July 19, 2016

Mr. Steve Teel
Washington State Department of Ecology
Southwest Regional Office, Toxics Cleanup Program
P.O. Box 47775
Olympia, Washington 98504-7775

Subject: **Fourth Quarter 2015 Groundwater Monitoring Report**
Cowlitz BP / Cowlitz Food and Fuel /
Former Texaco Service Station No. 211556
101 Mulford Road
Toledo, Washington

Dear Mr. Teel:

Leidos, Inc. (Leidos), on behalf of Chevron Environmental Management Company (CEMC), prepared this report summarizing the fourth quarter 2015 groundwater monitoring event at the above-referenced site (the Site) in Toledo, Washington (Figure 1). This report documents the first groundwater monitoring event performed following the completion our natural attenuation assessment for groundwater[1]. Groundwater monitoring at the Site is being performed pursuant to the terms and conditions of Agreed Order No. DE5236.

FIELD ACTIVITIES

Gettler-Ryan, Inc. (Gettler-Ryan) conducted the groundwater monitoring field event from November 16-18, 2015. They measured depth-to-groundwater and checked for the presence of light non-aqueous phase liquid (LNAPL) in 17 monitoring wells on the Site. Groundwater samples were collected from the 17 monitoring wells using low-flow purging and sampling techniques. Samples were submitted to Eurofins Lancaster Laboratories, Inc. for the following analyses:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (TPH-GRO) by Washington State Department of Ecology (Ecology) Method NWTPH-Gx;
- TPH as diesel-range organics (TPH-DRO) and heavy oil-range organics (TPH-HRO) by Ecology Method NWTPH-Dx extended;

[1] Leidos Engineering, LLC, "Natural Attenuation Assessment for Groundwater - Cowlitz BP / Cowlitz Food and Fuel / Former Texaco Service Station No. 211556", October 29, 105.

- TPH-DRO and TPH-HRO by Ecology Method NWTPH-Dx extended with silica-gel cleanup;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by United States Environmental Protection Agency (USEPA) Method 8260B; and
- Dissolved lead by USEPA Method 6020.

Purge water generated during this sampling event was treated at the Site by Gettler-Ryan using an activated carbon filtration system. A sample of the treated water (TPWHD-1) was also collected and analyzed for the presence of petroleum constituents. Following treatment, the purge water was containerized in 55-gallon drums, which are stored in a secondary containment overpack at the Site while awaiting laboratory results and Ecology authorization for disposal by surface discharge.

Field data sheets are provided in the Gettler-Ryan groundwater monitoring and sampling data package, which is included as Attachment A.

FINDINGS

During this event, the groundwater elevation across the Site ranged from 103.24 feet in monitoring well B-2 to 100.19 feet in monitoring well MW-116 (relative to the North American Vertical Datum of 1988). Groundwater elevation data from this event indicates that groundwater flow is toward the southeast at a gradient of approximately 0.003 to 0.005 feet per foot (Figure 2). Groundwater elevations at the Site increased an average of 3.05 feet since the previous monitoring event in August 2015.

LNAPL was not detected in any of the wells monitored.

The following analytes were detected at concentrations exceeding their respective Model Toxics Control Act (MTCA) Method A cleanup levels:

- TPH-GRO was detected in monitoring wells MW-111, B-3 and B-4;
- TPH-DRO (analyzed without silica-gel cleanup) was detected in monitoring wells B-3 and B-4;
- TPH-HRO (analyzed without silica-gel cleanup) was detected in monitoring well B-4; and
- Dissolved lead was detected in monitoring wells B-3 and B-4.

Current and historical groundwater elevation data, LNAPL thickness data, and laboratory analytical results are summarized in Table 1. Groundwater analytical results for the most recent four quarters of monitoring are also presented on Figure 3. Results of the purge-water sample analysis for sample TPWHD-1 were non-detect for all requested analyses.

Laboratory analysis reports are provided as Attachment B.

DISCUSSION

Groundwater monitoring results from this event are consistent with historical data for the Site. Long-term sampling results indicate that groundwater conditions throughout much

of the Site are in compliance with drinking water quality standards. However, dissolved-phase TPH-GRO continues to be detected above the MTCA Method A cleanup level in a small portion of the Site, which is immediately downgradient of the dispenser islands and UST basin. Results of the previously referenced natural attenuation assessment completed by Leidos in 2015 indicate that the dissolved-phase TPH-GRO plume in this area is shrinking due to on-going microbial degradation of the petroleum source in this area.

Based on comparison of results NWTPH-Dx analyses performed with and without silica-gel cleanup, detections of TPH-DRO and TPH-HRO at the Site that exceed Method A cleanup levels are believed to result from the presence of polar compounds produced by the biodegradation of TPH-GRO contamination at the Site, and are not indicative of dissolve-phase TPH-DRO or TPH-HRO in groundwater.

As approved by your email on February 9, 2016, the frequency of future groundwater monitoring at the Site has been reduced from quarterly to a semiannual basis, with sampling to be performed during the second and fourth quarters of each year. Gettler-Ryan conducted the second quarter 2016 monitoring event May 13 -14, 2016. Results of that monitoring event will be presented in a future report. The next monitoring event at the Site is currently scheduled for November 2016.

If you have any questions or comments regarding the information presented in this report, please contact me at (425) 482-3323 or via email at russell.s.shropshire@leidos.com.

Sincerely,

Leidos Engineering, LLC

Russell S. Shropshire, PE
Principal Engineer

Enclosures:
Figure 1 – Vicinity Map
Figure 2 – Potentiometric Map
Figure 3 – Groundwater Analytical Results – February 2015 through November 2015
Table 1 – Groundwater Monitoring Data and Analytical Results
Attachment A – Groundwater Monitoring and Sampling Data Package
Attachment B – Laboratory Analysis Report

cc: Mr. Mark Horne – CEMC (electronically via email)
Mr. Charles Vineyard (electronically via email)
Mr. John Houlihan – Houlihan Law (electronically via email)
Project File

REPORT LIMITATIONS

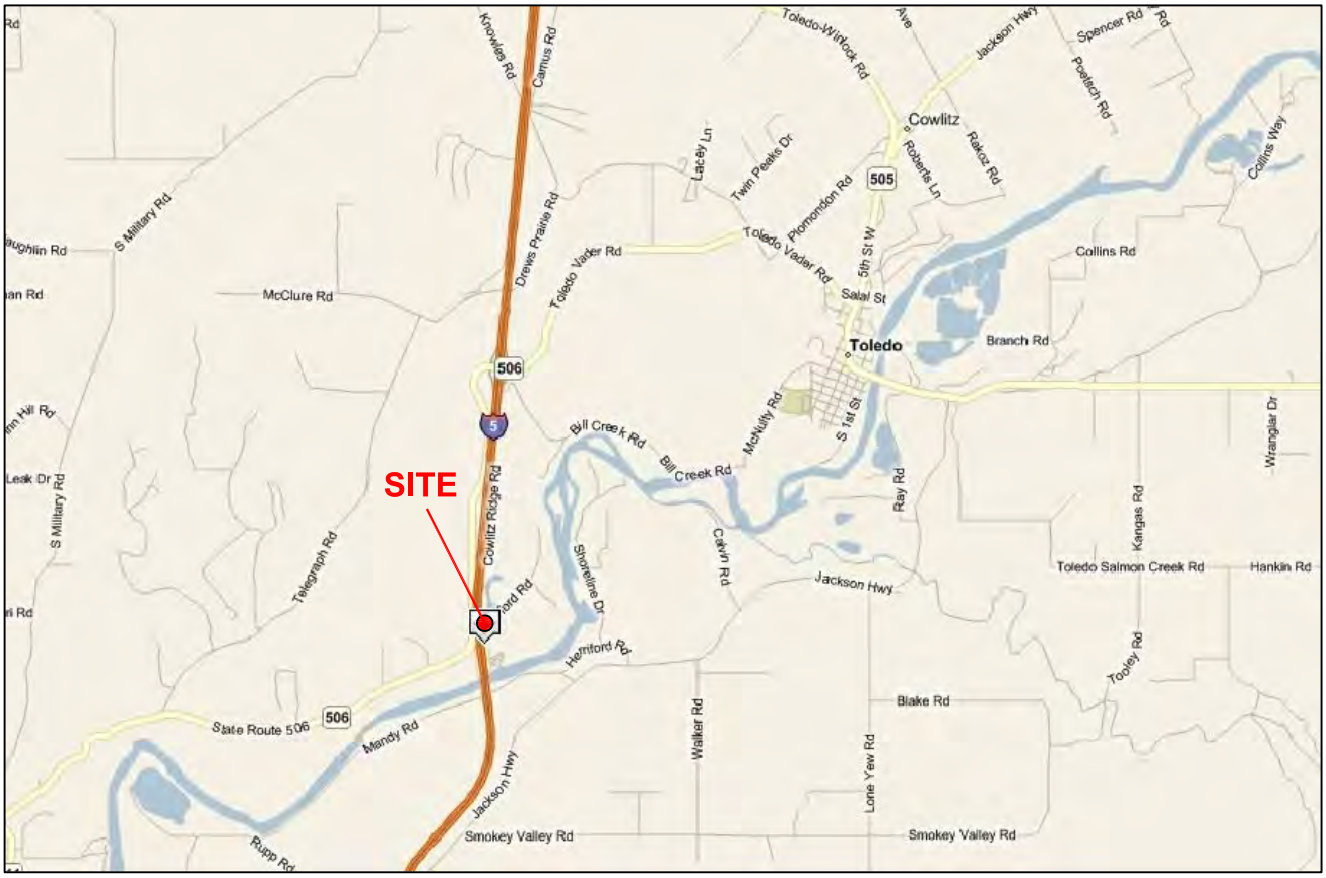
This technical document was prepared on behalf of CEMC and is intended for its sole use and for use by the local, state, or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and Leidos shall have no responsibility or liability for the consequences thereof.

Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from CEMC and others. Leidos has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of Leidos site visits or site work and cannot be applied to conditions and features of which Leidos is unaware and has not had the opportunity to evaluate.

All sources of information on which Leidos has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied on by Leidos in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.



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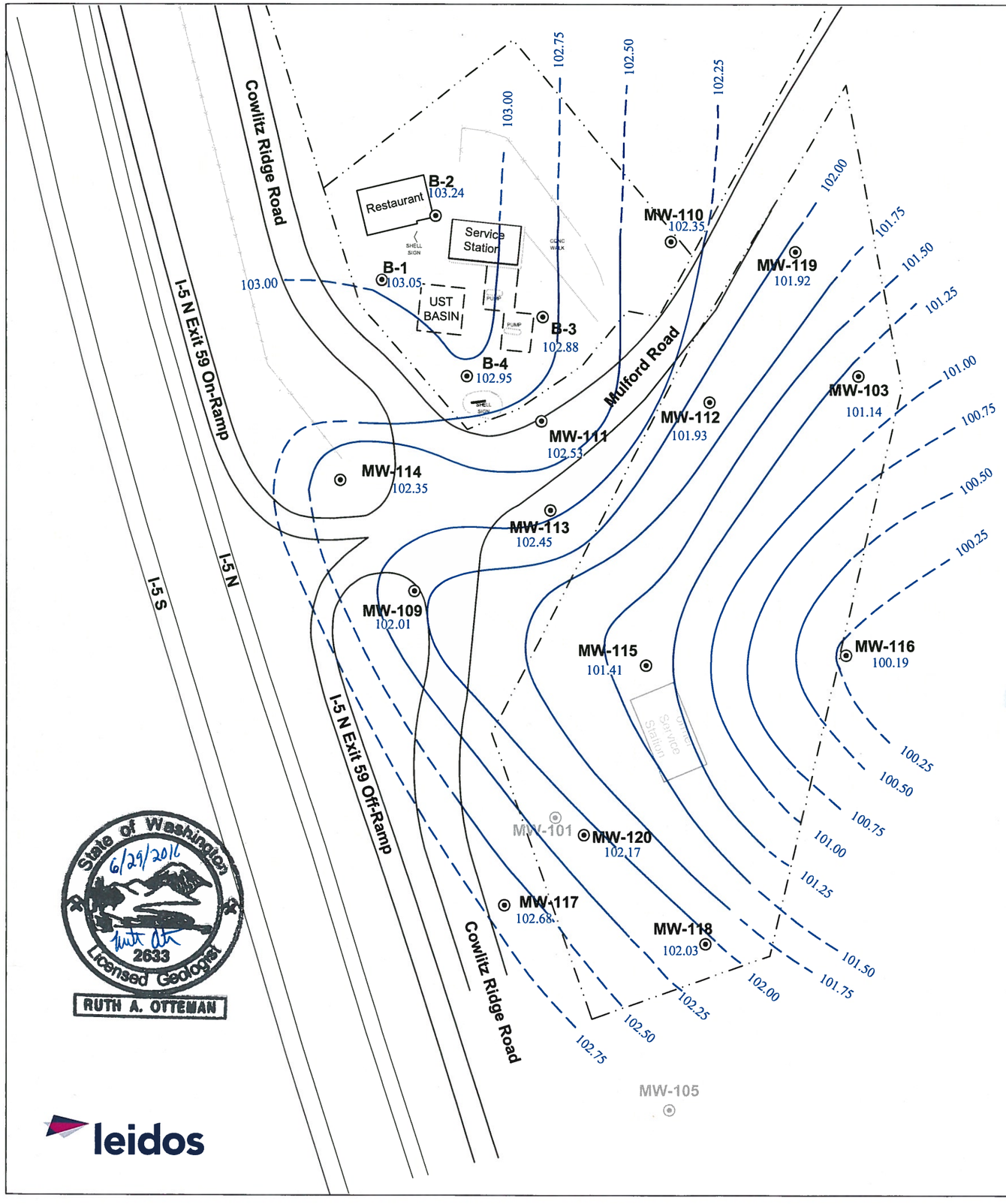
Former Texaco Service Station No. 211556
101 Mulford Road
Toledo, Washington

FIGURE 1
Vicinity Map

DATE: 2/21/2014 | DRAWING: 211556_VM.dwg



N

0' 80'

Scale in Feet

LEGEND

MW-114	Monitoring Well Location
MW-101	Former Monitoring Well Location Decommissioned October 2010
	Property Boundary
	Fence
	Current Site Features
	Former Station Facilities
UST	Underground Storage Tank
99.91	Groundwater Elevation in Feet
100.25	Groundwater Elevation Contour at 0.25-Foot Interval (Dashed Where Inferred)
	Approximate Groundwater Flow Direction at a Gradient of 0.003 to 0.01 Foot per Foot

State of Washington
6/29/2016
2633
Licensed Geologist
RUTH A. OTTEMAN

leidos

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Former Texaco Service Station No. 211556
101 Mulford Road
Toledo, Washington

FIGURE 2
Potentiometric Map
November 16 to 18, 2015

DATE: 5/23/2016 | DRAWING: 211556 2012 Site Map.dwg

B-1

Date	2/17/2015	5/13/2015	8/11/2015	11/18/2015
GRO	<50	<50	<50	<50
DRO	<28	<28	<28	<29
DRO*	<28	<28	89	<29
HRO	<66	<66	<66	<67
HRO*	<66	<66	74	<67
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

B-2

Date	2/17/2015	5/13/2015	8/11/2015	11/18/2015
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<29
DRO*	<29	<28	<29	<29
HRO	<67	<66	<67	<67
HRO*	<67	<66	<67	<67
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

B-4

Date	2/20/2015	5/13/2015	8/11/2015	11/18/2015
GRO	550	**940**	600	**2,000**
DRO	95	130	66	130
DRO*	290	210	500	**750**
HRO	240	<66	<66	270
HRO*	470	<66	340	**740**
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	1	<0.5	4
Total Xylenes	<0.5	<0.5	0.6	<0.5

MW-110

Date	2/17/2015	5/11/2015	8/11/2015	11/16/2015
GRO	<50	<50	<50	<50
DRO	<30	<29	<28	<29
DRO*	<30	<29	<28	<29
HRO	<70	<68	<66	<67
HRO*	<70	<68	<66	<67
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-119

Date	2/19/2015	5/11/2015	8/10/2015	11/16/2015
GRO	<50	<50	<50	<50
DRO	<28	<28	<28	<29
DRO*	<28	<28	<28	<29
HRO	<66	<66	<66	<67
HRO*	<66	<66	<66	<67
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

B-3

Date	2/20/2015	5/13/2015	8/11/2015	11/18/2015
GRO	650	**1,400**	660	**880**
DRO	150	120	130	57
DRO*	490	**690**	**2,000**	**1,200**
HRO	<66	<66	<67	<67
HRO*	180	<66	**550**	180
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	33	5	2
Total Xylenes	<0.5	0.9	0.5	<0.5

MW-103

Date	2/19/2015	5/11/2015	8/10/2015	11/16/2015
GRO	<50	<50	<50	<50
DRO	<29	<28	<28	<28
DRO*	<29	<28	<28	<28
HRO	<69	<66	<66	<66
HRO*	<69	<66	<66	<66
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-112

Date	2/19/2015	5/11/2015	8/10/2015	11/16/2015
GRO	<50	<50	<50	<50
DRO	<30	<28	<28	<29
DRO*	<30	<28	<28	<29
HRO	<69	<66	<66	<67
HRO*	<69	<66	<66	<67
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-111

Date	2/20/2015	5/13/2015	8/11/2015	11/18/2015
GRO	**3,600**	**4,400**	**4,500**	**1,900**
DRO	230	320	470	150
DRO*	**730**	**1,000**	**2,700**	450
HRO	<68	<66	<67	<67
HRO*	180	<66	93	270
Benzene	1	1	<3	<0.5
Toluene	<0.5	<0.5	<3	<0.5
Ethylbenzene	44	71	31	9
Total Xylenes	3	5	6	1

MW-116

Date	2/19/2015	5/12/2015	8/10/2015	11/17/2015
GRO	<50	<50	<50	<50
DRO	<30	<29	<28	<29
DRO*	<30	<29	<28	<29
HRO	<69	<68	<66	<67
HRO*	<69	<68	<66	<67
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-113

Date	2/19/2015	5/13/2015	8/10/2015	11/16/2015
GRO	<50	75	<50	<50
DRO	<30	<29	<28	<29
DRO*	<30	<29	<28	<29
HRO	<70	<67	<66	<68
HRO*	<70	<67	<66	<68
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-114

Date	2/18/2015	5/12/2015	8/11/2015	11/18/2015
GRO	<50	<50	<50	<0.5
DRO	<30	<29	<29	<29
DRO*	<30	<29	130	49
HRO	<69	<67	170	<67
HRO*	<69	<67	**570**	280
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-109

Date	2/18/2015	5/12/2015	8/11/2015	11/17/2015
GRO	<50	<50	<50	<50
DRO	<30	<29	<29	<28
DRO*	<30	<29	130	36
HRO	<69	<67	210	<66
HRO*	<69	<67	**640**	97
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-115

Date	2/18/2015	5/12/2015	8/10/2015	11/17/2015
GRO	<50	<50	<50	<50
DRO	<29	<29	<28	<29
DRO*	<29	<29	33	<29
HRO	<67	<68	<66	<67
HRO*	<67	<68	<66	<67
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-120

Date	2/18/2015	5/12/2015	8/10/2015	11/17/2015
GRO	<50	<50	<50	<50
DRO	<29	<29	<28	<28
DRO*	<29	<29	<28	<28
HRO	<68	<68	<66	<66
HRO*	<68	<68	<66	<66
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-117

Date	2/19/2015	5/12/2015	8/10/2015	11/17/2015
GRO	<50	<50	<50	<50
DRO	<29	<29	<28	<28
DRO*	<29	<29	<28	<28
HRO	<69	<67	<66	<66
HRO*	<69	<67	<66	<66
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

MW-118

Date	2/18/2015	5/12/2015	8/10/2015	11/17/2015
GRO	<50	<50	<50	<50
DRO	<29	75	<28	<29
DRO*	<29	69	<28	<29
HRO	<67	<67	<66	<67
HRO*	<67	<67	<66	<67
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
Total Xylenes	<0.5	<0.5	<0.5	<0.5

N

0 80'

Scale in Feet

LEGEND:

- **MW-114** — Monitoring Well Location
- MW-101 — Former Monitoring Well Location
- Property Boundary
- Fence
- Current Site Features
- Former Station Facilities
- UST — Underground Storage Tank
- Estimated Horizontal Extent of Groundwater Containing Petroleum Hydrocarbon Contamination Above MTCA Method A Cleanup Levels
- <0.5 — Laboratory Analytical Result Less Than The Achievable Method Detection Limit
- 1 — Laboratory Analytical Result Less Than The MTCA Method A Cleanup Level
- **5,500** — Laboratory Analytical Result In Excess of the MTCA Method A Cleanup Level
- -- — Not Analyzed
- * — Analyzed without Silica Gel Cleanup

All Concentration Data Reported In Micrograms per Liter

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Cowlitz BP / Cowlitz Food and Fuel /
Former Texaco Service Station No. 211556
101 Mulford Road
Toledo, Washington

FIGURE 3

Groundwater Analytical Results -
February 2015 through November 2015

DATE: 6/29/2016 | DRAWING: Site Map.dwg

Attachment A:
Groundwater Monitoring and Sampling Data Package

GETTLER-RYAN INC.

TRANSMITTAL

November 30, 2015
G-R #386773

TO: Mr. Russell Shropshire
Leidos, Inc.
18912 North Creek Parkway, Suite 101
Bothell, Washington 98011

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Texaco Service Station
#211556/Cowlitz BP
101 Mulford Road
Toledo, Washington
UST Site#10669

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Fourth Quarter Event of November 16, 17 & 18, 2015**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/211556

Standard Operating Procedure, Low-Flow Purging and Sampling

Gettler-Ryan Inc. field personnel adhere to the following Standard Operating Procedure (SOP) for the collection and handling of representative groundwater samples using the Low-Flow (Minimal-Drawdown) Purging technique. This SOP incorporates purging and sampling methods discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - *"Low-Flow (Minimal-Drawdown) Ground-Water Sampling Procedures."*

A QED Well Wizard™ (or equivalent) bladder pump or Peristaltic Pump will be used to purge and sample selected wells as outlined in the scope-of-work. An in-line flow cell or other multi-parameter meter is used to collect water quality indicating parameters during purging.

Initial Pump Discharge Test Procedures

The Static Water Level (SWL) is measured in all wells at the site prior to the installation of the pump or tubing and initiation of the test procedures in any well. In addition, the presence or absence of separate-phase hydrocarbons (SPH) is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot. The SWL measurement and SPH thickness, if any, will be recorded on the field data sheet.

The bladder pump or suction inlet tubing of the peristaltic pump is then positioned with its inlet located within the screened interval of the well. The in-line flow cell is then connected to the discharge tubing. After pump installation, the SWL is allowed to recover to its original level. The pump is then started at a discharge rate between 100 ml to 300 ml per minute with the in-line flow cell connected. The water level is monitored continuously for any change from the original measurement and the discharge rate is adjusted until an optimum discharge rate (ODR) is determined. The goal for the ODR is to produce a stable drawdown of less than 0.1 meter as allowed by site conditions; however the total drawdown from the initial SWL should not exceed 25% of the distance between pump inlet location and the top of the well screen. Once achieved, the ODR will be confirmed by volumetric discharge measurement and recorded on the field data sheet.

Purging and Water Quality Parameter Measurement

When the ODR has been determined and the SWL drawdown has been established within the acceptable range, and a minimum of one pump system volume (bladder volume and/or discharge tubing volume) has been purged, field measurements for temperature (T), pH, conductivity (Ec), and if required, oxygen reduction potential (ORP) and dissolved oxygen (DO) will be collected and documented on the field data sheet. Measurements should be taken every three to five minutes until parameters stabilize for three consecutive readings. The minimum parameter subset of T (± 10%), pH (± 0.1 unit), and Ec (± 10 uS) are required to stabilize. Additional parameters that may be required are DO (± 0.2 mg/l) and ORP (± 20 mV).

Sample Collection

When water quality parameters have stabilized, and the SWL drawdown remains established within the acceptable range, groundwater sample collection may begin. If used, the in-line flow cell and its tubing are disconnected from the discharge tubing prior to sample collection. Water samples are collected from the discharge tubing into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler,

maintained at 4°C for transport to the laboratory. A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 | Job Number: 386773
Site Address: 101 Mulford Road | Event Date: 11/16 - 18/15 (inclusive)
City: Toledo, WA | Sampler: GM

Well ID: MW-103 | Date Monitored: 11/16/15
Well Diameter: (2)/4 in.
Total Depth: 18.35 ft.
Depth to Water: 6.67 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

11.68 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 1300 | Weather Conditions: CLOUDY
Sample Time/Date: 1355 / 11/16/15 | Water Color: CLEAR | Odor: Y (N)
Approx. Flow Rate: 200 mlpm | Sediment Description: SL SILT
Did well de-water? NO | If yes, Time: — | Volume: — ltrs | DTW @ Sampling: 6.71

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1318	3.6	6.73	124.2	14.0	1.5	151	6.70
1321	4.2	6.72	124.0	14.0	1.4	148	6.71
1324	4.8	6.70	123.4	13.8	1.4	146	6.71

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-103	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 12.50ft.

Add/Replaced Gasket: ____ Add/Replaced Bolt: ____ Add/Replaced Plug: ____ Add/Replaced Lock: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 386773
Site Address: 101 Mulford Road Event Date: 11/16/15-11/18/15 (inclusive)
City: Toledo, WA Sampler: GM

Well ID MW-109 Date Monitored: 11/16/15
Well Diameter (2) 4 in.
Total Depth 12.66 ft.
Depth to Water 5.34 ft.
7.32 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump	X	Peristaltic Pump	X
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr
Product Transferred to: ___

Start Time (purge): 1410 Weather Conditions: RAIN
Sample Time/Date: 1505 / 11/17/15 Water Color: CLOUDY Odor: Y (N)
Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
Did well de-water? NO If yes, Time: ___ Volume: ___ ltrs DTW @ Sampling: 6.40

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1428	3.6	7.26	241	14.6	0.9	36	5.40
1431	4.2	7.24	239	14.6	1.0	34	5.40
1434	4.8	7.21	238	14.5	1.0	33	5.40

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-109	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈9.00 Ft.

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Plug: ___ Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 | Job Number: 386773
Site Address: 101 Mulford Road | Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA | Sampler: GM

Well ID: MW-110 | Date Monitored: 11/16/15
Well Diameter: 2 (4) in.
Total Depth: 19.81 ft.
Depth to Water: 6.54 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

13.27 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Sampling Equipment:
Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr
Product Transferred to: ___

Start Time (purge): 0722 | Weather Conditions: Cloudy
Sample Time/Date: 0815 / 11/18/15 | Water Color: Clear | Odor: Y (N)
Approx. Flow Rate: 200 mlpm | Sediment Description: none
Did well de-water? NO | If yes, Time: ___ | Volume: ___ ltrs | DTW @ Sampling: 6.54

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0740	3.6	6.79	130.6	13.4	1.1	104	6.54
0743	4.2	6.74	129.0	13.2	1.2	102	6.54
0746	4.8	6.70	128.6	13.1	1.3	101	6.54

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-110	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈13.00ft.

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Plug: ___ Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 386773
Site Address: 101 Mulford Road Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA Sampler: GM

Well ID MW-111 Date Monitored: 11/16/15
Well Diameter ~~2~~ 4 in.
Total Depth 17.77 ft.
Depth to Water 4.59 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

13.18 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump X
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump X
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 1325 Weather Conditions: Cloudy
Sample Time/Date: 1415 / 11/18/15 Water Color: Cloudy Odor: Y (N)
Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
Did well de-water? no If yes, Time: — Volume: — ltrs DTW @ Sampling: 4.59

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS/ mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1343	3.6	6.75	359	14.6	0.9	-9	4.59
1346	4.2	6.77	358	14.5	1.0	-10	4.59
1349	4.8	6.70	355	14.3	1.0	-12	4.59

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-111	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈11.25ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 386773
Site Address: 101 Mulford Road Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA Sampler: GM

Well ID MW-112 Date Monitored: 11/18/15
Well Diameter (2)4 in.
Total Depth 17-29 ft.
Depth to Water 5.65 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

11.64 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: (0) ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr
Product Transferred to: ___

Start Time (purge): 1410 Weather Conditions: CLOUDY
Sample Time/Date: 1505 / 11/16/15 Water Color: CLOUDY Odor: Y (N)
Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
Did well de-water? NO If yes, Time: ___ Volume: ___ ltrs DTW @ Sampling: 5.69

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1428	3.6	6.64	265	14.6	1.0	30	5.68
1431	4.2	6.62	264	14.5	1.1	28	5.69
1434	4.8	6.60	262	14.5	1.0	27	5.69

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-112	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2(0) x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈1150 ft.

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Plug: ___ Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 386773
Site Address: 101 Mulford Road Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA Sampler: GM

Well ID MW-113 Date Monitored: 11/16/15
Well Diameter 2 (4) in.
Total Depth 18.11 ft.
Depth to Water 5.99 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

12.12 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Sampling Equipment:
Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: 0.00 ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr
Product Transferred to: ___

Start Time (purge): 1530 Weather Conditions: RAIN
Sample Time/Date: 1620 / 11/17/15 Water Color: CLEAR Odor (Y) N SLIGHT
Approx. Flow Rate: 200 mlpm Sediment Description: NONE
Did well de-water? NO If yes, Time: — Volume: — ltrs DTW @ Sampling: 6.01

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1548	3.6	6.25	123.6	12.1	1.2	154	6.01
1551	4.2	6.24	122.9	12.0	1.2	151	6.01
1554	4.8	6.21	120.1	12.0	1.2	149	6.01

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-113	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 12.00ft

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Plug: ___ Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 | Job Number: 386773
Site Address: 101 Mulford Road | Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA | Sampler: GM

Well ID: MW-114 | Date Monitored: 11/16/15
Well Diameter: (2) 4 in.
Total Depth: 14.81 ft.
Depth to Water: 4.54 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

12.27 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 1440 | Weather Conditions: CLOUDY
Sample Time/Date: 1530 11/18/15 | Water Color: CLOUDY Odor: Y (N) SLIGHT
Approx. Flow Rate: 200 mlpm | Sediment Description: SL SILT
Did well de-water? NO If yes, Time: — Volume: — ltrs DTW @ Sampling: 4.56

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1458	3.6	6.79	704	14.3	1.4	79.6	4.55
1501	4.2	6.75	701	14.1	1.4	79.2	4.56
1504	4.8	6.73	699	14.0	1.3	79.1	4.56

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-114	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 10.50ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 386773
Site Address: 101 Mulford Road Event Date: 11/16-19/15 (inclusive)
City: Toledo, WA Sampler: GM

Well ID MW-11S Date Monitored: 11/16/15
Well Diameter 2 (4) in.
Total Depth 17.47 ft.
Depth to Water 6.53 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

10.94 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump	X	Peristaltic Pump	X
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 1252 Weather Conditions: RAIN
Sample Time/Date: 1345 / 11/17/15 Water Color: CLEAR Odor: (Y) N SLIGHT
Approx. Flow Rate: 200 mlpm Sediment Description: NONE
Did well de-water? NO If yes, Time: — Volume: — ltrs DTW @ Sampling: 6.53

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C) F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1310	3.6	6.56	86.9	14.2	1.1	151	6.53
1313	4.2	6.55	86.5	14.0	1.1	149	6.53
1316	4.8	6.53	86.4	13.9	1.0	146	6.53

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11S	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 12.00ft

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Plug: Add/Replaced Lock:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 386773
Site Address: 101 Mulford Road Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA Sampler: GM

Well ID MW-11C Date Monitored: 11/16/15
Well Diameter (2) 4 in.
Total Depth 17.58 ft.
Depth to Water 7.37 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

10.21 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Sampling Equipment:
Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr
Product Transferred to: ___

Start Time (purge): 0808 Weather Conditions: RAIN
Sample Time/Date: 0900 / 11/17/15 Water Color: TAN Odor: Y (N)
Approx. Flow Rate: 200 mlpm Sediment Description: SLIGHT
Did well de-water? NO If yes, Time: ___ Volume: ___ ltrs DTW @ Sampling: 7.40

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0826	3.6	6.43	124.1	13.7	1.2	147	7.40
0829	4.2	6.42	123.8	13.6	1.3	145	7.40
0832	4.8	6.39	123.7	13.6	1.3	144	7.40

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11C	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 12.50ft.

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Plug: ___ Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 | Job Number: 386773
Site Address: 101 Mulford Road | Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA | Sampler: GM

Well ID: MW-117 | Date Monitored: 11/16/15
Well Diameter: (2) 4 in.
Total Depth: 17.63 ft.
Depth to Water: 3.89 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

13.74 xVF ~ = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump	X	Peristaltic Pump	X
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description: Ø
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr
Product Transferred to: _____

Start Time (purge): 1035 | Weather Conditions: RAIN
Sample Time/Date: 1130/11/17/15 | Water Color: CLOUDY Odor: Y / (N)
Approx. Flow Rate: 200 mlpm | Sediment Description: SL SILT
Did well de-water? NO If yes, Time: — Volume: — ltrs DTW @ Sampling: 3.89

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1053	3.6	6.58	74.0	13.9	1.4	54	3.89
1056	4.2	6.57	77.9	13.9	1.4	52	3.89
1059	4.8	6.55	73.6	13.8	1.4	51	3.89

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-117	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 10.75ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #211556** Job Number: **386773**
Site Address: **101 Mulford Road** Event Date: 11/16-18/15 (inclusive)
City: **Toledo, WA** Sampler: GM

Well ID MW-11B Date Monitored: 11/16-18/15
Well Diameter (2)4 in.
Total Depth 17.21 ft.
Depth to Water 4.69 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

12.52 xVF ____ = ____ x3 case volume = Estimated Purge Volume: ____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ____

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump	X	Peristaltic Pump	X
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: ____ (2400 hrs)
Time Completed: ____ (2400 hrs)
Depth to Product: ____ ft
Depth to Water: ____ ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description: ____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ ltr
Amt Removed from Well: ____ ltr
Water Removed: ____ ltr
Product Transferred to: ____

Start Time (purge): 0925 Weather Conditions: RAIN
Sample Time/Date: 1015 / 11/17/15 Water Color: CLEAR Odor: Y (N)
Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
Did well de-water? NO If yes, Time: ____ Volume: ____ ltrs DTW @ Sampling: 4.69

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0943	3.6	6.59	128.0	13.7	1.1	102	4.69
0946	4.2	6.57	127.4	13.5	1.0	103	4.69
0949	4.8	6.55	127.2	13.4	1.0	102	4.69

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11B	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ~11.0ft.

Add/Replaced Gasket: ____ Add/Replaced Bolt: ____ Add/Replaced Plug: ____ Add/Replaced Lock: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 | Job Number: 386773
Site Address: 101 Mulford Road | Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA | Sampler: GM

Well ID: MW-119 | Date Monitored: 11/16/15
Well Diameter: (2) 4 in.
Total Depth: 16.69 ft.
Depth to Water: 6.43 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

10.26 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Sampling Equipment:
Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: (0) ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr
Product Transferred to: ___

Start Time (purge): 1150 | Weather Conditions: CLOUDY
Sample Time/Date: 1240 / 11/16/15 | Water Color: TAN | Odor: Y (N)
Approx. Flow Rate: 200 mlpm | Sediment Description: SL SILT
Did well de-water? NO | If yes, Time: ___ | Volume: ___ ltrs | DTW @ Sampling: 6.43

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1208	3.6	6.75	278	14.4	1.2	162	6.43
1211	4.2	6.74	277	14.2	1.3	159	6.43
1214	4.8	6.74	276	14.1	1.2	156	6.43

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-119	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: @ 11.50ft.

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Plug: ___ Add/Replaced Lock: ___

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 | Job Number: 386773
Site Address: 101 Mulford Road | Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA | Sampler: GM

Well ID: MW-120 | Date Monitored: 11/16/15
Well Diameter: (2) 4 in.
Total Depth: 16.83 ft.
Depth to Water: 4.94 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

11.89 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump: X
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump: X
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 1145 | Weather Conditions: RAIN
Sample Time/Date: 1235 / 11/17/15 | Water Color: CLOUDY | Odor: Y / (N)
Approx. Flow Rate: 200 mlpm | Sediment Description: SL SILT
Did well de-water? NO | If yes, Time: — | Volume: — ltrs | DTW @ Sampling: 4.98

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1203	3.6	6.78	234	14.1	1.5	96	4.97
1206	4.2	6.69	232	14.0	1.3	95	4.97
1209	4.8	6.68	230	13.8	1.2	93	4.98

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-120	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 11.00ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 Job Number: 386773
Site Address: 101 Mulford Road Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA Sampler: GM

Well ID B-1 Date Monitored: 11/16/15
Well Diameter (2) 4 in.
Total Depth 19.77 ft.
Depth to Water 4.69 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

15.08 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:		Sampling Equipment:	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump	X	Peristaltic Pump	X
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0.5 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 1055 Weather Conditions: CLOUDY
Sample Time/Date: 1145/11/18/15 Water Color: cloudy Odor: (Y) N SLIGHT
Approx. Flow Rate: 200 mlpm Sediment Description: CL SILT
Did well de-water? NO If yes, Time: — Volume: — ltrs DTW @ Sampling: 4.69

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1113	3.6	6.29	227	15.1	1.4	58	4.69
1116	4.2	6.25	225	15.0	1.3	59	4.69
1119	4.8	6.22	224	14.8	1.2	50	4.69

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-1	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈12.25ft.

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Plug: Add/Replaced Lock:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: **Chevron #211556** Job Number: **386773**
Site Address: **101 Mulford Road** Event Date: 11/16-18/15 (inclusive)
City: **Toledo, WA** Sampler: GM

Well ID B-2 Date Monitored: 11/16/15
Well Diameter 2 | 4 in.
Total Depth 19.02 ft.
Depth to Water 5.75 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

13.27 xVF ~~\~~ = ~~—~~ x3 case volume = Estimated Purge Volume: ~~—~~ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ~~—~~

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump	X	Peristaltic Pump	X
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: ~~0~~ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr
Product Transferred to: _____

Start Time (purge): 0940 Weather Conditions: CLOUDY
Sample Time/Date: 1035 / 11/18/15 Water Color: CLOUDY Odor: (Y) / N SLIGHT
Approx. Flow Rate: 200 mlpm Sediment Description: SL SILT
Did well de-water? NO If yes, Time: ~~—~~ Volume: ~~—~~ ltrs DTW @ Sampling: 5.78

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0958	3.6	6.74	235	14.0	1.0	148	5.77
1001	4.2	6.72	233	14.0	1.3	147	5.77
1004	4.8	6.70	230	13.9	1.2	145	5.78

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-2	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: ≈ 12.50ft.

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 | Job Number: 386773
Site Address: 101 Mulford Road | Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA | Sampler: GM

Well ID: B-3 | Date Monitored: 11/16/15
Well Diameter: (2) 4 in.
Total Depth: 13.51 ft.
Depth to Water: 5.58 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

7.93 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr
Product Transferred to:

Start Time (purge): 0830 | Weather Conditions: CLOUDY
Sample Time/Date: 0920/11/18/15 | Water Color: CLOUDY Odor (Y) N SLIGHT
Approx. Flow Rate: 200 mlpm | Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — ltrs DTW @ Sampling: 5.61

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µS~~) mS µmhos/cm)	Temperature (~~C~~) F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0848	3.6	5.70	428	15.6	1.3	117	5.60
0851	4.2	5.68	427	15.4	1.3	114	5.61
0854	4.8	5.64	426	15.1	1.4	111	5.61

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-3	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: 9.54

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Plug: _____ Add/Replaced Lock: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
LOW FLOW FIELD DATA SHEET

Client/Facility#: Chevron #211556 | Job Number: 386773
Site Address: 101 Mulford Road | Event Date: 11/16-18/15 (inclusive)
City: Toledo, WA | Sampler: GM

Well ID: B-4 | Date Monitored: 11/16/15
Well Diameter: 2 | 4 in.
Total Depth: 14.66 ft.
Depth to Water: 4.73 ft.
9.93 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.
☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Sampling Equipment:
Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump X
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr
Product Transferred to: ___

Start Time (purge): 1205 | Weather Conditions: CLOUDY
Sample Time/Date: 1300/11/18/15 | Water Color: CLOUDY Odor: (Y) / N MODERATE
Approx. Flow Rate: 200 mlpm | Sediment Description: SLIGHT
Did well de-water? NO If yes, Time: ___ Volume: ___ ltrs DTW @ Sampling: 4.76

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS / mS) µmhos/cm	Temperature (C) F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1223	3.6	6.65	263	14.6	1.0	-7	4.75
1226	4.2	6.62	262	14.5	1.2	-9	4.76
1229	4.8	6.59	260	14.	1.1	-10	4.76

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-4	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc/NWTPH-Dx
	1 x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)
	x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD(6020 ICP/MS)

COMMENTS: Depth Pump Set At: 9.69

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Plug: ___ Add/Replaced Lock: ___

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information

Facility # SS#211556-OML G-R#386773 WBS

Site Address 101 Mulford Road, TOLEDO, WA

Chevron PM MHO LEIDOSRS Lead Consultant Russell Shropshire

Consultant/Office Getler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)

Consultant Phone # (925) 551-7444 x180

Sampler G. MEDINA

SCR #: _____

2 Sample Identification

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Potable Water	NPDES	Surface Water	Air	Oil	Total Number of Containers	5 Analyses Requested: BTEX + MTBE	8021	8260	Naphth	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA EPH	WA VPH	Lead	Total	Diss.	Method 6020 ICP/MS
QA	11/16/15	—	X			X					2	X						X								
MW-103	↓	1355								9	18								X	X			X			
MW-109	17	1505																								
MW-110	18	0815																								
MW-111	↓	1415																								
MW-112	16	1505																								
MW-113	17	1620																								
MW-114	18	1530																								
MW-115	17	1345																								
MW-116		0900																								
MW-117		1130																								
MW-118	↓	1015																								
MW-119	16	1240	↓			↓				↓	↓	↓						↓	↓	↓			↓			

- [ ] 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

6 Remarks

Please report results for Dx with & without sgc. Dissolved Iron, Lead, and Manganese, as well as Alkalinity samples have been field filtered.

Number of containers is 9. JM 11/23/15

Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | EDF/EDD | 72 hour | 48 hour | 24 hour

Relinquished by	Date	Time	Received by	Date	Time
[signature]	11/19/15	1400	[signature]	11/19/15	14:00

8 Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default)

Other: _____

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information

Facility # SS#211556-OML G-R#386773 WBS

Site Address 101 Mulford Road, TOLEDO, WA

Chevron PM MHO LEIDOSRS Lead Consultant Russell Shropshire

Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)

Consultant Phone # (925) 551-7444 x180

Sampler G. MEDINA

SCR #: _____

2 Sample Identification

Sample Identification	Collected Date	Collected Time	3 Grab	Composite	4 Matrix: Soil	Water	Oil	Total Number of Containers	5 Analyses Requested: BTEX + MTBE 8021	8260 Naphth	8260 full scan	Oxygenates	NWTPH-Gx	NWTPH-Dx with Silica Gel Cleanup	NWTPH-Dx without Silica Gel Cleanup	WA EPH	WA VPH	Lead Total	Lead Diss.	Method 6020 ICP/MS
MW-120	11/17/15	1235	X			W	9	8	X	X			X	X	X			X		
B-1	"	1145																		
B-2	"	1035																		
B-3	"	0920																		
B-4	"	1300																		

- [ ] 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

6 Remarks

Please report results for Dx with & without sgc. Dissolved Iron, Lead, and Manganese, as well as Alkalinity samples have been field filtered.

JM 11/23/15

Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | EDF/EDD | 72 hour | 48 hour | 24 hour

Relinquished by	Date	Time	Received by	Date	Time (9)
[signature]	11/19/15	1400	[signature] / ECLE	11/19/15	17:00
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by	Date	Time

8 Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default)

Other: _____

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Attachment B:
Laboratory Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Report Date: March 31, 2016

Project: 211556

Submittal Date: 11/20/2015
Group Number: 1611170
PO Number: 0015201727
Release Number: HORNE
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
QA NA Water	8144042
MW-103 Grab Groundwater	8144043
MW-103 Filtered Grab Groundwater	8144044
MW-109 Grab Groundwater	8144045
MW-109 Filtered Grab Groundwater	8144046
MW-110 Grab Groundwater	8144047
MW-110 Filtered Grab Groundwater	8144048
MW-111 Grab Groundwater	8144049
MW-111 Filtered Grab Groundwater	8144050
MW-112 Grab Groundwater	8144051
MW-112 Filtered Grab Groundwater	8144052
MW-113 Grab Groundwater	8144053
MW-113 Filtered Grab Groundwater	8144054
MW-114 Grab Groundwater	8144055
MW-114 Filtered Grab Groundwater	8144056
MW-115 Grab Groundwater	8144057
MW-115 Filtered Grab Groundwater	8144058
MW-116 Grab Groundwater	8144059
MW-116 Filtered Grab Groundwater	8144060
MW-117 Grab Groundwater	8144061
MW-117 Filtered Grab Groundwater	8144062
MW-118 Grab Groundwater	8144063
MW-118 Filtered Grab Groundwater	8144064
MW-119 Grab Groundwater	8144065
MW-119 Filtered Grab Groundwater	8144066
MW-120 Grab Groundwater	8144067
MW-120 Filtered Grab Groundwater	8144068
B-1 Grab Groundwater	8144069
B-1 Filtered Grab Groundwater	8144070
B-2 Grab Groundwater	8144071

B-2 Filtered Grab Groundwater	8144072
B-3 Grab Groundwater	8144073
B-3 Filtered Grab Groundwater	8144074
B-4 Grab Groundwater	8144075
B-4 Filtered Grab Groundwater	8144076

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	Leidos	Attn: Russ Shropshire
Electronic Copy To	Leidos	Attn: Jamalyn Agyei
Electronic Copy To	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA NA Water
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144042
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/16/2015

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRTQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z153322AA	11/28/2015 12:46	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z153322AA	11/28/2015 12:46	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/23/2015 23:53	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/23/2015 23:53	Jeremy C Giffin	1

Sample Description: MW-103 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144043
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/16/2015 13:55 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT103

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z153322AA	11/28/2015 13:34	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z153322AA	11/28/2015 13:34	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/24/2015 06:46	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/24/2015 06:46	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 01:51	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 18:48	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-103 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144044
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/16/2015 13:55 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.00038	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153316050004A	12/08/2015 01:35	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153316050004	12/02/2015 08:20	Katlin N Cataldi	1

Sample Description: MW-109 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144045
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 15:05 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT109

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	36	28	1
08271	Heavy Range Organics C24-C40	n.a.	97	66	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	P153342AA	11/30/2015 12:53	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P153342AA	11/30/2015 12:53	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/24/2015 07:13	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/24/2015 07:13	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 04:22	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 19:09	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-109 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144046
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 15:05 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0028	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153316050004A	12/08/2015 01:40	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153316050004	12/02/2015 08:20	Katlin N Cataldi	1

Sample Description: MW-110 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144047
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 08:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT110

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/01/2015 21:53	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/01/2015 21:53	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 04:50	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 04:50	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 02:12	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 19:31	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-110 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144048
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 08:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0013	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153316050004A	12/08/2015 01:41	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153316050004	12/02/2015 08:20	Katlin N Cataldi	1

Sample Description: MW-111 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144049
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 14:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT111

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	9	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	1	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	1,900	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	450	29	1
08271	Heavy Range Organics C24-C40	n.a.	270	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	150	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/01/2015 22:15	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/01/2015 22:15	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 05:16	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 05:16	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 04:43	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 21:40	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-111 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144050
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 14:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0078	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153316050004A	12/08/2015 01:43	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153316050004	12/02/2015 08:20	Katlin N Cataldi	1

Sample Description: MW-112 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144051
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/16/2015 15:05 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT112

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z153322AA	11/28/2015 13:58	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z153322AA	11/28/2015 13:58	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/24/2015 07:40	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/24/2015 07:40	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 02:34	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 19:52	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-112 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144052
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/16/2015 15:05 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0014	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153316050004A	12/08/2015 01:45	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153316050004	12/02/2015 08:20	Katlin N Cataldi	1

Sample Description: MW-113 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144053
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 16:20 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT113

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	68	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	P153342AA	11/30/2015 13:19	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P153342AA	11/30/2015 13:19	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/24/2015 08:08	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/24/2015 08:08	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 02:56	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 20:14	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-113 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144054
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 16:20 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.00019	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153316050004A	12/08/2015 01:47	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153316050004	12/02/2015 08:20	Katlin N Cataldi	1

Sample Description: MW-114 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144055
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 15:30 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT114

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	49	29	1
08271	Heavy Range Organics C24-C40	n.a.	280	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/01/2015 22:37	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/01/2015 22:37	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 05:42	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 05:42	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 05:05	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 22:01	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-114 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144056
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 15:30 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0145	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153316050004A	12/08/2015 01:48	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153316050004	12/02/2015 08:20	Katlin N Cataldi	1

Sample Description: MW-115 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144057
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 13:45 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT115

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	P153342AA	11/30/2015 13:45	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P153342AA	11/30/2015 13:45	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/24/2015 09:03	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/24/2015 09:03	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 03:17	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 20:35	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-115 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144058
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 13:45 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0014	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153316050004A	12/08/2015 01:50	Tara L Snyder	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153316050004	12/02/2015 08:20	Katlin N Cataldi	1

Sample Description: MW-116 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144059
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 09:00 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT116

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	P153342AA	11/30/2015 14:12	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P153342AA	11/30/2015 14:12	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/24/2015 09:30	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/24/2015 09:30	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 03:39	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 20:57	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-116 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144060
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 09:00 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0062	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:08	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Sample Description: MW-117 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144061
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 11:30 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT117

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	P153342AA	11/30/2015 14:38	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P153342AA	11/30/2015 14:38	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/24/2015 09:58	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/24/2015 09:58	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320009A	12/01/2015 04:00	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320010A	12/04/2015 21:18	Thomas C Wildermuth	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320010A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320009A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-117 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144062
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 11:30 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0021	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:09	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Sample Description: MW-118 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144063
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 10:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT118

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.
A target analyte(s) in the continuing calibration verification standard is outside the QC acceptance limits. The following corrective action was taken:
The analysis was repeated and the continuing calibration verification standard bracketing the sample on the second trial is within specification. The first trial result is reported because it was analyzed within the holding time. Similar results were obtained.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153342AA	11/30/2015 11:25	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153342AA	11/30/2015 11:25	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 06:07	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 06:07	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320011A	12/01/2015 06:52	Thomas C Wildermuth	1

Sample Description: **MW-118 Grab Groundwater**
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144063
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 10:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT118

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320012A	12/03/2015 16:08	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320012A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320011A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-118 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144064
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 10:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.00067	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:11	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Sample Description: MW-119 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144065
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/16/2015 12:40 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT119

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	Z153322AA	11/28/2015 14:23	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z153322AA	11/28/2015 14:23	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A20A	11/24/2015 10:25	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A20A	11/24/2015 10:25	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320011A	12/01/2015 07:13	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320012A	12/05/2015 00:10	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320012A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320011A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-119 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144066
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/16/2015 12:40 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0041	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 11:45	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Sample Description: MW-120 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144067
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 12:35 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT120

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153342AA	11/30/2015 11:47	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153342AA	11/30/2015 11:47	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 06:33	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 06:33	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320011A	12/01/2015 07:35	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320012A	12/05/2015 00:31	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320012A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320011A	11/30/2015 09:30	David S Schrum	1

Sample Description: MW-120 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144068
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/17/2015 12:35 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0019	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:13	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Sample Description: B-1 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144069
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 11:45 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTB1-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	28	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	66	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	28	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	66	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/01/2015 22:59	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/01/2015 22:59	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 06:58	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 06:58	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320011A	12/01/2015 07:56	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320012A	12/05/2015 00:53	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320012A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320011A	11/30/2015 09:30	David S Schrum	1

Sample Description: B-1 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144070
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 11:45 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.00063	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:15	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Sample Description: B-2 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144071
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 10:35 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTB2-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.
A target analyte(s) in the continuing calibration verification standard is outside the QC acceptance limits. The following corrective action was taken:
The analysis was repeated and the continuing calibration verification standard bracketing the sample on the second trial is within specification. The first trial result is reported because it was analyzed within the holding time. Similar results were obtained.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/01/2015 23:21	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/01/2015 23:21	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 07:24	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 07:24	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320011A	12/01/2015 08:18	Thomas C Wildermuth	1

Sample Description: B-2 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144071
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 10:35 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTB2-

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320012A	12/03/2015 17:34	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320012A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320011A	11/30/2015 09:30	David S Schrum	1

Sample Description: B-2 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144072
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 10:35 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.00060	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:16	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Sample Description: B-3 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144073
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 09:20 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTB3-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	2	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	880	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	1,200	29	1
08271	Heavy Range Organics C24-C40	n.a.	180	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	57	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/01/2015 23:43	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/01/2015 23:43	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 08:16	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 08:16	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320011A	12/01/2015 09:01	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320012A	12/05/2015 01:35	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320012A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320011A	11/30/2015 09:30	David S Schrum	1

Sample Description: B-3 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144074
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 09:20 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0185	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:18	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Sample Description: B-4 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144075
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 13:00 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTB4-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	4	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	2,000	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	750	29	1
08271	Heavy Range Organics C24-C40	n.a.	740	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	130	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	270	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/02/2015 00:04	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/02/2015 00:04	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15326A94A	11/24/2015 08:42	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15326A94A	11/24/2015 08:42	Jeremy C Giffin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320011A	12/01/2015 09:23	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320012A	12/05/2015 02:18	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320012A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320011A	11/30/2015 09:30	David S Schrum	1

Sample Description: B-4 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144076
LL Group # 1611170
Account # 11260

Project Name: 211556

Collected: 11/18/2015 13:00 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	0.0171	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:23	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611170

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
	ug/l	ug/l
Batch number: F153342AA	Sample number(s): 8144063,8144067	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: F153353AA	Sample number(s): 8144047,8144049,8144055,8144069,8144071,8144073,8144075	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: P153342AA	Sample number(s): 8144045,8144053,8144057,8144059,8144061	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: Z153322AA	Sample number(s): 8144042-8144043,8144051,8144065	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 15326A20A	Sample number(s): 8144042-8144043,8144045,8144051,8144053,8144057,8144059,8144061,8144065	
NWTPH-Gx water C7-C12	N.D.	50
Batch number: 15326A94A	Sample number(s): 8144047,8144049,8144055,8144063,8144067,8144069,8144071,8144073,8144075	
NWTPH-Gx water C7-C12	N.D.	50
Batch number: 153320009A	Sample number(s): 8144043,8144045,8144047,8144049,8144051,8144053,8144055,8144057,8144059,8144061	
Diesel Range Organics C12-C24	N.D.	30
Heavy Range Organics C24-C40	N.D.	70
Batch number: 153320011A	Sample number(s): 8144063,8144065,8144067,8144069,8144071,8144073,8144075	
Diesel Range Organics C12-C24	N.D.	30
Heavy Range Organics C24-C40	N.D.	70
Batch number: 153320010A	Sample number(s): 8144043,8144045,8144047,8144049,8144051,8144053,8144055,8144057,8144059,8144061	

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611170

Analysis Name	Result	MDL
	ug/l	ug/l
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70
Batch number: 153320012A	Sample number(s): 8144063,8144065,8144067,8144069,8144071,8144073,8144075	
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70
	mg/l	mg/l
Batch number: 153316050004A	Sample number(s): 8144044,8144046,8144048,8144050,8144052,8144054,8144056,8144058	
Lead	N.D.	0.00013
Batch number: 153346050003A	Sample number(s): 8144060,8144062,8144064,8144066,8144068,8144070,8144072,8144074,8144076	
Lead	0.00020	0.00013

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: F153342AA	Sample number(s): 8144063,8144067								
Benzene	20	17.76	20	18.84	89	94	78-120	6	30
Ethylbenzene	20	17.82	20	18.47	89	92	78-120	4	30
Methyl Tertiary Butyl Ether	20	16.81	20	17.63	84	88	75-120	5	30
Toluene	20	18.67	20	19.05	93	95	80-120	2	30
Xylene (Total)	60	54.73	60	57.35	91	96	80-120	5	30
Batch number: F153353AA	Sample number(s): 8144047,8144049,8144055,8144069,8144071,8144073,8144075								
Benzene	20	19.24	20	18.51	96	93	78-120	4	30
Ethylbenzene	20	18.75	20	18.46	94	92	78-120	2	30
Methyl Tertiary Butyl Ether	20	17.28	20	17.46	86	87	75-120	1	30
Toluene	20	19.44	20	18.98	97	95	80-120	2	30
Xylene (Total)	60	56.55	60	56.04	94	93	80-120	1	30
Batch number: P153342AA	Sample number(s): 8144045,8144053,8144057,8144059,8144061								
Benzene	20	22.15	20	22.44	111	112	78-120	1	30
Ethylbenzene	20	18.1	20	18.65	90	93	78-120	3	30
Methyl Tertiary Butyl Ether	20	21.79	20	22.39	109	112	75-120	3	30
Toluene	20	18.68	20	19	93	95	80-120	2	30
Xylene (Total)	60	56.03	60	57.37	93	96	80-120	2	30
Batch number: Z153322AA	Sample number(s): 8144042-8144043,8144051,8144065								
Benzene	20	18.47	20	19.15	92	96	78-120	4	30
Ethylbenzene	20	19	20	19.67	95	98	78-120	4	30
Methyl Tertiary Butyl Ether	20	20.95	20	21.09	105	105	75-120	1	30
Toluene	20	18.88	20	19.66	94	98	80-120	4	30
Xylene (Total)	60	58.56	60	60.09	98	100	80-120	3	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 15326A20A	Sample number(s): 8144042-8144043,8144045,8144051,8144053,8144057,8144059,8144061,8144065								
NWTPH-Gx water C7-C12	1100	1011.65			92		80-123		

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611170

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: 15326A94A	Sample number(s): 8144047,8144049,8144055,8144063,8144067,8144069,8144071,8144073,8144075								
NWTPH-Gx water C7-C12	1100	1026.74	1100	1040.07	93	95	80-123	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 153320009A	Sample number(s): 8144043,8144045,8144047,8144049,8144051,8144053,8144055,8144057,8144059,8144061								
Diesel Range Organics C12-C24	1610	1030.38	1610	988.46	64	61	50-113	4	20
Batch number: 153320011A	Sample number(s): 8144063,8144065,8144067,8144069,8144071,8144073,8144075								
Diesel Range Organics C12-C24	1610	961.52	1610	995.79	60	62	50-113	4	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 153320010A	Sample number(s): 8144043,8144045,8144047,8144049,8144051,8144053,8144055,8144057,8144059,8144061								
DRO C12-C24 w/Si Gel	1610	1001.68	1610	1188.71	62	74	32-117	17	20
Batch number: 153320012A	Sample number(s): 8144063,8144065,8144067,8144069,8144071,8144073,8144075								
DRO C12-C24 w/Si Gel	1610	694.91	1610	815.45	43	51	32-117	16	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 153316050004A	Sample number(s): 8144044,8144046,8144048,8144050,8144052,8144054,8144056,8144058								
Lead	0.0150	0.0154			102		80-120		
Batch number: 153346050003A	Sample number(s): 8144060,8144062,8144064,8144066,8144068,8144070,8144072,8144074,8144076								
Lead	0.0150	0.0160			107		80-120		

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 15326A20A	Sample number(s): 8144042-8144043,8144045,8144051,8144053,8144057,8144059,8144061,8144065 UNSPK: P141372									
NWTPH-Gx water C7-C12	8683.2	5500	14206.5	5500	14926.36	100	114	80-123	5	30
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 153316050004A	Sample number(s): 8144044,8144046,8144048,8144050,8144052,8144054,8144056,8144058 UNSPK: P144041									
Lead	0.000393	0.0150	0.0162	0.0150	0.0161	105	105	75-125	1	20
Batch number: 153346050003A	Sample number(s): 8144060,8144062,8144064,8144066,8144068,8144070,8144072,8144074,8144076 UNSPK: 8144066									
Lead	0.00411	0.0150	0.0200	0.0150	0.0193	106	101	75-125	3	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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611170

Laboratory Duplicate

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

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 153316050004A	Sample number(s): 8144044,8144046,8144048,8144050,8144052,8144054,8144056,8144058 BKG: P144041			
Lead	0.000393	0.000809	69* (1)	20
Batch number: 153346050003A	Sample number(s): 8144060,8144062,8144064,8144066,8144068,8144070,8144072,8144074,8144076 BKG: 8144066			
Lead	0.00411	0.00419	2 (1)	20

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: BTEX/MTBE
Batch number: F153342AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8144063	97	102	103	91
8144067	99	101	103	91
Blank	97	100	104	91
LCS	96	101	105	97
LCSD	98	109	104	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE
Batch number: F153353AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8144047	97	100	104	90
8144049	95	97	105	93
8144055	98	103	106	92
8144069	97	103	106	89
8144071	98	101	106	92
8144073	96	100	105	95
8144075	94	96	105	96
Blank	98	99	105	92
LCS	97	100	105	94
LCSD	97	100	105	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE
Batch number: P153342AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8144045	108	103	89	96
8144053	108	102	90	97
8144057	107	101	89	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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611170

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8144059	109	105	88	96
8144061	109	102	88	98
Blank	104	100	91	96
LCS	106	102	91	97
LCSD	106	105	90	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX/MTBE
Batch number: Z153322AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8144042	107	99	98	94
8144043	107	99	98	95
8144051	106	100	98	94
8144065	106	98	99	94
Blank	107	101	98	96
LCS	106	100	98	98
LCSD	105	99	99	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 15326A20A

	Trifluorotoluene-F
8144042	88
8144043	87
8144045	87
8144051	89
8144053	88
8144057	87
8144059	88
8144061	88
8144065	89
Blank	89
LCS	100
MS	99
MSD	99
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 15326A94A

	Trifluorotoluene-F
8144047	70
8144049	91
8144055	73
8144063	72
8144067	85
8144069	74
8144071	74
8144073	82
8144075	92
Blank	81

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611170

	Trifluorotoluene-F
LCS	95
LCSD	95
Limits:	63-135

Analysis Name: NWTPH-Dx water
Batch number: 153320009A

	Orthoterphenyl
8144043	93
8144045	90
8144047	92
8144049	98
8144051	95
8144053	93
8144055	93
8144057	95
8144059	91
8144061	91
Blank	90
LCS	96
LCSD	95
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 153320010A

	Orthoterphenyl
8144043	87
8144045	88
8144047	92
8144049	86
8144051	101
8144053	85
8144055	91
8144057	88
8144059	92
8144061	84
Blank	70
LCS	83
LCSD	103
Limits:	50-150

Analysis Name: NWTPH-Dx water
Batch number: 153320011A

	Orthoterphenyl
8144063	92
8144065	92
8144067	93
8144069	89
8144071	95
8144073	94
8144075	95

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611170

	Orthoterphenyl
Blank	90
LCS	97
LCSD	95
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 153320012A

	Orthoterphenyl
8144063	79
8144065	61
8144067	72
8144069	66
8144071	71
8144073	62
8144075	59
Blank	50
LCS	64
LCSD	70
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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # 11260 Group # 1611170 Sample # 8144042-76
Instructions on reverse side correspond with circled numbers.

1 of 2

1 Client Information

Facility # SS#211556-OML G-R#386773 WBS
Site Address 101 Mulford Road, TOLEDO, WA
Chevron PM MHO LEIDOSRS Lead Consultant Russell Shropshire
Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568
Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)
Consultant Phone # (925) 551-7444 x180
Sampler G. MEDINA

SCR #:

2 Sample Identification

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Sediment	Oil	Air	Potable	Ground	NPDES	Surface	Total Number of Containers	5 Analyses Requested: 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	Method 6020 ICP/MS
QA	11/16/15	—	X			2								2	X						X								
MW-103	↓	1355												8								X	X			X			
MW-109	17	1505																											
MW-110	18	0815																											
MW-111	↓	1415																											
MW-112	16	1505																											
MW-113	17	1620																											
MW-114	18	1530																											
MW-115	17	1345																											
MW-116		0900																											
MW-117		1130																											
MW-118	↓	1015																											
MW-119	16	1240	↓		↓						↓			↓	↓						↓					↓			

- ☐ 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

6 Remarks

Please report results for Dx with & without sgc. Dissolved Iron, Lead, and Manganese, as well as Alkalinity samples ~~have~~ NEED TO BE ~~been~~ filtered.

Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | EDF/EDD | 72 hour | 48 hour | 24 hour

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)
CVX-RTBU-FI_05 (default)
Other: _____

Relinquished by	Date	Time	Received by	Date	Time
[signature]	11/19/15	1400	[signature]	11/19/15	14:00

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other ✓

Received by [signature] Date 11/20/15 Time 1000

Temperature Upon Receipt 0.1 - 0.8 °C

Custody Seals Intact? Yes No

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11260 For Eurofins Lancaster Laboratories use only Group # 161170 Sample # 8144042-76

Instructions on reverse side correspond with circled numbers.

2 of 2

1 Client Information

Facility # SS#211556-OML G-R#386773 WBS

Site Address 101 Mulford Road, TOLEDO, WA

Chevron PM MHO LEIDOSRS Lead Consultant Russell Shropshire

Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)

Consultant Phone # (925) 551-7444 x180

Sampler G. MEDINA

2 Sample Identification | Collected Date | Time | **3** Grab | Composite | **4 Matrix**: Soil | Sediment | Potable Water | Ground Water | NPDES | Surface | Oil | Air | Total Number of Containers | **5 Analyses Requested**: 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. | Method 6020 ICP/MS

Sample Identification	Date	Time	Grab	Composite	Soil	Sediment	Potable Water	Ground Water	NPDES	Surface	Oil	Air	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.	Method 6020 ICP/MS
MW-120	11/17/15	1235	X				W						B	X						X	X	X			X			
B-1	11/18/15	1145	↓				↓						↓	↓						↓	↓	↓			↓			
B-2		1035																										
B-3		0920																										
B-4		1300	↓				↓						↓	↓						↓	↓	↓			↓			

SCR #: _____

- ☐ 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

6 Remarks

Please report results for Dx with & without sgc. Dissolved Iron, Lead, and Manganese, as well as Alkalinity samples have been field filtered.

Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | EDF/EDD

72 hour | 48 hour | 24 hour

Relinquished by	Date	Time	Received by	Date	Time
	11/19/15	1400		11/19/15	1400
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by	11/20/15	1000
Temperature Upon Receipt 0.1-0.8 °C			Custody Seals Intact? Yes No		

8 Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default)

Other: _____

9

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Sample Administration Receipt Documentation Log

Doc Log ID: 126277

Group Number(s): 161170

Client: CHEVRON

SS#211556-OML G-R#386773

Delivery and Receipt Information

Delivery Method:	SeaTac	Arrival Timestamp:	11/20/2015 10:00
Number of Packages:	7	Number of Projects:	2
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:	No	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	4
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Corey Eshleman (3647) at 11:40 on 11/20/2015

Samples Chilled Details: SS#211556-OML G-R#386773

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	DT121	0.3	DT	Wet	Y	Bagged	N
2	DT121	0.8	DT	Wet	Y	Bagged	N
3	DT121	0.3	DT	Wet	Y	Bagged	N
4	DT121	0.3	DT	Wet	Y	Bagged	N
5	DT121	0.5	DT	Wet	Y	Bagged	N
6	DT121	0.1	DT	Wet	Y	Bagged	N
7	DT121	0.1	DT	Wet	Y	Bagged	N

Container Quantity Discrepancy Details: SS#211556-OML G-R#386773

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
All samples (except QA)	9	8	

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.cor

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Report Date: March 31, 2016

Project: 211556

Submittal Date: 11/20/2015
Group Number: 1611177
PO Number: 0015201727
Release Number: HORNE
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
QA NA Water	8144083
TDWHD-1 Grab Groundwater	8144084
TDWHD-1 Filtered Grab Groundwater	8144085

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Electronic Copy To	Leidos	Attn: Russ Shropshire
Electronic Copy To	Leidos	Attn: Jamalyn Agyei
Electronic Copy To	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA NA Water
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144083
LL Group # 1611177
Account # 11260

Project Name: 211556

Collected: 11/18/2015

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

QAMRT

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/01/2015 21:32	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/01/2015 21:32	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15328A94A	11/25/2015 12:09	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15328A94A	11/25/2015 12:09	Marie D Beamenderfer	1

Sample Description: TDWHD-1 Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144084
LL Group # 1611177
Account # 11260

Project Name: 211556

Collected: 11/18/2015 16:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRTT1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	N.D.	29	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	67	1
GC Petroleum Hydrocarbons w/Si	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
12005	DRO C12-C24 w/Si Gel	n.a.	N.D.	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

State of Washington Lab Certification No. C457

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX/MTBE	SW-846 8260B	1	F153353AA	12/02/2015 00:26	Hu Yang	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F153353AA	12/02/2015 00:26	Hu Yang	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	15328A94A	11/25/2015 13:00	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15328A94A	11/25/2015 13:00	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	153320011A	12/01/2015 08:39	Thomas C Wildermuth	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	153320012A	12/05/2015 01:57	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	153320012A	11/30/2015 09:30	David S Schrum	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	153320011A	11/30/2015 09:30	David S Schrum	1

Sample Description: TDWHD-1 Filtered Grab Groundwater
Facility# 211556 Job# 386773
101 Mulford Rd - Toledo, WA

LL Sample # WW 8144085
LL Group # 1611177
Account # 11260

Project Name: 211556

Collected: 11/18/2015 16:15 by GM

Submitted: 11/20/2015 10:00
Reported: 03/31/2016 13:32

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		mg/l	mg/l	
06035	Lead	7439-92-1	N.D.	0.00013	1

General Sample Comments

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

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	153346050003A	12/04/2015 12:25	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	153346050003	12/02/2015 07:42	Katlin N Cataldi	1

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611177

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
	ug/l	ug/l
Batch number: F153353AA	Sample number(s): 8144083-8144084	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 15328A94A	Sample number(s): 8144083-8144084	
NWTPH-Gx water C7-C12	N.D.	50
Batch number: 153320011A	Sample number(s): 8144084	
Diesel Range Organics C12-C24	N.D.	30
Heavy Range Organics C24-C40	N.D.	70
Batch number: 153320012A	Sample number(s): 8144084	
DRO C12-C24 w/Si Gel	N.D.	30
HRO C24-C40 w/Si Gel	N.D.	70
	mg/l	mg/l
Batch number: 153346050003A	Sample number(s): 8144085	
Lead	0.00020	0.00013

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: F153353AA	Sample number(s): 8144083-8144084								
Benzene	20	19.24	20	18.51	96	93	78-120	4	30
Ethylbenzene	20	18.75	20	18.46	94	92	78-120	2	30
Methyl Tertiary Butyl Ether	20	17.28	20	17.46	86	87	75-120	1	30
Toluene	20	19.44	20	18.98	97	95	80-120	2	30
Xylene (Total)	60	56.55	60	56.04	94	93	80-120	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 15328A94A	Sample number(s): 8144083-8144084								
NWTPH-Gx water C7-C12	1100	986.79	1100	1027	90	93	80-123	4	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 153320011A	Sample number(s): 8144084								
Diesel Range Organics C12-C24	1610	961.52	1610	995.79	60	62	50-113	4	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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611177

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: 153320012A	Sample number(s): 8144084								
DRO C12-C24 w/Si Gel	1610	694.91	1610	815.45	43	51	32-117	16	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 153346050003A	Sample number(s): 8144085								
Lead	0.0150	0.0160			107		80-120		

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 153346050003A	Sample number(s): 8144085 UNSPK: P144066									
Lead	0.00411	0.0150	0.0200	0.0150	0.0193	106	101	75-125	3	20

Laboratory Duplicate

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

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Batch number: 153346050003A	Sample number(s): 8144085 BKG: P144066			
Lead	0.00411	0.00419	2 (1)	20

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: BTEX/MTBE
Batch number: F153353AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8144083	98	103	104	88
8144084	98	98	105	93
Blank	98	99	105	92
LCS	97	100	105	94
LCSD	97	100	105	95
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 15328A94A

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 03/31/2016 13:32

Group Number: 1611177

	Trifluorotoluene-F
8144083	74
8144084	74
Blank	76
LCS	93
LCSD	93
Limits:	63-135

Analysis Name: NWTPH-Dx water
Batch number: 153320011A

	Orthoterphenyl
8144084	92
Blank	90
LCS	97
LCSD	95
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 153320012A

	Orthoterphenyl
8144084	55
Blank	50
LCS	64
LCSD	70
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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron Northwest Region Analysis Request/Chain of Custody

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Acct. # 11260 For Eurofins Lancaster Laboratories use only Group # 1611177 Sample # 8144083-85

Instructions on reverse side correspond with circled numbers.

1 of 1

1 Client Information

Facility # SS#211556-OML G-R#386773 WBS

Site Address 101 Mulford Road, TOLEDO, WA

Chevron PM MHO LEIDOSRS Lead Consultant Russell Shropshire

Consultant/Office Gettler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com)

Consultant Phone # (925) 551-7444 x180

Sampler G. MEDINA

2 Sample Identification

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Potable Water	NPDES Water	Surface Water	Air	Oil	Sediment	Total Number of Containers	5 Analyses Requested: BTEX + MTBE	8260 Naphth	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 6020B/200.8
QA	11/18/15	—	X					W				2	X					X								
TPWH01	↓	1615	↓					↓				8	↕					↓	X	X			X			

3 Grab / Composite; 4 Matrix: Soil, Potable Water, NPDES Water, Surface Water, Ground Water, Air, Oil, Sediment; 5 Analyses Requested: 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., Method 6020B/200.8

SCR #: _____

- ☐ 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

6 Remarks

Please report results for Dx with & without sgc. Dissolved Iron, Lead, and Manganese, as well as Alkalinity samples have been field filtered.

Please forward lab results directly to the LC and cc: G-R. The TPW sample results should be forwarded directly to Deanna Harding

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | EDF/EDD | 72 hour | 48 hour | 24 hour

Relinquished by	Date	Time	Received by	Date	Time
[signature]	11/19/15	1400	[signature]/ELLE	11/19/15	1400

8 Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default)

Other: _____

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other ✓

Received by [signature] Date 11/20/15 Time 1000

Temperature Upon Receipt 0.1 - 0.8 °C

Custody Seals Intact? Yes No

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Sample Administration Receipt Documentation Log

Doc Log ID: 126277

Group Number(s): 161177

Client: CHEVRON

SS#211556-OML G-R#386773

Delivery and Receipt Information

Delivery Method:	SeaTac	Arrival Timestamp:	11/20/2015 10:00
Number of Packages:	7	Number of Projects:	2
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:	No	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	4
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Corey Eshleman (3647) at 11:40 on 11/20/2015

Samples Chilled Details: SS#211556-OML G-R#386773

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	DT121	0.3	DT	Wet	Y	Bagged	N
2	DT121	0.8	DT	Wet	Y	Bagged	N
3	DT121	0.3	DT	Wet	Y	Bagged	N
4	DT121	0.3	DT	Wet	Y	Bagged	N
5	DT121	0.5	DT	Wet	Y	Bagged	N
6	DT121	0.1	DT	Wet	Y	Bagged	N
7	DT121	0.1	DT	Wet	Y	Bagged	N

Container Quantity Discrepancy Details: SS#211556-OML G-R#386773

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
All samples (except QA)	9	8	

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.cor

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ 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.
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…

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.

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.

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.