

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.88 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.0005 | 0.88 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.0005 | 0.88 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.88 |
| 11995 | Tetrachloroethene | 127-18-4 | 0.068 | 0.0005 | 0.88 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.88 |
| 11995 | Trichloroethene | 79-01-6 | N.D. | 0.0005 | 0.88 |
| 11995 | Vinyl Chloride | 75-01-4 | N.D. | 0.0006 | 0.88 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.88 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | 0.8 | 0.3 | 26.3 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.4 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 11 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 4.18 | 0.534 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 9.4 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|--------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 13:23 | Linda C Pape | 0.88 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |

Sample Description: MW-20-S-10.5-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126287
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 08:50

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/21/2019 23:44 | Jeremy C Giffin | 26.3 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 08:50 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280023A | 08/20/2019 05:13 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 05:55 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: SUP-1-1-S-6.5-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126288
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 08:50

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.93 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.93 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.93 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.93 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | N.D. | 0.3 | 28.54 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.4 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 11 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 9.6 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 18:16 | Linda C Pape | 0.93 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 08:50 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 00:19 | Jeremy C Giffin | 28.54 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 08:50 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280023A | 08/20/2019 05:35 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-20-S-18.0-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126289
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 09:15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.91 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.0005 | 0.91 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.0005 | 0.91 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.91 |
| 11995 | Tetrachloroethene | 127-18-4 | 0.075 | 0.0005 | 0.91 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.91 |
| 11995 | Trichloroethene | 79-01-6 | N.D. | 0.0005 | 0.91 |
| 11995 | Vinyl Chloride | 75-01-4 | N.D. | 0.0006 | 0.91 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.91 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | 0.4 | 0.3 | 25.47 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.5 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 11 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 3.59 | 0.478 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 12.9 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|--------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 13:45 | Linda C Pape | 0.91 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 09:15 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 09:15 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/10/2019 09:15 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/10/2019 09:15 | Client Supplied | 1 |

Sample Description: MW-20-S-18.0-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126289
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 09:15

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 09:15 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/10/2019 09:15 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 00:54 | Jeremy C Giffin | 25.47 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 09:15 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280023A | 08/20/2019 05:56 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 09:35 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-20-S-28.0-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126290
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 09:30

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.81 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.0005 | 0.81 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.0005 | 0.81 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.81 |
| 11995 | Tetrachloroethene | 127-18-4 | 0.030 | 0.0005 | 0.81 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.81 |
| 11995 | Trichloroethene | 79-01-6 | 0.025 | 0.0005 | 0.81 |
| 11995 | Vinyl Chloride | 75-01-4 | N.D. | 0.0006 | 0.81 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.81 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | 0.6 | 0.3 | 26.03 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.9 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | 18 | 12 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 5.42 | 0.519 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 19.7 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|--------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 14:08 | Linda C Pape | 0.81 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 09:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 09:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/10/2019 09:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/10/2019 09:30 | Client Supplied | 1 |

Sample Description: MW-20-S-28.0-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126290
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 09:30

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 09:30 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/10/2019 09:30 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 12:00 | Jeremy C Giffin | 26.03 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 09:30 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280023A | 08/20/2019 07:01 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:15 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-20-S-30.0-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126291
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 10:00

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|------------------------|--------------------------|---------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.74 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | 0.0007 | 0.0005 | 0.74 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.0005 | 0.74 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.74 |
| 11995 | Tetrachloroethene | 127-18-4 | 0.060 | 0.0005 | 0.74 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.74 |
| 11995 | Trichloroethene | 79-01-6 | 0.003 | 0.0005 | 0.74 |
| 11995 | Vinyl Chloride | 75-01-4 | N.D. | 0.0006 | 0.74 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.74 |

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: cis-1,2-Dichloroethene

| | | | | | |
|---------------------|-----------------------|-----------------------------|--------------|--------------|-------|
| GC Volatiles | | ECY 97-602 NWT PH-Gx | mg/kg | mg/kg | |
| 02005 | NWT PH-GX Soil C7-C12 | n.a. | 1 | 0.3 | 24.97 |

| | | | | | |
|----------------------------------|-------------------------------|--------------------------------------|--------------|--------------|---|
| GC Petroleum Hydrocarbons | | ECY 97-602 NWT PH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 5.2 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 13 | 1 |

| | | | | | |
|---------------|------|--------------------------------------|--------------|--------------|---|
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 2.83 | 0.639 | 1 |

| | | | | | |
|---|----------|--------------------------------------|----------|----------|---|
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 23.0 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|--------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 14:30 | Linda C Pape | 0.74 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 10:00 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 10:00 | Client Supplied | 1 |

Sample Description: MW-20-S-30.0-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126291
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 10:00

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/10/2019 10:00 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/10/2019 10:00 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 10:00 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/10/2019 10:00 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 01:30 | Jeremy C Giffin | 24.97 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 10:00 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280023A | 08/20/2019 07:23 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:18 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-29-S-20.0-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126292
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 13:13

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.88 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.88 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.88 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.88 |
| GC Volatiles | | ECY 97-602 NWT PH-Gx | mg/kg | mg/kg | |
| 02005 | NWT PH-GX Soil C7-C12 | n.a. | 0.7 | 0.3 | 25.72 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWT PH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.6 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | 13 | 11 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 13.0 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 14:53 | Linda C Pape | 0.88 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:13 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 13:13 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:13 | Client Supplied | 1 |
| 02005 | NWT PH-GX Soil C7-C12 | ECY 97-602 NWT PH-Gx | 1 | 19233A34A | 08/22/2019 02:05 | Jeremy C Giffin | 25.72 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:13 | Client Supplied | n.a. |
| 08272 | NWT PH-Dx soil | ECY 97-602 NWT PH-Dx modified | 1 | 192280023A | 08/20/2019 07:44 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWT PH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-29-S-31.5-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126293
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 13:52

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | 0.002 | 0.0005 | 0.86 |
| 11995 | Ethylbenzene | 100-41-4 | 0.0004 | 0.0004 | 0.86 |
| 11995 | Toluene | 108-88-3 | 0.0007 | 0.0006 | 0.86 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.86 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | 0.6 | 0.3 | 23.08 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.8 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 12 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 17.2 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 15:16 | Linda C Pape | 0.86 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:52 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 13:52 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:52 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 02:40 | Jeremy C Giffin | 23.08 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:52 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280023A | 08/20/2019 08:06 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: DUP-1-S-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126294
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 14:00

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0004 | 0.79 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.79 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0005 | 0.79 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.79 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | N.D. | 0.3 | 24.4 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.5 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 11 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 11.1 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 15:38 | Linda C Pape | 0.79 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 14:00 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 14:00 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 14:00 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 03:15 | Jeremy C Giffin | 24.4 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 14:00 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280023A | 08/20/2019 08:28 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-29-S-10.5-190810 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126295
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/10/2019 13:30

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.84 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.84 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.84 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.84 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | N.D. | 0.2 | 23.2 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.5 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | 16 | 11 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 11.6 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 16:01 | Linda C Pape | 0.84 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/10/2019 13:30 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:30 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 03:50 | Jeremy C Giffin | 23.2 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/10/2019 13:30 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280023A | 08/20/2019 08:50 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: QA-T1-190812 NA Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: WW 1126296
ELLE Group #: 2059029
Matrix: Water

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/12/2019 14:00

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | | | | |
| | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | | | | |
| | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192331AA | 08/21/2019 16:01 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192331AA | 08/21/2019 16:00 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19228A20A | 08/20/2019 02:38 | Jeremy C Giffin | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19228A20A | 08/20/2019 02:37 | Jeremy C Giffin | 1 |

Sample Description: QA-T2-190812 NA Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: WW 1126297
ELLE Group #: 2059029
Matrix: Water

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/12/2019 14:05

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192331AA | 08/21/2019 16:24 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192331AA | 08/21/2019 16:23 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19228A20A | 08/20/2019 03:05 | Jeremy C Giffin | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19228A20A | 08/20/2019 03:04 | Jeremy C Giffin | 1 |

Sample Description: QA-T3-190812 NA Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: WW 1126298
ELLE Group #: 2059029
Matrix: Water

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/12/2019 14:30

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | | | | |
| | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | | | | |
| | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192331AA | 08/21/2019 16:45 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192331AA | 08/21/2019 16:44 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19228A20A | 08/20/2019 03:32 | Jeremy C Giffin | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19228A20A | 08/20/2019 03:31 | Jeremy C Giffin | 1 |

Sample Description: QA-T4-190812 NA Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: WW 1126299
ELLE Group #: 2059029
Matrix: Water

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/12/2019 14:40

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192331AA | 08/21/2019 17:08 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192331AA | 08/21/2019 17:07 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19228A20A | 08/20/2019 04:00 | Jeremy C Giffin | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19228A20A | 08/20/2019 03:59 | Jeremy C Giffin | 1 |

Sample Description: QA-T5-190812 NA Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: WW 1126300
ELLE Group #: 2059029
Matrix: Water

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/12/2019 15:40

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | | | | |
| | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | | | | |
| | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192332AA | 08/21/2019 16:33 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192332AA | 08/21/2019 16:32 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19228A20A | 08/20/2019 04:27 | Jeremy C Giffin | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19228A20A | 08/20/2019 04:26 | Jeremy C Giffin | 1 |

Sample Description: QA-T6-190812 NA Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: WW 1126301
ELLE Group #: 2059029
Matrix: Water

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/12/2019 15:50

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192332AA | 08/21/2019 16:55 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192332AA | 08/21/2019 16:54 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19228A20A | 08/20/2019 04:54 | Jeremy C Giffin | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19228A20A | 08/20/2019 04:53 | Jeremy C Giffin | 1 |

Sample Description: MW-23-S-10.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126302
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 11:30

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.83 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.83 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0005 | 0.83 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.83 |
| GC Volatiles | | ECY 97-602 NWT PH-Gx | mg/kg | mg/kg | |
| 02005 | NWT PH-GX Soil C7-C12 | n.a. | 4.0 | 0.3 | 25.01 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWT PH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | 4.5 | 4.3 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | 32 | 11 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 4.40 | 0.461 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 8.3 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192331AA | 08/21/2019 17:01 | Linda C Pape | 0.83 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/08/2019 11:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/08/2019 11:30 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/08/2019 11:30 | Client Supplied | 1 |
| 02005 | NWT PH-GX Soil C7-C12 | ECY 97-602 NWT PH-Gx | 1 | 19233A34A | 08/22/2019 04:25 | Jeremy C Giffin | 25.01 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/08/2019 11:30 | Client Supplied | n.a. |
| 08272 | NWT PH-Dx soil | ECY 97-602 NWT PH-Dx modified | 1 | 192280023A | 08/20/2019 09:12 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWT PH-Dx 06/97 | 1 | 192280023A | 08/16/2019 22:50 | Karen L Beyer | 1 |

Sample Description: MW-23-S-10.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126302
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 11:30

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------------|----------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:40 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013A | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-23-S-25.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126303
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 12:05

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | 0.015 | 0.0005 | 0.8 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | 0.15 | 0.0005 | 0.8 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | 0.0008 | 0.0005 | 0.8 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.8 |
| 11995 | Tetrachloroethene | 127-18-4 | N.D. | 0.0005 | 0.8 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.8 |
| 11995 | Trichloroethene | 79-01-6 | N.D. | 0.0005 | 0.8 |
| 11995 | Vinyl Chloride | 75-01-4 | 0.005 | 0.0006 | 0.8 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.8 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | N.D. | 0.3 | 23.83 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.7 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 12 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 3.17 | 0.617 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 14.7 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|--------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192331AA | 08/21/2019 17:23 | Linda C Pape | 0.8 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/08/2019 12:05 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/08/2019 12:05 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/08/2019 12:05 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/08/2019 12:05 | Client Supplied | 1 |

Sample Description: MW-23-S-25.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126303
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 12:05

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/08/2019 12:05 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/08/2019 12:05 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 05:35 | Jeremy C Giffin | 23.83 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/08/2019 12:05 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 14:03 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:43 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-23-S-30.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126304
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 12:20

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0006 | 0.85 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0005 | 0.85 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0007 | 0.85 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.002 | 0.85 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | N.D. | 0.4 | 29.5 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 5.4 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 40 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 13.0 | 2.77 | 5 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 26.8 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192331AA | 08/21/2019 17:46 | Linda C Pape | 0.85 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/08/2019 12:20 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/08/2019 12:20 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 06:10 | Jeremy C Giffin | 29.5 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/08/2019 12:20 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192340018A | 08/24/2019 02:51 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 2 | 192340018A | 08/22/2019 23:00 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:46 | Lisa J Cooke | 5 |

Sample Description: MW-23-S-30.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126304
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 12:20

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------------|----------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-22-S-10.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126305
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 15:20

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0004 | 0.84 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.84 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0005 | 0.84 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.84 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | N.D. | 0.2 | 24.7 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.2 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 10 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 2.89 | 0.598 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 5.3 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|------------------------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192331AA | 08/21/2019 18:09 | Linda C Pape | 0.84 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:20 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/08/2019 15:20 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:20 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 06:45 | Jeremy C Giffin | 24.7 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:20 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 14:49 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |

Sample Description: MW-22-S-10.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126305
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 15:20

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------------|----------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:49 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-22-S-23.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126306
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 15:30

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | 0.001 | 0.0004 | 0.73 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | 0.087 | 0.0004 | 0.73 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.0004 | 0.73 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0003 | 0.73 |
| 11995 | Tetrachloroethene | 127-18-4 | 0.001 | 0.0004 | 0.73 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0005 | 0.73 |
| 11995 | Trichloroethene | 79-01-6 | 0.006 | 0.0004 | 0.73 |
| 11995 | Vinyl Chloride | 75-01-4 | N.D. | 0.0005 | 0.73 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.73 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | N.D. | 0.2 | 22.6 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.7 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 12 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 3.18 | 0.584 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 16.5 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|--------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192331AA | 08/21/2019 18:31 | Linda C Pape | 0.73 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/08/2019 15:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/08/2019 15:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/08/2019 15:30 | Client Supplied | 1 |

Sample Description: MW-22-S-23.0-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126306
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 15:30

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:30 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/08/2019 15:30 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 07:20 | Jeremy C Giffin | 22.6 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:30 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 15:11 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:53 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-22-S-28.5-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126307
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 15:45

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0006 | 0.85 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.0006 | 0.85 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.0006 | 0.85 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.85 |
| 11995 | Tetrachloroethene | 127-18-4 | N.D. | 0.0006 | 0.85 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0007 | 0.85 |
| 11995 | Trichloroethene | 79-01-6 | N.D. | 0.0006 | 0.85 |
| 11995 | Vinyl Chloride | 75-01-4 | N.D. | 0.0007 | 0.85 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.002 | 0.85 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | N.D. | 0.3 | 26.13 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 5.2 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 13 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 9.79 | 2.69 | 5 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 24.0 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|--------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192331AA | 08/21/2019 18:54 | Linda C Pape | 0.85 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:45 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/08/2019 15:45 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/08/2019 15:45 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/08/2019 15:45 | Client Supplied | 1 |

Sample Description: MW-22-S-28.5-190808 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126307
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05

Collection Date/Time: 08/08/2019 15:45

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:45 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/08/2019 15:45 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 07:55 | Jeremy C Giffin | 26.13 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/08/2019 15:45 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 16:19 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:56 | Lisa J Cooke | 5 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: QA-O1-190808 Grab Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: WW 1126308
ELLE Group #: 2059029
Matrix: Water

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/08/2019 17:20

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | | | | |
| | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | | | | |
| | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192332AA | 08/21/2019 17:17 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192332AA | 08/21/2019 17:16 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19228A20A | 08/20/2019 05:22 | Jeremy C Giffin | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19228A20A | 08/20/2019 05:21 | Jeremy C Giffin | 1 |

Sample Description: QA-O2-190809 Grab Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: WW 1126309
ELLE Group #: 2059029
Matrix: Water

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 08:10

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | | | | |
| | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | | | | |
| | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192332AA | 08/21/2019 17:39 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192332AA | 08/21/2019 17:38 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19228A20A | 08/20/2019 05:49 | Jeremy C Giffin | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19228A20A | 08/20/2019 05:48 | Jeremy C Giffin | 1 |

Sample Description: MW-21-S-10.0-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126310
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 09:30

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.84 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.84 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0005 | 0.84 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.84 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | 0.9 | 0.2 | 23.67 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.3 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 11 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 8.70 | 0.570 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 7.7 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|------------------------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 16:23 | Linda C Pape | 0.84 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/09/2019 09:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/09/2019 09:30 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/09/2019 09:30 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 08:30 | Jeremy C Giffin | 23.67 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/09/2019 09:30 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 16:42 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |

Sample Description: MW-21-S-10.0-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126310
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 09:30

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------------|----------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 06:59 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-21-S-15.0-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126311
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 09:45

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0005 | 0.95 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.95 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.95 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.95 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | 1 | 0.3 | 27.35 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.3 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 11 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 3.64 | 0.451 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 7.6 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|------------------------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 16:46 | Linda C Pape | 0.95 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/09/2019 09:45 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/09/2019 09:45 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/09/2019 09:45 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 09:05 | Jeremy C Giffin | 27.35 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/09/2019 09:45 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 17:04 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |

Sample Description: MW-21-S-15.0-190809 Grab Soil
 Facility# 90129
 4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126311
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 09:45

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------------|----------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 07:08 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-21-S-20.0-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126312
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 10:00

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|---|-------------------------------|--------------------------------------|--------------|----------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | mg/kg | mg/kg | |
| 11995 | Benzene | 71-43-2 | N.D. | 0.0004 | 0.7 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0003 | 0.7 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0005 | 0.7 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.7 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | mg/kg | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | 1.7 | 0.2 | 23.04 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | mg/kg | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.7 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 12 | 1 |
| Metals | | SW-846 6010D Rev.4, July 2014 | mg/kg | mg/kg | |
| 06955 | Lead | 7439-92-1 | 4.16 | 0.644 | 1 |
| Wet Chemistry | | SM 2540 G-2011 %Moisture Calc | % | % | |
| 00111 | Moisture | n.a. | 14.5 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|------------------------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 17:09 | Linda C Pape | 0.7 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:00 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/09/2019 10:00 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:00 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 09:40 | Jeremy C Giffin | 23.04 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:00 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 17:26 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |

Sample Description: MW-21-S-20.0-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126312
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 10:00

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------------|----------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 07:12 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-21-S-25.0-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126313
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submission Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 10:15

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|------------------------|--------------------------|------------|---------------------|----------------------------|-----------------|
| GC/MS Volatiles | | | SW-846 8260C | mg/kg | |
| 11995 | Benzene | 71-43-2 | 0.0008 | 0.0004 | 0.75 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | 0.003 | 0.0004 | 0.75 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.0004 | 0.75 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0003 | 0.75 |
| 11995 | Tetrachloroethene | 127-18-4 | 0.032 | 0.0004 | 0.75 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0005 | 0.75 |
| 11995 | Trichloroethene | 79-01-6 | 0.063 | 0.0004 | 0.75 |
| 11995 | Vinyl Chloride | 75-01-4 | N.D. | 0.0005 | 0.75 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.75 |

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: cis-1,2-Dichloroethene

| | | | | | |
|----------------------------|------------------------|----------|-------------------------|--------------|---|
| GC/MS Semivolatiles | | | SW-846 8270D SIM | mg/kg | |
| 12969 | Benzo(a)anthracene | 56-55-3 | N.D. | 0.0008 | 1 |
| 12969 | Benzo(a)pyrene | 50-32-8 | 0.0008 | 0.0008 | 1 |
| 12969 | Benzo(b)fluoranthene | 205-99-2 | 0.001 | 0.0008 | 1 |
| 12969 | Benzo(k)fluoranthene | 207-08-9 | N.D. | 0.0008 | 1 |
| 12969 | Chrysene | 218-01-9 | 0.001 | 0.0004 | 1 |
| 12969 | Dibenz(a,h)anthracene | 53-70-3 | N.D. | 0.0008 | 1 |
| 12969 | Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D. | 0.0008 | 1 |

| | | | | | |
|---------------------|----------------------|------|----------------------------|--------------|-------|
| GC Volatiles | | | ECY 97-602 NWTPH-Gx | mg/kg | |
| 02005 | NWTPH-GX Soil C7-C12 | n.a. | 0.5 | 0.2 | 22.61 |

| | | | | | |
|----------------------------------|-------------------------------|------|-------------------------------------|--------------|---|
| GC Petroleum Hydrocarbons | | | ECY 97-602 NWTPH-Dx modified | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.6 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 11 | 1 |

| | | | | | |
|---------------|------|-----------|--------------------------------------|--------------|---|
| Metals | | | SW-846 6010D Rev.4, July 2014 | mg/kg | |
| 06955 | Lead | 7439-92-1 | 4.49 | 0.569 | 1 |

| | | | | | |
|---|----------|------|--------------------------------------|----------|---|
| Wet Chemistry | | | SM 2540 G-2011 %Moisture Calc | % | |
| 00111 | Moisture | n.a. | 13.5 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Sample Description: MW-21-S-25.0-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126313
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 10:15

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 17:31 | Linda C Pape | 0.75 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:15 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/09/2019 10:15 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/09/2019 10:15 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/09/2019 10:15 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:15 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/09/2019 10:15 | Client Supplied | 1 |
| 12969 | SIM SVOAs 8270D (microwave) | SW-846 8270D SIM | 1 | 19231SLE026 | 08/21/2019 00:47 | Ashley R Transue | 1 |
| 10811 | BNA Soil Microwave SIM | SW-846 3546 | 1 | 19231SLE026 | 08/20/2019 07:00 | Joshua S Ruth | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 10:15 | Jeremy C Giffin | 22.61 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:15 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 17:48 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 07:15 | Lisa J Cooke | 1 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Sample Description: MW-21-S-26.5-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126314
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 10:30

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit | Dilution Factor |
|------------------------|--------------------------|------------|---------------------|----------------------------|-----------------|
| GC/MS Volatiles | | | SW-846 8260C | mg/kg | |
| 11995 | Benzene | 71-43-2 | 0.003 | 0.0005 | 0.84 |
| 11995 | cis-1,2-Dichloroethene | 156-59-2 | 0.019 | 0.0005 | 0.84 |
| 11995 | trans-1,2-Dichloroethene | 156-60-5 | 0.0007 | 0.0005 | 0.84 |
| 11995 | Ethylbenzene | 100-41-4 | N.D. | 0.0004 | 0.84 |
| 11995 | Tetrachloroethene | 127-18-4 | 0.18 | 0.0005 | 0.84 |
| 11995 | Toluene | 108-88-3 | N.D. | 0.0006 | 0.84 |
| 11995 | Trichloroethene | 79-01-6 | 0.38 E | 0.0005 | 0.84 |
| 11995 | Vinyl Chloride | 75-01-4 | N.D. | 0.0006 | 0.84 |
| 11995 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | 0.84 |

The concentration reported for Trichloroethene is estimated since it exceeds the calibration range of the instrument. A further diluted analysis was performed from a previously opened container with headspace and/or outside of the method holding time. The result for Trichloroethene is 1.3mg/kg.

| | | | | | |
|---------------------|-----------------------|------|-----------------------------|--------------|-------|
| GC Volatiles | | | ECY 97-602 NWT PH-Gx | mg/kg | |
| 02005 | NWT PH-GX Soil C7-C12 | n.a. | 0.9 | 0.3 | 23.79 |

| | | | | | |
|----------------------------------|-------------------------------|------|--------------------------------------|--------------|---|
| GC Petroleum Hydrocarbons | | | ECY 97-602 NWT PH-Dx modified | mg/kg | |
| 08272 | Diesel Range Organics C12-C24 | n.a. | N.D. | 4.6 | 1 |
| 08272 | Heavy Range Organics C24-C40 | n.a. | N.D. | 11 | 1 |

| | | | | | |
|---------------|------|-----------|--------------------------------------|--------------|---|
| Metals | | | SW-846 6010D Rev.4, July 2014 | mg/kg | |
| 06955 | Lead | 7439-92-1 | 7.44 | 2.62 | 5 |

| | | | | | |
|---|----------|------|--------------------------------------|----------|---|
| Wet Chemistry | | | SM 2540 G-2011 %Moisture Calc | % | |
| 00111 | Moisture | n.a. | 13.9 | 0.50 | 1 |
| Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis. | | | | | |

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|--------------|--------|--------------|------------------------|-----------------|-----------------|
| 11995 | VOCs- Solid by 8260C/D | SW-846 8260C | 1 | A192351AA | 08/23/2019 17:54 | Linda C Pape | 0.84 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 2 | 201923154590 | 08/09/2019 10:30 | Client Supplied | 1 |

Sample Description: MW-21-S-26.5-190809 Grab Soil
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: SW 1126314
ELLE Group #: 2059029
Matrix: Soil

Project Name: 90129

Submittal Date/Time: 08/14/2019 10:05
Collection Date/Time: 08/09/2019 10:30

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|--------------------|-----------------|
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 3 | 201923154590 | 08/09/2019 10:30 | Client Supplied | 1 |
| 02392 | GC/MS - Field Preserved NaHSO4 | SW-846 5035A | 4 | 201923154590 | 08/09/2019 10:30 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:30 | Client Supplied | 1 |
| 07579 | GC/MS-5g Field Preserv.MeOH-NC | SW-846 5035A | 2 | 201923154590 | 08/09/2019 10:30 | Client Supplied | 1 |
| 02005 | NWTPH-GX Soil C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19233A34A | 08/22/2019 10:50 | Jeremy C Giffin | 23.79 |
| 06647 | GC-5g Field Preserved MeOH | SW-846 5035A | 1 | 201923154590 | 08/09/2019 10:30 | Client Supplied | n.a. |
| 08272 | NWTPH-Dx soil | ECY 97-602 NWTPH-Dx modified | 1 | 192280034A | 08/20/2019 18:10 | Bridget Kovacs | 1 |
| 11234 | WA DRO NW DX Soils (Non SG) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192280034A | 08/18/2019 21:10 | Karen L Beyer | 1 |
| 06955 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192311404903 | 08/22/2019 07:18 | Lisa J Cooke | 5 |
| 14049 | ICP/ICPMS-SW, 3050B - U345 | SW-846 3050B | 1 | 192311404903 | 08/19/2019 06:25 | Annamaria Kuhns | 1 |
| 00111 | Moisture | SM 2540 G-2011 %Moisture Calc | 1 | 19232820013B | 08/22/2019 10:41 | William C Schwebel | 1 |

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

| Analysis Name | Result | MDL |
|---------------------------|---|--------------|
| | mg/kg | mg/kg |
| Batch number: A192331AA | Sample number(s): 1126302-1126307 | |
| Benzene | N.D. | 0.0005 |
| cis-1,2-Dichloroethene | N.D. | 0.0005 |
| trans-1,2-Dichloroethene | N.D. | 0.0005 |
| Ethylbenzene | N.D. | 0.0004 |
| Tetrachloroethene | N.D. | 0.0005 |
| Toluene | N.D. | 0.0006 |
| Trichloroethene | N.D. | 0.0005 |
| Vinyl Chloride | N.D. | 0.0006 |
| Xylene (Total) | N.D. | 0.001 |
| Batch number: A192351AA | Sample number(s): 1126287-1126295,1126310-1126314 | |
| Benzene | N.D. | 0.0005 |
| cis-1,2-Dichloroethene | N.D. | 0.0005 |
| trans-1,2-Dichloroethene | N.D. | 0.0005 |
| Ethylbenzene | N.D. | 0.0004 |
| Tetrachloroethene | N.D. | 0.0005 |
| Toluene | N.D. | 0.0006 |
| Trichloroethene | N.D. | 0.0005 |
| Vinyl Chloride | N.D. | 0.0006 |
| Xylene (Total) | N.D. | 0.001 |
| | ug/l | ug/l |
| Batch number: F192331AA | Sample number(s): 1126296-1126299 | |
| Benzene | N.D. | 0.2 |
| Ethylbenzene | N.D. | 0.4 |
| Toluene | N.D. | 0.2 |
| Xylene (Total) | N.D. | 1 |
| Batch number: F192332AA | Sample number(s): 1126300-1126301,1126308-1126309 | |
| Benzene | N.D. | 0.2 |
| Ethylbenzene | N.D. | 0.4 |
| Toluene | N.D. | 0.2 |
| Xylene (Total) | N.D. | 1 |
| | mg/kg | mg/kg |
| Batch number: 19231SLE026 | Sample number(s): 1126313 | |
| Benzo(a)anthracene | N.D. | 0.0007 |
| Benzo(a)pyrene | N.D. | 0.0007 |
| Benzo(b)fluoranthene | N.D. | 0.0007 |
| Benzo(k)fluoranthene | N.D. | 0.0007 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

Method Blank (continued)

| Analysis Name | Result | MDL |
|---|---|-----------------|
| | mg/kg | mg/kg |
| Chrysene | N.D. | 0.0003 |
| Dibenz(a,h)anthracene | N.D. | 0.0007 |
| Indeno(1,2,3-cd)pyrene | N.D. | 0.0007 |
| Batch number: 19233A34A NWTPH-GX Soil C7-C12 | Sample number(s): 1126287-1126295,1126302-1126307,1126310-1126314 N.D. | 0.2 |
| | ug/l | ug/l |
| Batch number: 19228A20A NWTPH-Gx water C7-C12 | Sample number(s): 1126296-1126301,1126308-1126309 N.D. | 19 |
| | mg/kg | mg/kg |
| Batch number: 192280023A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40 | Sample number(s): 1126287-1126295,1126302 N.D. | 4.0 10 |
| Batch number: 192280034A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40 | Sample number(s): 1126303,1126305-1126307,1126310-1126314 N.D. | 4.0 35 10 |
| Batch number: 192340018A Diesel Range Organics C12-C24 Heavy Range Organics C24-C40 | Sample number(s): 1126304 N.D. | 4.0 30 |
| Batch number: 192311404903 Lead | Sample number(s): 1126287,1126289-1126291,1126302-1126307,1126310-1126314 N.D. | 0.600 |

LCS/LCSD

| Analysis Name | LCS Spike Added | LCS Conc | LCSD Spike Added | LCSD Conc | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|--------------------------|---|----------|------------------|-----------|----------|-----------|-----------------|-----|---------|
| | mg/kg | mg/kg | mg/kg | mg/kg | | | | | |
| Batch number: A192331AA | Sample number(s): 1126302-1126307 | | | | | | | | |
| Benzene | 0.0200 | 0.0219 | 0.0200 | 0.0218 | 109 | 109 | 80-120 | 0 | 30 |
| cis-1,2-Dichloroethene | 0.0200 | 0.0232 | 0.0200 | 0.0230 | 116 | 115 | 80-125 | 1 | 30 |
| trans-1,2-Dichloroethene | 0.0200 | 0.0228 | 0.0200 | 0.0228 | 114 | 114 | 80-126 | 0 | 30 |
| Ethylbenzene | 0.0200 | 0.0217 | 0.0200 | 0.0219 | 108 | 109 | 78-120 | 1 | 30 |
| Tetrachloroethene | 0.0200 | 0.0229 | 0.0200 | 0.0229 | 114 | 115 | 73-120 | 0 | 30 |
| Toluene | 0.0200 | 0.0215 | 0.0200 | 0.0218 | 107 | 109 | 80-120 | 1 | 30 |
| Trichloroethene | 0.0200 | 0.0221 | 0.0200 | 0.0221 | 111 | 111 | 80-120 | 0 | 30 |
| Vinyl Chloride | 0.0200 | 0.0202 | 0.0200 | 0.0198 | 101 | 99 | 52-120 | 2 | 30 |
| Xylene (Total) | 0.0600 | 0.0658 | 0.0600 | 0.0660 | 110 | 110 | 75-120 | 0 | 30 |
| Batch number: A192351AA | Sample number(s): 1126287-1126295,1126310-1126314 | | | | | | | | |
| Benzene | 0.0200 | 0.0224 | 0.0200 | 0.0224 | 112 | 112 | 80-120 | 0 | 30 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

LCS/LCSD (continued)

| Analysis Name | LCS Spike Added mg/kg | LCS Conc mg/kg | LCSD Spike Added mg/kg | LCSD Conc mg/kg | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-------------------------------|---|-------------------|---------------------------|--------------------|----------|-----------|-----------------|-----|---------|
| cis-1,2-Dichloroethene | 0.0200 | 0.0250 | 0.0200 | 0.0251 | 125 | 126* | 80-125 | 0 | 30 |
| trans-1,2-Dichloroethene | 0.0200 | 0.0222 | 0.0200 | 0.0221 | 111 | 110 | 80-126 | 1 | 30 |
| Ethylbenzene | 0.0200 | 0.0223 | 0.0200 | 0.0228 | 112 | 114 | 78-120 | 2 | 30 |
| Tetrachloroethene | 0.0200 | 0.0234 | 0.0200 | 0.0239 | 117 | 120 | 73-120 | 2 | 30 |
| Toluene | 0.0200 | 0.0219 | 0.0200 | 0.0220 | 109 | 110 | 80-120 | 1 | 30 |
| Trichloroethene | 0.0200 | 0.0225 | 0.0200 | 0.0224 | 112 | 112 | 80-120 | 0 | 30 |
| Vinyl Chloride | 0.0200 | 0.0200 | 0.0200 | 0.0202 | 100 | 101 | 52-120 | 1 | 30 |
| Xylene (Total) | 0.0600 | 0.0685 | 0.0600 | 0.0692 | 114 | 115 | 75-120 | 1 | 30 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: F192331AA | Sample number(s): 1126296-1126299 | | | | | | | | |
| Benzene | 20 | 19.08 | | | 95 | | 80-120 | | |
| Ethylbenzene | 20 | 19.18 | | | 96 | | 80-120 | | |
| Toluene | 20 | 19.47 | | | 97 | | 80-120 | | |
| Xylene (Total) | 60 | 57.17 | | | 95 | | 80-120 | | |
| Batch number: F192332AA | Sample number(s): 1126300-1126301,1126308-1126309 | | | | | | | | |
| Benzene | 20 | 19.52 | | | 98 | | 80-120 | | |
| Ethylbenzene | 20 | 19.06 | | | 95 | | 80-120 | | |
| Toluene | 20 | 19.59 | | | 98 | | 80-120 | | |
| Xylene (Total) | 60 | 56.85 | | | 95 | | 80-120 | | |
| | mg/kg | mg/kg | mg/kg | mg/kg | | | | | |
| Batch number: 19231SLE026 | Sample number(s): 1126313 | | | | | | | | |
| Benzo(a)anthracene | 0.0333 | 0.0265 | | | 79 | | 61-116 | | |
| Benzo(a)pyrene | 0.0333 | 0.0286 | | | 86 | | 67-124 | | |
| Benzo(b)fluoranthene | 0.0333 | 0.0275 | | | 82 | | 68-128 | | |
| Benzo(k)fluoranthene | 0.0333 | 0.0279 | | | 84 | | 61-119 | | |
| Chrysene | 0.0333 | 0.0266 | | | 80 | | 63-105 | | |
| Dibenz(a,h)anthracene | 0.0333 | 0.0298 | | | 89 | | 49-143 | | |
| Indeno(1,2,3-cd)pyrene | 0.0333 | 0.0301 | | | 90 | | 53-144 | | |
| | mg/kg | mg/kg | mg/kg | mg/kg | | | | | |
| Batch number: 19233A34A | Sample number(s): 1126287-1126295,1126302-1126307,1126310-1126314 | | | | | | | | |
| NWTPH-GX Soil C7-C12 | 11 | 10.26 | 11 | 10.22 | 93 | 93 | 55-145 | 0 | 30 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 19228A20A | Sample number(s): 1126296-1126301,1126308-1126309 | | | | | | | | |
| NWTPH-Gx water C7-C12 | 1100 | 1112.16 | 1100 | 1131.65 | 101 | 103 | 64-131 | 2 | 30 |
| | mg/kg | mg/kg | mg/kg | mg/kg | | | | | |
| Batch number: 192280023A | Sample number(s): 1126287-1126295,1126302 | | | | | | | | |
| Diesel Range Organics C12-C24 | 133.4 | 107.12 | | | 80 | | 61-115 | | |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

LCS/LCSD (continued)

| Analysis Name | LCS Spike Added mg/kg | LCS Conc mg/kg | LCSD Spike Added mg/kg | LCSD Conc mg/kg | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|----------------|------------------------|-----------------|----------|-----------|-----------------|-----|---------|
| Batch number: 192280034A Diesel Range Organics C12-C24 | Sample number(s): 1126303,1126305-1126307,1126310-1126314 | | | | 75 | | 61-115 | | |
| Batch number: 192340018A Diesel Range Organics C12-C24 | Sample number(s): 1126304 | | | | 77 | | 61-115 | | |
| Batch number: 192311404903 Lead | 15 | 16.27 | | | 108 | | 90-115 | | |
| | % | % | % | % | | | | | |
| Batch number: 19232820013A Moisture | Sample number(s): 1126287-1126295,1126302 | | | | 100 | | 99-101 | | |
| Batch number: 19232820013B Moisture | Sample number(s): 1126303-1126307,1126310-1126314 | | | | 100 | | 99-101 | | |

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Analysis Name | Unspiked Conc mg/kg | MS Spike Added mg/kg | MS Conc mg/kg | MSD Spike Added mg/kg | MSD Conc mg/kg | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|---|--|----------------------|---------------|-----------------------|----------------|---------|----------|---------------|-----|---------|
| Batch number: 192280023A Diesel Range Organics C12-C24 | Sample number(s): 1126287-1126295,1126302 UNSPK: 1126289 | | | | | 78 | | 61-115 | | |
| Batch number: 192280034A Diesel Range Organics C12-C24 | Sample number(s): 1126303,1126305-1126307,1126310-1126314 UNSPK: 1126306 | | | | | 76 | | 61-115 | | |
| Batch number: 192340018A Diesel Range Organics C12-C24 | Sample number(s): 1126304 UNSPK: 1126304 | | | | | 71 | | 61-115 | | |
| Batch number: 192311404903 Lead | 3.78 | 13.89 | 16.65 | 11.28 | 13.23 | 93 | 84 | 75-125 | 23* | 20 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | BKG Conc mg/kg | DUP Conc mg/kg | DUP RPD | DUP RPD Max |
|-------------------------------|--|-------------------|---------|-------------|
| Batch number: 192280023A | Sample number(s): 1126287-1126295,1126302 BKG: 1126289 | | | |
| Diesel Range Organics C12-C24 | N.D. | N.D. | 0 (1) | 20 |
| Heavy Range Organics C24-C40 | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 192280034A | Sample number(s): 1126303,1126305-1126307,1126310-1126314 BKG: 1126306 | | | |
| Diesel Range Organics C12-C24 | N.D. | N.D. | 0 (1) | 20 |
| Heavy Range Organics C24-C40 | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 192340018A | Sample number(s): 1126304 BKG: 1126304 | | | |
| Diesel Range Organics C12-C24 | N.D. | N.D. | 0 (1) | 20 |
| Heavy Range Organics C24-C40 | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 192311404903 | Sample number(s): 1126287,1126289-1126291,1126302-1126307,1126310-1126314 BKG: 1126287 | | | |
| Lead | 3.78 | 2.77 | 31* (1) | 20 |
| | % | % | | |
| Batch number: 19232820013A | Sample number(s): 1126287-1126295,1126302 BKG: 1126293 | | | |
| Moisture | 17.24 | 15.61 | 10* | 5 |
| Batch number: 19232820013B | Sample number(s): 1126303-1126307,1126310-1126314 BKG: 1126305 | | | |
| Moisture | 5.32 | 6.01 | 12* | 5 |

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260C/D
Batch number: A192331AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1126302 | 102 | 111 | 99 | 98 |
| 1126303 | 102 | 108 | 99 | 97 |
| 1126304 | 102 | 106 | 108 | 83 |
| 1126305 | 101 | 108 | 98 | 98 |
| 1126306 | 102 | 111 | 98 | 97 |
| 1126307 | 103 | 113 | 97 | 100 |
| Blank | 101 | 102 | 98 | 100 |
| LCS | 103 | 103 | 99 | 100 |
| LCSD | 101 | 104 | 99 | 100 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260C/D
Batch number: A192331AA

Limits: 50-141 54-135 52-141 50-131

Analysis Name: VOCs- Solid by 8260C/D
Batch number: A192351AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1126287 | 102 | 109 | 97 | 97 |
| 1126288 | 104 | 108 | 97 | 92 |
| 1126289 | 102 | 107 | 97 | 96 |
| 1126290 | 103 | 109 | 101 | 89 |
| 1126291 | 103 | 107 | 97 | 95 |
| 1126292 | 104 | 111 | 96 | 97 |
| 1126293 | 103 | 109 | 101 | 90 |
| 1126294 | 103 | 109 | 96 | 96 |
| 1126295 | 103 | 108 | 97 | 96 |
| 1126310 | 103 | 108 | 97 | 97 |
| 1126311 | 102 | 105 | 97 | 95 |
| 1126312 | 105 | 114 | 95 | 99 |
| 1126313 | 103 | 108 | 97 | 94 |
| 1126314 | 104 | 108 | 97 | 93 |
| Blank | 102 | 105 | 96 | 97 |
| LCS | 102 | 104 | 97 | 98 |
| LCSD | 102 | 102 | 98 | 99 |
| Limits: | 50-141 | 54-135 | 52-141 | 50-131 |

Analysis Name: BTEX 8260C
Batch number: F192331AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1126296 | 91 | 94 | 102 | 98 |
| 1126297 | 92 | 97 | 102 | 100 |
| 1126298 | 92 | 97 | 102 | 98 |
| 1126299 | 92 | 94 | 101 | 98 |
| Blank | 93 | 94 | 101 | 98 |
| LCS | 92 | 97 | 103 | 99 |
| Limits: | 80-120 | 80-120 | 80-120 | 80-120 |

Analysis Name: BTEX 8260C
Batch number: F192332AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1126300 | 92 | 95 | 103 | 98 |
| 1126301 | 91 | 98 | 102 | 98 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 8260C
Batch number: F192332AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1126308 | 91 | 97 | 102 | 99 |
| 1126309 | 90 | 96 | 103 | 99 |
| Blank | 92 | 94 | 103 | 99 |
| LCS | 91 | 99 | 104 | 99 |
| Limits: | 80-120 | 80-120 | 80-120 | 80-120 |

Analysis Name: SIM SVOAs 8270D (microwave)
Batch number: 19231SLE026

| | Fluoranthene-d10 | Benzo(a)pyrene-d12 | 1-Methylnaphthalene-d10 |
|---------|------------------|--------------------|-------------------------|
| 1126313 | 66 | 62 | 60 |
| Blank | 57 | 57 | 50 |
| LCS | 66 | 62 | 62 |
| Limits: | 34-135 | 28-124 | 27-107 |

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 19228A20A

| | Trifluorotoluene-F |
|---------|--------------------|
| 1126296 | 85 |
| 1126297 | 86 |
| 1126298 | 87 |
| 1126299 | 86 |
| 1126300 | 84 |
| 1126301 | 85 |
| 1126308 | 87 |
| 1126309 | 86 |
| Blank | 87 |
| LCS | 96 |
| LCSD | 95 |
| Limits: | 50-150 |

Analysis Name: NWTPH-GX Soil C7-C12
Batch number: 19233A34A

| | Trifluorotoluene-F |
|---------|--------------------|
| 1126287 | 70 |
| 1126288 | 74 |
| 1126289 | 77 |
| 1126290 | 60 |
| 1126291 | 59 |
| 1126292 | 68 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-GX Soil C7-C12
Batch number: 19233A34A

| | Trifluorotoluene-F |
|---------|--------------------|
| 1126293 | 72 |
| 1126294 | 72 |
| 1126295 | 77 |
| 1126302 | 88 |
| 1126303 | 69 |
| 1126304 | 62 |
| 1126305 | 71 |
| 1126306 | 74 |
| 1126307 | 61 |
| 1126310 | 71 |
| 1126311 | 88 |
| 1126312 | 75 |
| 1126313 | 72 |
| 1126314 | 75 |
| Blank | 93 |
| LCS | 104 |
| LCSD | 98 |

Limits: 50-150

Analysis Name: NWTPH-Dx soil
Batch number: 192280023A

| | Orthoterphenyl |
|---------|----------------|
| 1126287 | 110 |
| 1126288 | 111 |
| 1126289 | 114 |
| 1126290 | 106 |
| 1126291 | 105 |
| 1126292 | 104 |
| 1126293 | 106 |
| 1126294 | 110 |
| 1126295 | 112 |
| 1126302 | 114 |
| Blank | 111 |
| DUP | 113 |
| LCS | 117 |
| MS | 113 |

Limits: 50-150

Analysis Name: NWTPH-Dx soil
Batch number: 192280034A

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:20

Group Number: 2059029

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx soil
Batch number: 192280034A

| | Orthoterphenyl |
|---------|----------------|
| 1126303 | 109 |
| 1126305 | 108 |
| 1126306 | 108 |
| 1126307 | 81 |
| 1126310 | 100 |
| 1126311 | 107 |
| 1126312 | 106 |
| 1126313 | 108 |
| 1126314 | 98 |
| Blank | 111 |
| DUP | 105 |
| LCS | 113 |
| MS | 112 |

Limits: 50-150

Analysis Name: NWTPH-Dx soil
Batch number: 192340018A

| | Orthoterphenyl |
|---------|----------------|
| 1126304 | 98 |
| Blank | 105 |
| DUP | 94 |
| LCS | 114 |
| MS | 103 |

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 11250 For Eurofins Lancaster Laboratories Environmental use only
Group # 2059029 Sample # 1126282-314
Instructions on reverse side correspond with circled numbers.

| 1 Client Information | | | 4 Matrix | | | 5 Analyses Requested | | | | | | | | | | 6 Remarks | | | | | |
|--|---------|-------------|--|--|-----------|--|-------|--|----------------------------|---|------|------------|----------|----------------------------------|-------------------------------------|---|--------|------|-------|--------|---|
| Facility # <u>90129</u> WBS Site Address <u>4700 Brooklyn Ave, Seattle, WA</u> Chevron PM <u>Tim Bishop</u> Lead Consultant Consultant/Office <u>Lands, Bethell, WA</u> Consultant Project Mgr. <u>Ruth Otteman</u> Consultant Phone # <u>425-482-3328</u> Sampler <u>R. Otteman</u> | | | <input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air | | | Total Number of Containers BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphth 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>6010</u> <u>CVOCs 8260</u> | | | | | | | | | | SCR #: _____ <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits | | | | | |
| 2 Sample Identification | | 3 Collected | | Grab | Composite | Soil | Water | Oil | Total Number of Containers | BTEX | 8260 | Oxygenates | NWTPH-Gx | NWTPH-Dx with Silica Gel Cleanup | NWTPH-Dx without Silica Gel Cleanup | WA VPH | WA EPH | Lead | Diss. | Method | |
| Date | Time | Date | Time | | | | | | | | | | | | | | | | | | |
| MW-20-S-10.5-190810 | 8/10/19 | 0850 | | X | | X | | | 11 | / | / | / | / | / | / | / | / | / | / | / | / |
| SUP-1-S-6.5-190810 | | 0850 | | X | | X | | | 7 | / | / | / | / | / | / | / | / | / | / | / | / |
| MW-20-S-12.0-190810 | | 0915 | | X | | X | | | 11 | / | / | / | / | / | / | / | / | / | / | / | / |
| MW-20-S-28.0-190810 | | 0930 | | X | | X | | | 11 | / | / | / | / | / | / | / | / | / | / | / | / |
| MW-20-S-30.0-190810 | | 1000 | | X | | X | | | 11 | / | / | / | / | / | / | / | / | / | / | / | / |
| MW-29-S-20.0-190810 | | 1313 | | X | | X | | | 7 | / | / | / | / | / | / | / | / | / | / | / | / |
| MW-29-S-31.5-190810 | | 1352 | | X | | X | | | 7 | / | / | / | / | / | / | / | / | / | / | / | / |
| DUP-1-DUP-1-S-190810 | | 1400 | | X | | X | | | 6 | / | / | / | / | / | / | / | / | / | / | / | / |
| MW-29-S-10.5-190810 | | 1330 | | X | | X | | | 6 | / | / | / | / | / | / | / | / | / | / | / | / |
| TB-1-190812 | 8-12-19 | 1400 | | X | | | X | | 4 | / | / | / | / | / | / | / | / | / | / | / | / |
| TB-2-190812 | 8-12-19 | 1400 | | X | | | X | | 4 | / | / | / | / | / | / | / | / | / | / | / | / |
| TB-3-190812 | | 1430 | | X | | | X | | 4 | / | / | / | / | / | / | / | / | / | / | / | / |
| TB-4-190812 | | 1440 | | X | | | X | | 4 | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 Turnaround Time Requested (TAT) (please circle) Standard <u>5 day</u> 4 day 72 hour 48 hour 24 hour | | | | Relinquished by <u>[Signature]</u> Date <u>8/12/19</u> Time <u>1400</u> | | Relinquished by _____ Date _____ Time _____ | | Received by _____ Date _____ Time _____ | | Received by _____ Date _____ Time _____ | | | | | | | | | | | |
| 8 Data Package (circle if required) Type I - Full <u> </u> Type VI (Raw Data) _____ | | | | EDD (circle if required) CVX-RTBU-FI_05 (default) _____ Other: _____ | | Relinquished by Commercial Carrier: UPS <u>X</u> FedEx _____ Other _____ Temperature Upon Receipt <u>0.5-1.3</u> °C | | | | Received by <u>[Signature]</u> Date <u>8/14/19</u> Time <u>1005</u> Custody Seals Intact? <u>(Yes)</u> No | | | | | | | | | | | |

Chevron Northwest Region Analysis Request/Chain of Custody



**Lancaster Laboratories
Environmental**

Acct. # 11255 For Eurofins Lancaster Laboratories Environmental use only
 Group # 2059029 Sample # 1120287-314
Instructions on reverse side correspond with circled numbers.

SCR #: 243990

| 1 Client Information | | | | 4 Matrix | | | | 5 Analyses Requested | | | | | | | | | | 6 Remarks | | | | | | | | |
|---|--|-------------|------|---|-----------|---------|---------|--------------------------------|----------------------------|------------------|----------------------------|------------------------------|----------|----------------------------------|-------------------------------------|------------|----------|--------------------------|--------------------------|----------------------------------|-------------------------------------|--------|--------|------|-------|-------|
| Facility # | | WBS | | Sediment | Ground | Surface | Potable | NPDES | Air | Oil | Total Number of Containers | BTEX + MTBE 8021 | 8260 | Naphth | 8260 full scan | Oxygenates | NWTPH-Gx | | | NWTPH-Dx with Silica Gel Cleanup | NWTPH-Dx without Silica Gel Cleanup | WA VPH | WA EPH | Lead | Total | Diss. |
| 90129 | | | | | | | | | | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| Site Address 4700 Brooklyn Ave, Seattle, WA | | | | Soil <input type="checkbox"/> | | | | Water <input type="checkbox"/> | | | | Oil <input type="checkbox"/> | | | | | | | | | | | | | | |
| Chevron PM Tom Bishop | | | | Composite <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | |
| Consultant/Office Leida Bothell, WA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant Project Mgr. Ruth Ottman | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant Phone # 425-422-3328 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler R. Ottman | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Sample Identification | | 3 Collected | | Grab | Composite | Soil | Water | Oil | Total Number of Containers | BTEX + MTBE 8021 | 8260 full scan | Oxygenates | NWTPH-Gx | NWTPH-Dx with Silica Gel Cleanup | NWTPH-Dx without Silica Gel Cleanup | WA VPH | WA EPH | Lead | Total | Diss. | Method | 9 | | | | |
| | | Date | Time | | | | | | | | | | | | | | | | | | | | | | | |
| TB-5-190812 | | 8-12-19 | 1540 | X | | | X | | 4 | | | | | | | | | | | | | | | | | |
| TB-6-190812 | | 8-12-19 | 1550 | X | | | X | | 4 | | | | | | | | | | | | | | | | | |
| Water | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Turnaround Time Requested (TAT) (please circle) | | | | Relinquished by | | | | Date | | Time | | Received by | | | | Date | | Time | | | | | | | | |
| Standard 5 day 4 day | | | | K. Z. Mart | | | | 5-31-19 | | 1330 | | | | | | | | | | | | | | | | |
| 72 hour 48 hour 24 hour | | | | Nutt | | | | 8/12/19 | | 1400 | | | | | | | | | | | | | | | | |
| 8 Data Package (circle if required) | | | | Relinquished by Commercial Carrier: | | | | Received by | | | | Date | | Time | | | | | | | | | | | | |
| Type I - Full | | | | UPS <input checked="" type="checkbox"/> FedEx _____ Other _____ | | | | Custody Seals Intact? (Yes) No | | | | 8/14/19 | | 1005 | | | | | | | | | | | | |
| Type VI (Raw Data) | | | | Temperature Upon Receipt 0.5, 1.3 °C | | | | | | | | | | | | | | | | | | | | | | |

- Results in Dry Weight
- J value reporting needed
- Must meet lowest detection limits possible for 8260 compounds
- 8021 MTBE Confirmation
- Confirm MTBE + Naphthalene
- Confirm highest hit by 8260
- Confirm all hits by 8260
- Run _____ oxy's on highest hit
- Run _____ oxy's on all hits

Chevron Northwest Region Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 11255 For Eurofins Lancaster Laboratories Environmental use only
 Group # 2059029 Sample # 11255-314
 Instructions on reverse side correspond with circled numbers.

SCR #: 246377

| 1 Client Information | | | | 4 Matrix | | | | 5 Analyses Requested | | | | | | | | | | 6 Remarks | | | | | | | | |
|---|--------|-----------------|---|--|-----------|------|-------|--|----------------------------|--------------------|------|---|----------------|------------|----------|----------------------------------|-------------------------------------|---|--------|------|-------|-------|--------|-----------|--|--|
| Facility # <u>90129</u> | | WBS | | <input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Air <input type="checkbox"/> Oil <input type="checkbox"/> Air | | | | Total Number of Containers BTEX + MTBE - 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> Naphthalene <input checked="" type="checkbox"/> 8260 full scan Oxygenates NWTPH-Gx NWTPH-Dx with Silica Gel Cleanup <input type="checkbox"/> NWTPH-Dx without Silica Gel Cleanup <input checked="" type="checkbox"/> WA VPH <input type="checkbox"/> WA EPH <input type="checkbox"/> Lead <input checked="" type="checkbox"/> Total <input checked="" type="checkbox"/> Diss. <input type="checkbox"/> Method <u>60123</u> <u>CVOCs 8270 SIM</u> <u>Carcinogenic PAHs (8270)</u> | | | | | | | | | | <input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm MTBE + Naphthalene <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits | | | | | | | | |
| Site Address <u>4700 Brooklyn Ave, Seattle, WA</u> | | Lead Consultant | | | | | | | | | | | | | | | | | | | | | | | | |
| Chevron PM <u>Tim Bishop</u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant/Office <u>Leidos/Bottell, WA</u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant Project Mgr. <u>Ruth Otteman</u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Consultant Phone # <u>425-482-3328</u> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler <u>R. Otteman</u> | | 3 Composite | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 Sample Identification | | Collected | | Grab | Composite | Soil | Water | Oil | Total Number of Containers | BTEX + MTBE - 8021 | 8260 | Naphthalene | 8260 full scan | Oxygenates | NWTPH-Gx | NWTPH-Dx with Silica Gel Cleanup | NWTPH-Dx without Silica Gel Cleanup | WA VPH | WA EPH | Lead | Total | Diss. | Method | 6 Remarks | | |
| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW-23-S-10.0-190808 | 8/8/19 | 11:30 | X | X | X | X | X | 7 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-23-S-25.0-190808 | | 12:05 | X | X | X | X | X | 11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-23-S-30.0-190808 | | 13:20 | X | X | X | X | X | 7 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-22-S-10.0-190808 | | 15:20 | X | X | X | X | X | 7 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-22-S-23.0-190808 | | 15:30 | X | X | X | X | X | 11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-22-S-28.5-190808 | | 15:45 | X | X | X | X | X | 11 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ER-1-190808 | | 17:20 | X | X | X | X | X | 6 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| ER-2-190809 | 8/9/19 | 08:10 | X | X | X | X | X | 6 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-21-S-10.0-190809 | | 09:30 | X | X | X | X | X | 7 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-21-S-15.0-190809 | | 09:45 | X | X | X | X | X | 7 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-21-S-20.0-190809 | | 10:00 | X | X | X | X | X | 7 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-21-S-25.0-190809 | | 10:15 | X | X | X | X | X | 12 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| MW-21-S-26.5-190809 | | 10:30 | X | X | X | X | X | 10 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 7 Turnaround Time Requested (TAT) (please circle) | | | | Relinquished by | | | | Date | | Time | | Received by | | | | Date | | Time | | | | | | | | |
| <input checked="" type="radio"/> Standard 5 day 4 day 72 hour 48 hour 24 hour | | | | Armande Romano | | | | 7-23-19 | | 11:33 | | | | | | | | | | | | | | | | |
| | | | | Relinquished by | | | | Date | | Time | | Received by | | | | Date | | Time | | | | | | | | |
| | | | | Ruth Otteman | | | | 8/12/19 | | 14:00 | | | | | | | | | | | | | | | | |
| 8 Data Package (circle if required) | | | | Relinquished by Commercial Carrier: | | | | Received by | | | | Date | | Time | | | | | | | | | | | | |
| <input checked="" type="radio"/> Type I - Full Type VI (Raw Data) | | | | <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other | | | | Temperature Upon Receipt <u>0.5-1.3</u> °C | | | | Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No | | | | | | | | | | | | | | |
| <input type="checkbox"/> EDD (circle if required) CVX-RTBU-FI_05 (default) Other: | | | | | | | | | | | | 8/19/19 | | 10:05 | | | | | | | | | | | | |



Client: Leidos

Delivery and Receipt Information

Delivery Method: UPS Arrival Timestamp: 08/13/2019 9:50
 Number of Packages: 4 Number of Projects: 1

Arrival Condition Summary

| | | | |
|--------------------------------------|-----|-------------------------------------|-----|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | N/A |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | N/A |
| Custody Seal Intact: | Yes | Total Trip Blank Qty: | 16 |
| Samples Chilled: | Yes | Trip Blank Type: | HCI |
| Paperwork Enclosed: | No | Air Quality Samples Present: | No |
| Samples Intact: | Yes | | |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | N/A | | |

Unpacked by Simon Nies (25 112) at 13:29 on 08/13/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|----------|----------------|----------------|-------------|----------|--------------|---------------|----------------|
| 1 | DT131 | 0.5 | DT | Wet | Y | Bagged | N |
| 2 | DT131 | 0.8 | DT | Wet | Y | Bagged | N |
| 3 | DT131 | 1.2 | DT | Wet | Y | Bagged | N |
| 4 | DT131 | 0.9 | DT | Wet | Y | Bagged | N |


 Client: Leidos

Paperwork Not Enclosed Details

| <u>Sample ID on Label</u> | <u>No. of Containers</u> | <u>Date on Label</u> | <u>Comments</u> |
|---------------------------|--------------------------|----------------------|-----------------|
| MW-21-S-10.0-190809 | 7 | 8/09/2019 09:30 | |
| MW-21-S-15.0-190809 | 7 | 8/09/2019 09:45 | |
| MW-21-S-20.0-190809 | 7 | 8/09/2019 10:00 | |
| MW-21-S-25.0-190809 | 12 | 8/09/2019 10:15 | |
| MW-21-S-26.5-190809 | 10 | 8/09/2019 10:30 | |
| MW-22-S-10.0-190808 | 7 | 8/08/2019 15:20 | |
| MW-22-S-23.0-190808 | 11 | 8/08/2019 15:30 | |
| MW-22-S-28.5-190808 | 7 | 8/08/2019 15:45 | |
| MW-23-S-10.0-190808 | 7 | 8/08/2019 11:30 | |
| MW-23-S-25.0-190808 | 11 | 8/08/2019 12:05 | |
| MW-22-S-28.5-190808 | 5 | 8/08/2019 15:45 | |
| MW-23-S-30.0-190808 | 7 | 8/08/2019 12:20 | |
| MW-20-S-10.5-190810 | 2 | 8/10/2019 08:50 | |
| MW-20-S-18.0-190810 | 2 | 8/10/2019 09:15 | |
| ER-1-190808 | 6 | 8/08/2019 17:20 | |
| ER-2-190809 | 6 | 8/09/2019 08:10 | |
| TB-1-190812 | 4 | 8/12/2019 14:00 | |
| TB-2-190812 | 4 | 8/12/2019 14:05 | |
| TB-3-190812 | 4 | 8/12/2019 14:30 | |
| TB-4-190812 | 4 | 8/12/2019 14:40 | |



Client: Leidos

Delivery and Receipt Information

Delivery Method: UPS Arrival Timestamp: 08/14/2019 10:05
 Number of Packages: 2 Number of Projects: 1
 State/Province of Origin: WA

Arrival Condition Summary

| | | | |
|--------------------------------------|-----|-------------------------------------|-----|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | Total Trip Blank Qty: | 24 |
| Samples Chilled: | Yes | Trip Blank Type: | HCl |
| Paperwork Enclosed: | Yes | Air Quality Samples Present: | No |
| Samples Intact: | Yes | | |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

Unpacked by Simon Nies (25 112) at 17:44 on 08/14/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|----------|----------------|----------------|-------------|----------|--------------|---------------|----------------|
| 1 | DT131 | 1.3 | DT | Wet | Y | Bagged | N |
| 2 | DT131 | 0.8 | DT | Wet | Y | Bagged | N |

General Comments: Received missing coolers from 8/13/19

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| | | | |
|-------------------------|--|-----------------|-------------------------------|
| BMQL | Below Minimum Quantitation Level | mL | milliliter(s) |
| C | degrees Celsius | MPN | Most Probable Number |
| cfu | colony forming units | N.D. | non-detect |
| CP Units | cobalt-chloroplatinate units | ng | nanogram(s) |
| F | degrees Fahrenheit | NTU | nephelometric turbidity units |
| g | gram(s) | pg/L | picogram/liter |
| IU | International Units | RL | Reporting Limit |
| kg | kilogram(s) | TNTC | Too Numerous To Count |
| L | liter(s) | µg | microgram(s) |
| lb. | pound(s) | µL | microliter(s) |
| m3 | cubic meter(s) | umhos/cm | micromhos/cm |
| meq | milliequivalents | MCL | Maximum Contamination Limit |
| mg | milligram(s) | | |
| < | less than | | |
| > | greater than | | |
| ppm | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. | | |
| ppb | parts per billion | | |
| Dry weight basis | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. | | |

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

| Qualifier | Definition |
|----------------|---|
| C | Result confirmed by reanalysis |
| D1 | Indicates for dual column analyses that the result is reported from column 1 |
| D2 | Indicates for dual column analyses that the result is reported from column 2 |
| E | Concentration exceeds the calibration range |
| K1 | Initial Calibration Blank is above the QC limit and the sample result is ND |
| K2 | Continuing Calibration Blank is above the QC limit and the sample result is ND |
| K3 | Initial Calibration Verification is above the QC limit and the sample result is ND |
| K4 | Continuing Calibration Verification is above the QC limit and the sample result is ND |
| J (or G, I, X) | Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL) |
| P | Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported. |
| P^ | Concentration difference between the primary and confirmation column $> 40\%$. The higher result is reported. |
| U | Analyte was not detected at the value indicated |
| V | Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference. |
| W | The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L. |
| Z | Laboratory Defined - see analysis report |

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Road
San Ramon CA 94583

Report Date: October 17, 2019 13:14

Project: 90129

Account #: 11255
Group Number: 2059759
PO Number: 0015324185
Release Number: BISHOP
State of Sample Origin: WA

Electronic Copy To Leidos

Attn: Ruth Otteman

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

To view our laboratory's current scopes of accreditation please go to <https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/> . Historical copies may be requested through your project manager.



SAMPLE INFORMATION

| <u>Client Sample Description</u> | <u>Sample Collection Date/Time</u> | <u>ELLE#</u> |
|----------------------------------|--|--------------|
| MW-26-W-190813 Grab Groundwater | 08/13/2019 09:50 | 1130871 |
| MW-27-W-190813 Grab Groundwater | 08/13/2019 11:15 | 1130872 |
| MW-28-W-190813 Grab Groundwater | 08/13/2019 12:10 | 1130873 |
| DUP-1-WD-190813 Grab Groundwater | 08/13/2019 14:00 | 1130874 |
| MW-18-W-190813 Grab Groundwater | 08/13/2019 16:10 | 1130875 |
| MW-19-W-190813 Grab Groundwater | 08/13/2019 17:00 | 1130876 |
| MW-22-W-190814 Grab Groundwater | 08/14/2019 13:30 | 1130877 |
| MW-20-W-190815 Grab Groundwater | 08/15/2019 10:10 | 1130878 |
| MW-23-W-190815 Grab Groundwater | 08/15/2019 11:15 | 1130879 |
| MW-21-W-190815 Grab Groundwater | 08/15/2019 13:00 | 1130880 |
| MW-17-W-190815 Grab Groundwater | 08/15/2019 14:00 | 1130881 |
| MW-29-W-190816 Grab Groundwater | 08/16/2019 08:46 | 1130882 |
| MW-25-W-190816 Grab Groundwater | 08/16/2019 10:30 | 1130883 |
| QA-1-T-190813 NA Water | 08/13/2019 08:00 | 1130884 |
| QA-2-T-190814 NA Water | 08/14/2019 08:00 | 1130885 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: MW-26-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130871
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 09:50

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------------|---------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | 24 | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | 0.4 | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 820 E | 0.2 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 230 | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | 8 | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | 5 | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | 2 | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 2,200 E | 0.2 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 38 | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |

The concentrations reported for cis-1,2-Dichloroethene and Trichloroethene are estimated since they exceeds the calibration range of the instrument. A further diluted analysis was performed outside of the method holding time. The result for cis-1,2-Dichloroethene was 720 ug/l. The result for Trichloroethene was 1700 ug/l.

| | | | | | |
|---------------------|-----------------------|----------------------------|-------------|-------------|---|
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | 150 | 19 | 1 |

| | | | | | |
|--------------------------------|--------------------|--------------------|-------------|-------------|---|
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D2 | 0.0094 | 1 |

| | | | | | |
|----------------------------------|----------------|-------------------------------------|-------------|-------------|---|
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 45 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |

| | | | | | |
|-------------------------|------|--------------------------------------|-------------|-------------|---|
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Sample Description: MW-26-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130871
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 09:50

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | 5192392AA | 08/27/2019 23:35 | Kathrine K Muramatsu | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | 5192392AA | 08/27/2019 23:34 | Kathrine K Muramatsu | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 03:35 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 03:34 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 07:57 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192340012A | 08/25/2019 03:41 | Nicholas R Rossi | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192340012A | 08/22/2019 16:30 | Osvaldo R Sanchez | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 06:53 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-27-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130872
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 11:15

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|----------------------------------|-----------------------------|--------------------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | | | | |
| | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | 9 | 4 | 20 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | N.D. | 6 | 20 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 700 | 4 | 20 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 55 | 4 | 20 |
| 11997 | Ethylbenzene | 100-41-4 | 84 | 8 | 20 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 4 | 20 |
| 11997 | Tetrachloroethene | 127-18-4 | N.D. | 4 | 20 |
| 11997 | Toluene | 108-88-3 | N.D. | 4 | 20 |
| 11997 | Trichloroethene | 79-01-6 | 780 | 4 | 20 |
| 11997 | Vinyl Chloride | 75-01-4 | 23 | 4 | 20 |
| 11997 | Xylene (Total) | 1330-20-7 | 30 | 28 | 20 |
| GC Volatiles | | | | | |
| | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | 2,900 | 95 | 5 |
| Volatiles by Extraction | | | | | |
| | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0094 | 1 |
| GC Petroleum Hydrocarbons | | | | | |
| | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | 1,400 | 45 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |
| Metals Dissolved | | | | | |
| | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | 5192392AA | 08/27/2019 22:33 | Kathrine K Muramatsu | 20 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | 5192392AA | 08/27/2019 22:32 | Kathrine K Muramatsu | 20 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 03:58 | Marie D Beamenderfer | 5 |

Sample Description: MW-27-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130872
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 11:15

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 03:57 | Marie D Beamenderfer | 5 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 08:29 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192340012A | 08/25/2019 04:04 | Nicholas R Rossi | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192340012A | 08/22/2019 16:30 | Oswaldo R Sanchez | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 06:56 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-28-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130873
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 12:10

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------------|---------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | 14 | 4 | 20 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | N.D. | 6 | 20 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 250 | 4 | 20 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 6 | 4 | 20 |
| 11997 | Ethylbenzene | 100-41-4 | 220 | 8 | 20 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 4 | 20 |
| 11997 | Tetrachloroethene | 127-18-4 | 260 | 4 | 20 |
| 11997 | Toluene | 108-88-3 | N.D. | 4 | 20 |
| 11997 | Trichloroethene | 79-01-6 | 770 | 4 | 20 |
| 11997 | Vinyl Chloride | 75-01-4 | 8 | 4 | 20 |
| 11997 | Xylene (Total) | 1330-20-7 | 90 | 28 | 20 |

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

| | | | | | |
|---------------------|------------------------|-----------------------------|-------------|-------------|---|
| GC Volatiles | | ECY 97-602 NWT PH-Gx | ug/l | ug/l | |
| 08273 | NWT PH-Gx water C7-C12 | n.a. | 3,700 | 95 | 5 |

| | | | | | |
|--------------------------------|--------------------|--------------------|-------------|-------------|---|
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D2 | 0.0096 | 1 |

| | | | | | |
|----------------------------------|----------------|--------------------------------------|-------------|-------------|---|
| GC Petroleum Hydrocarbons | | ECY 97-602 NWT PH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | 770 | 45 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |

| | | | | | |
|-------------------------|------|--------------------------------------|-------------|-------------|---|
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------|--------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | 5192392AA | 08/27/2019 22:54 | Kathrine K Muramatsu | 20 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | 5192392AA | 08/27/2019 22:53 | Kathrine K Muramatsu | 20 |

Sample Description: MW-28-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130873
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 12:10

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 04:20 | Marie D Beamenderfer | 5 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 04:19 | Marie D Beamenderfer | 5 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 09:01 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192340012A | 08/25/2019 04:27 | Nicholas R Rossi | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192340012A | 08/22/2019 16:30 | Osvaldo R Sanchez | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:08 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: DUP-1-WD-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130874
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 14:00

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|---|-----------------------------|------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | | | | |
| SW-846 8260C | | | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | 15 | 4 | 20 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | N.D. | 6 | 20 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 270 | 4 | 20 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 5 | 4 | 20 |
| 11997 | Ethylbenzene | 100-41-4 | 210 | 8 | 20 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 4 | 20 |
| 11997 | Tetrachloroethene | 127-18-4 | 300 | 4 | 20 |
| 11997 | Toluene | 108-88-3 | N.D. | 4 | 20 |
| 11997 | Trichloroethene | 79-01-6 | 820 | 4 | 20 |
| 11997 | Vinyl Chloride | 75-01-4 | 8 | 4 | 20 |
| 11997 | Xylene (Total) | 1330-20-7 | 86 | 28 | 20 |
| GC Volatiles | | | | | |
| ECY 97-602 NWTPH-Gx | | | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | 3,800 | 95 | 5 |
| The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis. | | | | | |
| Volatiles by Extraction | | | | | |
| SW-846 8011 | | | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0095 | 1 |
| GC Petroleum Hydrocarbons | | | | | |
| ECY 97-602 NWTPH-Dx modified | | | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | 840 | 46 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |
| Metals Dissolved | | | | | |
| SW-846 6010D Rev.4, July 2014 | | | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------|--------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | 5192392AA | 08/27/2019 23:15 | Kathrine K Muramatsu | 20 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | 5192392AA | 08/27/2019 23:14 | Kathrine K Muramatsu | 20 |

Sample Description: DUP-1-WD-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130874
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 14:00

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 04:42 | Marie D Beamenderfer | 5 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 04:41 | Marie D Beamenderfer | 5 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 09:48 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 02:24 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:11 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-18-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130875
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 16:10

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------------|---------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.2 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | 3 | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.2 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |

| | | | | | |
|---|-----------------------|----------------------------|-------------|-------------|---|
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |
| The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis. | | | | | |

| | | | | | |
|--------------------------------|--------------------|--------------------|-------------|-------------|---|
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0096 | 1 |

| | | | | | |
|----------------------------------|----------------|-------------------------------------|-------------|-------------|---|
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 46 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |

| | | | | | |
|-------------------------|------|--------------------------------------|-------------|-------------|---|
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------|--------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | 5192392AA | 08/27/2019 21:52 | Kathrine K Muramatsu | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | 5192392AA | 08/27/2019 21:51 | Kathrine K Muramatsu | 1 |

Sample Description: MW-18-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130875
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 16:10

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/23/2019 23:52 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/23/2019 23:51 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 10:04 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 02:47 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:14 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-19-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130876
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 17:00

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|----------------------------------|-----------------------------|--------------------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.2 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | N.D. | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.2 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | 26 | 19 | 1 |
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0095 | 1 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 47 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | 5192392AA | 08/27/2019 22:12 | Kathrine K Muramatsu | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | 5192392AA | 08/27/2019 22:11 | Kathrine K Muramatsu | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 00:15 | Marie D Beamenderfer | 1 |

Sample Description: MW-19-W-190813 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130876
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 17:00

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 00:14 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 10:19 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 03:10 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:18 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-22-W-190814 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130877
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/14/2019 13:30

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------------|---------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | 10 | 2 | 10 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | N.D. | 3 | 10 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 740 | 2 | 10 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 6 | 2 | 10 |
| 11997 | Ethylbenzene | 100-41-4 | N.D. | 4 | 10 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 2 | 10 |
| 11997 | Tetrachloroethene | 127-18-4 | N.D. | 2 | 10 |
| 11997 | Toluene | 108-88-3 | N.D. | 2 | 10 |
| 11997 | Trichloroethene | 79-01-6 | 370 | 2 | 10 |
| 11997 | Vinyl Chloride | 75-01-4 | 5 | 2 | 10 |
| 11997 | Xylene (Total) | 1330-20-7 | N.D. | 14 | 10 |

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

| | | | | | |
|---------------------|-----------------------|----------------------------|-------------|-------------|---|
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | 39 | 19 | 1 |

| | | | | | |
|--------------------------------|--------------------|--------------------|-------------|-------------|---|
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0094 | 1 |

| | | | | | |
|----------------------------------|----------------|-------------------------------------|-------------|-------------|---|
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 45 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |

| | | | | | |
|-------------------------|------|--------------------------------------|-------------|-------------|---|
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|---------------------|--------------|--------|-----------|------------------------|-----------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | L192403AA | 08/28/2019 22:00 | Kevin A Sposito | 10 |

Sample Description: MW-22-W-190814 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130877
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/14/2019 13:30

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | L192403AA | 08/28/2019 21:59 | Kevin A Sposito | 10 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 00:37 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 00:36 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 10:35 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 03:33 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:21 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-20-W-190815 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130878
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/15/2019 10:10

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|----------------------------------|-----------------------------|--------------------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 7 | 0.2 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 0.5 | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | 64 | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 13 | 0.2 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | 30 | 19 | 1 |
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D2 | 0.0095 | 1 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 45 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | P192401AA | 08/28/2019 09:08 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | P192401AA | 08/28/2019 09:07 | Anita M Dale | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 00:59 | Marie D Beamenderfer | 1 |

Sample Description: MW-20-W-190815 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130878
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/15/2019 10:10

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 00:58 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 10:51 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 03:55 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:24 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-23-W-190815 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130879
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/15/2019 11:15

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|----------------------------------|-----------------------------|--------------------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | 19 | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | 1 | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 340 | 2 | 10 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 2 | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | N.D. | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | 0.2 | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 23 | 0.2 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | 16 | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0095 | 1 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 49 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 110 | 1 |
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------|--------------|--------|-----------|------------------------|--------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | P192401AA | 08/28/2019 07:25 | Anita M Dale | 1 |
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | P192411AA | 08/29/2019 15:30 | Anita M Dale | 10 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | P192401AA | 08/28/2019 07:24 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 2 | P192411AA | 08/29/2019 15:29 | Anita M Dale | 10 |

Sample Description: MW-23-W-190815 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130879
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/15/2019 11:15

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 01:21 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 01:20 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 11:07 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 04:18 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:27 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-21-W-190815 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130880
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/15/2019 13:00

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|----------------------------------|-----------------------------|--------------------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 0.4 | 0.2 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | 2 | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 4 | 0.2 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0095 | 1 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 46 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | P192401AA | 08/28/2019 07:51 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | P192401AA | 08/28/2019 07:50 | Anita M Dale | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 01:44 | Marie D Beamenderfer | 1 |

Sample Description: MW-21-W-190815 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130880
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/15/2019 13:00

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 01:43 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 11:23 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 04:41 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:30 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-17-W-190815 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130881
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/15/2019 14:00

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|----------------------------------|-----------------------------|--------------------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | 6 | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | 0.5 | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 52 | 0.2 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 0.8 | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | 14 | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | 7 | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | 0.2 | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 3 | 0.2 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | 6 | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | 500 | 19 | 1 |
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0095 | 1 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | 710 | 46 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | P192401AA | 08/28/2019 09:34 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | P192401AA | 08/28/2019 09:33 | Anita M Dale | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 02:06 | Marie D Beamenderfer | 1 |

Sample Description: MW-17-W-190815 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130881
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/15/2019 14:00

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 02:05 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 11:39 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 05:04 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:33 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-29-W-190816 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130882
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/16/2019 08:46

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|----------------------------------|-----------------------------|--------------------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | 4 | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | N.D. | 0.2 | 1 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | N.D. | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | N.D. | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | N.D. | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | N.D. | 0.2 | 1 |
| 11997 | Vinyl Chloride | 75-01-4 | N.D. | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D1 | 0.0095 | 1 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 46 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | P192401AA | 08/28/2019 10:00 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | P192401AA | 08/28/2019 09:59 | Anita M Dale | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 02:28 | Marie D Beamenderfer | 1 |

Sample Description: MW-29-W-190816 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130882
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/16/2019 08:46

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 02:27 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 11:54 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 05:27 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:36 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: MW-25-W-190816 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130883
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/16/2019 10:30

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|----------------------------------|-----------------------------|--------------------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 11997 | Benzene | 71-43-2 | 57 | 0.2 | 1 |
| 11997 | 1,2-Dichloroethane | 107-06-2 | 3 | 0.3 | 1 |
| 11997 | cis-1,2-Dichloroethene | 156-59-2 | 1,200 | 2 | 10 |
| 11997 | trans-1,2-Dichloroethene | 156-60-5 | 82 | 0.2 | 1 |
| 11997 | Ethylbenzene | 100-41-4 | 10 | 0.4 | 1 |
| 11997 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.2 | 1 |
| 11997 | Tetrachloroethene | 127-18-4 | 24 | 0.2 | 1 |
| 11997 | Toluene | 108-88-3 | 4 | 0.2 | 1 |
| 11997 | Trichloroethene | 79-01-6 | 320 | 2 | 10 |
| 11997 | Vinyl Chloride | 75-01-4 | 150 | 0.2 | 1 |
| 11997 | Xylene (Total) | 1330-20-7 | 2 | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | 250 | 19 | 1 |
| Volatiles by Extraction | | SW-846 8011 | ug/l | ug/l | |
| 10398 | Ethylene dibromide | 106-93-4 | N.D. D2 | 0.0095 | 1 |
| GC Petroleum Hydrocarbons | | ECY 97-602 NWTPH-Dx modified | ug/l | ug/l | |
| 12899 | DX DRO C12-C24 | n.a. | N.D. | 47 | 1 |
| 12899 | DX HRO C24-C40 | n.a. | N.D. | 100 | 1 |
| Metals Dissolved | | SW-846 6010D Rev.4, July 2014 | ug/l | ug/l | |
| 07055 | Lead | 7439-92-1 | N.D. | 7.1 | 1 |

03277 Lab Filtration - Metals

The holding time was not met for dissolved sample filtration. The filtration time for dissolved metals is to be within 15 minutes from collection. Since the filtration occurred after receipt in the laboratory, the 15 minute criteria was exceeded. This sample was not collected per applicable Clean Water Act (40CFR136) or SW-846 regulations.

Sample Comments

State of Washington Lab Certification No. C457
This sample was lab filtered for dissolved metals.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|----------------------|--------------|--------|-----------|------------------------|--------------|-----------------|
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | P192401AA | 08/28/2019 10:26 | Anita M Dale | 1 |
| 11997 | CVOCs+BTEX/MTBE/EDC | SW-846 8260C | 1 | P192401AA | 08/28/2019 10:52 | Anita M Dale | 10 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | P192401AA | 08/28/2019 10:25 | Anita M Dale | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 2 | P192401AA | 08/28/2019 10:51 | Anita M Dale | 10 |

Sample Description: MW-25-W-190816 Grab Groundwater
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130883
ELLE Group #: 2059759
Matrix: Groundwater

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/16/2019 10:30

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|-------------------------------|--------|--------------|------------------------|----------------------|-----------------|
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/24/2019 03:13 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/24/2019 03:12 | Marie D Beamenderfer | 1 |
| 10398 | EDB by 8011 | SW-846 8011 | 1 | 192340021A | 08/24/2019 12:10 | Jason Brumbaugh | 1 |
| 07786 | EDB Extraction (8011) | SW-846 8011 | 1 | 192340021A | 08/23/2019 04:00 | Mathias Okpo | 1 |
| 12899 | NWTPH-Dx water | ECY 97-602 NWTPH-Dx modified | 1 | 192350031A | 08/28/2019 05:50 | Heather E Williams | 1 |
| 12907 | Mini-extraction DRO DX (water) | ECY 97-602 NWTPH-Dx 06/97 | 1 | 192350031A | 08/26/2019 03:00 | Mathias Okpo | 1 |
| 07055 | Lead | SW-846 6010D Rev.4, July 2014 | 1 | 192351404401 | 08/25/2019 07:46 | Cindy M Gehman | 1 |
| 14044 | ICP-WW, 3005A (tot rec) - U345 | SW-846 3005A | 1 | 192351404401 | 08/23/2019 15:30 | Barbara A Kane | 1 |

Sample Description: QA-1-T-190813 NA Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130884
ELLE Group #: 2059759
Matrix: Water

Project Name: 90129

Submission Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/13/2019 08:00

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|----------------|---------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | 0.2 | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

| CAT No. | Analysis Name | Method | Result | Detection Limit | Dilution Factor |
|---------------------|-----------------------|----------------------------|-------------|-----------------|-----------------|
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192352AA | 08/23/2019 18:46 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192352AA | 08/23/2019 18:45 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/23/2019 23:08 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/23/2019 23:07 | Marie D Beamenderfer | 1 |

Sample Description: QA-2-T-190814 NA Water
Facility# 90129
4700 Brooklyn Ave - Seattle, WA

Chevron
ELLE Sample #: GW 1130885
ELLE Group #: 2059759
Matrix: Water

Project Name: 90129

Submittal Date/Time: 08/20/2019 10:10
Collection Date/Time: 08/14/2019 08:00

| CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit | Dilution Factor |
|------------------------|-----------------------|----------------------------|-------------|------------------------|-----------------|
| GC/MS Volatiles | | SW-846 8260C | ug/l | ug/l | |
| 13130 | Benzene | 71-43-2 | N.D. | 0.2 | 1 |
| 13130 | Ethylbenzene | 100-41-4 | N.D. | 0.4 | 1 |
| 13130 | Toluene | 108-88-3 | 0.3 | 0.2 | 1 |
| 13130 | Xylene (Total) | 1330-20-7 | N.D. | 1 | 1 |
| GC Volatiles | | ECY 97-602 NWTPH-Gx | ug/l | ug/l | |
| 08273 | NWTPH-Gx water C7-C12 | n.a. | N.D. | 19 | 1 |

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

Sample Comments

State of Washington Lab Certification No. C457

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|-----------------------|---------------------|--------|-----------|------------------------|----------------------|-----------------|
| 13130 | BTEX 8260C | SW-846 8260C | 1 | F192392AA | 08/27/2019 12:32 | Alexander D Sechrist | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030C | 1 | F192392AA | 08/27/2019 12:31 | Alexander D Sechrist | 1 |
| 08273 | NWTPH-Gx water C7-C12 | ECY 97-602 NWTPH-Gx | 1 | 19235B20A | 08/23/2019 23:30 | Marie D Beamenderfer | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030C | 1 | 19235B20A | 08/23/2019 23:29 | Marie D Beamenderfer | 1 |

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:14

Group Number: 2059759

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

| Analysis Name | Result ug/l | MDL ug/l |
|-----------------------------|-----------------------------------|-------------|
| Batch number: 5192392AA | Sample number(s): 1130871-1130876 | |
| Benzene | N.D. | 0.2 |
| 1,2-Dichloroethane | N.D. | 0.3 |
| cis-1,2-Dichloroethene | N.D. | 0.2 |
| trans-1,2-Dichloroethene | N.D. | 0.2 |
| Ethylbenzene | N.D. | 0.4 |
| Methyl Tertiary Butyl Ether | N.D. | 0.2 |
| Tetrachloroethene | N.D. | 0.2 |
| Toluene | N.D. | 0.2 |
| Trichloroethene | N.D. | 0.2 |
| Vinyl Chloride | N.D. | 0.2 |
| Xylene (Total) | N.D. | 1 |
| Batch number: F192352AA | Sample number(s): 1130884 | |
| Benzene | N.D. | 0.2 |
| Ethylbenzene | N.D. | 0.4 |
| Toluene | N.D. | 0.2 |
| Xylene (Total) | N.D. | 1 |
| Batch number: F192392AA | Sample number(s): 1130885 | |
| Benzene | N.D. | 0.2 |
| Ethylbenzene | N.D. | 0.4 |
| Toluene | N.D. | 0.2 |
| Xylene (Total) | N.D. | 1 |
| Batch number: L192403AA | Sample number(s): 1130877 | |
| Benzene | N.D. | 0.2 |
| 1,2-Dichloroethane | N.D. | 0.3 |
| cis-1,2-Dichloroethene | N.D. | 0.2 |
| trans-1,2-Dichloroethene | N.D. | 0.2 |
| Ethylbenzene | N.D. | 0.4 |
| Methyl Tertiary Butyl Ether | N.D. | 0.2 |
| Tetrachloroethene | N.D. | 0.2 |
| Toluene | N.D. | 0.2 |
| Trichloroethene | N.D. | 0.2 |
| Vinyl Chloride | N.D. | 0.2 |
| Xylene (Total) | N.D. | 1 |
| Batch number: P192401AA | Sample number(s): 1130878-1130883 | |
| Benzene | N.D. | 0.2 |
| 1,2-Dichloroethane | N.D. | 0.3 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:14

Group Number: 2059759

Method Blank (continued)

| Analysis Name | Result | MDL |
|-----------------------------|-----------------------------------|-------|
| | ug/l | ug/l |
| cis-1,2-Dichloroethene | N.D. | 0.2 |
| trans-1,2-Dichloroethene | N.D. | 0.2 |
| Ethylbenzene | N.D. | 0.4 |
| Methyl Tertiary Butyl Ether | N.D. | 0.2 |
| Tetrachloroethene | N.D. | 0.2 |
| Toluene | N.D. | 0.2 |
| Trichloroethene | N.D. | 0.2 |
| Vinyl Chloride | N.D. | 0.2 |
| Xylene (Total) | N.D. | 1 |
| Batch number: P192411AA | Sample number(s): 1130879 | |
| cis-1,2-Dichloroethene | N.D. | 0.2 |
| Batch number: 19235B20A | Sample number(s): 1130871-1130885 | |
| NWTPH-Gx water C7-C12 | N.D. | 19 |
| Batch number: 192340021A | Sample number(s): 1130871-1130883 | |
| Ethylene dibromide | N.D. | 0.010 |
| Batch number: 192340012A | Sample number(s): 1130871-1130873 | |
| DX DRO C12-C24 | N.D. | 45 |
| DX HRO C24-C40 | N.D. | 100 |
| Batch number: 192350031A | Sample number(s): 1130874-1130883 | |
| DX DRO C12-C24 | N.D. | 45 |
| DX HRO C24-C40 | N.D. | 100 |
| Batch number: 192351404401 | Sample number(s): 1130871-1130883 | |
| Lead | N.D. | 7.1 |

LCS/LCSD

| Analysis Name | LCS Spike Added ug/l | LCS Conc ug/l | LCSD Spike Added ug/l | LCSD Conc ug/l | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|-----------------------------------|---------------|-----------------------|----------------|----------|-----------|-----------------|-----|---------|
| Batch number: 5192392AA | Sample number(s): 1130871-1130876 | | | | | | | | |
| Benzene | 20 | 20.27 | 20 | 20.54 | 101 | 103 | 80-120 | 1 | 30 |
| 1,2-Dichloroethane | 20 | 19.1 | 20 | 18.74 | 96 | 94 | 73-124 | 2 | 30 |
| cis-1,2-Dichloroethene | 20 | 21.4 | 20 | 21.36 | 107 | 107 | 80-125 | 0 | 30 |
| trans-1,2-Dichloroethene | 20 | 19.6 | 20 | 19.83 | 98 | 99 | 80-126 | 1 | 30 |
| Ethylbenzene | 20 | 20.24 | 20 | 20.4 | 101 | 102 | 80-120 | 1 | 30 |
| Methyl Tertiary Butyl Ether | 20 | 18.19 | 20 | 17.87 | 91 | 89 | 69-122 | 2 | 30 |
| Tetrachloroethene | 20 | 19.58 | 20 | 19.79 | 98 | 99 | 80-120 | 1 | 30 |
| Toluene | 20 | 20.64 | 20 | 20.95 | 103 | 105 | 80-120 | 1 | 30 |
| Trichloroethene | 20 | 19.84 | 20 | 19.76 | 99 | 99 | 80-120 | 0 | 30 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:14

Group Number: 2059759

LCS/LCSD (continued)

| Analysis Name | LCS Spike Added ug/l | LCS Conc ug/l | LCSD Spike Added ug/l | LCSD Conc ug/l | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|-----------------------------------|---------------|-----------------------|----------------|----------|-----------|-----------------|-----|---------|
| Vinyl Chloride | 20 | 19.37 | 20 | 19.33 | 97 | 97 | 56-120 | 0 | 30 |
| Xylene (Total) | 60 | 62.04 | 60 | 62.62 | 103 | 104 | 80-120 | 1 | 30 |
| Batch number: F192352AA | Sample number(s): 1130884 | | | | | | | | |
| Benzene | 20 | 19.12 | | | 96 | | 80-120 | | |
| Ethylbenzene | 20 | 18.19 | | | 91 | | 80-120 | | |
| Toluene | 20 | 18.59 | | | 93 | | 80-120 | | |
| Xylene (Total) | 60 | 53.72 | | | 90 | | 80-120 | | |
| Batch number: F192392AA | Sample number(s): 1130885 | | | | | | | | |
| Benzene | 20 | 19.73 | 20 | 19.61 | 99 | 98 | 80-120 | 1 | 30 |
| Ethylbenzene | 20 | 18.94 | 20 | 18.94 | 95 | 95 | 80-120 | 0 | 30 |
| Toluene | 20 | 19.32 | 20 | 19.16 | 97 | 96 | 80-120 | 1 | 30 |
| Xylene (Total) | 60 | 55.74 | 60 | 55.62 | 93 | 93 | 80-120 | 0 | 30 |
| Batch number: L192403AA | Sample number(s): 1130877 | | | | | | | | |
| Benzene | 20 | 21.02 | | | 105 | | 80-120 | | |
| 1,2-Dichloroethane | 20 | 21.2 | | | 106 | | 73-124 | | |
| cis-1,2-Dichloroethene | 20 | 23.64 | | | 118 | | 80-125 | | |
| trans-1,2-Dichloroethene | 20 | 19.98 | | | 100 | | 80-126 | | |
| Ethylbenzene | 20 | 20.69 | | | 103 | | 80-120 | | |
| Methyl Tertiary Butyl Ether | 20 | 19.77 | | | 99 | | 69-122 | | |
| Tetrachloroethene | 20 | 21.42 | | | 107 | | 80-120 | | |
| Toluene | 20 | 21.11 | | | 106 | | 80-120 | | |
| Trichloroethene | 20 | 20.9 | | | 104 | | 80-120 | | |
| Vinyl Chloride | 20 | 20.32 | | | 102 | | 56-120 | | |
| Xylene (Total) | 60 | 62.98 | | | 105 | | 80-120 | | |
| Batch number: P192401AA | Sample number(s): 1130878-1130883 | | | | | | | | |
| Benzene | 20 | 21.47 | | | 107 | | 80-120 | | |
| 1,2-Dichloroethane | 20 | 23.42 | | | 117 | | 73-124 | | |
| cis-1,2-Dichloroethene | 20 | 22.35 | | | 112 | | 80-125 | | |
| trans-1,2-Dichloroethene | 20 | 19.2 | | | 96 | | 80-126 | | |
| Ethylbenzene | 20 | 21.18 | | | 106 | | 80-120 | | |
| Methyl Tertiary Butyl Ether | 20 | 20.28 | | | 101 | | 69-122 | | |
| Tetrachloroethene | 20 | 20.68 | | | 103 | | 80-120 | | |
| Toluene | 20 | 21.84 | | | 109 | | 80-120 | | |
| Trichloroethene | 20 | 20.43 | | | 102 | | 80-120 | | |
| Vinyl Chloride | 20 | 16.12 | | | 81 | | 56-120 | | |
| Xylene (Total) | 60 | 60.13 | | | 100 | | 80-120 | | |
| Batch number: P192411AA | Sample number(s): 1130879 | | | | | | | | |
| cis-1,2-Dichloroethene | 20 | 23.39 | | | 117 | | 80-125 | | |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 19235B20A | Sample number(s): 1130871-1130885 | | | | | | | | |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:14

Group Number: 2059759

LCS/LCSD (continued)

| Analysis Name | LCS Spike Added ug/l | LCS Conc ug/l | LCSD Spike Added ug/l | LCSD Conc ug/l | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|--|--|---------------|-----------------------|----------------|----------|-----------|-----------------|-----|---------|
| NWTPH-Gx water C7-C12 | 1100 | 1162.84 | 1100 | 1157.27 | 106 | 105 | 64-131 | 0 | 30 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 192340021A Ethylene dibromide | Sample number(s): 1130871-1130883 0.128 | 0.167 | 0.128 | 0.173 | 131 | 135 | 60-140 | 3 | 20 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 192340012A DX DRO C12-C24 | Sample number(s): 1130871-1130873 600.1 | 227.3 | 600.1 | 255.9 | 38 | 43 | 11-115 | 12 | 20 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 192350031A DX DRO C12-C24 | Sample number(s): 1130874-1130883 600.1 | 371 | 600.1 | 416.69 | 62 | 69 | 11-115 | 12 | 20 |
| | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 192351404401 Lead | Sample number(s): 1130871-1130883 150 | 146.69 | | | 98 | | 87-113 | | |

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Analysis Name | Unspiked Conc ug/l | MS Spike Added ug/l | MS Conc ug/l | MSD Spike Added ug/l | MSD Conc ug/l | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|--|--|---------------------|--------------|----------------------|---------------|---------|----------|---------------|-----|---------|
| Batch number: P192401AA | Sample number(s): 1130878-1130883 UNSPK: 1130880 | | | | | | | | | |
| Benzene | N.D. | 20 | 22.75 | 20 | 22.61 | 114 | 113 | 80-120 | 1 | 30 |
| 1,2-Dichloroethane | N.D. | 20 | 22.74 | 20 | 23.86 | 114 | 119 | 73-124 | 5 | 30 |
| cis-1,2-Dichloroethene | 0.448 | 20 | 23.69 | 20 | 23.78 | 116 | 117 | 80-120 | 0 | 30 |
| trans-1,2-Dichloroethene | N.D. | 20 | 19.44 | 20 | 20.13 | 97 | 101 | 80-120 | 3 | 30 |
| Ethylbenzene | N.D. | 20 | 22.38 | 20 | 22.32 | 112 | 112 | 80-120 | 0 | 30 |
| Methyl Tertiary Butyl Ether | N.D. | 20 | 18.8 | 20 | 20.34 | 94 | 102 | 69-122 | 8 | 30 |
| Tetrachloroethene | 1.57 | 20 | 24.39 | 20 | 23.68 | 114 | 111 | 80-120 | 3 | 30 |
| Toluene | N.D. | 20 | 23.18 | 20 | 23.2 | 116 | 116 | 80-120 | 0 | 30 |
| Trichloroethene | 3.78 | 20 | 25.21 | 20 | 24.86 | 107 | 105 | 80-120 | 1 | 30 |
| Vinyl Chloride | N.D. | 20 | 17.38 | 20 | 18.38 | 87 | 92 | 56-120 | 6 | 30 |
| Xylene (Total) | N.D. | 60 | 64.32 | 60 | 63.34 | 107 | 106 | 80-120 | 2 | 30 |
| | ug/l | ug/l | ug/l | ug/l | ug/l | | | | | |
| Batch number: 192340021A Ethylene dibromide | Sample number(s): 1130871-1130883 UNSPK: 1130871 N.D. | 0.122 | 0.124 | | | 102 | | 60-140 | | |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:14

Group Number: 2059759

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | BKG Conc ug/l | DUP Conc ug/l | DUP RPD | DUP RPD Max |
|--|--|------------------|---------|-------------|
| Batch number: 192340021A Ethylene dibromide | Sample number(s): 1130871-1130883 BKG: 1130872 N.D. | N.D. | 0 (1) | 30 |

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: CVOCs+BTEX/MTBE/EDC
Batch number: 5192392AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1130871 | 96 | 99 | 102 | 99 |
| 1130872 | 95 | 102 | 101 | 100 |
| 1130873 | 95 | 101 | 100 | 99 |
| 1130874 | 95 | 101 | 101 | 100 |
| 1130875 | 94 | 102 | 101 | 99 |
| 1130876 | 95 | 102 | 101 | 99 |
| Blank | 94 | 100 | 101 | 99 |
| LCS | 97 | 100 | 101 | 99 |
| LCSD | 96 | 102 | 101 | 98 |
| Limits: | 80-120 | 80-120 | 80-120 | 80-120 |

Analysis Name: BTEX 8260C
Batch number: F192352AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1130884 | 91 | 95 | 102 | 98 |
| Blank | 91 | 93 | 102 | 99 |
| LCS | 91 | 99 | 100 | 99 |
| Limits: | 80-120 | 80-120 | 80-120 | 80-120 |

Analysis Name: BTEX 8260C
Batch number: F192392AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1130885 | 91 | 93 | 99 | 99 |
| Blank | 91 | 95 | 100 | 98 |
| LCS | 90 | 99 | 100 | 103 |
| LCSD | 90 | 98 | 100 | 102 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:14

Group Number: 2059759

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX 8260C
Batch number: F192392AA

Limits: 80-120 80-120 80-120 80-120

Analysis Name: CVOCs+BTEX/MTBE/EDC
Batch number: L192403AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1130877 | 97 | 99 | 101 | 98 |
| Blank | 96 | 98 | 102 | 98 |
| LCS | 100 | 101 | 101 | 98 |
| Limits: | 80-120 | 80-120 | 80-120 | 80-120 |

Analysis Name: CVOCs+BTEX/MTBE/EDC
Batch number: P192401AA

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 1130878 | 97 | 106 | 105 | 99 |
| 1130879 | 96 | 104 | 105 | 100 |
| 1130880 | 98 | 104 | 104 | 98 |
| 1130881 | 98 | 107 | 103 | 102 |
| 1130882 | 98 | 105 | 104 | 100 |
| 1130883 | 98 | 106 | 105 | 103 |
| Blank | 97 | 105 | 104 | 100 |
| LCS | 99 | 109 | 106 | 105 |
| MS | 94 | 107 | 106 | 105 |
| MSD | 99 | 109 | 105 | 104 |
| Limits: | 80-120 | 80-120 | 80-120 | 80-120 |

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 19235B20A

| | Trifluorotoluene-F |
|---------|--------------------|
| 1130871 | 86 |
| 1130872 | 93 |
| 1130873 | 94 |
| 1130874 | 91 |
| 1130875 | 71 |
| 1130876 | 88 |
| 1130877 | 88 |
| 1130878 | 86 |
| 1130879 | 73 |
| 1130880 | 82 |
| 1130881 | 90 |
| 1130882 | 85 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:14

Group Number: 2059759

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Gx water C7-C12

Batch number: 19235B20A

| | Trifluorotoluene-F |
|---------|--------------------|
| 1130883 | 77 |
| 1130884 | 90 |
| 1130885 | 94 |
| Blank | 88 |
| LCS | 93 |
| LCSD | 101 |

Limits: 50-150

Analysis Name: EDB by 8011

Batch number: 192340021A

| | 1,1,2,2-Tetrachloroethane-D1 | 1,1,2,2-Tetrachloroethane-D2 |
|---------|------------------------------|------------------------------|
| 1130871 | 86 | 94 |
| 1130872 | 102 | 124 |
| 1130873 | 107 | 123 |
| 1130874 | 105 | 123 |
| 1130875 | 96 | 100 |
| 1130876 | 96 | 99 |
| 1130877 | 96 | 100 |
| 1130878 | 95 | 98 |
| 1130879 | 89 | 91 |
| 1130880 | 87 | 90 |
| 1130881 | 89 | 99 |
| 1130882 | 92 | 94 |
| 1130883 | 94 | 95 |
| Blank | 106 | 107 |
| DUP | 100 | 120 |
| LCS | 118 | 120 |
| LCSD | 115 | 119 |
| MS | 104 | 110 |

Limits: 46-136 46-136

Analysis Name: NWTPH-Dx water

Batch number: 192340012A

| | Orthoterphenyl |
|---------|----------------|
| 1130871 | 84 |
| 1130872 | 86 |
| 1130873 | 80 |
| Blank | 78 |
| LCS | 75 |
| LCSD | 77 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 10/17/2019 13:14

Group Number: 2059759

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NWTPH-Dx water
Batch number: 192340012A

Limits: 50-150

Analysis Name: NWTPH-Dx water
Batch number: 192350031A

| | Orthoterphenyl |
|---------|----------------|
| 1130874 | 93 |
| 1130875 | 85 |
| 1130876 | 88 |
| 1130877 | 88 |
| 1130878 | 88 |
| 1130879 | 88 |
| 1130880 | 88 |
| 1130881 | 90 |
| 1130882 | 88 |
| 1130883 | 88 |
| Blank | 90 |
| LCS | 90 |
| LCSD | 98 |

Limits: 50-150

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Chevron Generic Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 11255

For Eurofins Lancaster Laboratories Environmental use only
Group # _____ Sample # _____

2059759

1130871-85

| Client Information | | | | Matrix | | | Analyses Requested | | | | | | | | | | SCR #: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|---------------------------------|------|---|--------|--|--|--|-------------|---|--------------------|--|--------------------------|--|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|-------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------|--------------------------|------------------------------------|-------------------------------------|---------------------------------|--------------------------|-----|--------------------------|-----|--------------------------|--------|-------|------------|--------------------------|-------|-------------------------------------|--------|--------------|-------------|-----------------|---|
| Preservation and Filtration Codes | | | | Total Number of Containers | | | Preservation Codes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Facility # <u>90129</u> WBS | | | | Sediment <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>BTEX + MTBE</td><td>8021</td><td><input type="checkbox"/></td> <td>8260</td><td><input type="checkbox"/></td> <td>Naphth</td><td><input type="checkbox"/></td> <td colspan="4">Oxygenates</td> <td>TPH-GRO</td><td>8015</td><td><input type="checkbox"/></td> <td>8260</td><td><input type="checkbox"/></td> <td>TPH-DRO without Silica Gel Cleanup</td><td><input checked="" type="checkbox"/></td> <td>TPH-DRO with Silica Gel Cleanup</td><td><input type="checkbox"/></td> <td>VPH</td><td><input type="checkbox"/></td> <td>EPH</td><td><input type="checkbox"/></td> <td>Method</td><td>_____</td> <td>Lead Total</td><td><input type="checkbox"/></td> <td>Diss.</td><td><input checked="" type="checkbox"/></td> <td>Method</td><td><u>GOIAB</u></td> <td>EDC by 8260</td> <td>EDB by EPA 8011</td> </tr> </table> | | | | | | | | | | BTEX + MTBE | 8021 | <input type="checkbox"/> | 8260 | <input type="checkbox"/> | Naphth | <input type="checkbox"/> | Oxygenates | | | | TPH-GRO | 8015 | <input type="checkbox"/> | 8260 | <input type="checkbox"/> | TPH-DRO without Silica Gel Cleanup | <input checked="" type="checkbox"/> | TPH-DRO with Silica Gel Cleanup | <input type="checkbox"/> | VPH | <input type="checkbox"/> | EPH | <input type="checkbox"/> | Method | _____ | Lead Total | <input type="checkbox"/> | Diss. | <input checked="" type="checkbox"/> | Method | <u>GOIAB</u> | EDC by 8260 | EDB by EPA 8011 | <p>Preservation Codes</p> <p>H = HCl T = Thiosulfate N = HNO₃ B = NaOH S = H₂SO₄ P = H₃PO₄ F = Field Filtered O = Other</p> <p><input type="checkbox"/> Results in Dry Weight</p> <p><input type="checkbox"/> J value reporting needed</p> <p><input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds</p> |
| BTEX + MTBE | 8021 | <input type="checkbox"/> | 8260 | <input type="checkbox"/> | Naphth | <input type="checkbox"/> | Oxygenates | | | | TPH-GRO | 8015 | <input type="checkbox"/> | 8260 | <input type="checkbox"/> | TPH-DRO without Silica Gel Cleanup | <input checked="" type="checkbox"/> | TPH-DRO with Silica Gel Cleanup | <input type="checkbox"/> | VPH | <input type="checkbox"/> | EPH | <input type="checkbox"/> | Method | _____ | Lead Total | <input type="checkbox"/> | Diss. | <input checked="" type="checkbox"/> | Method | <u>GOIAB</u> | EDC by 8260 | EDB by EPA 8011 | | | | | | | | | | | | | | | | | | |
| Site Address <u>4700 Brooklyn Ave</u> | | Chevron PM <u>Tim Bishop</u> | | Lead Consultant <u>Leidos</u> | | Consultant/Office <u>Leidos/Bathell, WA</u> | | Consultant Project Mgr. <u>Ruth Otteman</u> | | Sampler <u>R. Otteman and C. Wildt</u> | | State where samples were collected: <u>Washington</u> | | For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | Sample Identification | | Collected | | Grab | | Composite | | Soil | | Potable | | Water | | Oil | | Air | | Remarks | | | | | | | | | | | | | | | | | |
| Date | | Time | | Grab | | Composite | | Soil | | Potable | | Water | | Oil | | Air | | Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>MW-26-W-190813</u> | | <u>8/13/19</u> | | <u>0950</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | lab filtered lead | | | | | | | | | | | | | | | | | | | |
| <u>MW-27-W-190813</u> | | <u>8/13/19</u> | | <u>1115</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| <u>MW-28-W-190813</u> | | <u>8/13/19</u> | | <u>1210</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| <u>DVP-1-W-190813</u> | | <u>8/13/19</u> | | <u>1400</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| <u>MW-18-W-190813</u> | | <u>8/13/19</u> | | <u>1610</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| <u>MW-19-W-190813</u> | | <u>8/13/19</u> | | <u>1700</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| <u>MW-22-W-190814</u> | | <u>8/14/19</u> | | <u>1330</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| <u>MW-20-W-190815</u> | | <u>8/15/19</u> | | <u>1010</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| <u>MW-23-W-190815</u> | | <u>8/15/19</u> | | <u>1115</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| <u>MW-21-W-190815</u> | | <u>8/15/19</u> | | <u>1300</u> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | |
| Turnaround Time Requested (TAT) (please circle) | | | | Relinquished by | | | Date | | Time | | Received by | | | Date | | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="radio"/> Standard 5 day 4 day <input type="radio"/> 72 hour 48 hour 24 hour | | | | <u>Ruth Otteman</u> | | | <u>8/17/19</u> | | <u>1400</u> | | _____ | | | _____ | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Data Package (circle if required) | | | | Relinquished by | | | Date | | Time | | Received by | | | Date | | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="radio"/> Type I - Full Type III Type VI (Raw Data) | | | | _____ | | | _____ | | _____ | | _____ | | | _____ | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EDD (circle if required) | | | | Relinquished by Commercial Carrier: | | | Date | | Time | | Received by | | | Date | | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="radio"/> CVX-RTBU-FL_05 (default) Other: _____ | | | | UPS _____ FedEx <input checked="" type="checkbox"/> Other _____ | | | _____ | | _____ | | <u>[Signature]</u> | | | <u>8-20-19</u> | | <u>1010</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature Upon Receipt | | | | Custody Seals Intact? | | | Date | | Time | | Received by | | | Date | | Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>17.5 °C</u> | | | | <input checked="" type="checkbox"/> (Yes) <input type="checkbox"/> No | | | _____ | | _____ | | _____ | | | _____ | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Client: Chevron

Delivery and Receipt Information

Delivery Method: Fed-Ex 3 Arrival Timestamp: 08/20/2019 10:10
 Number of Packages: 4 Number of Projects: 1
 State/Province of Origin: WA

Arrival Condition Summary

| | | | |
|--------------------------------------|-----|-------------------------------------|-----|
| Shipping Container Sealed: | Yes | Sample IDs on COC match Containers: | Yes |
| Custody Seal Present: | Yes | Sample Date/Times match COC: | Yes |
| Custody Seal Intact: | Yes | Total Trip Blank Qty: | 8 |
| Samples Chilled: | Yes | Trip Blank Type: | HCl |
| Paperwork Enclosed: | Yes | Air Quality Samples Present: | No |
| Samples Intact: | No | | |
| Missing Samples: | No | | |
| Extra Samples: | No | | |
| Discrepancy in Container Qty on COC: | No | | |

Unpacked by Darian Jaynes (29 952) at 15:39 on 08/20/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|----------|----------------|----------------|-------------|----------|--------------|---------------|----------------|
| 1 | DT42-03 | 0.5 | DT | Wet | Y | Bagged | N |
| 2 | DT42-03 | 0.1 | DT | Wet | Y | Bagged | N |
| 3 | DT42-03 | 0.1 | DT | Wet | Y | Bagged | N |
| 4 | DT42-03 | 0.2 | DT | Wet | Y | Bagged | N |

Samples Not Intact Details

| Sample ID on Label | Bottle Code | Bottle Quantity | Container Salvageable? | Comments |
|--------------------|--------------------------------|-----------------|------------------------|----------|
| MW-28-W-190813 | 40 ml glass vial (GC/MS) - HCl | 4 | N | |

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| | | | |
|-------------------------|--|-----------------|-------------------------------|
| BMQL | Below Minimum Quantitation Level | mL | milliliter(s) |
| C | degrees Celsius | MPN | Most Probable Number |
| cfu | colony forming units | N.D. | non-detect |
| CP Units | cobalt-chloroplatinate units | ng | nanogram(s) |
| F | degrees Fahrenheit | NTU | nephelometric turbidity units |
| g | gram(s) | pg/L | picogram/liter |
| IU | International Units | RL | Reporting Limit |
| kg | kilogram(s) | TNTC | Too Numerous To Count |
| L | liter(s) | µg | microgram(s) |
| lb. | pound(s) | µL | microliter(s) |
| m3 | cubic meter(s) | umhos/cm | micromhos/cm |
| meq | milliequivalents | MCL | Maximum Contamination Limit |
| mg | milligram(s) | | |
| < | less than | | |
| > | greater than | | |
| ppm | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. | | |
| ppb | parts per billion | | |
| Dry weight basis | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. | | |

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

| Qualifier | Definition |
|----------------|---|
| C | Result confirmed by reanalysis |
| D1 | Indicates for dual column analyses that the result is reported from column 1 |
| D2 | Indicates for dual column analyses that the result is reported from column 2 |
| E | Concentration exceeds the calibration range |
| K1 | Initial Calibration Blank is above the QC limit and the sample result is ND |
| K2 | Continuing Calibration Blank is above the QC limit and the sample result is ND |
| K3 | Initial Calibration Verification is above the QC limit and the sample result is ND |
| K4 | Continuing Calibration Verification is above the QC limit and the sample result is ND |
| J (or G, I, X) | Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL) |
| P | Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported. |
| P^ | Concentration difference between the primary and confirmation column $> 40\%$. The higher result is reported. |
| U | Analyte was not detected at the value indicated |
| V | Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference. |
| W | The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L. |
| Z | Laboratory Defined - see analysis report |

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

From: [Julia Schwarz](#)
To: [Myers, Dale - TCP \(ECY\)](#)
Cc: [Alice Robinson](#)
Subject: RE: EIM Data Submission - Study ID AODE13815
Date: Monday, July 20, 2020 12:46:00 PM
Attachments: [image001.png](#)
[image002.jpg](#)

Dale,

We had several comments on the EIM data submission. Please see below. Please note that these comments were generated prior to receipt of the work plan and some may not be relevant now that we have added context.

- MW-27 and MW-28 have the same coordinates in EIMLocation. These should be fixed.
- MW-29 February 2020 results and duplicate (DUP-1_200218) are outside of usual RPD limits. Please verify results and/or parent and duplicate samples.
- Certain wells were resampled multiple times within the same month (MW-18 in December 2018, MW-25 in December 2018) – please check the dates on these entries.
- The water level measuring point file is included in the EIM upload, but the water levels as measured from those points (e.g. EIM_WellWaterLevelTemplate) is not included. Please include groundwater level measurement data in the EIM upload.

Without water level data, we cannot verify groundwater flow direction. Based on the EIM upload data alone, impacts to groundwater have not been fully delineated.

We will continue with our review of the work plan as well.

Thanks,
Julia



Julia Schwarz, L.G. | Project Manager
32001 32nd Ave S, Suite 100, Federal Way, WA 98001
Direct: [\(253\) 835-6424](tel:2538356424)
Teams: JuliaSchwarz@kennedyjenks.com

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From: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Sent: Monday, June 22, 2020 11:20 AM
To: Julia Schwarz <JuliaSchwarz@kennedyjenks.com>
Subject: FW: EIM Data Submission - Study ID AODE13815

Julia

Please have a look at the EIM data

I am looking for data gaps that would prevent us from defining the extent of TPH and benzene especially towards University Way

Dale

From: Sinclair, Gaylen (ECY)
Sent: Monday, June 22, 2020 9:01 AM
To: riku.kusakabe@arcadis.com
Cc: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Subject: EIM Data Submission - Study ID AODE13815

Good Morning Riku,

Thank you for submitting data for Former Chevron Station 90129. Submitted data for this study loaded into EIM successfully. The Ecology Project Manager will verify the data on study, locations, and results.

Below is further information on the loaded data.

Facility Site ID: 81966648
Study ID: AODE13815
Study Name: Former Chevron Service Station No. 90129
Date Range: Aug 2019, Dec 2019, Feb 2020, Apr 2020, May 2020
New Locations: 9
New Results: 982

Information for data submitter:

- You can view the data by using the following link. <https://apps.ecology.wa.gov/eim/search/Map/Map.aspx?MapType=EIM&StudyUserIdSearchType=Contains&StudyUserIds=AODE13815&MapLocationExtent=-13615970.0419451%2c6050976.56175084%2c-13615851.7489737%2c6051079.89499462>

Information for Ecology employees:

- You can view the data by using the following link. <http://ecyeim/search/Map/Map.aspx?MapType=EIM&StudyUserIdSearchType=Contains&StudyUserIds=AODE13815&MapLocationExtent=-13615970.0419451%2c6050976.56175084%2c-13615851.7489737%2c6051079.89499462>
- You should verify study, location, and result information.
- The [EIM Data Entry Review Checklist](#), updated May 2018, can be found in the [EIM Help Center](#).
- There is a [video training on how to review the data](#).

Thanks,
Gaylen

Gaylen Sinclair, PhD
EIM Data Coordinator
Washington State Department of Ecology
300 Desmond Dr. SE, P.O. Box 47600
Olympia, WA 98504
e-mail: gslin461@ecy.wa.gov
Pronouns: She/her/hers



From: [Julia Schwarz](#)
To: [Myers, Dale - TCP \(ECY\)](#)
Cc: [Ryan Hultgren](#)
Subject: RE: Chevron 90129 4700 Brooklyn
Date: Tuesday, July 28, 2020 8:14:00 AM
Attachments: [image002.png](#)
[image003.png](#)
[90129 Supplemental Investigation Work Plan_DRAFT_07142020_KJComments.pdf](#)

Dale,

Please find attached our comments on the Chevron 90129 Work Plan. In general, the work plan would benefit from additional discussion of the existing data and data gaps that the work plan and proposed activities will address, and additional detail explaining the reasoning for the well and SVP locations is necessary. Additional delineation in the up- and cross-gradient direction may also be warranted; if Chevron/Arcadis do not believe data gaps exist other than in the downgradient direction, evidence of that should be included in the work plan.

Also, should soil vapor samples be analyzed for HVOCs, or is delineation of HVOC the responsibility of the Carson Cleaners release? Currently HVOCs are not listed in the soil vapor analyte list, though they are for groundwater.

Please let us know any questions.

Thanks,
Julia



Julia Schwarz, L.G. | Project Manager
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Teams: JuliaSchwarz@kennedyjenks.com

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From: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Sent: Wednesday, July 15, 2020 7:01 AM
To: Julia Schwarz <JuliaSchwarz@kennedyjenks.com>
Subject: FW: Chevron 90129 4700 Brooklyn

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Never enter your login credentials if prompted. Contact **IST** if you have any questions.

Julia

Please review and comment on the attached supplemental Investigation Work Plan.

In your opinion will this Work Plan accomplish the goal of completing the off-property RI
Thank you
Dale

From: Hamilton, Ada [<mailto:Ada.Hamilton@arcadis.com>]
Sent: Tuesday, July 14, 2020 5:28 PM
To: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Cc: timbishop@chevron.com; Dotson, Christopher <Christopher.Dotson@arcadis.com>
Subject: Chevron 90129 4700 Brooklyn

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Hello,

On behalf of Chevron, please find attached Draft Supplemental Investigation Work Plan for Chevron site 90129 located at 4700 Brooklyn Avenue NE in Seattle, Washington.

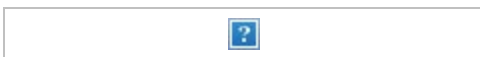
Please let me know if you have any questions, or if you would like to schedule a call to discuss.

Thank you,

-Ada

Ada Hamilton | Project Manager | ada.hamilton@arcadis.com
Arcadis | Arcadis U.S., Inc.
1100 Olive Way, Suite 800, Seattle, WA | 98101 | USA
T. +1 206 413 6430 | M. +1 206 321 3782

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From: [Julia Schwarz](#)
To: [Myers, Dale - TCP \(ECY\)](#)
Cc: [Katie Haskins](#)
Subject: RE: Request assistance with Chevron 90129 figure
Date: Friday, January 15, 2021 8:04:00 AM
Attachments: [image004.png](#)
[OffPropHVOC.jpg](#)
[image001.png](#)

Dale,

Please find attached a draft map for Chevron 90129. Please let us know if you have any requested changes.

Thanks,
Julia



Julia Schwarz, LHG | Project Manager

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Teams: JuliaSchwarz@kennedyjenks.com

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From: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Sent: Wednesday, January 13, 2021 12:49 PM
To: Julia Schwarz <JuliaSchwarz@kennedyjenks.com>
Subject: RE: Request assistance with Chevron 90129 figure

I believe those were borings made during the drilling of the wells
In the legend of the map just state wells and borings

From: Julia Schwarz [<mailto:JuliaSchwarz@kennedyjenks.com>]
Sent: Wednesday, January 13, 2021 12:41 PM
To: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Cc: Katie Haskins <KatieHaskins@kennedyjenks.com>
Subject: RE: Request assistance with Chevron 90129 figure

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Dale,

On the map that you sent us, the results boxes below each monitoring well list a boring/location

name different from the monitoring well - it appears that the results are for borings, not wells? What are these B- names and how to they relate to these wells? For example, the result below well MW-23 (bottom left corner) says, "B-19, cis - 340, TCE - 23, VC - 16".

Thanks,
Julia



Julia Schwarz, LHG | Project Manager

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Teams: JuliaSchwarz@kennedyjenks.com

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From: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Sent: Tuesday, January 12, 2021 10:19 AM
To: Julia Schwarz <JuliaSchwarz@kennedyjenks.com>
Subject: Request assistance with Chevron 90129 figure

Julia

Time a little work on Chevron 90129

I would like to request assistance with Chevron 90129 figure

Dale Myers
Project Manager
Department of Ecology
Northwest Regional Office
Toxics Cleanup Program
Cell No.: 425-389-2521

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From: [Ryan Hultgren](#)
To: [Myers, Dale - TCP \(ECY\)](#)
Cc: [Joshua Sales](#)
Subject: FW: Chevron 90129 (Brooklyn) draft Supplemental RI
Date: Friday, January 13, 2023 2:32:00 PM
Attachments: [image002.png](#)
[DRAFT Figures 1 and 2.pdf](#)
[90129 Supplemental Investigation Report Draft for Regulatory Review KJ.docx](#)
[90129 Supplemental Investigation Report Draft for Agency Review KJ.pdf](#)

Hi Dale,

Please find attached our tracked changes review of the Chevron 90129 (Brooklyn) Supplemental RI and comments to the tables and appendices. Also included are the draft figures I sent last week showing estimated extents of impacts. Please let me know when you would like to discuss the comments.

Thank you,
Ryan



[Ryan Hultgren, P.E.](#) | Project Manager

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Direct: 253-835-6432
Mobile: 253-549-9725
Teams: RyanHultgren@KennedyJenks.com

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From: Ryan Hultgren
Sent: Friday, January 6, 2023 4:40 PM
To: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Subject: RE: Chevron 90129 (Brooklyn) draft Supplemental RI

Hello Dale,

I wanted to provide an update on the status of KJ's review of the Chevron 90129 (Brooklyn) Supplemental RI. Due to staff holiday / vacation time, my goal is to get our comments and mapped data to you by Tuesday/Wednesday next week.

The Supplemental RI data is not available in EIM still – as such, we pulled data from the analytical tables in the report PDF and drafted impacts extents maps using data since December 2019 (with inset concentration trend graphs, concentrations on a logarithmic scale). Attached are draft maps for Benzene and GRO results – can you please review these and let me know if these are what you are looking for and if you have any changes / need additional information? For wells with mostly ND results, a concentration chart is not shown. The inferred extents are based on data for existing wells as well as consideration of results for former wells within the property extent.

Thank you,
Ryan



Ryan Hultgren, P.E. | Project Manager

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Federal Way, WA 98001
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Mobile: 253-549-9725
Teams: RyanHultgren@KennedyJenks.com

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From: Ryan Hultgren
Sent: Monday, December 12, 2022 1:50 PM
To: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Subject: RE: Chevron 90129 (Brooklyn) draft Supplemental RI

Good afternoon Dale,

I just checked EIM - the most recent data on EIM for Chevron 90129 (Brooklyn) is for groundwater sampling from December 2020. Can you please request the data from the Supplemental Investigation?

Study Details

Study ID: **AODE13815**

[Download Study Data](#)

| Study Basics | |
|---|--|
| Study ID | AODE13815 |
| Study Name | Former Chevron Service Station No. 90129 |
| EIM Data Entry Review Status | Not Reviewed |
| Study Type | Contaminated site investigation (characterization, includes RI/FS and remedial design) |
| Study Purpose | Removal of petroleum impacted soil, long term groundwater monitoring and soil borings to determine extent of impact. |
| Field Collection Date Range | 11/7/2016 - 12/9/2020 |
| Data First/Last Loaded Date | 5/5/2017 - 2/3/2021 |
| Data Last Updated Date | 2/3/2021 |
| Ecology Contact | Dale Myers |
| Ecology Program or Other Responsible Entity | Ecology Toxics Cleanup Program, Northwest Region |
| Ecology Monitoring Program | |
| Submitting Organization | Aspect Consulting LLC - Seattle WA |
| Study QA Planning Level | LEVEL 3: QAPP, SAP, or Equivalent. |
| Study QA Project Plan Description | |
| Study QA Assessment Level | Level 4: Data Verified and Assessed for Usability in a Formal Study Report |
| Study Result Description | |
| Study Comment | |
| Ecology Funding Number | |
| Ecology Facility/Site ID | 81966648 |
| Ecology Cleanup Site ID | 5046 |
| Study ID Aliases (Alias Type) | |

Thank you,
Ryan



[Ryan Hultgren, P.E.](#) | Project Manager

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Mobile: 253-549-9725

Teams: RyanHultgren@KennedyJenks.com

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From: [Ryan Hultgren](#)
To: [Myers, Dale - TCP \(ECY\)](#)
Cc: [Joshua Sales](#)
Subject: RE: Chevron 90129 (Brooklyn) draft Supplemental RI
Date: Friday, February 10, 2023 6:17:00 AM
Attachments: [image002.png](#)
[Draft_Figures_GWData_20230210.pdf](#)

Good morning Dale,

Attached are revised draft figures (Figures 1, 2 and 3) presenting groundwater concentration data for benzene, TPH-GRO, and chlorinated VOCs (PCE, TCE, and VC on the same map).

Key edits –

- The aerial photograph is a more current view, circa June 2021
- The locations of monitoring wells have been revised based on review of well location data in EIM, Supplemental RI line drawing maps, and inspection in Google Earth in street view (some well monuments are visible). Please note that spatial data in the EIM database for several of the current wells is estimated and/or likely not accurate (for example, the latitude / longitude data for wells MW-27 and MW-28 are the same values). It is not clear if the location XY data in EIM is based on surveyed coordinates or estimated (GPS) locations.
- Inferred extents of benzene on Figure 1 and TPH-GRO on Figure 2 have been revised to reflect the excavation extent of the former Chevron site.
- Figure 3 for CVOCs is new –
 - The map uses pie chart symbols to present the magnitude of the total sum of PCE, TCE, and VC concentrations (higher total concentrations result in larger circle diameter), and the relative size of the pie wedges is based on the concentrations of PCE, TCE, and VC.
 - Note that the dominant CVOC changes from PCE near the suspected source, to TCE in the middle of the inferred plume (e.g., near MW-28 and MW-27), and to VC near the distal end of the plume (to the east), reflecting degradation from the source to plume end.
 - The most recent data available for each well is shown, except for MW-20 (June 2022 data shown). PCE and TCE concentrations decreased from above CULs between December 2019 and June 2022, to non-detect in August 2022.

Please let me know if you would like to discuss the figures (we could squeeze it into our call on Monday).

Thank you,
Ryan



[Ryan Hultgren, P.E.](#) | Project Manager

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From: Ryan Hultgren
Sent: Friday, January 13, 2023 2:33 PM
To: Myers, Dale - TCP (ECY) <damy461@ecy.wa.gov>
Cc: Joshua Sales <JoshuaSales@KennedyJenks.com>
Subject: FW: Chevron 90129 (Brooklyn) draft Supplemental RI

Hi Dale,

Please find attached our tracked changes review of the Chevron 90129 (Brooklyn) Supplemental RI and comments to the tables and appendices. Also included are the draft figures I sent last week showing estimated extents of impacts. Please let me know when you would like to discuss the comments.

Thank you,
Ryan



Kennedy Jenks

[Ryan Hultgren, P.E.](#) | Project Manager

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Federal Way, WA 98001

Direct: 253-835-6432

Mobile: 253-549-9725

Teams: RyanHultgren@KennedyJenks.com

From: Ryan Hultgren
Sent: Friday, January 6, 2023 4:40 PM
To: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Subject: RE: Chevron 90129 (Brooklyn) draft Supplemental RI

Hello Dale,

I wanted to provide an update on the status of KJ's review of the Chevron 90129 (Brooklyn) Supplemental RI. Due to staff holiday / vacation time, my goal is to get our comments and mapped data to you by Tuesday/Wednesday next week.

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as well as consideration of results for former wells within the property extent.

Thank you,
Ryan



Ryan Hultgren, P.E. | Project Manager

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Teams: RyanHultgren@KennedyJenks.com

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From: Ryan Hultgren
Sent: Monday, December 12, 2022 1:50 PM
To: Myers, Dale - TCP (ECY) <DAMY461@ECY.WA.GOV>
Subject: RE: Chevron 90129 (Brooklyn) draft Supplemental RI

Good afternoon Dale,

I just checked EIM - the most recent data on EIM for Chevron 90129 (Brooklyn) is for groundwater sampling from December 2020. Can you please request the data from the Supplemental Investigation?

Study Details

Study ID: **AODE13815**

[Download Study Data](#)

| Study Basics | |
|---|--|
| Study ID | AODE13815 |
| Study Name | Former Chevron Service Station No. 90129 |
| EIM Data Entry Review Status | Not Reviewed |
| Study Type | Contaminated site investigation (characterization, includes RI/FS and remedial design) |
| Study Purpose | Removal of petroleum impacted soil, long term groundwater monitoring and soil borings to determine extent of impact. |
| Field Collection Date Range | 11/7/2016 - 12/9/2020 |
| Data First/Last Loaded Date | 5/5/2017 - 2/3/2021 |
| Data Last Updated Date | 2/3/2021 |
| Ecology Contact | Dale Myers |
| Ecology Program or Other Responsible Entity | Ecy Toxics Cleanup Program, Northwest Region |
| Ecology Monitoring Program | |
| Submitting Organization | Aspect Consulting LLC - Seattle WA |
| Study QA Planning Level | LEVEL 3: QAPP, SAP, or Equivalent. |
| Study QA Project Plan Description | |
| Study QA Assessment Level | Level 4: Data Verified and Assessed for Usability in a Formal Study Report |
| Study Result Description | |
| Study Comment | |
| Ecology Funding Number | |
| Ecology Facility/Site ID | 81966648 |
| Ecology Cleanup Site ID | 5046 |
| Study ID Aliases (Alias Type) | |

Thank you,
Ryan



Kennedy Jenks

Ryan Hultgren, P.E. | Project Manager

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From: [Hamilton, Ada](#)
To: [Myers, Dale - TCP \(ECY\)](#)
Cc: [Kiernan, James](#); [Bowring, Amanda](#); [Ryan Hultgren](#)
Subject: Chevron 90129 4700 Brooklyn - Status Update 04172023
Date: Monday, April 17, 2023 6:18:22 PM
Attachments: [Chevron Brooklyn 90129 - Status Update_04172023.pdf](#)

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Hello Dale,

On behalf of Chevron Environmental Management Company (CEMC), the following is a progress update for Chevron site 90129 (“Brooklyn”) located at 4700 Brooklyn Avenue NE in Seattle, Washington. This update satisfies the requirements of Agreed Order No. 13815 associated with the site which indicates that quarterly progress reports be submitted to the Washington State Department of Ecology by the 15th of the month following the reporting period. This update summarizes activities completed from January 1 through March 31, 2023.

Description of Actions Taken to Comply with Agreed Order

- Quarterly groundwater monitoring was scheduled for December 21, 2022; however, due to inclement winter weather conditions, it was rescheduled to take place January 4, 2023.
- Q1 2023 groundwater monitoring event was conducted on March 15, 2023
- Arcadis received comments from Ecology on the Supplemental Remedial Investigation Report in January 2023
- Arcadis submitted groundwater data to EIM

Summary of Deviations from Approved Work Plans

- No deviations from approved work plans to report.

Description of Work Planned for the Second Quarter Reporting Period

- Arcadis will submit the revised Supplemental Remedial Investigation Report with responses to Ecology’s comments
- Arcadis will continue to prepare and submit quarterly updates to Ecology.
- Arcadis will coordinate and conduct the second quarter 2023 groundwater monitoring event

Please let me know if you have any questions.

Thank you

-Ada

Ada Hamilton

Project Manager
Arcadis U.S., Inc.
1100 Olive Way, Suite 800 | Seattle, WA | 98101 | USA
T ++1 206 413 6430
M +1 206 321 3782
www.arcadis.com

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