October 17, 2014

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

Subject: **First Quarter 2014 Groundwater Monitoring Report**
Cowlitz BP / Cowlitz Food and Fuel /
Former Texaco Service Station No. 211556
101 Mulford Road
Toledo, Washington

Dear Mr. Teel:

Leidos Engineering, LLC (Leidos), formerly SAIC Energy, Environment & Infrastructure, LLC (SAIC), prepared this report on behalf of Chevron Environmental Management Company (CEMC) to document the results of the first quarter 2014 groundwater monitoring event at the above-referenced site (the Site) in Toledo, Washington (Figure 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 February 4-11, 2014. They measured depth-to-groundwater and checked for the presence of light non-aqueous phase liquid (LNAPL) in all 17 monitoring wells on the Site. Groundwater samples were also collected from each monitoring well using low-flow purging and sampling techniques. Samples were submitted to Eurofins Lancaster Laboratories Environmental 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;
- 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.

Selected samples were also submitted for the following natural attenuation monitoring parameters per SAIC's September 2013 work plan[1]:

- Nitrate and sulfate by USEPA 300.0;
- Dissolved iron and dissolved manganese by SW846 6010B;
- Sulfide by SM 4500-S2 D-2000;
- Methane by RSKSOP-175 modified; and
- Alkalinity by SM 2320 B-1997.

Purge water generated during this sampling event was treated 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 101.88 feet in monitoring well MW-113 to 99.28 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 0.001 to 0.005 feet per foot (Figure 2). Groundwater elevation at the Site decreased an average of 0.36 feet since the previous monitoring event in November 2013.

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

Current and historical groundwater elevation data, LNAPL thickness data, and laboratory analytical results are summarized in Table 1, and natural attenuation evaluation field measurements and laboratory analytical data are presented in Table 2. Groundwater

1. SAIC, 2013. *Soil Sampling and Natural Attenuation Assessment Work Plan, Cowlitz BP / Cowlitz Food and Fuel / Former Texaco Service Station No. 211556, 101 Mulford Road, Toledo, Washington*. September 25.

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 generally consistent with historical data for the Site. Dissolved-phase petroleum-range compounds continue to be consistently detected at concentrations exceeding MTCA Method A cleanup levels in monitoring wells MW-111, B-3, and B-4, located on the active station property and immediately downgradient of the UST basin and pump islands. Monitoring results for all other wells at the Site indicate that groundwater conditions have achieved compliance for a period of at least four quarters. Long-term groundwater data trends indicate that contaminant concentrations are decreasing over time, with normal concentration fluctuations that are likely due to seasonal changes in groundwater elevation.

Based on comparison of TPH-DRO analyses that were performed with and without silica-gel cleanup, detections of TPH-DRO at the Site are believed to result from detections of non-petroleum polar compounds that are by-products of biodegradation of gasoline-range contamination that is occurring at the Site.

Gettler-Ryan has continued monitoring groundwater for the evaluation of remediation by natural attenuation. Preliminary evaluation of the available data suggests that natural attenuation processes are occurring within the zone of groundwater contamination. Evidence of natural attenuation occurrence is indicated by increased levels of dissolved iron, dissolved manganese, and methane in source-area monitoring wells MW-111, B-3, and B-4. Reduced levels of ORP in these wells, and reduced levels of sulfate in monitoring wells MW-11 and B-4, are also indicators of the occurrence of on-going natural attenuation processes.

Gettler-Ryan will continue to perform groundwater monitoring at this Site on a quarterly basis.

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
Senior Project Manager

Enclosures:
Figure 1 – Vicinity Map
Figure 2 – Potentiometric Map
Figure 3 – Groundwater Analytical Results – February through November 2013
Table 1 – Groundwater Monitoring Data and Analytical Results
Table 2 – Natural Attenuation Monitoring Parameters
Attachment A – Groundwater Monitoring and Sampling Data Package
Attachment B – Laboratory Analysis Report

cc: Mr. Mark Horne – CEMC
Mr. Charles Vineyard
Mr. John Houlihan – Houlihan Law
Project File

REPORT LIMITATIONS

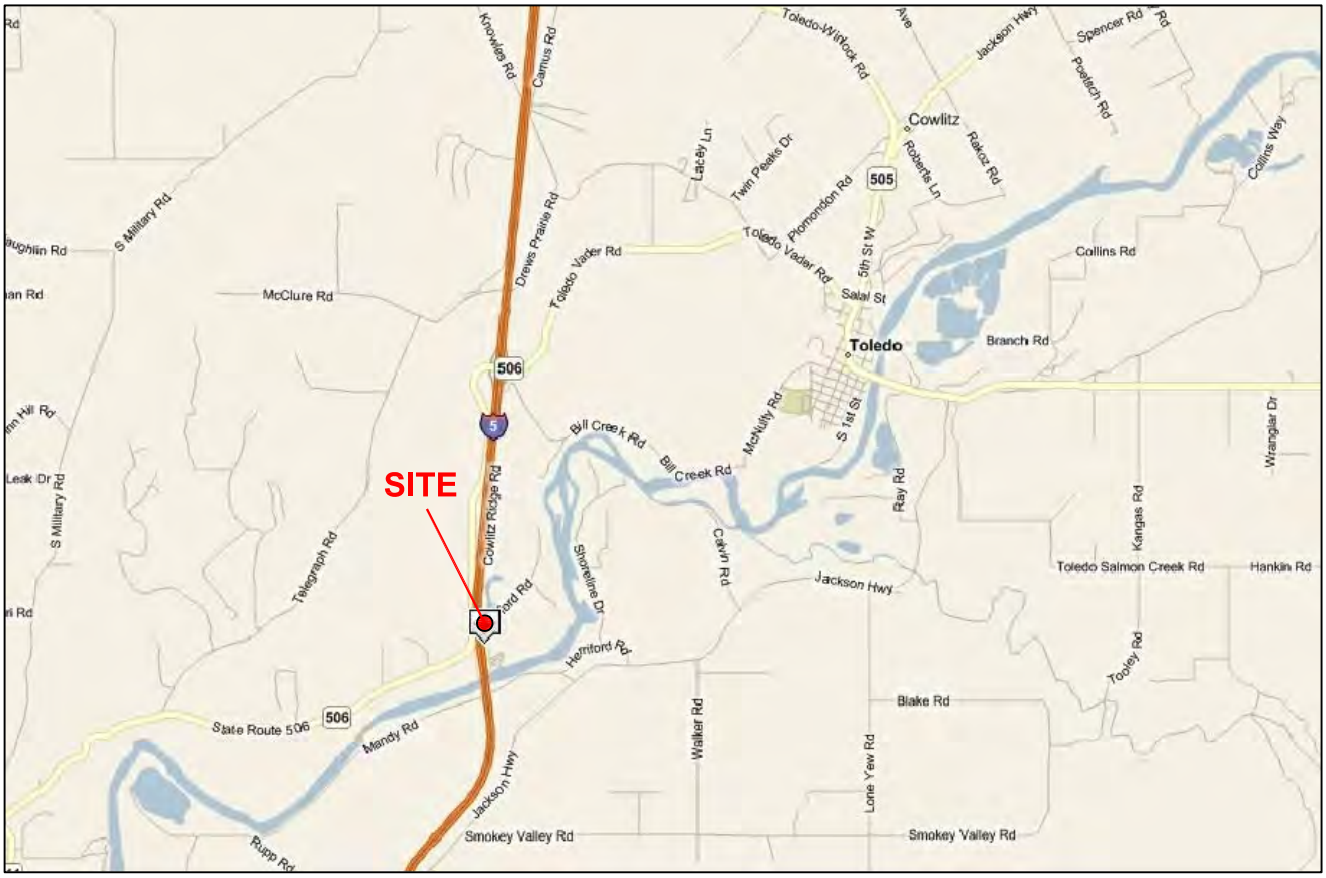
This technical document was prepared on behalf of CEMC and is intended for its sole use and for use by the local, state, or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges 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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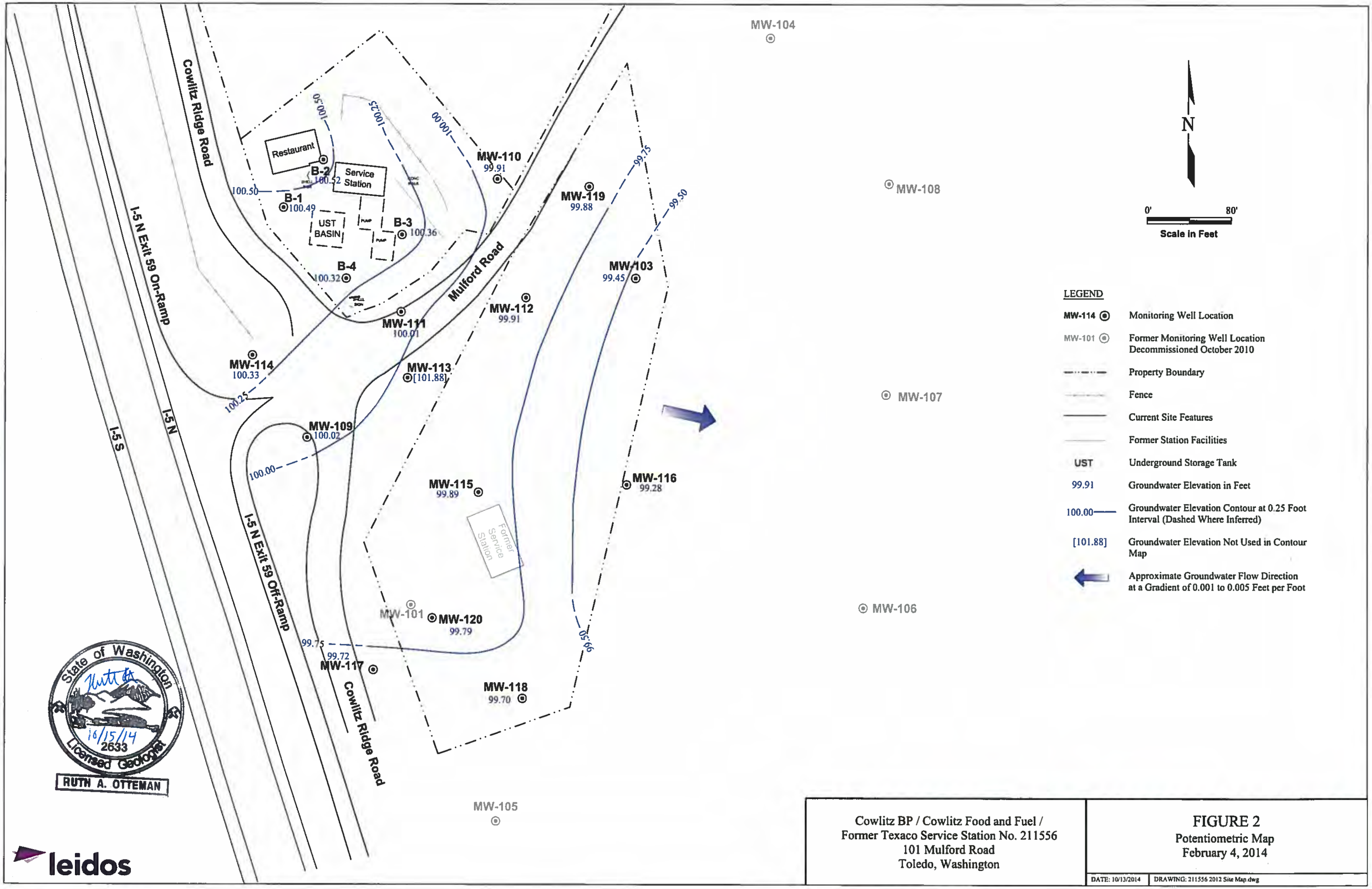
Former Texaco Service Station No. 211556
101 Mulford Road
Toledo, Washington

FIGURE 1
Vicinity Map

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



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
100.00	Groundwater Elevation Contour at 0.25 Foot Interval (Dashed Where Inferred)
[101.88]	Groundwater Elevation Not Used in Contour Map
	Approximate Groundwater Flow Direction at a Gradient of 0.001 to 0.005 Feet per Foot

State of Washington
10/15/14
2633
Licensed Geologist
RUTH A. OTTEMAN

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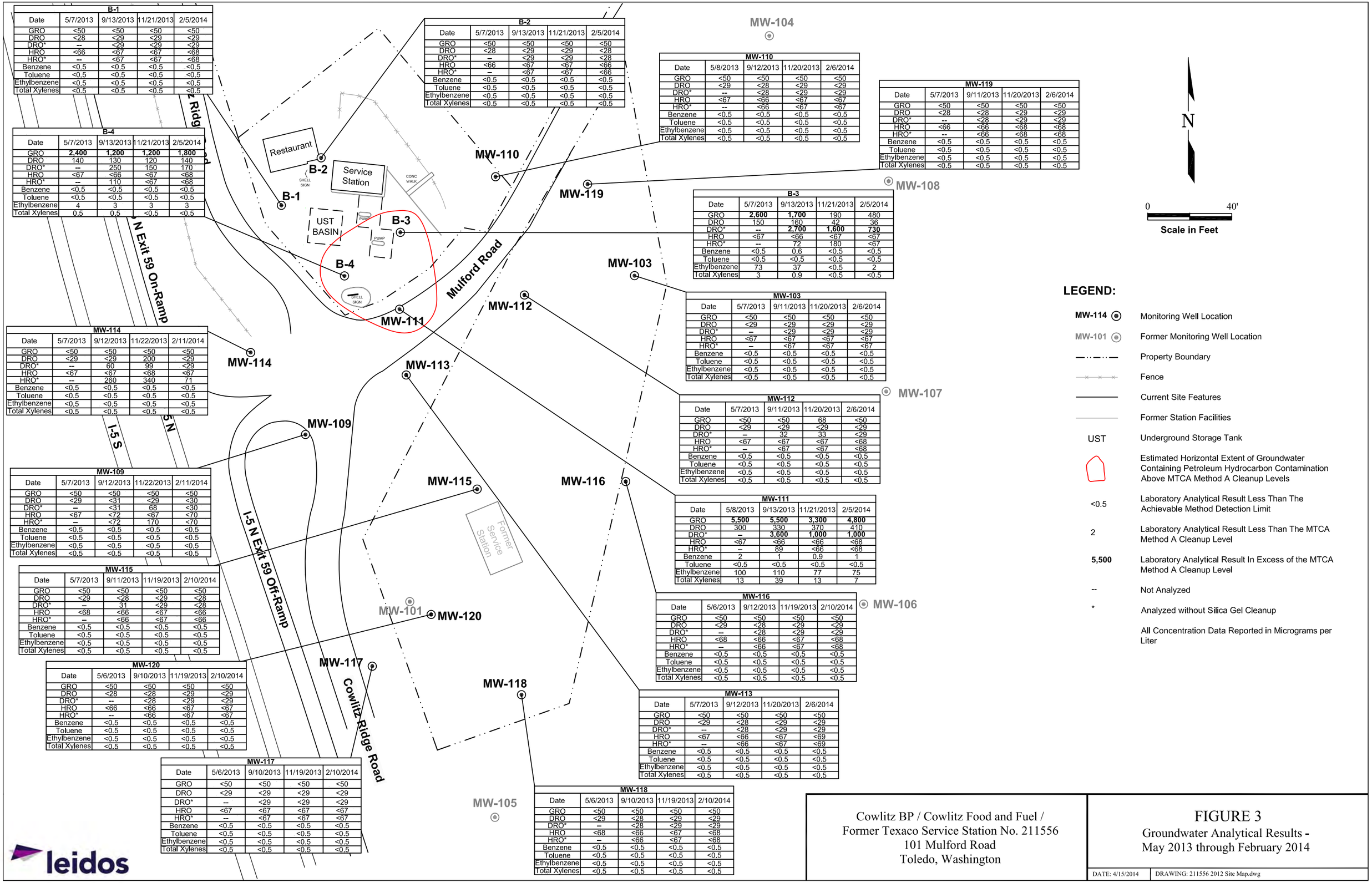
Cowlitz BP / Cowlitz Food and Fuel /
Former Texaco Service Station No. 211556
101 Mulford Road
Toledo, Washington

FIGURE 2
Potentiometric Map
February 4, 2014

DATE: 10/13/2014 | DRAWING: 211556 2012 Site Map.dwg



B-1

Date	5/7/2013	9/13/2013	11/21/2013	2/5/2014
GRO	<50	<50	<50	<50
DRO	<28	<29	<29	<29
DRO*	--	<29	<29	<29
HRO	<66	<67	<67	<68
HRO*	--	<67	<67	<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

B-2

Date	5/7/2013	9/13/2013	11/21/2013	2/5/2014
GRO	<50	<50	<50	<50
DRO	<28	<29	<29	<28
DRO*	--	<29	<29	<28
HRO	<66	<67	<67	<66
HRO*	--	<67	<67	<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

B-3

Date	5/7/2013	9/13/2013	11/21/2013	2/5/2014
GRO	**2,600**	**1,700**	190	480
DRO	150	160	42	36
DRO*	--	**2,700**	**1,600**	**730**
HRO	<67	<66	<67	<67
HRO*	--	72	180	<67
Benzene	<0.5	0.6	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	73	37	<0.5	2
Total Xylenes	3	0.9	<0.5	<0.5

B-4

Date	5/7/2013	9/13/2013	11/21/2013	2/5/2014
GRO	**2,400**	**1,200**	**1,200**	**1,800**
DRO	140	130	120	140
DRO*	--	250	150	170
HRO	<67	<66	<67	<68
HRO*	--	110	<67	<68
Benzene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	4	3	3	3
Total Xylenes	0.5	0.5	<0.5	<0.5

MW-103

Date	5/7/2013	9/11/2013	11/20/2013	2/6/2014
GRO	<50	<50	<50	<50
DRO	<29	<29	<29	<29
DRO*	--	<29	<29	<29
HRO	<67	<67	<67	<67
HRO*	--	<67	<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

MW-104

Date	5/8/2013	9/12/2013	11/20/2013	2/6/2014
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<67	<66	<67	<67
HRO*	--	<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

MW-105

Date	5/6/2013	9/10/2013	11/19/2013	2/10/2014
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<68	<66	<67	<68
HRO*	--	<66	<67	<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-106

Date	5/6/2013	9/12/2013	11/19/2013	2/10/2014
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<68	<66	<67	<68
HRO*	--	<66	<67	<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-107

Date	5/7/2013	9/11/2013	11/20/2013	2/6/2014
GRO	<50	<50	68	<50
DRO	<29	<29	<29	<29
DRO*	--	32	33	<29
HRO	<67	<67	<67	<68
HRO*	--	<67	<67	<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-108

Date	5/7/2013	9/11/2013	11/20/2013	2/6/2014
GRO	<50	<50	<50	<50
DRO	<28	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<66	<66	<68	<68
HRO*	--	<66	<68	<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-109

Date	5/7/2013	9/12/2013	11/22/2013	2/11/2014
GRO	<50	<50	<50	<50
DRO	<29	<31	<29	<30
DRO*	--	<31	68	<30
HRO	<67	<72	<67	<70
HRO*	--	<72	170	<70
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-110

Date	5/8/2013	9/12/2013	11/20/2013	2/6/2014
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<67	<66	<67	<67
HRO*	--	<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

MW-111

Date	5/8/2013	9/13/2013	11/21/2013	2/5/2014
GRO	**5,500**	**5,500**	**3,300**	**4,800**
DRO	300	330	370	410
DRO*	--	**3,600**	**1,000**	**1,000**
HRO	<67	<66	<66	<68
HRO*	--	89	<66	<68
Benzene	2	1	0.9	1
Toluene	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100	110	77	75
Total Xylenes	13	39	13	7

MW-112

Date	5/7/2013	9/11/2013	11/20/2013	2/6/2014
GRO	<50	<50	68	<50
DRO	<29	<29	<29	<29
DRO*	--	32	33	<29
HRO	<67	<67	<67	<68
HRO*	--	<67	<67	<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-113

Date	5/7/2013	9/12/2013	11/20/2013	2/6/2014
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<67	<66	<67	<69
HRO*	--	<66	<67	<69
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	5/7/2013	9/12/2013	11/22/2013	2/11/2014
GRO	<50	<50	<50	<50
DRO	<29	<29	200	<29
DRO*	--	60	99	<29
HRO	<67	<67	<68	<67
HRO*	--	260	340	71
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	5/7/2013	9/11/2013	11/19/2013	2/10/2014
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<28
DRO*	--	31	<29	<28
HRO	<68	<66	<67	<66
HRO*	--	<66	<67	<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-116

Date	5/6/2013	9/12/2013	11/19/2013	2/10/2014
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<68	<66	<67	<68
HRO*	--	<66	<67	<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-117

Date	5/6/2013	9/10/2013	11/19/2013	2/10/2014
GRO	<50	<50	<50	<50
DRO	<29	<29	<29	<29
DRO*	--	<29	<29	<29
HRO	<67	<67	<67	<67
HRO*	--	<67	<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

MW-118

Date	5/6/2013	9/10/2013	11/19/2013	2/10/2014
GRO	<50	<50	<50	<50
DRO	<29	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<68	<66	<67	<68
HRO*	--	<66	<67	<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-119

Date	5/7/2013	9/11/2013	11/20/2013	2/6/2014
GRO	<50	<50	<50	<50
DRO	<28	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<66	<66	<68	<68
HRO*	--	<66	<68	<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-120

Date	5/6/2013	9/10/2013	11/19/2013	2/10/2014
GRO	<50	<50	<50	<50
DRO	<28	<28	<29	<29
DRO*	--	<28	<29	<29
HRO	<66	<66	<67	<67
HRO*	--	<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

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
- 2 — 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 -
May 2013 through February 2014

DATE: 4/15/2014 | DRAWING: 211556 2012 Site Map.dwg

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-103															
2/14/91		107.81	--	8.08	--	99.73	--	--	--	--	--	--	--	--	--
2/18/92		107.81	--	8.08	--	99.73	--	--	--	--	--	--	--	--	--
3/9/92		107.81	--	7.80	--	100.01	--	<50	--	--	--	--	--	--	--
3/13/92		107.81	--	8.08	--	99.73	<250	<250	<50	--	--	--	--	--	--
4/21/92		107.81	--	7.78	--	100.03	--	--	<50	--	--	--	--	--	--
3/3/94		107.81	--	--	--	--	<250	<250	<50	<13	--	--	--	--	--
6/13/95		107.81	--	8.55	--	99.26	<250	<250	<50	--	--	--	--	--	<3.0
8/22/95		107.81	--	--	--	--	<250	<250	<50	--	--	--	--	--	<2.0
8/23/95		107.81	--	8.91	--	98.90	<250	<250	<50	--	--	--	--	--	<2.0
11/28/95		107.81	--	7.30	--	100.51	<250	<250	<50	--	--	--	--	--	<2.0
3/12/96		107.81	--	8.03	--	99.78	<250	<250	<50	--	--	--	--	--	<2.0
6/26/96		107.81	--	8.67	--	99.14	<250	<250	<50	--	--	--	--	--	<2.0
10/9/96		107.81	--	8.82	--	98.99	<250	<250	<50	--	--	--	--	--	<2.0
2/12/97		107.81	--	7.81	--	100.00	<250	<250	<50	--	--	--	--	--	<2.0
4/22/97		107.81	--	7.42	--	100.39	<250	<250	<50	--	--	--	--	--	<2.0
8/5/97		107.81	--	8.83	--	98.98	257	110	257	--	--	--	--	--	<2.0
11/11/97		107.81	--	9.01	--	98.80	<250	<250	<50	--	--	--	--	--	<2.0
2/11/98		107.81	--	8.03	--	99.78	<250	<250	<50	--	--	--	--	--	<2.0
5/28/98		107.81	--	8.17	--	99.64	<250	<250	<50	--	--	--	--	--	2.84
8/20/98		107.81	--	9.21	--	98.60	<250	<250	<50	--	--	--	--	--	<1.0
11/19/98		107.81	--	9.03	--	98.78	<250	<250	<50	--	--	--	--	--	<1.0
3/11/99		107.81	--	7.51	--	100.30	<250	<250	<50	--	--	--	--	--	<1.0
5/25/99		107.81	--	8.51	--	99.30	<250	<250	<50	--	--	--	--	--	--
8/17/99		107.81	--	8.93	--	98.88	<250	<250	<50	--	--	--	--	--	<1.0
11/19/99		107.81	--	7.18	--	100.63	<250	<250	<80	--	--	--	--	--	<1.0
3/9/00		107.81	--	7.48	--	100.33	<250	<250	<80	--	--	--	--	--	<1.0
6/13/00		107.81	--	8.29	--	99.52	<250	<250	<80	--	--	--	--	--	<1.0
9/26/00		107.81	--	9.05	--	98.76	<250	<250	--	--	--	--	--	--	<1.0
12/13/00		107.81	--	8.65	--	99.16	<250	<250	--	--	--	--	--	--	<1.0
2/28/01		107.81	--	8.34	--	99.47	<250	<250	89	--	--	--	--	--	<1.0
5/2/01		107.81	--	8.12	--	99.69	<250	<250	214	--	--	--	--	--	<1.0
10/30/02		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
4/18/03		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/11/03		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
10/31/03		107.81	UNABLE TO LOCATE - COVERED BY SOIL					--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-103 (cont)															
12/30/03		107.81	--	7.32	0.00	100.49	<50	<85	<110	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.81	UNABLE TO LOCATE - COVERED BY SOIL					--	--	--	--	--	--	--	--
7/20/04		107.81	--	9.09	0.00	98.72	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
10/7/04		107.81	--	8.66	0.00	99.15	<160	<50	--	--	--	--	--	--	--
1/27/05		107.81	--	7.95	0.00	99.86	<83	<83	<48	--	--	--	--	--	--
4/12/05		107.81	--	7.65	0.00	100.16	<78	<78	<48	--	--	--	--	--	--
7/18/05		107.81	--	8.76	0.00	99.05	<79	<79	<48	--	--	--	--	--	--
10/21/05		107.81	--	8.87	0.00	98.94	<79	<79	<48	--	--	--	--	--	--
9/5/07		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
5/27-28/08		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/27-29/08		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
11/17-19/08		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
2/16-18/09		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
5/4-6/09		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/19-21/09		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
11/18-20/09		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
2/8-10/10		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
5/12-13/10		107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
08/12/10	LFP	107.81	--	8.90	0.00	98.91	30	120	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
11/3-4/10		107.81	--	7.69	0.00	100.12	<29	91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.17
2/3-4/11	LFP	107.81	--	7.99	0.00	99.82	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
05/24/11	LFP	107.81	--	8.25	0.00	99.56	30	340	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
8/23-24/11	LFP	107.81	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
11/7-9/11	LFP	107.81	--	8.90	0.00	98.91	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
2/6-8/12	LFP	107.81	--	7.80	0.00	100.01	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.81	--	8.05	0.00	99.76	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.083
8/1-3/12	LFP	107.81	--	8.95	0.00	98.86	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.088
11/26-28/12	LFP	107.81	--	7.36	0.00	100.45	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.81	--	7.85	0.00	99.96	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.087
5/6-8//13	LFP	107.81	--	8.60	0.00	99.21	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
9/9-13/13	LFP	107.81	--	8.55	0.00	99.26	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
11/18-21/13	LFP	107.81	--	7.62	0.00	100.19	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.21
2/4-11/14	LFP	107.81	--	8.36	0.00	99.45	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
MW-109															
3/13/92		107.35	--	7.72	0.00	99.63	--	--	<50	--	--	--	--	--	--
4/21/92		107.35	--	7.42	0.00	99.93	--	--	--	--	--	--	--	--	--
3/3/94		107.35	--	--	0.00	--	**900**	**1,500**	**4,900**	--	--	--	--	--	--

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-109 (cont.)															
8/22/95		107.35	--	8.57	0.00	98.78	**2,900**	**2,400**	<50	--	--	--	--	--	--
11/28/95		107.35	--	5.87	0.00	101.48	480	**1,900**	72	--	--	--	--	--	<2.0
3/12/96		107.35	--	7.16	0.00	100.19	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		107.35	--	8.24	0.00	99.11	**554**	<750	<50	--	--	--	--	--	<2.0
10/9/96		107.35	--	8.54	0.00	98.81	405	<750	<50	--	--	--	--	--	<2.0
2/12/97		107.35	--	5.82	0.00	101.53	393	**1,290**	<50	--	--	--	--	--	<2.0
4/22/97		107.35	--	7.10	0.00	100.25	356	**1,270**	<50	--	--	--	--	--	<2.0
8/5/97		107.35	--	8.81	0.00	98.54	**560**	**1,690**	<50	--	--	--	--	--	<2.0
11/11/97		107.35	--	7.57	0.00	99.78	269	**780**	<50	--	--	--	--	--	<2.0
2/11/98		107.35	--	6.20	0.00	101.15	387	**1,700**	<50	--	--	--	--	--	<2.0
5/28/98		107.35	--	7.62	0.00	99.73	332	**920**	<50	--	--	--	--	--	2.25
8/20/98		107.35	--	9.00	0.00	98.35	**520**	**1,450**	<50	--	--	--	--	--	<1.0
11/19/98		107.35	--	8.21	0.00	99.14	409	**1,130**	<50	--	--	--	--	--	<1.3
3/11/99		107.35	--	6.94	0.00	100.41	**539**	**2,000**	<80	--	--	--	--	--	<1.0
5/25/99		107.35	--	8.13	0.00	99.22	**916**	--	<80	--	--	--	--	--	--
8/17/99		107.35	--	8.66	0.00	98.69	**1,520**	**7,770**	<80	--	--	--	--	--	<1.0
11/19/99		107.35	--	6.65	0.00	100.70	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		107.35	--	5.67	0.00	101.68	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		107.35	--	6.65	0.00	100.70	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		107.35	--	8.36	0.00	98.99	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		107.35	--	7.72	0.00	99.63	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		107.35	--	7.44	0.00	99.91	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		107.35	--	9.50	0.00	97.85	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		107.35	--	8.69	0.00	98.66	<250	<500	<80	<0.500	<0.500	<0.500	<1.0	--	6.44
1/23/03		107.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		107.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		107.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		107.35	--	7.63	0.00	99.72	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
12/31/03		107.35	--	6.42	0.00	100.93	<50	440	**2,300**	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		107.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/6/04		107.35	--	7.71	0.00	99.64	<81	110	<50	--	--	--	--	--	--
10/24/05		107.35	--	7.93	0.00	99.42	<81	<100	<48	--	--	--	--	--	--
9/5/07		107.35	--	8.45	0.00	98.90	<79	240	91	--	--	--	--	--	0.15
5/27-28/08		107.35	--	7.86	0.00	99.49	<79	<98	<50	<0.5	0.6	<0.5	<0.5	<0.5	<0.050
8/27-29/08	LFP	107.35	--	7.92	0.00	99.43	<79	<99	<50	<5	<5	<5	<5	<5	<0.050
11/17-19/08	LFP	107.35	--	6.60	0.00	100.75	35	110	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-109 (cont.)															
2/16-18/09	LFP	107.35	--	7.59	0.00	99.76	53	130	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.093
5/4-6/09	LFP	107.35	--	7.09	0.00	100.26	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	107.35	--	8.35	0.00	99.00	49	290	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/18-20/09	LFP	107.35	--	5.74	0.00	101.61	98	340	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
2/8-10/10	LFP	107.35	--	7.04	0.00	100.31	31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	107.35	--	7.41	0.00	99.94	60	270	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/11/10	LFP	107.35	--	8.90	0.00	98.45	34	300	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.1
11/3-4/10	LFP	107.35	--	6.37	0.00	100.98	65	430	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	107.35	--	7.12	0.00	100.23	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/23/11	LFP	107.35	--	7.26	0.00	100.09	47	**520**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	107.35	--	8.35	0.00	99.00	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
11/7-9/11	LFP	107.35	--	8.00	0.00	99.35	<300	**890**	84	<0.5	<0.5	0.6	<0.5	<0.5	0.19
2/6-8/12	LFP	107.35	--	6.85	0.00	100.50	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.35	--	6.90	0.00	100.45	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.35	--	8.13	0.00	99.22	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	107.35	--	6.42	0.00	100.93	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.35	--	6.95	0.00	100.40	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.35	--	7.35	0.00	100.00	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	107.35	--	7.34	0.00	100.01	<31/<31	<72/<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.62
11/18-22/13	LFP	107.35	--	8.12	0.00	99.23	<29/68	<67/170	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
02/4-11/14	LFP	107.35	--	7.33	0.00	100.02	<30/<30	<70/<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.20
MW-110															
8/22/95		108.89	--	9.62	0.00	99.27	400	<750	**11,000**	--	--	--	--	--	--
11/28/95		108.89	--	8.08	0.00	100.81	**540**	<750	**6,000**	--	--	--	--	--	14
3/12/96		108.89	--	8.74	0.00	100.15	340	<750	**3,600**	--	--	--	--	--	14
6/26/96		108.89	--	9.41	0.00	99.48	274	<750	**2,750**	--	--	--	--	--	8.14
10/9/96		108.89	--	9.67	0.00	99.22	<250	<750	**1,160**	--	--	--	--	--	5.96
2/12/97		108.89	--	8.42	0.00	100.47	393	<750	**1,830**	--	--	--	--	--	11.7
4/22/97		108.89	--	8.18	0.00	100.71	371	<750	**1,950**	--	--	--	--	--	7.27
8/5/97		108.89	--	9.80	0.00	99.09	282	<750	**1,480**	--	--	--	--	--	3.16
11/11/97		108.89	--	8.57	0.00	100.32	**659**	<750	**2,330**	--	--	--	--	--	**22.9**
2/11/98		108.89	--	8.54	0.00	100.35	390	<750	**2,040**	--	--	--	--	--	**15.3**
5/28/98		108.89	--	8.69	0.00	100.20	324	<750	**1,350**	--	--	--	--	--	**15.5**
8/20/98		108.89	--	10.91	0.00	97.98	<250	<750	**812**	--	--	--	--	--	1.55
11/19/98		108.89	--	9.51	0.00	99.38	258	<750	637	--	--	--	--	--	7.27
3/11/99		108.89	--	8.09	0.00	100.80	486	<500	**2,350**	--	--	--	--	--	11
5/25/99		108.89	--	9.28	0.00	99.61	<250	--	**2,950**	--	--	--	--	--	--
8/17/99		108.89	--	9.81	0.00	99.08	<250	<500	749	--	--	--	--	--	2.2

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
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Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-110 (cont)															
11/19/99		108.89	--	7.77	0.00	101.12	453	--	**2,030**	--	--	--	--	--	**32.4**
3/9/00		108.89	--	8.15	0.00	100.74	<250	<500	**3,780**	--	--	--	--	--	9.59
6/13/00		108.89	--	8.81	0.00	100.08	<250	<500	**2,330**	--	--	--	--	--	5.45
9/26/00		108.89	--	9.98	0.00	98.91	<250	<500	--	--	--	--	--	--	2.83
12/13/00		108.89	--	9.37	0.00	99.52	<250	<500	**1,340**	--	--	--	--	--	4.15
2/28/01		108.89	--	9.07	0.00	99.82	<250	<500	**1,800**	--	--	--	--	--	6.32
5/2/01		108.89	--	8.62	0.00	100.27	<250	<500	**905**	--	--	--	--	--	4.23
10/30/02		108.89	--	10.28	0.00	98.61	<250	<500	**3,880**	<2.50	<2.50	22.5	108	--	6.36
1/23/03		108.89	--	8.74	0.00	100.15	<250	<500	**1,190**	0.902	0.585	9.83	13.9	--	**26.5**[4]
4/18/03		108.89	--	8.40	0.00	100.49	<250	<500	499	1.94	<0.500	0.799	1.65	--	**16.8**[4]
7/11/03		108.89	--	9.99	0.00	98.90	<250	<500	586	1.76	<0.500	1.08	1.11	--	2.11[4]
10/31/03		108.89	--	9.25	0.00	99.64	<250	<500	184	0.529	<0.500	<0.500	<1.0	--	<1.0[4]
12/31/03		108.89	--	7.94	0.00	100.95	**1,800**	410	<99	<10	<2.0	23	25	--	**17.3**
5/3/04		108.89	--	9.56	0.00	99.33	<250	<500	454	1.8	<0.500	<0.500	<1.0	--	3.86[4]
7/20/04		108.89	--	10.03	0.00	98.86	<250	<500	308	0.893	<0.500	<0.500	<1.0	--	<1.0[4]
10/6/04		108.89	--	9.38	0.00	99.51	<79	<99	160	--	--	--	--	--	--
1/27/05		108.89	--	8.65	0.00	100.24	<81	<100	150	--	--	--	--	--	--
4/12/05		108.89	--	8.22	0.00	100.67	370	<100	290	--	--	--	--	--	--
7/18/05		108.89	--	9.50	0.00	99.39	<79	<99	100	--	--	--	--	--	--
7/18/05 (D)		108.89	--	9.50	0.00	99.39	<79	<99	100	--	--	--	--	--	--
10/20/05		108.89	--	9.62	0.00	99.27	82	100	110	--	--	--	--	--	--
9/4/07		108.89	--	10.08	0.00	98.81	<150	220	290	--	--	--	--	--	5
5/27-28/08	LFP	108.89	--	9.52	0.00	99.37	<76	<96	210	<0.5	<0.5	9	0.7	<0.5	9.1
8/27-29/08	LFP	108.89	--	9.60	0.00	99.29	120	<100	240	<5	<5	<5	<5	<5	1.5
11/17-19/08	LFP	108.89	--	8.17	0.00	100.72	410	<68	150	<0.5	<0.5	<0.5	<0.5	<0.5	**34.1**
2/16-18/09	LFP	108.89	--	9.23	0.00	99.66	58	170	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**27.7**
5/4-6/09	LFP	108.89	--	8.60	0.00	100.29	380	**670**	96	<0.5	<0.5	<0.5	<0.5	<0.5	5.4
8/19-21/09	LFP	108.89	--	9.98	0.00	98.91	<30	76	69	<0.5	<0.5	<0.5	<0.5	<0.5	0.63
11/18-20/09	LFP	108.89	--	6.97	0.00	101.92	200	<67	670	<0.5	<0.5	2	<0.5	<0.5	5
2/8-10/10	LFP	108.89	--	8.64	0.00	100.25	51	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	12.5
5/12-13/10	LFP	108.89	--	9.08	0.00	99.81	39	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	4.2
08/11/10	LFP	108.89	--	9.75	0.00	99.14	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.4
11/3-4/10	LFP	108.89	--	8.15	0.00	100.74	49	98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	2.5
2/3-4/11	LFP	108.89	--	8.77	0.00	100.12	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.72
05/24/11	LFP	108.89	--	8.90	0.00	99.99	<29	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.43
8/23-24/11	LFP	108.89	--	9.96	0.00	98.93	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.62
11/7-9/11	LFP	108.89	--	9.30	0.00	99.59	<31	<72	95	<0.5	<0.5	<0.5	<0.5	<0.5	0.22

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-110 (cont)															
2/6-8/12	LFP	108.89	--	8.40	0.00	100.49	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
5/2-4/12	LFP	108.89	--	8.40	0.00	100.49	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.23
8/1-3/12	LFP	108.89	--	8.46	0.00	100.43	50	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.093
11/26-28/12	LFP	108.89	--	7.95	0.00	100.94	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.30
02/4-6/13	LFP	108.89	--	8.38	0.00	100.51	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	108.89	--	9.52	0.00	99.37	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.23
9/9-13/13	LFP	108.89	--	9.03	0.00	99.86	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.39
11/18-21/13	LFP	108.89	--	8.22	0.00	100.67	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.33
02/4-11/14	LFP	108.89	--	8.98	0.00	99.91	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.16
MW-111															
8/22/95		107.12	--	7.86	0.00	99.26	360	<750	**33,000**	--	--	--	--	--	--
11/28/95		107.12	--	6.14	0.00	100.98	**640**	<750	**17,000**	--	--	--	--	--	10
3/12/96		107.12	--	6.84	0.00	100.28	290	<750	**11,000**	--	--	--	--	--	7.6
6/26/96		107.12	--	7.55	0.00	99.57	479	<750	**7,690**	--	--	--	--	--	4.8
10/9/96		107.12	--	7.81	0.00	99.31	256	<750	**3,560**	--	--	--	--	--	4.7
2/12/97		107.12	--	6.52	0.00	100.60	**631**	<750	**17,200**	--	--	--	--	--	8.7
4/22/97		107.12	--	6.31	0.00	100.81	**920**	<750	**13,800**	--	--	--	--	--	5.3
8/5/97		107.12	--	7.90	0.00	99.22	444	<750	**4,290**	--	--	--	--	--	3.5
11/11/97		107.12	--	6.70	0.00	100.42	**770**	<750	**14,300**	--	--	--	--	--	12.4
2/11/98		107.12	--	6.65	0.00	100.47	**587**	<750	**13,600**	--	--	--	--	--	8.3
5/28/98		107.12	--	6.89	0.00	100.23	**526**	<750	**11,200**	--	--	--	--	--	**16.6**
8/20/98		107.12	--	9.08	0.00	98.04	**637**	<750	**5,950**	--	--	--	--	--	1.7
11/19/98		107.12	--	7.60	0.00	99.52	**3,890**	<750	**10,500,000**	--	--	--	--	--	2.2
1/22/99		107.12	--	5.36	0.00	101.76	--	--	**19,000**	--	--	--	--	--	--
3/11/99		107.12	--	6.19	0.00	100.93	**611**	<500	**6,910**	--	--	--	--	--	6.3
5/25/99		107.12	--	7.43	0.00	99.69	388	--	**8,500**	--	--	--	--	--	4.2
8/17/99		107.12	--	7.98	0.00	99.14	**547**	<500	**17,600**	--	--	--	--	--	3
11/19/99		107.12	--	5.87	0.00	101.25	**547**	--	**27,900**	--	--	--	--	--	14.4
3/9/00		107.12	--	6.27	0.00	100.85	**12,400**	**646**	**20,800**	--	--	--	--	--	11.8
6/13/00		107.12	--	6.91	0.00	100.21	**7,670**	<500	**29,600**	--	--	--	--	--	12.8
9/26/00		107.12	--	8.37	0.00	98.75	--	--	--	--	--	--	--	--	--
12/13/00		107.12	--	7.65	0.00	99.47	**13,800**	<500	**23,100**	--	--	--	--	--	4.1
2/28/01		107.12	--	7.26	0.00	99.86	**3,740**	<500	**16,400**	--	--	--	--	--	5.6
5/2/01		107.12	--	6.89	0.00	100.23	**7,530**	<500	**17,700**	--	--	--	--	--	10.7
10/30/02		107.12	8.42	8.70	0.28	98.64	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL			--	--	--	--	--	--
1/23/03		107.12	6.95	6.99	0.04	100.16	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL			--	--	--	--	--	--
4/18/03		107.12	6.83	6.89	0.06	100.28	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL			--	--	--	--	--	--
7/11/03		107.12	8.18	8.25	0.07	98.93	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL			--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-111 (cont)															
10/31/03		107.12	7.45	7.48	0.03	99.66	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
12/31/03		107.12	--	6.40	0.00	100.72	**50,000**	**2,800**	300	**8.3**	6.5	**1,100**	**3,300**	--	**15.2**
05/03/04		107.12	7.76	7.79	0.03	99.35	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
7/20/04		107.12	8.10	8.16	0.06	99.01	NOT SAMPLED DUE TO THE PRESENCE OF LNAPL					--	--	--	--
10/6/04		107.12	--	7.54	0.00	99.58	240	<100	**5,700**	--	--	--	--	--	--
1/27/05		107.12	--	6.79	0.00	100.33	310	<98	**8,800**	--	--	--	--	--	--
1/27/05(D)		107.12	--	6.79	0.00	100.33	310	<98	**9,100**	--	--	--	--	--	--
4/12/05		107.12	--	6.32	0.00	100.80	**820**	<100	**10,000**	--	--	--	--	--	--
4/12/05(D)		107.12	--	6.32	0.00	100.80	**850**	<110	**10,000**	--	--	--	--	--	--
7/18/05		107.12	--	7.75	0.00	99.37	460	<96	**6,300**	--	--	--	--	--	--
10/20/05		107.12	--	7.84	0.00	99.28	--	--	--	--	--	--	--	--	--
9/4/07		107.12	--	8.26	0.00	98.86	**1,100**	<220	**6,800**	--	--	--	--	--	2.8
9/4/07		107.12	--	--	0.00	--	<81	<100	<50	--	--	--	--	--	<0.047
5/27-28/08		107.12	--	7.64	0.00	99.48	NOT SAMPLED DUE TO OBSTRUCTION IN WELL @ 7 FEET						--	--	--
8/27-29/08		107.12	--	7.71	0.00	99.41	NOT SAMPLED DUE TO OBSTRUCTION IN WELL @ 8 FEET						--	--	--
11/17-19/08	LFP	107.12	--	6.27	0.00	100.85	**2,300**	<1,400	**18,000**	3	<1	300	220	<1	**36.8**
2/16-18/09	LFP	107.12	--	7.36	0.00	99.76	350	74	**20,000**	4	2	190	110	<1	8.5
5/4-6/09	LFP	107.12	--	6.62	0.00	100.50	**1,200**	<70	**13,000**	**8**	2	220	120	<0.5	**20.1**
8/19-21/09	LFP	107.12	--	8.12	0.00	99.00	**780**	<70	**11,000**	4	0.6	180	130	<0.5	5.3
11/18-20/09	LFP	107.12	--	5.42	0.00	101.70	400	<68	**4,700**	**5**	0.7	53	21	<0.5	6.3
2/08-10/10	LFP	107.12	--	6.79	0.00	100.33	**2,700**	<140	**19,000**	**16**	1	270	110	<0.5	**18.8**
5/12-13/10	LFP	107.12	--	7.25	0.00	99.87	**3,400**	380	**21,000**	**10**	1	300	110	<1	**22.6**
08/11/10	LFP	107.12	--	7.92	0.00	99.20	**1,300**	<700	**9,200**	4	<1	220	55	<1	**20.2**
11/3-4/10	LFP	107.12	--	6.12	0.00	101.00	**1,700**	**640**	**7,000**	4	<1	160	68	<1	**29.5**
2/3-4/11	LFP	107.12	--	6.91	0.00	100.21	**2,800**	<340	**14,000**	**10**	0.9	250	72	<0.5	**19.9**
05/24/11	LFP	107.12	--	7.03	0.00	100.09	**500**	130	**2,700**	<0.5	<0.5	65	15	<0.5	2.8
8/23-24/11	LFP	107.12	--	9.16	0.00	97.96	**1,600**	<69	**6,900**	3	<0.5	130	11	<0.5	12.2
11/7-9/11	LFP	107.12	--	7.85	0.00	99.27	**4,700**	<730	**20,000**	1	<1	140	26	<1	**45.8**
2/6-8/12	LFP	107.12	--	6.55	0.00	100.57	**690**	110	**5,100**	**5**	<0.5	140	<0.5	<0.5	**22.1**
5/2-4/12	LFP	107.12	--	6.50	0.00	100.62	420	<68	**4,400**	**5**	0.7	170	23	<0.5	8.9
8/1-3/12	LFP	107.12	--	7.93	0.00	99.19	**620**	140	**6,900**	0.6	<0.5	<0.5	12	<0.5	**22.9**
11/26-28/12	LFP	107.12	--	6.07	0.00	101.05	**15,000**	<3,500	**5,200**	4	<0.5	140	32	<0.5	**36.1**
02/4-6/13	LFP	107.12	--	6.53	0.00	100.59	**2,300**	**710**	**7,500**	<3	<3	120	24	<0.5	**17.8**
05/6-8/13	LFP	107.12	--	7.46	0.00	99.66	300	<67	**5,500**	2	<0.5	100	13	<0.5	**16.6**
9/9-13/13	LFP	107.12	--	7.15	0.00	99.97	330/**3,600**	<66/89	**5,500**	1	<0.5	110	39	<0.5	**59.4**
11/18-22/13	LFP	107.12	--	6.42	0.00	100.70	370/**1,000**	<66/<66	**3,300**	0.9	<0.5	77	13	<0.5	**17.8**
2/4-11/14	LFP	107.12	--	7.11	0.00	100.01	410/**1,000**	<68/<68	**4,800**	1	<0.5	75	7	<0.5	**27.3**

leidos

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-112															
8/22/95		107.58	--	8.42	0.00	99.16	<250	<750	480	--	--	--	--	--	--
11/28/95		107.58	--	6.73	0.00	100.85	<250	<750	150	--	--	--	--	--	5.8
3/12/96		107.58	--	7.43	0.00	100.15	<250	<750	250	--	--	--	--	--	<2.0
6/26/96		107.58	--	8.12	0.00	99.46	<250	<750	63.8	--	--	--	--	--	<2.0
10/9/96		107.58	--	8.36	0.00	99.22	<250	<750	93.1	--	--	--	--	--	2.62
2/12/97		107.58	--	7.11	0.00	100.47	322	<750	**1,250**	--	--	--	--	--	2.99
4/22/97		107.58	--	6.85	0.00	100.73	<250	<750	323	--	--	--	--	--	<2.0
8/5/97		107.58	--	8.45	0.00	99.13	<250	<750	124	--	--	--	--	--	<2.0
11/11/97		107.58	--	7.26	0.00	100.32	<250	<750	112	--	--	--	--	--	<2.0
2/11/98		107.58	--	7.25	0.00	100.33	<250	<750	658	--	--	--	--	--	<2.0
5/28/98		107.58	--	7.46	0.00	100.12	315	<750	713	--	--	--	--	--	10.4
8/20/98		107.58	--	9.64	0.00	97.94	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		107.58	--	8.20	0.00	99.38	<250	<750	367	--	--	--	--	--	<1.0
3/11/99		107.58	--	6.79	0.00	100.79	<250	<500	**1,370**	--	--	--	--	--	1.42
5/25/99		107.58	--	7.97	0.00	99.61	<250	--	<80	--	--	--	--	--	--
8/17/99		107.58	--	8.51	0.00	99.07	<250	<500	106	--	--	--	--	--	<1.6
11/19/99		107.58	--	6.46	0.00	101.12	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		107.58	--	6.85	0.00	100.73	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		107.58	--	7.48	0.00	100.10	<250	<500	**824**	--	--	--	--	--	2.14
9/26/00		107.58	--	8.66	0.00	98.92	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		107.58	--	8.07	0.00	99.51	<250	<500	<80	--	--	--	--	--	<1.0
2/28/01		107.58	--	7.77	0.00	99.81	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		107.58	--	7.31	0.00	100.27	<250	<500	710	--	--	--	--	--	1.44
10/30/02		107.58	--	8.95	0.00	98.63	<250	<500	95.7	<0.500	<0.500	<0.500	<1.00	--	2.63
1/23/03		107.58	--	7.39	0.00	100.19	<250	<500	178	<0.500	<0.500	0.730	<1.00	--	<1.0[4]
4/18/03		107.58	--	7.28	0.00	100.30	<250	<500	93.4	<0.500	<0.500	<0.500	<1.00	--	<1.0[4]
7/11/03		107.58	--	8.68	0.00	98.90	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	--	<1.0[4]
10/31/03		107.58	--	8.04	0.00	99.54	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	<1.0[4]
12/30/03		107.58	--	6.62	0.00	100.96	<50	<77	<97	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.58	--	8.22	0.00	99.36	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	<1.0[4]
7/20/04		107.58	--	8.69	0.00	98.89	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.00	--	--
10/7/04		107.58	--	8.06	0.00	99.52	<82	<100	<50	--	--	--	--	--	--
7/18/05		107.58	--	8.26	0.00	99.32	<77	<96	<48	--	--	--	--	--	--
10/21/05		107.58	--	8.25	0.00	99.33	<82	<100	48	--	--	--	--	--	--
9/5/07		107.58	--	8.79	0.00	98.79	<79	<99	<50	--	--	--	--	--	0.52
5/27-28/08	LFP	107.58	--	8.22	0.00	99.36	<80	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.24

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-112 (cont)															
8/27-29/08	LFP	107.58	--	8.26	0.00	99.32	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.92
11/17-19/08	LFP	107.58	--	6.87	0.00	100.71	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.057
2/16-18/09	LFP	107.58	--	7.92	0.00	99.66	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.51
5/4-06/09	LFP	107.58	--	7.26	0.00	100.32	120	<69	380	2	<0.5	<0.5	<0.5	<0.5	2.1
8/19-21/09	LFP	107.58	--	8.67	0.00	98.91	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.27
11/18-20/09	LFP	107.58	--	5.58	0.00	102.00	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
2/8-10/10	LFP	107.58	--	7.35	0.00	100.23	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.46
5/12-13/10	LFP	107.58	--	7.77	0.00	99.81	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.58
08/12/10	LFP	107.58	--	8.45	0.00	99.13	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.29
11/3-4/10	LFP	107.58	--	6.85	0.00	100.73	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
2/3-4/11	LFP	107.58	--	8.21	0.00	99.37	49	89	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.56
05/24/11	LFP	107.58	--	7.58	0.00	100.00	<29	270	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.49
8/23-24/11	LFP	107.58	--	8.52	0.00	99.06	**860**	<66	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
11/7-9/11	LFP	107.58	--	8.35	0.00	99.23	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.24
2/6-8/12	LFP	107.58	--	7.10	0.00	100.48	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
5/2-4/12	LFP	107.58	--	7.20	0.00	100.38	<30	<69	68	<0.5	<0.5	<0.5	<0.5	<0.5	1.5
8/1-3/12	LFP	107.58	--	8.45	0.00	99.13	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.39
11/26-28/12	LFP	107.58	--	6.67	0.00	100.91	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.14
02/4-6/13	LFP	107.58	--	7.22	0.00	100.36	<28	<66	50	<0.5	<0.5	<0.5	<0.5	<0.5	0.64
5/6-8/13	LFP	107.58	--	8.00	0.00	99.58	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.47
9/9-13/13	LFP	107.58	--	7.71	0.00	99.87	<29/32	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.85
11/18-22/13	LFP	107.58	--	6.76	0.00	100.82	<29/33	<67/<67	68	<0.5	<0.5	<0.5	<0.5	<0.5	0.58
2/4-11/2014	LFP	107.58	--	7.67	0.00	99.91	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.38
MW-113															
8/22/95		108.44	--	9.26	0.00	99.18	320	<750	**3,100**	--	--	--	--	--	--
11/28/95		108.44	--	7.55	0.00	100.89	<250	<750	180	--	--	--	--	--	<2.0
3/12/96		108.44	--	8.26	0.00	100.18	<250	<750	750	--	--	--	--	--	<2.0
6/26/96		108.44	--	8.95	0.00	99.49	<250	<750	**809**	--	--	--	--	--	2.43
10/9/96		108.44	--	9.21	0.00	99.23	<250	<750	494	--	--	--	--	--	2.95
2/12/97		108.44	--	7.93	0.00	100.51	<250	<750	**1,600**	--	--	--	--	--	<2.0
4/22/97		108.44	--	7.71	0.00	100.73	291	<750	748	--	--	--	--	--	<2.0
8/5/97		108.44	--	9.37	0.00	99.07	<250	<750	**876**	--	--	--	--	--	<2.0
11/11/97		108.44	--	8.04	0.00	100.40	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		108.44	--	8.02	0.00	100.42	<250	<750	76.10	--	--	--	--	--	<2.0
5/28/98		108.44	--	8.31	0.00	100.13	<250	<750	116	--	--	--	--	--	6.26
8/20/98		108.44	--	10.48	0.00	97.96	<250	<750	235	--	--	--	--	--	<1.0
11/19/98		108.44	--	9.02	0.00	99.42	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		108.44	--	7.59	0.00	100.85	<250	<750	162	--	--	--	--	--	<1.0

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-113 (cont)															
5/25/99		108.44	--	8.83	0.00	99.61	<250	--	321	--	--	--	--	--	--
8/17/99		108.44	--	9.34	0.00	99.10	<250	<500	265	--	--	--	--	--	1.2
11/19/99		108.44	--	7.27	0.00	101.17	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		108.44	--	7.66	0.00	100.78	<250	<500	96.70	--	--	--	--	--	<1.0
6/13/00		108.44	--	8.29	0.00	100.15	<250	<500	154	--	--	--	--	--	<1.0
9/26/00		108.44	--	9.51	0.00	98.93	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		108.44	--	8.91	0.00	99.53	<250	**588**	<80	--	--	--	--	--	<1.0
2/28/01		108.44	--	8.60	0.00	99.84	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		108.44	--	8.14	0.00	100.30	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		108.44	--	9.85	0.00	98.59	<250	<500	<80	<0.500	<0.500	<0.500	<1.0	--	1.55
1/23/03		108.44	--	8.29	0.00	100.15	<250	<500	<80	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
4/18/03		108.44	--	8.09	0.00	100.35	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
7/11/03		108.44	--	9.51	0.00	98.93	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
10/31/03		108.44	--	8.80	0.00	99.64	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
12/31/03		108.44	--	7.44	0.00	101.00	<50	<77	<97	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		108.44	--	9.14	0.00	99.30	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
7/20/04		108.44	--	9.58	0.00	98.86	<250	<500	<50	<0.500	<0.500	<0.500	<1.0	--	--
10/6/04		108.44	--	8.92	DRY	--	--	--	--	--	--	--	--	--	--
1/27/05		108.44	--	8.15	0.00	--	<84	<110	<48	--	--	--	--	--	--
4/12/05		108.44	--	7.76	0.00	--	<88	<110	<48	--	--	--	--	--	--
7/18/05		108.44	--	9.11	0.00	--	<79	<98	<48	--	--	--	--	--	--
10/26/05		108.44	--	9.10	0.00	--	<82	<100	<48	--	--	--	--	--	--
9/5/07		108.44	--	9.59	0.00	98.85	<82	<100	<50	--	--	--	--	--	0.32
9/5/07 (D)		108.44	--	9.59	0.00	98.85	<82	<100	<50	--	--	--	--	--	0.32
5/27-28/08	LFP	108.44	--	9.02	0.00	99.42	<82	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.16
8/27-29/08	LFP	108.44	--	9.10	0.00	99.34	<81	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
11/17-19/08	LFP	108.44	--	7.68	0.00	100.76	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	108.44	--	8.75	0.00	99.69	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.087
5/4-6/09	LFP	108.44	--	8.28	0.00	100.16	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	108.44	--	9.50	0.00	98.94	<31	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.14
11/18-20/09	LFP	108.44	--	6.39	0.00	102.05	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.16
2/8-10/10	LFP	108.44	--	8.15	0.00	100.29	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	108.44	--	8.60	0.00	99.84	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.093
08/12/10	LFP	108.44	--	9.29	0.00	99.15	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.077
11/3-4/10	LFP	108.44	--	7.65	0.00	100.79	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	108.44	--	8.26	0.00	100.18	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11	LFP	108.44	--	8.42	0.00	100.02	<30	330	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-113 (cont)															
8/23-24/11	LFP	108.44	--	9.32	0.00	99.12	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.096
11/7-9/11	LFP	108.44	--	9.20	0.00	99.24	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
2/6-8/12	LFP	108.44	--	7.95	0.00	100.49	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	108.44	--	8.00	0.00	100.44	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	108.44	--	9.30	0.00	99.14	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.048
11/26-28/12	LFP	108.44	--	7.49	0.00	100.95	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	108.44	--	8.06	0.00	100.38	30	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	108.44	--	8.83	0.00	99.61	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	108.44	--	8.56	0.00	99.88	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
11/18-21/13	LFP	108.44	--	7.74	0.00	100.70	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
2/4-11/14	LFP	108.44	--	6.56	0.00	101.88	<29/<29	<69/<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
MW-114															
8/22/95		106.89	--	7.47	0.00	99.42	<250	<750	<50	--	--	--	--	--	--
11/28/95		106.89	--	58.30	0.00	48.59	<250	<750	<50	--	--	--	--	--	<2.0
3/12/96		106.89	--	6.39	0.00	100.50	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		106.89	--	7.11	0.00	99.78	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		106.89	--	7.42	0.00	99.47	<250	<750	<50	--	--	--	--	--	<2.0
2/12/97		106.89	--	5.47	0.00	101.42	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		106.89	--	14.30	0.00	92.59	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		106.89	--	7.65	0.00	99.24	<250	**1,410**	<50	--	--	--	--	--	<2.0
11/11/97		106.89	--	6.45	0.00	100.44	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		106.89	--	6.23	0.00	100.66	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		106.89	--	6.44	0.00	100.45	<250	<750	<50	--	--	--	--	--	5.91
8/20/98		106.89	--	8.75	0.00	98.14	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		106.89	--	7.05	0.00	99.84	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		106.89	--	5.90	0.00	100.99	<250	<500	<80	--	--	--	--	--	<1.0
5/25/99		106.89	--	7.10	0.00	99.79	<250	--	<80	--	--	--	--	--	--
8/17/99		106.89	--	7.59	0.00	99.30	<250	**607**	<80	--	--	--	--	--	<1.0
11/19/99		106.89	--	5.59	0.00	101.30	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		106.89	--	5.98	0.00	100.91	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		106.89	--	6.04	0.00	100.85	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		106.89	--	7.81	0.00	99.08	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		106.89	--	7.06	0.00	99.83	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		106.89	--	6.79	0.00	100.10	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		106.89	--	8.84	0.00	98.05	<250	**1,880**	<80	--	--	--	--	--	<1.0
10/30/02		106.89	--	8.32	0.00	98.57	<250	**1,090**	115	<0.500	<0.500	1.17	5.18	--	1.01
1/23/03		106.89	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		106.89	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--

TABLE 1

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-114 (cont)															
7/11/03		106.89	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		106.89	--	6.61	0.00	100.28	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
12/30/03		106.89	--	5.81	0.00	101.08	<50	480	**3,600**	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		106.89	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		106.89	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/6/04		106.89	--	6.98	0.00	99.91	<76	<95	<50	--	--	--	--	--	--
10/24/05		106.89	--	7.28	0.00	99.61	<79	<99	<48	--	--	--	--	--	--
9/5/07		106.89	--	7.87	0.00	99.02	94	**810**	<50	--	--	--	--	--	0.38
5/27-28/08	LFP	106.89	--	7.19	0.00	99.70	<1,600	**15,000**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.14
8/27-29/08	LFP	106.89	--	7.30	0.00	99.59	270	**2,200**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.25
11/17-19/08	LFP	106.89	--	6.01	0.00	100.88	330	**4,600**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
2/16-18/09	LFP	106.89	--	6.91	0.00	99.98	210	**1,900**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
5/4-6/09	LFP	106.89	--	6.42	0.00	100.47	180	**1,400**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.43
8/19-21/09	LFP	106.89	--	7.78	0.00	99.11	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.79
11/18-20/09	LFP	106.89	--	5.10	0.00	101.79	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.34
2/8-10/10	LFP	106.89	--	6.38	0.00	100.51	110	**790**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
5/12-13/10	LFP	106.89	--	6.71	0.00	100.18	<30	80	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.23
08/11/10	LFP	106.89	--	7.45	0.00	99.44	<29	220	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/3-4/10	LFP	106.89	--	5.88	0.00	101.01	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.24
2/3-4/11	LFP	106.89	--	6.48	0.00	100.41	60	460	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
05/23/11	LFP	106.89	--	6.55	0.00	100.34	55	380	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
8/23-24/11	LFP	106.89	--	7.70	0.00	99.19	130	**1,500**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.41
11/7-9/11	LFP	106.89	--	7.35	0.00	99.54	120	**950**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
2/6-8/12	LFP	106.89	--	6.25	0.00	100.64	<29	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.088
5/2-4/12	LFP	106.89	--	5.95	0.00	100.94	<30	140	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.72
8/1-3/12	LFP	106.89	--	7.50	0.00	99.39	140	**910**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.084
11/26-28/12	LFP	106.89	--	5.88	0.00	101.01	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.19
02/4-6/13	LFP	106.89	--	6.27	0.00	100.62	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.13
05/6-8/13	LFP	106.89	--	6.97	0.00	99.92	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.20
9/9-13/13	LFP	106.89	--	6.96	0.00	99.93	<29/60	<67/260	<50	<0.5	<0.5	<0.5	<0.5	<0.5	2.3
11/18-22/13	LFP	106.89	--	8.36	0.00	98.53	200/99	<68/340	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
02/4-11/14	LFP	106.89	--	6.56	0.00	100.33	<29/<29	<67/71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.12
MW-115															
8/22/95		107.94	--	8.79	0.00	99.15	<250	<750	**1,800**	--	--	--	--	--	--
11/28/95		107.94	--	7.05	0.00	100.89	<250	<750	460	--	--	--	--	--	<2.0
3/12/96		107.94	--	7.76	0.00	100.18	<250	<750	630	--	--	--	--	--	<2.0
6/26/96		107.94	--	8.45	0.00	99.49	<250	<750	706	--	--	--	--	--	<2.0
10/9/96		107.94	--	8.71	0.00	99.23	<250	<750	722	--	--	--	--	--	2.54

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-115 (cont)															
2/12/97		107.94	--	7.48	0.00	100.46	<250	<750	58	--	--	--	--	--	<2.0
4/22/97		107.94	--	7.25	0.00	100.69	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		107.94	--	8.77	0.00	99.17	<250	<750	611	--	--	--	--	--	2.0
11/11/97		107.94	--	7.71	0.00	100.23	<250	<750	57	--	--	--	--	--	<2.0
2/11/98		107.94	--	7.72	0.00	100.22	<250	<750	89.5	--	--	--	--	--	<2.0
5/28/98		107.94	--	7.92	0.00	100.02	<250	<750	<50	--	--	--	--	--	8.08
8/20/98		107.94	--	9.18	0.00	98.76	<250	<750	155	--	--	--	--	--	<1.0
11/19/98		107.94	--	8.58	0.00	99.36	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		107.94	--	7.12	0.00	100.82	<250	<750	<80	--	--	--	--	--	<1.0
5/25/99		107.94	--	8.33	0.00	99.61	<250	--	<80	--	--	--	--	--	--
8/17/99		107.94	--	8.87	0.00	99.07	<250	<500	163	--	--	--	--	--	1.4
11/19/99		107.94	--	6.82	0.00	101.12	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		107.94	--	7.20	0.00	100.74	<250	<500	103	--	--	--	--	--	<1.0
6/13/00		107.94	--	7.82	0.00	100.12	--	--	<80	--	--	--	--	--	<1.0
9/26/00		107.94	--	9.02	0.00	98.92	<250	<500	--	--	--	--	--	--	1.02
12/13/00		107.94	--	8.43	0.00	99.51	<250	<500	313	--	--	--	--	--	<1.0
2/28/01		107.94	--	8.13	0.00	99.81	<250	<500	177	--	--	--	--	--	<1.0
5/2/01		107.94	--	10.37	0.00	97.57	<250	<500	162	--	--	--	--	--	<1.0
10/30/02		107.94	--	9.33	0.00	98.61	<250	<500	175	<0.500	<0.500	<0.500	<1.0	--	4.36
1/23/03		107.94	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		107.94	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		107.94	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		107.94	--	8.30	0.00	99.64	<250	<500	78.9	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
12/31/03		107.94	--	6.98	0.00	100.96	<50	<79	<99	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.94	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		107.94	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/6/04		107.94	--	8.43	0.00	99.51	<160	<200	<50	--	--	--	--	--	--
10/21/05		107.94	--	8.67	0.00	99.27	<81	<100	<48	--	--	--	--	--	--
10/21/05(D)		107.94	--	8.67	0.00	99.27	<82	<100	<48	--	--	--	--	--	--
9/5/07		107.94	--	9.11	0.00	98.83	<76	<95	<50	--	--	--	--	--	0.37
5/27-28/08		107.94	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	107.94	--	8.63	0.00	99.31	<82	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.35
11/17-19/08	LFP	107.94	--	7.25	0.00	100.69	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.097
2/16-18/09	LFP	107.94	--	8.31	0.00	99.63	<31	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.17
5/4-6/09	LFP	107.94	--	7.66	0.00	100.28	42	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
8/19-21/09	LFP	107.94	--	9.04	0.00	98.90	320	**2,700**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.64
10/19/09	LFP	107.94	--	8.70	0.00	99.24	<29	<68	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-115 (cont)															
11/18-20/09	LFP	107.94	--	5.85	0.00	102.09	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.92
2/8-10/10	LFP	107.94	--	7.69	0.00	100.25	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.17
5/12-13/10	LFP	107.94	--	8.14	0.00	99.80	30	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.20
08/12/10	LFP	107.94	--	8.81	0.00	99.13	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.92
11/3-4/10	LFP	107.94	--	7.07	0.00	100.87	<30	<70	70	<0.5	<0.5	<0.5	<0.5	<0.5	0.83
2/3-4/11	LFP	107.94	--	7.81	0.00	100.13	33	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
05/24/11	LFP	107.94	--	7.95	0.00	99.99	42	220	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.53
8/23-24/11	LFP	107.94	--	9.05	0.00	98.89	68	74	73	<0.5	<0.5	<0.5	<0.5	<0.5	1.2
11/7-9/11	LFP	107.94	--	8.70	0.00	99.24	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.60
2/6-8/12	LFP	107.94	--	7.55	0.00	100.39	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.94	--	7.55	0.00	100.39	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.94	--	8.82	0.00	99.12	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.63
11/26-28/12	LFP	107.94	--	7.04	0.00	100.90	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.052
02/4-6/13	LFP	107.94	--	7.58	0.00	100.36	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.94	--	8.34	0.00	99.60	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.41
9/9-13/13	LFP	107.94	--	8.09	0.00	99.85	<28/31	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.89
11/18-21/13	LFP	107.94	--	7.45	0.00	100.49	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.45
2/4-11/14	LFP	107.94	--	8.05	0.00	99.89	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.43
MW-116															
8/22/95		107.56	--	8.82	0.00	98.74	<250	<750	<50	--	--	--	--	--	--
3/12/96		107.56	--	8.08	0.00	99.48	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		107.56	--	8.69	0.00	98.87	<250	<750	<50	--	--	--	--	--	<2.0
2/12/97		107.56	--	7.86	0.00	99.70	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		107.56	--	7.65	0.00	99.91	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		107.56	--	8.71	0.00	98.85	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		107.56	--	8.07	0.00	99.49	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		107.56	--	8.06	0.00	99.50	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		107.56	--	8.25	0.00	99.31	<250	<750	<50	--	--	--	--	--	4.66
8/20/98		107.56	--	9.05	0.00	98.51	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		107.56	--	9.16	0.00	98.40	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		107.56	--	7.64	0.00	99.92	<250	<750	<80	--	--	--	--	--	<1.0
5/25/99		107.56	--	8.40	0.00	99.16	<250	--	<80	--	--	--	--	--	--
8/17/99		107.56	--	8.78	0.00	98.78	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		107.56	--	7.60	0.00	99.96	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		107.56	--	7.70	0.00	99.86	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		107.56	--	8.37	0.00	99.19	--	--	<80	--	--	--	--	--	<1.0
9/26/00		107.56	--	8.88	0.00	98.68	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		107.56	--	8.52	0.00	99.04	<250	<500	--	--	--	--	--	--	<1.0

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-116 (cont)															
2/28/01		107.56	--	8.25	0.00	99.31	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		107.56	--	10.84	0.00	96.72	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
4/18/03		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/11/03		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
10/31/03		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
12/30/03		107.56	--	7.54	0.00	100.02	<50	<79	<99	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.56	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/20/04		107.56	--	8.92	0.00	98.64	<284	<568	<50	<0.500	<0.500	<0.500	<1.00	--	--
10/7/04		107.56	--	7.54	0.00	100.02	<75	<94	<50	--	--	--	--	--	--
10/20/05		107.56	--	8.73	0.00	98.83	<81	<100	<48	--	--	--	--	--	--
9/6/07		107.56	--	9.00	0.00	98.56	<76	<95	<50	--	--	--	--	--	0.15
5/27-28/08		107.56	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	107.56	--	8.68	0.00	98.88	89	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	107.56	--	7.93	0.00	99.63	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	107.56	--	8.45	0.00	99.11	**590**	350	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
5/4-6/09	LFP	107.56	--	8.20	0.00	99.36	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	107.56	--	8.91	0.00	98.65	34	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	107.56	--	6.85	0.00	100.71	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
2/8-10/10	LFP	107.56	--	8.07	0.00	99.49	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
08/12/10	LFP	107.56	--	8.78	0.00	98.78	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/3-4/10	LFP	107.56	--	8.04	0.00	99.52	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	107.56	--	8.16	0.00	99.40	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11		107.56	UNABLE TO LOCATE				--	--	--	--	--	--	--	--	--
8/23-24/11	LFP	107.56	--	9.00	0.00	98.56	<31	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
11/7-9/11	LFP	107.56	--	8.75	0.00	98.81	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	107.56	--	8.05	0.00	99.51	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.56	--	8.10	0.00	99.46	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.56	--	8.80	0.00	98.76	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	107.56	--	7.84	0.00	99.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.56	--	8.04	0.00	99.52	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.56	--	8.51	0.00	99.05	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	107.56	--	8.61	0.00	98.95	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-21/13	LFP	107.56	--	8.15	0.00	99.41	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
2/4-11/14	LFP	107.56	--	8.28	0.00	99.28	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-117															
8/22/95		106.57	--	7.45	0.00	99.12	<250	<750	<50	--	--	--	--	--	--
11/28/95		106.57	--	5.45	0.00	101.12	<250	<750	<50	--	--	--	--	--	<2.0
3/12/96		106.57	--	6.32	0.00	100.25	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		106.57	--	7.18	0.00	99.39	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		106.57	--	7.42	0.00	99.15	<250	<750	<50	--	--	--	--	--	7.1
2/12/97		106.57	--	5.93	0.00	100.64	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		106.57	--	5.78	0.00	100.79	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		106.57	--	7.58	0.00	98.99	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		106.57	--	6.21	0.00	100.36	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		106.57	--	6.21	0.00	100.36	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		106.57	--	6.44	0.00	100.13	<250	<750	<50	--	--	--	--	--	2.68
8/20/98		106.57	--	7.90	0.00	98.67	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		106.57	--	7.18	0.00	99.39	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		106.57	--	5.51	0.00	101.06	<250	<500	<80	--	--	--	--	--	<1.0
5/25/99		106.57	--	7.00	0.00	99.57	<250	--	<80	--	--	--	--	--	--
8/17/99		106.57	--	7.56	0.00	99.01	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		106.57	--	5.11	0.00	101.46	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		106.57	--	5.65	0.00	100.92	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		106.57	--	6.25	0.00	100.32	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		106.57	--	7.70	0.00	98.87	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		106.57	--	7.11	0.00	99.46	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		106.57	--	6.78	0.00	99.79	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		106.57	--	8.90	0.00	97.67	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		106.57	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		106.57	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		106.57	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		106.57	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		106.57	UNABLE TO LOCATE - POSSIBLY PAVED OVER						--	--	--	--	--	--	--
12/30/03		106.57	--	5.46	0.00	101.11	<50	<80	<100	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		106.57	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		106.57	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/6/04		106.57	--	7.07	0.00	99.50	<79	<98	<50	--	--	--	--	--	--
10/21/05		106.57	--	7.33	0.00	99.24	<81	<100	<48	--	--	--	--	--	--
9/5/07		106.57	--	7.92	0.00	98.65	<82	<100	<50	--	--	--	--	--	0.22
5/27-28/08	LFP	106.57	--	7.42	0.00	99.15	<80	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.056
8/27-29/08	LFP	106.57	--	7.38	0.00	99.19	<82	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-117 (cont)															
11/17-19/08	LFP	106.57	--	5.90	0.00	100.67	55	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	106.57	--	7.06	0.00	99.51	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.095
5/4-6/09	LFP	106.57	--	6.51	0.00	100.06	38	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	106.57	--	7.82	0.00	98.75	40	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.073
11/18-20/09	LFP	106.57	--	3.85	0.00	102.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/8-10/10	LFP	106.57	--	6.43	0.00	100.14	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	106.57	--	6.96	0.00	99.61	36	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/12/10	LFP	106.57	--	7.68	0.00	98.89	<29	210	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
11/3-4/10	LFP	106.57	--	5.97	0.00	100.60	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	106.57	--	6.5	0.00	100.07	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11	LFP	106.57	--	6.77	0.00	99.80	<30	150	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	106.57	--	7.85	0.00	98.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/7-9/11	LFP	106.57	--	7.55	0.00	99.02	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	106.57	--	6.20	0.00	100.37	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	106.57	--	6.00	0.00	100.57	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	106.57	--	7.66	0.00	98.91	<32	<75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	106.57	--	5.60	0.00	100.97	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	106.57	--	6.29	0.00	100.28	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	106.57	--	7.18	0.00	99.39	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	106.57	--	8.11	0.00	98.46	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-21/13	LFP	106.57	--	5.99	0.00	100.58	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
2/4-11/14	LFP	106.57	--	6.85	0.00	99.72	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
MW-118															
8/22/95		106.72	--	7.87	0.00	98.85	470	<750	<50	--	--	--	--	--	--
11/28/95		106.72	--	5.76	0.00	100.96	<250	<750	<50	--	--	--	--	--	<2.0
3/12/96		106.72	--	6.67	0.00	100.05	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		106.72	--	7.51	0.00	99.21	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		106.72	--	7.78	0.00	98.94	<250	<750	50.1	--	--	--	--	--	<2.0
2/12/97		106.72	--	6.35	0.00	100.37	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		106.72	--	5.98	0.00	100.74	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		106.72	--	7.85	0.00	98.87	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		106.72	--	6.52	0.00	100.20	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		106.72	--	6.56	0.00	100.16	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		106.72	--	6.85	0.00	99.87	<250	<750	<50	--	--	--	--	--	2.84
8/20/98		106.72	--	7.26	0.00	99.46	<250	<750	<50	--	--	--	--	--	<1.0

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-118 (cont)															
11/19/98		106.72	--	7.70	0.00	99.02	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		106.72	--	5.81	0.00	100.91	<250	<750	<80	--	--	--	--	--	<1.0
5/25/99		106.72	--	7.39	0.00	99.33	<250	--	<80	--	--	--	--	--	--
8/17/99		106.72	--	7.95	0.00	98.77	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		106.72	--	5.53	0.00	101.19	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		106.72	--	5.99	0.00	100.73	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		106.72	--	7.08	0.00	99.64	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		106.72	--	8.07	0.00	98.65	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		106.72	--	7.53	0.00	99.19	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		106.72	--	7.17	0.00	99.55	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		106.72	--	6.81	0.00	99.91	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
4/18/03		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/11/03		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
10/31/03		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
12/30/03		106.72	--	5.71	0.00	101.01	<50	<400	<500	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/20/04		106.72	--	8.14	0.00	98.58	<250	<500	<50	<0.500	<0.500	<0.500	<1.00	--	--
10/7/04		106.72	--	7.55	0.00	99.17	<76	<96	<50	--	--	--	--	--	--
10/7/04(D)		106.72	--	7.55	0.00	99.17	<80	160	<50	--	--	--	--	--	--
10/20/05		106.72	--	7.78	0.00	98.94	<83	<100	<48	--	--	--	--	--	--
9/5/07		106.72	--	8.20	0.00	98.52	**980**	**710**	<50	--	--	--	--	--	0.13
5/27-28/08		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	106.72	--	7.64	0.00	99.08	260	230	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	106.72	--	6.20	0.00	100.52	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	106.72	--	7.29	0.00	99.43	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.068
5/4-6/09	LFP	106.72	--	6.70	0.00	100.02	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	106.72	--	8.04	0.00	98.68	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.23
11/18-20/09	LFP	106.72	--	4.45	0.00	102.27	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/8-10/10	LFP	106.72	--	6.65	0.00	100.07	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	106.72	--	7.21	0.00	99.51	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/12/10	LFP	106.72	--	7.90	0.00	98.82	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
11/3-4/10	LFP	106.72	--	6.39	0.00	100.33	<29	160	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	106.72	--	6.77	0.00	99.95	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11		106.72	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/23-24/11	LFP	106.72	--	8.15	0.00	98.57	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-118 (cont)															
11/7-9/11	LFP	106.72	--	7.80	0.00	98.92	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	106.72	--	6.50	0.00	100.22	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	106.72	--	5.85	0.00	100.87	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	106.72	--	7.87	0.00	98.85	97	230	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.042
11/26-28/12	LFP	106.72	--	5.84	0.00	100.88	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	106.72	--	6.57	0.00	100.15	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	106.72	--	7.47	0.00	99.25	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	106.72	--	7.28	0.00	99.44	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-21/13	LFP	106.72	--	6.57	0.00	100.15	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
2/4-11/14	LFP	106.72	--	7.02	0.00	99.70	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
MW-119															
8/22/95		108.35	--	9.22	0.00	99.13	<250	<750	<50	--	--	--	--	--	--
11/28/95		108.35	--	7.54	0.00	100.81	<250	<750	100	--	--	--	--	--	<2.0
3/12/96		108.35	--	8.21	0.00	100.14	<250	<750	240	--	--	--	--	--	2.2
6/26/96		108.35	--	8.91	0.00	99.44	<250	<750	174	--	--	--	--	--	<2.0
10/9/96		108.35	--	9.14	0.00	99.21	<250	<750	78	--	--	--	--	--	2.16
2/12/97		108.35	--	7.84	0.00	100.51	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		108.35	--	7.67	0.00	100.68	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		108.35	--	9.15	0.00	99.20	<250	<750	53.6	--	--	--	--	--	<2.0
11/11/97		108.35	--	8.02	0.00	100.33	264	<750	<50	--	--	--	--	--	<2.0
2/11/98		108.35	--	8.02	0.00	100.33	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		108.35	--	8.20	0.00	100.15	<250	<750	102	--	--	--	--	--	3.33
8/20/98		108.35	--	10.40	0.00	97.95	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		108.35	--	8.98	0.00	99.37	<250	<750	78.5	--	--	--	--	--	1.82
3/11/99		108.35	--	7.61	0.00	100.74	<250	<750	<80	--	--	--	--	--	<1.0
5/25/99		108.35	--	8.77	0.00	99.58	<250	--	<80	--	--	--	--	--	--
8/17/99		108.35	--	9.29	0.00	99.06	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		108.35	--	7.25	0.00	101.10	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		108.35	--	7.63	0.00	100.72	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		108.35	--	8.28	0.00	100.07	<250	<500	413	--	--	--	--	--	2.64
9/26/00		108.35	--	9.44	0.00	98.91	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		108.35	--	8.86	0.00	99.49	<250	<500	--	--	--	--	--	--	1.79
2/28/01		108.35	--	8.56	0.00	99.79	<250	<500	227	--	--	--	--	--	2.64
5/2/01		108.35	--	8.10	0.00	100.25	<250	<500	104	--	--	--	--	--	1.56
10/30/02		108.35	--	9.76	0.00	98.59	<250	<500	<80	<0.500	<0.500	<0.500	<1.00	--	4.2
1/23/03		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-119 (cont)															
7/11/03		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		108.35	--	8.62	0.00	99.73	<250	<500	<50	<0.500	<0.500	<0.500	<1.00	--	1.31[3]
12/30/03		108.35	--	7.40	0.00	100.95	<50	<77	<96	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		108.35	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/7/04		108.35	--	8.85	0.00	99.50	<79	<98	<50	--	--	--	--	--	--
10/20/05		108.35	--	9.08	0.00	99.27	<80	<100	<48	--	--	--	--	--	--
9/5/07		108.35	--	9.53	0.00	98.82	<800	<1,000	<50	--	--	--	--	--	0.57
5/27-28/08		108.35	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	108.35	--	9.05	0.00	99.30	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.52
11/17-19/08	LFP	108.35	--	7.65	0.00	100.70	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.29
2/16-18/09	LFP	108.35	--	8.70	0.00	99.65	45	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.44
5/4-6/09	LFP	108.35	--	8.06	0.00	100.29	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.74
8/19-21/09	LFP	108.35	--	9.45	0.00	98.90	36	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.25
11/18-20/09	LFP	108.35	--	6.41	0.00	101.94	32	<68	150	<0.5	<0.5	<0.5	<0.5	<0.5	1
2/8-10/10	LFP	108.35	--	8.11	0.00	100.24	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.33
5/12-13/10	LFP	108.35	--	8.56	0.00	99.79	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.69
08/12/10	LFP	108.35	--	9.22	0.00	99.13	<30	70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.36
11/3-4/10	LFP	108.35	--	7.52	0.00	100.83	38	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	1.3
2/3-4/11	LFP	108.35	--	8.22	0.00	100.13	30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.30
05/24/11	LFP	108.35	--	8.37	0.00	99.98	<30	210	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.49
8/23-24/11	LFP	108.35	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
11/7-9/11	LFP	108.35	--	9.10	0.00	99.25	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.34
2/6-8/12	LFP	108.35	--	7.90	0.00	100.45	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	108.35	--	8.00	0.00	100.35	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.26
8/1-3/12	LFP	108.35	--	9.23	0.00	99.12	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.27
11/26-28/12	LFP	108.35	--	7.43	0.00	100.92	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
02/4-6/13	LFP	108.35	--	7.99	0.00	100.36	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.099
05/6-8/13	LFP	108.35	--	8.76	0.00	99.59	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
9/9-13/13	LFP	108.35	--	8.51	0.00	99.84	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.26
11/18-21/13	LFP	108.35	--	7.67	0.00	100.68	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.80
2/4-11/14	LFP	108.35	--	8.47	0.00	99.88	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.16
MW-120															
11/7-9/11	LFP	107.11	--	8.00	0.00	99.11	220	160	740	<0.5	<0.5	<0.5	<0.5	<0.5	1.8
2/6-8/12	LFP	107.11	--	6.80	0.00	100.31	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
5/2-4/12	LFP	107.11	--	6.20	0.00	100.91	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-120 (cont)															
8/1-3/12	LFP	107.11	--	8.11	0.00	99.00	59	75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.29
11/26-28/12	LFP	107.11	--	6.21	0.00	100.90	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.11	--	6.84	0.00	100.27	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.11	--	7.64	0.00	99.47	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	107.11	--	7.36	0.00	99.75	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
11/18-21/13	LFP	107.11	--	6.61	0.00	100.50	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.088
2/4-11/14	LFP	107.11	--	7.32	0.00	99.79	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
B-1															
2/14/91		107.74	--	--	0.00	--	<250	--	**5,100**	--	--	--	--	--	--
2/14/92		107.74	--	6.90	0.00	100.84	--	--	--	--	--	--	--	--	--
2/18/92		107.74	--	6.72	0.00	101.02	--	--	--	--	--	--	--	--	--
3/13/92		107.74	--	6.93	0.00	100.81	--	--	<50	--	--	--	--	--	--
4/21/92		107.74	--	6.66	0.00	101.08	--	--	--	--	--	--	--	--	--
8/22/95		107.74	--	8.03	0.00	99.71	<250	<750	<50	--	--	--	--	--	--
11/28/95		107.74	--	6.13	0.00	101.61	<250	<750	<50	--	--	--	--	--	<2
3/11/96		107.74	--	6.99	0.00	100.75	<250	<750	<50	--	--	--	--	--	7.5
6/26/96		107.74	--	7.73	0.00	100.01	<250	<750	<50	--	--	--	--	--	<2
10/9/96		107.74	--	8.05	0.00	99.69	<250	<750	<50	--	--	--	--	--	<2
2/12/97		107.74	--	6.46	0.00	101.28	<250	<750	<50	--	--	--	--	--	<2
4/22/97		107.74	--	6.25	0.00	101.49	<250	<750	<50	--	--	--	--	--	<2
8/5/97		107.74	--	8.20	0.00	99.54	<250	<750	<50	--	--	--	--	--	<2
11/11/97		107.74	--	6.84	0.00	100.90	300	<750	<50	--	--	--	--	--	<2
2/11/98		107.74	--	6.70	0.00	101.04	<250	<750	<50	--	--	--	--	--	<2
5/28/98		107.74	--	6.85	0.00	100.89	<250	<750	<50	--	--	--	--	--	<1
8/20/98		107.74	--	9.42	0.00	98.32	<250	<750	<50	--	--	--	--	--	<1
11/19/98		107.74	--	7.43	0.00	100.31	<250	<750	<50	--	--	--	--	--	<1
3/11/99		107.74	--	6.34	0.00	101.40	<250	<750	<80	--	--	--	--	--	<1
5/25/99		107.74	--	7.60	0.00	100.14	<1,450	--	<80	--	--	--	--	--	--
8/17/99		107.74	--	8.28	0.00	99.46	<250	<500	<80	--	--	--	--	--	<1
11/19/99		107.74	--	5.90	0.00	101.84	<250	--	<80	--	--	--	--	--	<1
3/9/00		107.74	--	6.38	0.00	101.36	<250	<500	<80	--	--	--	--	--	<1
6/12/00		107.74	--	6.26	0.00	101.48	<250	<500	<80	--	--	--	--	--	<1
9/26/00		107.74	--	8.51	0.00	99.23	<250	<500	--	--	--	--	--	--	<1
12/13/00		107.74	--	7.69	0.00	100.05	<250	<500	--	--	--	--	--	--	<1
2/28/01		107.74	--	7.37	0.00	100.37	<250	<500	<80	--	--	--	--	--	<1
5/2/01		107.74	--	6.69	0.00	101.05	<250	<500	109	--	--	--	--	--	<1

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
B-1 (cont)															
10/30/02		107.74	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
1/23/03		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		107.74	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
12/30/03		107.74	--	6.11	0.00	101.63	<50	<78	<98	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		107.74	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/6/04		107.74	--	8.87	0.00	98.87	81	100	<50	--	--	--	--	--	--
10/24/05		107.74	--	7.96	0.00	99.78	<81	<100	<48	--	--	--	--	--	--
9/5/07		107.74	--	8.60	0.00	99.14	<80	<100	<50	--	--	--	--	--	0.13
5/27-28/08	LFP	107.74	--	7.85	0.00	99.89	<75	<94	<50	<0.5	0.6	<0.5	<0.5	<0.5	<0.050
8/27-29/08	LFP	107.74	--	8.00	0.00	99.74	<82	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	107.74	--	6.39	0.00	101.35	83	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	107.74	--	7.55	0.00	100.19	300	**2,000**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.098
5/4-6/09	LFP	107.74	--	6.47	0.00	101.27	39	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	107.74	--	8.54	0.00	99.20	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	107.74	--	5.35	0.00	102.39	60	<69	66	<0.5	<0.5	<0.5	<0.5	<0.5	0.22
2/8-10/10	LFP	107.74	--	6.89	0.00	100.85	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	107.74	--	7.34	0.00	100.40	70	82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/11/10	LFP	107.74	--	8.16	0.00	99.58	<30	83	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
11/3-4/10	LFP	107.74	--	6.02	0.00	101.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	107.74	--	7.03	0.00	100.71	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11	LFP	107.74	--	7.10	0.00	100.64	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	107.74	--	8.46	0.00	99.28	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
11/7-9/11	LFP	107.74	--	8.10	0.00	99.64	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	107.74	--	6.75	0.00	100.99	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
5/2-4/12	LFP	107.74	--	6.45	0.00	101.29	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	107.74	--	8.23	0.00	99.51	<30	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	107.74	--	6.29	0.00	101.45	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	107.74	--	6.81	0.00	100.93	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	107.74	--	8.66	0.00	99.08	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	107.74	--	7.18	0.00	100.56	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-22/13	LFP	107.74	--	6.64	0.00	101.10	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
2/4-11/14	LFP	107.74	--	7.25	0.00	100.49	<29/<29	<68/<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
B-2															
2/14/91		108.99	--	--	0.00	--	<250	--	180	--	--	--	--	--	--
2/14/92		108.99	--	8.08	0.00	100.91	--	--	--	--	--	--	--	--	--
2/18/92		108.99	--	7.97	0.00	101.02	--	--	--	--	--	--	--	--	--
3/9/92		108.99	--	7.88	0.00	101.11	--	--	--	--	--	--	--	--	--
3/13/92		108.99	--	8.12	0.00	100.87	--	--	--	--	--	--	--	--	--
4/21/92		108.99	--	7.82	0.00	101.17	--	--	--	--	--	--	--	--	--
8/22/95		108.99	--	9.30	0.00	99.69	<250	<750	<50	--	--	--	--	--	--
11/27/95		108.99	--	7.33	0.00	101.66	<250	<750	<50	--	--	--	--	--	<2
3/12/96		108.99	--	8.20	0.00	100.79	<250	<750	<50	--	--	--	--	--	<2
6/27/96		108.99	--	8.95	0.00	100.04	<250	<750	<50	--	--	--	--	--	<2
10/10/96		108.99	--	9.28	0.00	99.71	<250	<750	<50	--	--	--	--	--	<2
2/12/97		108.99	--	7.73	0.00	101.26	<250	<750	<50	--	--	--	--	--	<2
4/22/97		108.99	--	7.41	0.00	101.58	<250	<750	<50	--	--	--	--	--	2
8/5/97		108.99	--	9.40	0.00	99.59	<250	<750	<50	--	--	--	--	--	<2
11/11/97		108.99	--	8.00	0.00	100.99	<250	<750	<50	--	--	--	--	--	<2
2/11/98		108.99	--	7.90	0.00	101.09	<250	<750	<50	--	--	--	--	--	<2
5/28/98		108.99	--	8.03	0.00	100.96	<250	<750	<50	--	--	--	--	--	<1
8/20/98		108.99	--	10.64	0.00	98.35	<250	<750	<50	--	--	--	--	--	<1
11/19/98		108.99	--	8.67	0.00	100.32	<250	<750	<50	--	--	--	--	--	<1
3/11/99		108.99	--	7.56	0.00	101.43	<250	<500	<80	--	--	--	--	--	<1
5/25/99		108.99	--	8.82	0.00	100.17	<250	<1,600	<80	--	--	--	--	--	--
8/17/99		108.99	--	9.51	0.00	99.48	<250	<500	<80	--	--	--	--	--	<1
11/19/99		108.99	--	7.08	0.00	101.91	<250	<500	<80	--	--	--	--	--	<1
3/9/00		108.99	--	7.59	0.00	101.40	<250	<500	<80	--	--	--	--	--	<1
6/12/00		108.99	--	8.00	0.00	100.99	<250	<500	<80	--	--	--	--	--	<1
9/26/00		108.99	--	9.74	0.00	99.25	<250	<500	--	--	--	--	--	--	<1
12/13/00		108.99	--	8.91	0.00	100.08	<250	<500	--	--	--	--	--	--	<1
2/28/01		108.99	--	8.59	0.00	100.40	<250	<500	<80	--	--	--	--	--	<1
5/2/01		108.99	--	7.89	0.00	101.10	<250	<500	<80	--	--	--	--	--	<1
10/30/02		108.99	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
1/23/03		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		108.99	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
12/30/03		108.99	--	7.36	0.00	101.63	<50	--	--	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		108.99	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
B-2 (cont)															
10/6/04		108.99	--	7.65	0.00	101.34	<79	<99	<50	--	--	--	--	--	--
7/18/05		108.99	--	9.20	0.00	99.79	<77	<96	<48	--	--	--	--	--	--
10/21/05		108.99	--	9.17	0.00	99.82	<82	<100	<48	--	--	--	--	--	--
9/5/07		108.99	--	9.83	0.00	99.16	<81	<100	<50	--	--	--	--	--	0.1
5/27-28/08		108.99	UNABLE TO LOCATE				--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	108.99	--	9.28	0.00	99.71	<80	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	108.99	--	7.57	0.00	101.42	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	108.99	--	8.77	0.00	100.22	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.070
5/4-6/09	LFP	108.99	--	7.69	0.00	101.30	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	108.99	--	9.75	0.00	99.24	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	108.99	--	6.46	0.00	102.53	94	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.15
2/8-10/10	LFP	108.99	--	8.10	0.00	100.89	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
5/12-13/10	LFP	108.99	--	8.55	0.00	100.44	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
08/11/10	LFP	108.99	--	9.38	0.00	99.61	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
11/3-4/10	LFP	108.99	--	7.20	0.00	101.79	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
2/3-4/11	LFP	108.99	--	8.25	0.00	100.74	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
05/24/11	LFP	108.99	--	8.33	0.00	100.66	<30	140	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.052
8/23-24/11	LFP	108.99	--	9.70	0.00	99.29	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.26
11/7-9/11	LFP	108.99	--	9.30	0.00	99.69	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
2/6-8/12	LFP	108.99	--	7.95	0.00	101.04	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.10
5/2-4/12	LFP	108.99	--	7.40	0.00	101.59	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.080
8/1-3/12	LFP	108.99	--	8.20	0.00	100.79	<31	<72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.034
11/26-28/12	LFP	108.99	--	7.47	0.00	101.52	<37	<86	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.047
02/4-6/13	LFP	108.99	--	8.04	0.00	100.95	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
05/6-8/13	LFP	108.99	--	8.89	0.00	100.10	<28	<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.073
9/9-13/13	LFP	108.99	--	8.41	0.00	100.58	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
11/18-22/13	LFP	108.99	--	7.77	0.00	101.22	<29/<29	<67/<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
2/4-11/14	LFP	108.99	--	8.47	0.00	100.52	<28/<28	<66/<66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.085
B-3															
2/14/91		108.46	--	--	0.00	--	<250	--	**98,000**	--	--	--	--	--	--
2/14/92		108.46	--	7.82	0.00	100.64	--	--	--	--	--	--	--	--	--
2/18/92		108.46	--	7.82	0.00	100.64	--	--	--	--	--	--	--	--	--
3/9/92		108.46	--	7.55	0.00	100.91	--	--	--	--	--	--	--	--	--
3/13/92		108.46	--	7.82	0.00	100.64	**31,000**	--	**28,000**	--	--	--	--	--	--
4/21/92		108.46	--	7.50	0.00	100.96	--	--	--	--	--	--	--	--	--
3/3/94		108.46	--	--	0.00	--	**3,940**	<750	**43,000**	--	--	--	--	--	--
8/23/95		108.46	--	8.93	0.00	99.53	**2,600**	<750	**46,000**	--	--	--	--	--	--
11/28/95		108.46	--	7.12	0.00	101.34	**1,500**	<750	**63,000**	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
B-3 (cont)															
3/12/96		108.46	--	7.85	0.00	100.61	**900**	<750	**42,000**	--	--	--	--	--	--
6/27/96		108.46	--	8.67	0.00	99.79	**1,510**	**1,080**	**37,900**	--	--	--	--	--	--
10/10/96		108.46	--	8.97	0.00	99.49	**729**	<750	**16,200**	--	--	--	--	--	--
2/12/97		108.46	--	7.55	0.00	100.91	**4,060**	**986**	**35,200**	--	--	--	--	--	--
4/22/97		108.46	--	7.30	0.00	101.16	**3,980**	**767**	**31,900**	--	--	--	--	--	--
8/2/97		108.46	--	9.05	0.00	99.41	**3,370**	**1,270**	**20,400**	--	--	--	--	--	--
11/11/97		108.46	--	6.76	0.00	101.70	**3,230**	**777**	**28,400**	--	--	--	--	--	--
2/11/98		108.46	--	7.54	0.00	100.92	**3,240**	**1,460**	**28,400**	--	--	--	--	--	--
5/28/98		108.46	--	7.76	0.00	100.70	**3,360**	<750	**34,600**	--	--	--	--	**29.5**	--
8/20/98		108.46	--	10.30	0.00	98.16	**2,150**	<750	**32,900**	--	--	--	--	<1.89	--
11/19/98		108.46	--	8.39	0.00	100.07	**6,650**	<3,750	**23,800**	--	--	--	--	--	--
3/11/99		108.46	--	7.15	0.00	101.31	**2,920**	<5,000	**17,000**	--	--	--	--	--	--
5/25/99		108.46	--	8.50	0.00	99.96	**1,850**	--	**30,500**	--	--	--	--	--	--
8/17/99		108.46	--	9.15	0.00	99.31	**2,570**	**711**	**29,600**	--	--	--	--	--	--
11/19/99		108.46	--	6.76	0.00	101.70	**7,880**	--	**30,700**	--	--	--	--	--	--
3/9/00		108.46	--	7.24	0.00	101.22	<250	<500	**10,400**	--	--	--	--	--	--
6/13/00		108.46	--	8.15	0.00	100.31	<250	<500	**23,000**	--	--	--	--	--	--
9/26/00		108.46	--	9.35	0.00	99.11	<250	<500	--	--	--	--	--	--	--
12/13/00		108.46	--	8.58	0.00	99.88	<250	<500	**21,600**	--	--	--	--	--	--
2/28/01		108.46	--	8.28	0.00	100.18	<250	<500	**25,700**	--	--	--	--	--	--
5/2/01		108.46	--	7.79	0.00	100.67	<250	<500	**17,200**	--	--	--	--	--	--
10/30/02		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
1/23/03		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
4/18/03		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
7/11/03		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
10/31/03		108.46	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
12/30/03		108.46	--	7.04	0.00	101.42	**14,000**	**3,800**	<980	<5.0	1.9	130	61	--	**17.3**
5/3/04		108.46	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/20/04		108.46	--	9.31	0.00	99.15	**1,220**	<500	**13,200**	**12.5**	<10.0	874	204	--	**24.6**[4]
10/6/04		108.46	--	8.68	0.00	99.78	**1,200**	<500	**13,000**	--	--	--	--	--	--
1/27/05		108.46	--	7.70	0.00	100.76	**1,100**	<190	**6,200**	--	--	--	--	--	--
4/12/05		108.46	--	7.21	0.00	101.25	**1,200**	<100	**5,300**	--	--	--	--	--	--
7/18/05		108.46	--	8.83	0.00	99.63	**1,200**	<97	**6,400**	--	--	--	--	--	--
10/21/05		108.46	--	8.85	0.00	99.61	**2,400**	<510	**8,900**	--	--	--	--	--	--
9/4/07		108.46	--	9.41	0.00	99.05	**1,500**	<200	**10,000**	--	--	--	--	--	--
5/27-28/08	LFP	108.46	--	8.73	0.00	99.73	**2,400**	<540	**3,700**	2	2	98	3	<0.5	**20.2**

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
B-3 (cont)															
8/27-29/08	LFP	108.46	--	8.85	0.00	99.61	**2,400**	<98	**10,000**	**5**	2	230	17	<0.5	**21.5**
11/17-19/08	LFP	108.46	--	7.13	0.00	101.33	**1,700**	<690	**7,100**	<0.5	<0.5	57	2	<0.5	**20**
2/16-18/09	LFP	108.46	--	8.40	0.00	100.06	**1,900**	<340	**8,800**	**180**	130	130	21	<0.5	**19.5**
5/4-6/09	LFP	108.46	--	7.65	0.00	100.81	**2,400**	<340	**5,800**	**68**	15	120	7	<0.5	13.1
8/19-21/09	LFP	108.46	--	9.33	0.00	99.13	**2,900**	<360	**5,900**	**39**	10	170	16	<0.5	**19**
11/18-20/09	LFP	108.46	--	6.35	0.00	102.11	**2,200**	<340	**2,500**	1	<0.5	12	1	<0.5	**16.5**
2/8-10/10	LFP	108.46	--	7.73	0.00	100.73	**1,700**	140	**6,200**	2	<0.5	25	1	<0.5	9.9
5/12-13/10	LFP	108.46	--	8.18	0.00	100.28	**1,200**	<68	**8,200**	2	<0.5	47	2	<0.5	10.3
08/11/10	LFP	108.46	--	9.00	0.00	99.46	**2,700**	<340	**5,900**	**7**	1.0	270	20	<0.5	**19.3**
11/3-4/10	LFP	108.46	--	6.96	0.00	101.50	**2,500**	<350	**3,100**	0.60	<0.5	24	1	<0.5	13.3
2/3-4/11	LFP	108.46	--	6.70	0.00	101.76	**1,400**	<340	**4,900**	0.80	<0.5	53	2	<0.5	10.2
05/24/11	LFP	108.46	--	7.96	0.00	100.50	**1,200**	300	**1,800**	1	<0.5	76	3	<0.5	14
8/23-24/11	LFP	108.46	--	9.24	0.00	99.22	**960**	<72	**3,700**	**8**	2	160	8	<0.5	11.7
11/7-9/11	LFP	108.46	--	8.95	0.00	99.51	**1,500**	460	**5,800**	**7**	2	180	6	<0.5	12.3
2/6-8/12	LFP	108.46	--	7.40	0.00	101.06	<31	<71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	4.4
5/2-4/12	LFP	108.46	--	7.50	0.00	100.96	53	<72	**1,300**	<0.5	<0.5	19	<0.5	0.7	3.9
8/1-3/12	LFP	108.46	--	8.24	0.00	100.22	460	110	600	0.6	<0.5	1	<0.5	<0.5	8.0
11/26-28/12	LFP	108.46	--	6.98	0.00	101.48	73	<68	500	<0.5	<0.5	0.8	<0.5	<0.5	7.4
2/4-6/13	LFP	108.46	--	6.33	0.00	102.13	45	<66	120	<0.5	<0.5	<0.5	<0.5	<0.5	5.6
05/6-8/13	LFP	108.46	--	8.50	0.00	99.96	150	<67	**2,600**	<0.5	<0.5	73	3	<0.5	8.9
9/9-13/13	LFP	108.46	--	8.09	0.00	100.37	160/**2,700**	<66/72	**1,700**	0.6	<0.5	37	0.9	<0.5	**16.0**
11/18-22/13	LFP	108.46	--	6.45	0.00	102.01	42/**1,600**	<67/180	190	<0.5	<0.5	<0.5	<0.5	<0.5	11.2
2/4-11/14	LFP	108.46	--	8.10	0.00	100.36	36/**730**	<67/<67	480	<0.5	<0.5	2	<0.5	<0.5	7.4
B-4															
2/14/91		107.68	--	--	0.00	--	<250	--	**33,000**	--	--	--	--	--	--
2/14/92		107.68	--	6.82	0.00	100.86	--	--	--	--	--	--	--	--	--
2/18/92		107.68	--	5.94	0.00	101.74	--	--	--	--	--	--	--	--	--
3/9/92		107.68	--	6.62	0.00	101.06	--	--	--	--	--	--	--	--	--
3/13/92		107.68	--	6.88	0.00	100.80	--	--	**21,000**	--	--	--	--	--	--
4/21/92		107.68	--	6.57	0.00	101.11	--	--	--	--	--	--	--	--	--
3/3/94		107.68	--	--	0.00	--	**1,040**	**1,250**	**15,800**	--	--	--	--	--	--
8/22/95		107.68	--	7.92	0.00	99.76	**840**	**820**	**22,000**	--	--	--	--	--	--
11/28/95		107.68	--	6.11	0.00	101.57	**1,900**	**990**	**22,000**	--	--	--	--	--	3.1
3/12/96		107.68	--	6.85	0.00	100.83	**3,200**	**2,500**	**11,000**	--	--	--	--	--	4.7
6/26/96		107.68	--	7.58	0.00	100.10	**757**	<750	**16,100**	--	--	--	--	--	2.83
10/9/96		107.68	--	7.90	0.00	99.78	**543**	<750	**10,200**	--	--	--	--	--	4.13

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TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
B-4 (cont)															
2/12/97		107.68	--	6.01	0.00	101.67	**4,710**	**4,830**	**12,200**	--	--	--	--	--	2.82
4/22/97		107.68	--	10.10	0.00	97.58	**5,840**	**1,191**	**15,500**	--	--	--	--	--	4.18
8/5/97		107.68	--	8.37	0.00	99.31	**2,560**	**3,160**	**15,800**	--	--	--	--	--	6.26
11/11/97		107.68	--	7.67	0.00	100.01	**2,080**	**1,040**	**31,100**	--	--	--	--	--	4.75
2/11/98		107.68	--	6.45	0.00	101.23	**1,340**	**1,630**	**3,750**	--	--	--	--	--	<2.0
5/28/98		107.68	--	7.25	0.00	100.43	**3,180**	**1,250**	**2,510**	--	--	--	--	--	4.69
8/20/98		107.68	--	9.12	0.00	98.56	**1,460**	**1,240**	**7,240**	--	--	--	--	--	1.17
11/19/98		107.68	--	7.22	0.00	100.46	**2,470**	**3,750**	**1,880**	--	--	--	--	--	<1.0
3/11/99		107.68	--	5.41	0.00	102.27	**1,130**	**585**	**11,900**	--	--	--	--	--	3.54
5/25/99		107.68	--	7.45	0.00	100.23	<1,450	--	**5,380**	--	--	--	--	--	--
8/17/99		107.68	--	8.06	0.00	99.62	**670**	**868**	**2,700**	--	--	--	--	--	2.3
11/19/99		107.68	--	5.75	0.00	101.93	**1,700**	--	**11,400**	--	--	--	--	--	**17.5**
3/9/00		107.68	--	6.34	0.00	101.34	<1,250	**2,830**	**105,000**	--	--	--	--	--	10.9
6/13/00		107.68	--	6.80	0.00	100.88	<250	**943**	**8,810**	--	--	--	--	--	6.92
9/26/00		107.68	--	8.31	0.00	99.37	<250	0.565	--	--	--	--	--	--	5
12/13/00		107.68	--	7.54	0.00	100.14	**1,250**	<500	--	--	--	--	--	--	5.98
2/28/01		107.68	--	7.24	0.00	100.44	<250	<500	**12,100**	--	--	--	--	--	5.34
5/2/01		107.68	--	6.59	0.00	101.09	**15,700**	**757**	**12,300**	--	--	--	--	--	5.75
10/30/02		107.68	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
1/23/03		107.68	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
4/18/03		107.68	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
7/11/03		107.68	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
10/31/03		107.68	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
12/30/03		107.68	--	6.07	0.00	101.61	**17,000**	**2,000**	**1,700**	<10	<5.0	310	370	--	7.5
5/3/04		107.68	UNABLE TO LOCATE - PAVED OVER					--	--	--	--	--	--	--	--
7/20/04		107.68	--	8.23	0.00	99.45	<250	<500	**4,660**	**15.1**	1.3	42.3	10.1	--	--
10/6/04		107.68	--	7.45	0.00	100.23	390	180	**2,300**	--	--	--	--	--	--
1/27/05		107.68	--	6.72	0.00	100.96	200	<195	**2,800**	--	--	--	--	--	--
4/12/05		107.68	--	6.62	0.00	101.06	340	<100	**2,600**	--	--	--	--	--	--
7/18/05		107.68	--	6.62	0.00	101.06	**560**	<1,100	**1,600**	--	--	--	--	--	--
10/21/05		107.68	--	7.81	0.00	99.87	190	260	**1,800**	--	--	--	--	--	--
9/4/07		107.68	--	8.40	0.00	99.28	310	<100	**3,200**	--	--	--	--	--	1.8
9/4/07 (D)		107.68	--	8.40	0.00	99.28	340	140	**3,300**	--	--	--	--	--	1.7
5/27-28/08	LFP	107.68	--	7.52	0.00	100.16	310	330	**1,800**	3	3	25	7	<0.5	2.9
8/27-29/08	LFP	107.68	--	7.88	0.00	99.80	330	**1,100**	**3,100**	1	0.9	22	4	<0.5	1.6
11/17-19/08	LFP	107.68	--	6.26	0.00	101.42	**700**	**2,600**	**3,500**	1	0.7	27	3	<0.5	2.3

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
B-4 (cont)															
2/16-18/09	LFP	107.68	--	7.40	0.00	100.28	440	480	**2,000**	0.6	<0.5	11	2	<0.5	2
5/4-6/09	LFP	107.68	--	6.46	0.00	101.22	**590**	**1,300**	**2,100**	<0.5	<0.5	20	2	<0.5	1.6
8/19-21/09	LFP	107.68	--	8.35	0.00	99.33	**590**	**810**	**910**	1	<0.5	5	1	<0.5	1.2
11/18-20/09	LFP	107.68	--	5.30	0.00	102.38	490	450	**5,700**	3	0.7	36	3	<0.5	5.2
2/8-10/10	LFP	107.68	--	6.78	0.00	100.90	400	**1,400**	350	<0.5	<0.5	4	<0.5	<0.5	0.46
5/12-13/10	LFP	107.68	--	7.23	0.00	100.45	**940**	**7,100**	360	<0.5	<0.5	1	<0.5	<0.5	0.15
08/11/10	LFP	107.68	--	8.00	0.00	99.68	**600**	**2,000**	170	<0.5	<0.5	1	<0.5	<0.5	0.26
11/3-4/10	LFP	107.68	--	6.19	0.00	101.49	400	**1,500**	530	<0.5	<0.5	4	0.7	<0.5	1
2/3-4/11	LFP	107.68	--	7.15	0.00	100.53	**1,400**	**4,700**	**2,200**	0.9	0.7	11	1	<0.5	2.9
05/24/11	LFP	107.68	--	7.22	0.00	100.46	300	**680**	**840**	<0.5	<0.5	0.8	<0.5	<0.5	1.2
8/23-24/11	LFP	107.68	--	8.50	0.00	99.18	230	<68	**1,400**	<0.5	<0.5	1	0.6	<0.5	1.4
11/7-9/11	LFP	107.68	--	8.15	0.00	99.53	120	360	**950**	<0.5	<0.5	1	0.5	<0.5	0.57
2/6-8/12	LFP	107.68	--	6.80	0.00	100.88	64	120	320	<0.5	<0.5	2	<0.5	<0.5	1.6
5/2-4/12	LFP	107.68	--	6.75	0.00	100.93	110	72	580	<0.5	<0.05	2	<0.5	<0.5	1.7
8/1-3/12	LFP	107.68	--	8.26	0.00	99.42	100	190	510	<0.5	<0.5	<0.5	<0.5	<0.5	0.83
11/26-28/12	LFP	107.68	--	6.34	0.00	101.34	320	210	**1,200**	<0.5	<0.5	8	0.7	<0.5	3.0
02/4-6/13	LFP	107.68	--	6.95	0.00	100.73	150	<69	**1,600**	<0.5	<0.5	4	<0.5	<0.5	2.5
05/6-8/13	LFP	107.68	--	7.53	0.00	100.15	140	<67	**2,400**	<0.5	<0.5	4	0.5	<0.5	2.4
9/9-13/13	LFP	107.68	--	7.30	0.00	100.38	130/250	<66/110	**1,200**	<0.5	<0.5	3	0.5	<0.5	1.6
11/18-22/13	LFP	107.68	--	6.76	0.00	100.92	120/150	<67/<67	**1,200**	<0.5	<0.5	3	<0.5	<0.5	1.9
2/4-11/14	LFP	107.68	--	7.36	0.00	100.32	140/170	<68/<68	**1,800**	<0.5	<0.5	3	<0.5	<0.5	2.4
MW-101															
2/14/92		99.51	--	6.94	--	92.57	**33,000**	--	**45,000**	--	--	--	--	--	--
2/18/92		99.51	--	6.88	--	92.63	--	--	--	--	--	--	--	--	--
3/9/92		99.51	--	6.76	--	92.75	--	--	--	--	--	--	--	--	--
3/13/92		99.51	--	7.02	--	92.49	--	--	--	--	--	--	--	--	--
4/21/92		99.51	--	7.73	--	91.78	--	--	--	--	--	--	--	--	--
3/3/94		99.51	--	--	--	--	**1,730**	<750	**73,000**	--	--	--	--	--	--
8/22/95		99.51	--	7.90	--	91.61	**1,300**	<750	**12,000**	--	--	--	--	--	--
11/28/95		99.51	--	6.12	--	93.39	**1,400**	<750	**49,000**	--	--	--	--	--	**24**
3/12/96		99.51	--	6.86	--	92.65	**760**	<750	**43,000**	--	--	--	--	--	9.3
6/26/96		99.51	--	7.59	--	91.92	**656**	<750	**22,000**	--	--	--	--	--	8.22
10/9/96		99.51	--	7.85	--	91.66	309	<750	**5,800**	--	--	--	--	--	4.24
2/12/97		99.51	--	6.55	--	92.96	**1,090**	<750	**33,900**	--	--	--	--	--	7.04
4/22/97		99.51	--	6.31	--	93.20	**1,870**	**977**	**21,500**	--	--	--	--	--	7.41

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-101 (cont)															
11/11/97		99.51	--	6.76	--	92.75	**952**	<750	**23,400**	--	--	--	--	--	11.3
2/11/98		99.51	--	6.78	--	92.73	**793**	<750	**28,400**	--	--	--	--	--	6.51
5/28/98		99.51	--	6.91	--	92.60	**798**	<750	**11,900**	--	--	--	--	--	4.71
8/20/98		99.51	--	8.30	--	91.21	414	<750	**4,400**	--	--	--	--	--	1.6
11/19/98		99.51	--	7.69	--	91.82	**714**	<750	**5,820**	--	--	--	--	--	1.7
3/11/99		99.51	--	6.17	--	93.34	**1,200**	<500	**38,500**	--	--	--	--	--	6.82
5/25/99		99.51	--	7.47	--	92.04	**1,450**	--	**18,000**	--	--	--	--	--	--
8/17/99		99.51	--	7.99	--	91.52	**810**	**750**	**2,940**	--	--	--	--	--	2.9
11/19/99		99.51	--	5.84	--	93.67	**1,010**	--	**16,300**	--	--	--	--	--	**15.4**
3/9/00		99.51	--	6.25	--	93.26	<250	<500	**15,800**	--	--	--	--	--	13
6/13/00		99.51	--	6.98	--	92.53	<250	<500	**4,870**	--	--	--	--	--	4.3
9/26/00		99.51	--	8.15	--	91.36	--	<250	<500	--	--	--	--	--	1.88
12/13/00		99.51	--	7.65	--	91.86	**988**	442	<500	--	--	--	--	--	1.13
2/28/01		99.51	--	7.25	--	92.26	<250	<500	**2,710**	--	--	--	--	--	2.45
5/2/01		99.51	--	9.55	--	89.96	<250	<500	**2,280**	--	--	--	--	--	2.6
10/30/02		99.54	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		99.54	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
4/18/03		99.54	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
7/11/03		99.54	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
10/31/03		99.54	UNABLE TO LOCATE - POSSIBLY PAVED OVER						--	--	--	--	--	--	--
12/30/03		99.54	--	6.04	0.00	93.50	**13,000**	**890**	<96	<5.0	0.6	260	290	--	**27.9**
5/3/04		99.54	UNABLE TO LOCATE - POSSIBLY PAVED OVER						--	--	--	--	--	--	--
7/20/04		99.54	--	8.18	0.00	91.36	<250	<500	**1,040**	3.01	<0.500	0.822	1.21	--	<1.0[4]
10/6/04		99.51	--	7.54	0.00	91.97	<81	<100	<260	--	--	--	--	--	--
1/27/05		99.51	--	6.78	0.00	92.73	190	<100	**2,900**	--	--	--	--	--	--
4/12/05		99.51	--	6.32	0.00	93.19	160	<100	**1,700**	--	--	--	--	--	--
7/18/05		99.51	--	7.78	0.00	91.73	93	<99	240	--	--	--	--	--	--
10/21/05		99.51	--	7.75	0.00	91.76	110	<100	470	--	--	--	--	--	--
9/5/07		99.51	--	8.22	0.00	91.29	110	140	200	--	--	--	--	--	1.2
5/27-28/08	LFP	99.51	--	7.71	0.00	91.80	<80	<99	410	<0.5	<0.5	0.5	<0.5	<0.5	1.2
8/27-29/08	LFP	99.51	--	7.75	0.00	91.76	<79	<99	450	<0.5	<0.5	<0.5	<0.5	<0.5	0.39
11/17-19/08	LFP	99.51	--	6.33	0.00	93.18	74	<68	520	<0.5	<0.5	1	<0.5	<0.5	1.1
2/16-18/09	LFP	99.51	--	7.43	0.00	92.08	68	<67	590	<0.5	<0.5	<0.5	<0.5	<0.5	0.96
5/4-6/09	LFP	99.51	--	6.93	0.00	92.58	66	<68	370	<0.5	<0.5	<0.5	<0.5	<0.5	0.39
8/19-21/09	LFP	99.51	--	8.16	0.00	91.35	65	<70	510	<0.5	<0.5	<0.5	<0.5	<0.5	0.22

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-101 (cont)															
11/18-20/09	LFP	99.51	--	4.97	0.00	94.54	42	<69	84	<0.5	<0.5	<0.5	<0.5	<0.5	1
2/8-10/10	LFP	99.51	--	6.82	0.00	92.69	130	190	**970**	<0.5	<0.5	1	<0.5	<0.5	2.1
5/12-13/10	LFP	99.51	--	7.32	0.00	92.19	64	<70	470	<0.5	<0.5	<0.5	<0.5	<0.5	0.65
08/12/10	LFP	99.51	--	7.96	0.00	91.55	52	<68	370	<0.5	<0.5	<0.5	<0.5	<0.5	0.24
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															
MW-102															
2/14/92		--	--	6.94	0.00	--	--	--	--	--	--	--	--	--	--
2/18/92		--	--	6.88	0.00	--	--	--	--	--	--	--	--	--	--
3/9/92		--	--	6.76	0.00	--	--	--	--	--	--	--	--	--	--
3/13/92		--	--	7.02	0.00	--	--	--	150	--	--	--	--	--	--
4/21/92		--	--	7.72	0.00	--	--	--	--	--	--	--	--	--	--
NOT PART OF MONITORING/SAMPLING PROGRAM															
MW-104															
2/14/92		100.45	--	8.86	0.00	91.59	--	--	--	--	--	--	--	--	--
02/1892		100.45	--	8.84	0.00	91.61	--	--	--	--	--	--	--	--	--
3/9/92		100.45	--	8.73	0.00	91.72	--	--	--	--	--	--	--	--	--
3/13/92		100.45	--	8.84	0.00	91.61	--	--	<50	--	--	--	--	--	--
4/21/92		100.45	--	8.72	0.00	91.73	--	--	--	--	--	--	--	--	--
8/22/95		100.45	--	9.30	0.00	91.15	<250	<750	<50	--	--	--	--	--	--
11/27/95		100.45	--	8.39	0.00	92.06	--	--	--	--	--	--	--	--	--
3/12/96		100.45	--	8.78	0.00	91.67	--	--	--	--	--	--	--	--	--
6/27/96		100.45	--	9.00	0.00	91.45	--	--	--	--	--	--	--	--	--
10/10/96		100.45	--	9.18	0.00	91.27	--	--	--	--	--	--	--	--	--
2/12/97		100.45	--	8.65	0.00	91.80	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		100.45	--	8.50	0.00	91.95	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		100.45	--	9.20	0.00	91.25	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		100.45	--	8.81	0.00	91.64	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		100.45	--	8.83	0.00	91.62	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		100.45	--	8.97	0.00	91.48	<250	<750	<50	--	--	--	--	--	9.54
8/20/98		100.45	--	9.51	0.00	90.94	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		100.45	--	9.82	0.00	90.63	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		100.45	--	8.48	0.00	91.97	<250	<500	<80	--	--	--	--	--	<1.0
5/25/99		100.45	--	8.96	0.00	91.49	<250	--	<80	--	--	--	--	--	--
8/17/99		100.45	--	9.24	0.00	91.21	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		100.45	--	8.40	0.00	92.05	<250	--	<80	--	--	--	--	--	1.0

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-104 (cont)															
3/9/00		100.45	--	8.49	0.00	91.96	<250	<50	<80	--	--	--	--	--	<1.0
6/13/00		100.45	--	8.89	0.00	91.56	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		100.45	--	9.32	0.00	91.13	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		100.45	--	9.09	0.00	91.36	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		100.45	--	8.89	0.00	91.56	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		100.45	--	8.79	0.00	91.66	<250	<500	103	--	--	--	--	--	<1.0
10/30/02		100.44	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		100.44	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		100.44	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		100.44	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		100.44	--	9.15	0.00	91.29	<250	<500	<50	<0.500	<0.500	<0.500	<1.00	--	<1.0[5]
12/30/03		100.44	--	8.39	0.00	92.05	<50	<77	<96	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		100.44	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		100.44	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/7/04		100.45	--	9.09	0.00	91.36	<83	<100	<50	--	--	--	--	--	--
10/20/05		100.45	--	9.19	0.00	91.26	<82	<100	<48	--	--	--	--	--	--
9/6/07		100.45	--	9.42	0.00	91.03	<79	<98	<50	--	--	--	--	--	0.087
5/27-28/08		100.45	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	100.45	--	9.23	0.00	91.22	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	100.46	--	8.75	0.00	91.71	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	100.46	--	9.01	0.00	91.45	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.1
5/4-6/09	LFP	100.46	--	8.88	0.00	91.58	38	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	100.46	--	9.32	0.00	91.14	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.057
11/18-20/09	LFP	100.46	--	8.08	0.00	92.38	<29	<68	98	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
2/8-10/10	LFP	100.46	--	8.76	0.00	91.70	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.053
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															
MW-105															
2/14/92		96.14	--	3.36	0.00	92.78	--	--	--	--	--	--	--	--	--
2/18/92		96.14	--	3.34	0.00	92.80	--	--	--	--	--	--	--	--	--
3/9/92		96.14	--	3.25	0.00	92.89	--	--	--	--	--	--	--	--	--
3/13/92		96.14	--	3.60	0.00	92.54	--	--	<50	--	--	--	--	--	--
4/21/92		96.14	--	3.40	0.00	92.74	--	--	--	--	--	--	--	--	--
8/22/95		96.14	--	5.08	0.00	91.06	<250	**900**	<50	--	--	--	--	--	--
11/28/95		96.14	--	2.53	0.00	93.61	--	--	--	--	--	--	--	--	--
3/12/96		96.14	--	3.37	0.00	92.77	--	--	--	--	--	--	--	--	--
6/26/96		96.14	--	4.74	0.00	91.40	--	--	--	--	--	--	--	--	--
10/9/96		96.14	--	4.93	0.00	91.21	--	--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-105 (cont)															
2/12/97		96.14	--	3.19	0.00	92.95	<250	<750	<50	--	--	--	--	--	2
4/22/97		96.14	--	3.08	0.00	93.06	<250	<750	<50	--	--	--	--	--	2
8/5/97		96.14	--	4.85	0.00	91.29	<250	<750	<50	--	--	--	--	--	2
11/11/97		96.14	--	3.11	0.00	93.03	<250	<750	<50	--	--	--	--	--	2
2/11/98		96.14	--	3.24	0.00	92.90	<250	<750	<50	--	--	--	--	--	2
5/28/98		96.14	--	3.91	0.00	92.23	<250	<750	<50	--	--	--	--	--	6.62
8/20/98		96.14	--	5.28	0.00	90.86	<250	<750	<50	--	--	--	--	--	<1.00
11/19/98		96.14	--	5.37	0.00	90.77	<250	<750	<50	--	--	--	--	--	<1.00
3/11/99		96.14	--	2.43	0.00	93.71	<250	<500	<80	--	--	--	--	--	<1.00
5/25/99		96.14	--	4.29	0.00	91.85	<250	--	<80	--	--	--	--	--	--
8/17/99		96.14	--	5.06	0.00	91.08	<250	<500	<80	--	--	--	--	--	<1.00
11/19/99		96.14	--	3.08	0.00	93.06	<250	--	<80	--	--	--	--	--	<1.00
3/9/00		96.14	--	2.75	0.00	93.39	<250	<500	<80	--	--	--	--	--	<1.00
6/13/00		96.14	--	4.45	0.00	91.69	<250	<500	<80	--	--	--	--	--	<1.00
9/26/00		96.14	--	5.20	0.00	90.94	<250	<500	--	--	--	--	--	--	<1.00
12/13/00		96.14	--	4.67	0.00	91.47	<250	<500	--	--	--	--	--	--	1.37
2/28/01		96.14	--	3.92	0.00	92.22	<250	<500	<80	--	--	--	--	--	<1.00
5/2/01		96.14	--	3.53	0.00	92.61	<250	<750	87	--	--	--	--	--	<1.00
10/30/02		96.15	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		96.15	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		96.15	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		96.15	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		96.15	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
12/31/03		96.15	--	2.45	0.00	93.70	<50	<400	<500	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		96.15	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		96.15	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/7/04		96.14	--	4.71	0.00	91.43	<160	<200	<50	--	--	--	--	--	--
10/20/05		96.14	--	5.16	0.00	90.98	<82	<100	<48	--	--	--	--	--	--
9/6/07		96.14	--	5.34	0.00	90.80	<100	<81	<50	--	--	--	--	--	0.47
5/27-28/08		96.14	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	96.14	--	5.16	0.00	90.98	<81	<100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	96.14	--	3.75	0.00	92.39	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	96.14	--	6.15	0.00	89.99	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.57
5/4-6/09	LFP	96.14	--	3.68	0.00	92.46	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	96.14	--	5.25	0.00	90.89	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.064
11/18-20/09	LFP	96.14	--	1.56	0.00	94.58	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.053
2/8-10/10	LFP	96.14	--	3.37	0.00	92.77	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.078
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-106															
2/14/92		99.71	--	8.18	0.00	91.53	--	--	--	--	--	--	--	--	--
2/18/92		99.71	--	8.20	0.00	91.51	--	--	--	--	--	--	--	--	--
3/9/92		99.71	--	8.04	0.00	91.67	--	--	--	--	--	--	--	--	--
3/13/92		99.71	--	8.18	0.00	91.53	--	--	<50	--	--	--	--	--	--
4/21/92		99.71	--	8.02	0.00	91.69	--	--	--	--	--	--	--	--	--
8/22/95		99.71	--	8.79	0.00	90.92	<250	<750	<50	--	--	--	--	--	--
11/28/95		99.71	--	7.63	0.00	92.08	--	--	--	--	--	--	--	--	--
3/12/96		99.71	--	8.04	0.00	91.67	<250	<750	<50	--	--	--	--	--	<2.0
6/26/96		99.71	--	8.61	0.00	91.10	<250	<750	<50	--	--	--	--	--	<2.0
10/9/96		99.71	--	8.65	0.00	91.06	<250	<750	<50	--	--	--	--	--	2.16
2/12/97		99.71	--	7.95	0.00	91.76	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		99.71	--	7.73	0.00	91.98	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		99.71	--	8.68	0.00	91.03	<250	<750	<50	--	--	--	--	--	<2.0
11/11/97		99.71	--	8.07	0.00	91.64	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		99.71	--	8.12	0.00	91.59	<250	<750	<50	--	--	--	--	--	<2.0
5/28/98		99.71	--	8.35	0.00	91.36	<250	<750	<50	--	--	--	--	--	4.53
8/20/98		99.71	--	8.96	0.00	90.75	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		99.71	--	9.37	0.00	90.34	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		99.71	--	7.70	0.00	92.01	<250	<50	<80	--	--	--	--	--	1.1
5/25/99		99.71	--	8.32	0.00	91.39	<250	--	<80	--	--	--	--	--	--
8/17/99		99.71	--	8.70	0.00	91.01	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		99.71	--	7.88	0.00	91.83	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		99.71	--	7.74	0.00	91.97	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		99.71	--	8.39	0.00	91.32	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		99.71	--	8.79	0.00	90.92	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		99.71	--	8.51	0.00	91.20	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		99.71	--	8.18	0.00	91.53	<250	<500	<80	--	--	--	--	--	<2.0
5/2/01		99.71	--	8.17	0.00	91.54	<250	<500	88	--	--	--	--	--	<1.0
10/30/02		99.73	--	8.98	0.00	90.75	<250	<500	<80	<0.500	<0.500	<0.500	<1.00	--	<1.0
1/23/03		99.73	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		99.73	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		99.73	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		99.73	--	8.52	0.00	91.21	<250	<500	<50	<0.500	<0.500	<0.500	<1.00	--	<1.0[4]
12/31/03		99.73	--	7.54	0.00	92.19	<50	<78	<98	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		99.73	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		99.73	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-106 (cont)															
10/7/04		99.71	--	8.50	0.00	91.21	<78	<97	<50	--	--	--	--	--	--
10/20/05		99.71	--	8.70	0.00	91.01	<82	<100	<48	--	--	--	--	--	--
9/6/07		99.71	--	8.88	0.00	90.83	<80	<100	<50	--	--	--	--	--	0.13
5/27-28/08		99.71	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	99.71	--	8.72	0.00	90.99	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	99.71	--	8.18	0.00	91.53	30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	99.71	--	8.40	0.00	91.31	<29	<67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.072
5/4-6/09	LFP	99.71	--	8.30	0.00	91.41	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	99.71	--	8.65	0.00	91.06	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	99.71	--	7.40	0.00	92.31	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.11
2/8-10/10	LFP	99.71	--	8.05	0.00	91.66	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															
MW-107															
2/14/92		100.00	--	8.50	0.00	91.50	--	--	--	--	--	--	--	--	--
2/18/92		100.00	--	8.50	0.00	91.50	--	--	--	--	--	--	--	--	--
3/9/92		100.00	--	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--
3/13/92		100.00	--	8.52	0.00	91.48	--	--	<50	--	--	--	--	--	--
4/21/92		100.00	--	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--
8/22/95		100.00	--	9.06	0.00	90.94	<250	<750	<50	--	--	--	--	--	--
11/28/95		100.00	--	8.00	0.00	92.00	--	--	--	--	--	--	--	--	--
3/12/96		100.00	--	8.36	0.00	91.64	--	--	--	--	--	--	--	--	--
6/26/96		100.00	--	8.89	0.00	91.11	--	--	--	--	--	--	--	--	--
10/9/96		100.00	--	8.94	0.00	91.06	--	--	--	--	--	--	--	--	--
2/12/97		100.00	--	8.25	0.00	91.75	<250	<750	<50	--	--	--	--	--	<2.0
4/22/97		100.00	--	8.05	0.00	91.95	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		100.00	--	8.95	0.00	91.05	<250	<809	<50	--	--	--	--	--	<2.0
11/11/97		100.00	--	8.37	0.00	91.63	<250	**750**	<50	--	--	--	--	--	<2.0
2/11/98		100.00	--	8.44	0.00	91.56	351	**750**	<50	--	--	--	--	--	<2.0
5/28/98		100.00	--	8.73	0.00	91.27	<250	**754**	<50	--	--	--	--	--	--
8/20/98		100.00	--	9.24	0.00	90.76	<250	**750**	<50	--	--	--	--	--	1
11/19/98		100.00	--	9.65	0.00	90.35	<250	**750**	<50	--	--	--	--	--	<1.0
3/11/99		100.00	--	8.08	0.00	91.92	**539**	**750**	<80	--	--	--	--	--	<1.0
5/25/99		100.00	--	8.82	0.00	91.18	<250	<500	<80	--	--	--	--	--	--
8/17/99		100.00	--	8.10	0.00	91.90	<250	--	<80	--	--	--	--	--	<1.0
11/19/99		100.00	--	8.21	0.00	91.79	<250	<500	<80	--	--	--	--	--	<1.0
3/9/00		100.00	--	8.08	0.00	91.92	<250	--	<80	--	--	--	--	--	<1.0

TABLE 1

GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-107 (cont)															
6/13/00		100.00	--	8.88	0.00	91.12	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		100.00	--	9.07	0.00	90.93	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		100.00	--	8.78	0.00	91.22	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		100.00	--	8.63	0.00	91.37	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		100.00	--	8.63	0.00	91.37	<250	<500	88	--	--	--	--	--	<1.0
10/30/02		100.00	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
1/23/03		100.00	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		100.00	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		100.00	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		100.00	UNABLE TO LOCATE			--	--	--	--	--	--	--	--	--	--
12/31/03		100.00	--	7.92	0.00	92.08	<50	85	150	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		100.00	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		100.00	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/7/04		100.00	--	8.78	0.00	91.22	<80	<100	<50	--	--	--	--	--	--
10/20/05		100.00	--	8.97	0.00	91.03	<81	<100	<48	--	--	--	--	--	--
9/6/07		100.00	--	9.18	0.00	90.82	<78	<98	<50	--	--	--	--	--	0.07
5/27-28/08		100.00	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	100.00	--	8.98	0.00	91.02	<79	<99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	100.00	--	8.46	0.00	91.54	38	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	100.00	--	8.62	0.00	91.38	35	70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.068
5/4-6/09	LFP	100.00	--	8.95	0.00	91.05	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
8/19-21/09	LFP	100.00	--	9.11	0.00	90.89	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.27
11/18-20/09	LFP	100.00	--	7.77	0.00	92.23	99	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/8-10/10	LFP	100.00	--	8.25	0.00	91.75	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															
MW-108															
2/14/92		99.79	--	8.10	0.00	91.69	--	--	--	--	--	--	--	--	--
2/18/92		99.79	--	8.62	0.00	91.17	--	--	--	--	--	--	--	--	--
3/9/92		99.79	--	8.49	0.00	91.30	--	--	--	--	--	--	--	--	--
3/13/92		99.79	--	8.63	0.00	91.16	--	--	<50	--	--	--	--	--	--
4/21/92		99.79	--	8.47	0.00	91.32	--	--	--	--	--	--	--	--	--
8/22/95		99.79	--	9.04	0.00	90.75	<250	<750	<50	--	--	--	--	--	--
11/28/95		99.79	--	7.98	0.00	91.81	--	--	--	--	--	--	--	--	--
3/12/96		99.79	--	8.50	0.00	91.29	--	--	--	--	--	--	--	--	--
6/26/96		99.79	--	8.86	0.00	90.93	--	--	--	--	--	--	--	--	--
10/9/96		99.79	--	8.91	0.00	90.88	--	--	--	--	--	--	--	--	--
2/12/97		99.79	--	8.41	0.00	91.38	<250	<750	<50	--	--	--	--	--	<2.0

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-108 (cont)															
4/22/97		99.79	--	8.08	0.00	91.71	<250	<750	<50	--	--	--	--	--	<2.0
8/5/97		99.79	--	8.94	0.00	90.85	<250	**825**	<50	--	--	--	--	--	<2.0
11/11/97		99.79	--	8.53	0.00	91.26	<250	<750	<50	--	--	--	--	--	<2.0
2/11/98		99.79	--	8.59	0.00	91.20	<250	**873**	<50	--	--	--	--	--	<2.0
5/28/98		99.79	--	8.72	0.00	91.07	<250	<750	<50	--	--	--	--	--	4.27
8/20/98		99.79	--	9.20	0.00	90.59	<250	<750	<50	--	--	--	--	--	<1.0
11/19/98		99.79	--	9.60	0.00	90.19	<250	<750	<50	--	--	--	--	--	<1.0
3/11/99		99.79	--	8.16	0.00	91.63	<250	<500	<80	--	--	--	--	--	<1.0
5/25/99		99.79	--	8.69	0.00	91.10	<250	--	<80	--	--	--	--	--	--
8/17/99		99.79	--	8.96	0.00	90.83	<250	<500	<80	--	--	--	--	--	<1.0
11/19/99		99.79	--	8.08	0.00	91.71	<250	--	<80	--	--	--	--	--	<1.0
3/9/00		99.79	--	8.16	0.00	91.63	<250	<500	<80	--	--	--	--	--	<1.0
6/13/00		99.79	--	8.69	0.00	91.10	<250	<500	<80	--	--	--	--	--	<1.0
9/26/00		99.79	--	9.04	0.00	90.75	<250	<500	--	--	--	--	--	--	<1.0
12/13/00		99.79	--	8.81	0.00	90.98	<250	<500	--	--	--	--	--	--	<1.0
2/28/01		99.79	--	8.60	0.00	91.19	<250	<500	<80	--	--	--	--	--	<1.0
5/2/01		99.79	--	8.53	0.00	91.26	<250	<500	<80	--	--	--	--	--	<1.0
10/30/02		99.79	--	9.24	0.00	90.55	<250	<500	<80	<0.500	<0.500	<0.500	<1.0	--	<1.0
1/23/03		99.79	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
4/18/03		99.79	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/11/03		99.79	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/31/03		99.79	--	8.82	0.00	90.97	<250	<500	<50.0	<0.500	<0.500	<0.500	<1.0	--	<1.0[4]
12/31/03		99.79	--	7.95	0.00	91.84	<50	<77	<97	<0.5	<0.5	<0.5	<1.5	--	<1.2
5/3/04		99.79	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
7/20/04		99.79	MONITORED/SAMPLED ANNUALLY					--	--	--	--	--	--	--	--
10/7/04		99.79	--	8.80	0.00	90.99	<80	<100	<50	--	--	--	--	--	--
10/20/05		99.79	--	8.89	0.00	90.90	<81	<100	<48	--	--	--	--	--	--
10/20/05(D)		99.79	--	8.89	0.00	90.90	<81	<100	<48	--	--	--	--	--	--
9/6/07		99.79	--	9.15	0.00	90.64	<80	<100	<50	--	--	--	--	--	0.12
5/27-28/08		99.79	INACCESSIBLE			--	--	--	--	--	--	--	--	--	--
8/27-29/08	LFP	99.79	--	9.00	0.00	90.79	<78	<98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/17-19/08	LFP	99.79	--	8.48	0.00	91.31	<30	<70	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/16-18/09	LFP	99.79	--	8.74	0.00	91.05	**1,100**	230	<50	<0.5	<0.5	<0.5	<0.5	<0.5	0.070
5/4-6/09	LFP	99.79	--	8.62	0.00	91.17	<29	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050

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GROUNDWATER MONITORING DATA AND ANALYTICAL RESULTS[1]
COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
MW-108 (cont)															
8/19-21/09	LFP	99.79	--	9.07	0.00	90.72	<30	<69	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
11/18-20/09	LFP	99.79	--	7.64	0.00	92.15	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
2/8-10/10	LFP	99.79	--	8.50	0.00	91.29	<29	<68	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.050
MONITORING WELL DECOMMISSIONED/SAMPLING DISCONTINUED															
TRIP BLANK															
10/30/02		--	--	--	--	--	--	--	--	--	--	--	--	--	--
1/23/03		--	--	--	--	--	--	--	<80	<0.500	<0.500	<0.500	<1.0	--	--
4/18/03		--	--	--	--	--	--	--	<50	<0.500	<0.500	<0.500	<1.0	--	--
QA															
7/11/03		--	--	--	--	--	--	--	<50	<0.500	<0.500	<0.500	<1.00	--	--
10/31/03		--	--	--	--	--	--	--	<50	<0.500	<0.500	<0.500	<1.00	--	--
12/31/03		--	--	--	--	--	<50	--	--	<0.5	<0.5	<0.5	<1.5	--	--
5/3/04[6]		--	--	--	--	--	--	--	--	--	--	--	--	--	--
7/20/04		--	--	--	--	--	--	--	<50	<0.500	<0.500	<0.500	<1.00	--	--
5/27-28/08		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/27-29/08		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/17-19/08		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/16-18/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/4-6/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/19-21/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/18-20/09		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/8-10/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/12-13/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/11/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/3-4/10		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/3-4/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/23/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/23-24/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/7-9/11		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/6-8/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
5/2-4/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
8/1-3/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/26-28/12		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/4-6/13		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/6-8/13		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

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COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556
101 Mulford Road
Toledo, Washington
Concentrations reported in µg/L

Well ID/ Date	Purge Method	TOC[2] (ft.)	DTP (ft.)	DTW (ft.)	LNAPLT (ft.)	GWE[3] (ft.)	TPH-DRO[4]	TPH-HRO[4]	TPH-GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	D. Lead
QA (cont)															
9/9-13/13		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/18-22/13		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
2/4-11/14		--	--	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
Standard Laboratory Reporting Limits:							--	--	50	0.5	0.5	0.5	1.0	0.5	0.5
MTCA Method A Cleanup Levels:							500	500	800/1,000	5	1,000	700	1,000	20	15
Current Method:[7]							NWTPH-Dx Extended		NWTPH-Gx and USEPA 8260B						USEPA 6020

Abbreviations:

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
(D) = Duplicate
D. Lead = Dissolved Lead
DTP = Depth to Product
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
LFP = Low Flow Purge
LNAPL = Light Non-Aqueous Phase Liquid
LNAPLT = LNAPL Thickness
(mg/L) = Milligrams per liter
MTBE = Methyl Tertiary Butyl Ether
MTCA = Model Toxics Control Act
QA = Quality Assurance/Trip Blank
T. Lead = Total Lead
TOC = Top of Casing
TPH = Total Petroleum Hydrocarbons
TPH-DRO = TPH as Diesel-Range Organics
TPH-GRO = TPH as Gasoline-Range Organics
TPH-HRO = TPH as Heavy Oil-Range Organics
USEPA = United States Environmental Protection Agency
µg/L = Micrograms per liter
-- = Not Measured/Not Analyzed

Notes:

1 Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.
2 TOC elevations have been surveyed in feet relative to the 1988 North American Vertical Datum.
3 When LNAPL is present, GWE has been corrected using the following formula: GWE = [(TOC - DTW) + (LNAPLT x 0.80)].
4 TPH-DRO and TPH-HRO results with multiple values are reported as follows: with silica gel cleanup/ without silica gel cleanup. TPH-DRO and TPH-HRO analyses for monitoring completed between October 2004 and May 2013 was performed with silica gel cleanup. The use of silica gel cleanup for samples collected prior to October 2004 has not been confirmed.
5 Laboratory report indicates this sample was laboratory filtered.
6 Laboratory indicates they did not receive a QA sample. No results were provided.
7 Laboratory analytical methods for historical data may not be consistent with list of current analytical methods. When necessary, consult original laboratory reports to verify methods used.

TABLE 2

NATURAL ATTENUATION MONITORING PARAMETERS[1]

COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556

101 Mulford Road

Toledo, Washington

	Upgradient Wells		Crossgradient Wells		Source Area Wells			Near Downgradient Wells		Sentinel Wells	
	B-1	**B-2**	**MW-117**	**MW-119**	**B-3**	**B-4**	**MW-111**	**MW-112**	**MW-113**	**MW-103**	**MW-116**
Laboratory Results (µg/L)											
Benzene											
9/9-13/13	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	1	<0.5	<0.5	<0.5	<0.5
11/18-22/13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
2/4-11/14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5
TPH-GRO											
9/9-13/13	<50	<50	<50	<50	**1,700**	**1,200**	**5,500**	<50	<50	<50	<50
11/18-22/13	<50	<50	<50	<50	190	**1,200**	**3,300**	68	<50	<50	<50
2/4-11/14	<50	<50	<50	<50	480	**1,800**	**4,800**	<50	<50	<50	<50
TPH-DRO without silica gel cleanup											
9/9-13/13	<29	<29	<29	<28	**2,700**	250	**3,600**	32	<28	<29	<28
11/18-22/13	<29	<29	<29	<29	**1,600**	150	**1,000**	33	<29	<29	<29
2/4-11/14	<29	<28	<29	<29	**730**	170	**1,000**	<29	<29	<29	<29
TPH-DRO with silica gel cleanup											
9/9-13/13	<29	<29	<29	<28	160	130	330	<29	<28	<29	<28
11/18-22/13	<29	<29	<29	<29	42	120	370	<29	<29	<29	<29
2/4-11/14	<29	<28	<29	<29	36	140	410	<29	<29	<29	<29
TPH-HRO without silica gel cleanup											
9/9-13/13	<67	<67	<67	<66	<66	110	89	<67	<66	<67	<66
11/18-22/13	<67	<67	<67	<68	180	<67	<66	<67	<67	<67	<67
2/4-11/14	<68	<66	<67	<68	<67	<68	<68	<68	<69	<67	<68
TPH-HRO with silica gel cleanup											
9/9-13/13	<67	<67	<67	<66	72	<66	<66	<67	<66	<67	<66
11/18-22/13	<67	<67	<67	<68	<67	<67	<66	<67	<67	<67	<67
2/4-11/14	<68	<66	<67	<68	<67	<68	<68	<68	<69	<67	<68
Nitrate											
9/9-13/13	<250	850	760	590	<250	<250	<250	<250	<250	<250	390
11/18-22/13	<250	580	580	<250	10,500	<250	<250	<250	<250	<250	790
2/4-11/14	660	1,000	440	490	21,100	<250	<250	370	440	<250	630

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TABLE 2

NATURAL ATTENUATION MONITORING PARAMETERS[1]

COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556

101 Mulford Road

Toledo, Washington

	Upgradient Wells		Crossgradient Wells		Source Area Wells			Near Downgradient Wells		Sentinel Wells	
	B-1	**B-2**	**MW-117**	**MW-119**	**B-3**	**B-4**	**MW-111**	**MW-112**	**MW-113**	**MW-103**	**MW-116**
Sulfate											
9/9-13/13	4,600	3,300	5,400	4,200	9,000	<1,500	1,700	1,900	3,300	2,800	4,300
11/18-22/13	4,200	3,800	3,900	2,700	4,400	<1,500	<1,500	<1,500	2,100	1,700	4,100
2/4-11/14	4,400	3,400	6,500	3,500	6,900	<1,500	<1,500	2,500	2,900	2,800	3,700
Dissolved Iron											
9/9-13/13	102	<43.0	<43.0	<43.0	20,000	10,900	12,300	3,240	113	<43.0	628
11/18-22/13	45.6	<43.0	<43.0	<43.0	326	10,500	9,940	3,920	<43.0	<43.0	175
2/4-11/14	65.2	<43.0	<43.0	<43.0	2,440	11,400	9,100	1,730	<43.0	<43.0	<43.0
Dissolved Manganese											
9/9-13/13	104	278	2.9	50.6	6,070	2,300	4,740	2,490	76.1	1,460	29.0
11/18-22/13	314	287	3.0	11.1	4,200	2,290	4,310	2,600	1.1	178	13.2
2/4-11/14	221	34.3	2.5	38.4	3,890	2,480	4,750	1,750	4.6	111	5.4
Sulfide											
9/9-13/13	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54
11/18-22/13	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54
2/4-11/14	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54
Methane											
9/9-13/13	36	15	<3.0	<3.0	360	370	3,000	310	<3.0	12	16
11/18-22/13	140	28	<3.0	14	170	600	3,500	810	<3.0	4.0	<3.0
2/4-11/14	5.2	<3.0	<3.0	<3.0	96	1,100	4,700	100	<3.0	6.5	<3.0
Alkalinity											
9/9-13/13	109,000	96,300	29,700	95,400	238,000	131,000	202,000	127,000	45,000	116,000	38,800
11/18-22/13	90,600	97,500	14,700	129,000	33,800	120,000	178,000	130,000	40,400	112,000	37,600
2/4-11/14	76,900	75,300	28,900	72,800	83,200	119,000	181,000	110,000	33,200	113,000	38,000

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TABLE 2

NATURAL ATTENUATION MONITORING PARAMETERS[1]

COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556

101 Mulford Road

Toledo, Washington

	Upgradient Wells		Crossgradient Wells		Source Area Wells			Near Downgradient Wells		Sentinel Wells	
	B-1	**B-2**	**MW-117**	**MW-119**	**B-3**	**B-4**	**MW-111**	**MW-112**	**MW-113**	**MW-103**	**MW-116**
Field Parameters											
Dissolved Oxygen [DO] (mg/L)											
9/9-13/13	0.70	1.07	2.46	2.92	1.67	1.02	0.65	0.8	2.48	0.73	1.40
	0.68	1.05	3.74	2.98	0.96	0.95	0.63	0.79	2.50	0.68	1.34
	0.67	1.02	4.00	3.01	0.95	0.92	0.63	0.78	2.47	0.68	1.32
	--	0.8	4.51	--	--	--	--	--	--	--	--
11/18-22/13	0.42	0.72	4.2	0.81	0.83	0.33	0.58	0.59	2.04	1.09	1.81
	0.42	0.72	4.24	0.79	0.83	0.33	0.57	0.59	2.03	1.09	1.77
	0.42	0.71	4.27	0.78	0.82	0.32	0.55	0.58	2.04	1.06	1.76
	0.42	0.71	4.31	0.77	0.80	0.32	0.54	0.56	2.04	1.02	1.75
2/4-11/14	1.81	1.53	2.64	1.76	1.27	0.83	0.77	1.88	2.91	1.15	2.51
	1.79	1.52	2.60	1.75	1.22	0.83	0.76	1.84	2.87	1.15	2.46
	1.77	1.50	2.57	1.75	1.20	0.83	0.74	1.80	2.84	1.16	2.39
	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential [ORP] (mV)											
9/9-13/13	99.5	126.3	156.3	90.3	-131.8	-197.0	-86.2	-15.1	260.4	85.9	97.3
	99.1	126.3	156.8	91.8	-138.9	-194.7	-82.0	15.2	258.1	87.1	96.3
	98.3	126.8	157.1	92.3	-139.5	-194.9	-82.0	-13.0	254.9	86.2	92.2
	--	130.4	159.2	--	--	--	--	--	--	--	--
11/18-22/13	59.9	110.7	110.4	126.3	-26.5	-48.4	-48.0	-91.3	124.0	100.0	111.9
	59.8	111.8	110.5	127.1	-27.1	-49.9	-47.6	-31.9	125.7	100.3	112.3
	59.5	112.4	111.2	127.9	-27.3	-50.7	-47.4	-32.0	127.2	100.7	113.2
	59.4	112.8	112.1	128.3	-28.1	-51.4	-47.2	-31.5	128.1	100.1	114.1
2/4-11/14	123.0	128.9	273.4	112.5	118.9	-57.2	-51.2	106.9	117.7	107.4	58.3
	123.4	128.9	272.1	113	119.6	-57.3	-51.3	107.1	118.6	107.7	59.8
	123.1	129.1	270.9	113.4	120.9	-57.5	-51.4	109.0	119.5	108.2	60.6
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TABLE 2

NATURAL ATTENUATION MONITORING PARAMETERS[1]

COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556

101 Mulford Road

Toledo, Washington

	Upgradient Wells		Crossgradient Wells		Source Area Wells			Near Downgradient Wells		Sentinel Wells	
	B-1	**B-2**	**MW-117**	**MW-119**	**B-3**	**B-4**	**MW-111**	**MW-112**	**MW-113**	**MW-103**	**MW-116**
pH											
9/9-13/13	6.20	6.29	6.17	6.44	6.48	6.58	6.46	6.55	6.81	6.60	6.18
	6.22	6.29	6.25	6.45	6.51	6.56	6.44	6.54	6.81	6.60	6.16
	6.22	6.30	6.27	6.45	6.51	6.56	6.46	6.53	6.83	6.61	6.17
	--	6.31	6.25	--	--	--	--	--	--	--	--
11/18-22/13	6.51	6.59	6.55	6.49	6.35	6.60	6.55	6.76	6.36	6.79	6.57
	6.48	6.58	6.52	6.48	6.36	6.61	6.55	6.77	6.33	6.76	6.37
	6.48	6.57	6.51	6.47	6.36	6.61	6.55	6.77	6.32	6.76	6.36
	6.47	6.57	6.49	6.46	6.35	6.62	6.55	6.76	6.32	6.75	6.37
2/4-11/14	6.64	6.73	6.39	6.91	5.9	6.78	6.76	6.77	6.45	6.86	6.53
	6.62	6.74	6.39	6.88	6.01	6.79	6.74	6.76	6.44	6.84	6.51
	6.61	6.74	6.38	6.87	6.02	6.79	6.74	6.74	6.43	6.84	6.49
	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celsius)											
9/9-13/13	16.7	14.8	16.7	20.0	18.3	19.5	18.4	22.1	16.07	17.8	14.5
	16.7	14.8	16.8	19.9	18.9	19.5	18.4	22.0	16.05	17.8	14.6
	16.7	14.9	16.9	19.9	19.0	19.6	18.4	22.0	16.06	17.6	14.6
	--	14.9	17.09	--	--	--	--	--	--	--	--
11/18-22/13	12.62	8.79	11.81	8.10	15.30	14.50	14.61	9.7	13.08	10.17	12.29
	12.60	8.75	11.77	8.05	15.36	14.46	14.64	9.5	13.01	10.21	12.21
	12.56	8.66	11.72	8.01	15.4	14.41	14.67	9.3	13.00	10.26	12.18
	12.47	8.57	11.69	8.02	15.47	14.36	14.71	9.28	12.94	10.31	12.18
2/4-11/14	7.12	5.59	8.83	3.89	8.31	8.40	10.44	6.69	9.24	3.57	8.33
	7.20	5.66	8.90	3.96	8.26	8.32	10.52	6.77	9.32	3.46	8.22
	7.26	5.71	8.98	4.09	8.18	8.28	10.60	6.84	9.40	3.33	8.14
	--	--	--	--	--	--	--	--	--	--	--

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TABLE 2

NATURAL ATTENUATION MONITORING PARAMETERS[1]

COWLITZ BP / COWLITZ FOOD AND FUEL / FORMER TEXACO SERVICE STATION NO. 211556

101 Mulford Road

Toledo, Washington

	Upgradient Wells		Crossgradient Wells		Source Area Wells			Near Downgradient Wells		Sentinel Wells	
	B-1	**B-2**	**MW-117**	**MW-119**	**B-3**	**B-4**	**MW-111**	**MW-112**	**MW-113**	**MW-103**	**MW-116**
Conductivity (µS)											
9/9-13/13	0.232	0.238	0.163	0.244	0.687	0.288	0.454	0.804	0.130	0.273	0.114
	0.233	0.236	0.123	0.244	0.97	0.287	0.454	0.803	0.130	0.272	0.114
	0.234	0.233	0.113	0.245	0.698	0.286	0.454	0.803	0.130	0.272	0.113
	--	0.221	0.116	--	--	--	--	--	--	--	--
11/18-22/13	0.180	0.131	0.072	0.209	0.439	0.230	0.338	0.210	0.089	0.215	0.004
	0.178	0.131	0.07	0.209	0.439	0.230	0.339	0.210	0.089	0.215	0.083
	0.176	0.131	0.068	0.209	0.438	0.230	0.339	0.209	0.089	0.215	0.083
	0.175	0.130	0.065	0.209	0.438	0.231	0.339	0.209	0.089	0.215	0.083
2/4-11/14	0.192	0.143	0.113	0.102	0.239	0.199	0.322	0.202	0.054	0.160	0.075
	0.191	0.143	0.113	0.102	0.240	0.199	0.322	0.202	0.054	0.160	0.072
	0.191	0.142	0.112	0.101	0.240	0.198	0.322	0.202	0.054	0.159	0.070
	--	--	--	--	--	--	--	--	--	--	--

Abbreviations:

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

(mg/L) = Milligrams per liter

(mV) = Millivolts

µg/L = Micrograms per liter

µg/S = Micrograms per siemen

MTCA = Model Toxics Control Act

TPH = Total Petroleum Hydrocarbons

TPH-DRO = TPH as Diesel-Range Organics

TPH-GRO = TPH as Gasoline-Range Organics

TPH-HRO = TPH as Heavy Oil-Range Organics

-- = Not Measured/Not Analyzed

Notes:

1 Analytical results in bold font indicate concentrations exceed MTCA Method A cleanup levels.

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Attachment A:
Groundwater Monitoring and Sampling Data Package

GETTLER-RYAN INC.

TRANSMITTAL

February 21, 2014
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 **First Quarter Event of February 4, 5, 6, 10, & 11, 2014**

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: 2.4 | 5 | 6 | 7.14 (inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID MW-103 Date Monitored: 2.4.14

Well Diameter (2) 4 in.

Total Depth 18.64 ft.

Depth to Water 8.36 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

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.41

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other: YSI MPS 6600	

Sampling Equipment:

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

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1000 Weather Conditions: CLOUDY

Sample Time/Date: 1031 / 2.6.14 Water Color: CLEAR Odor: Y / (N)

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 8.80

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) (~~µmhos/cm~~ ~~µS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1018	3.6	6.86	.160	3.57	1.15	107.4	8.52
1021	4.2	6.84	.160	3.46	1.15	107.7	8.69
1024	4.6	6.84	.159	3.33	1.16	108.2	8.80

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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 14-15

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: 12.4/5/6/10/11.14 (inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID MW-10A Date Monitored: 12.4.14

Well Diameter (2) 4 in.

Total Depth 12.69 ft.

Depth to Water 7.83 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

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.40

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	x
QED Bladder Pump	
Other: YSI MP5 5560	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	x
QED Bladder Pump	
Other: TUBING	

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 0930 Weather Conditions: RAIN

Sample Time/Date: 1005 / 12.11.14 Water Color: CLEAR Odor: Y (N)

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 7.83

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µS) ~~(µmhos/cm µS)~~	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0954	3.6	6.29	.567	11.13	1.97	158.1	7.58
0957	4.2	6.26	.566	11.20	1.95	158.1	7.70
1000	4.0	6.26	.565	11.26	1.91	158.9	7.83

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10A	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)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 10-11

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: 2.4/5/6/7.14 (inclusive)
City: Toledo, WA — Sampler: J.P

Well ID: MW-110
Well Diameter: 2 / (4) in.
Total Depth: 19.83 ft.
Depth to Water: 8.98 ft.
10.85 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	

Date Monitored: 2.4.14

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.15

Purge Equipment:
- Disposable Bailer ____
- Stainless Steel Bailer ____
- Stack Pump ____
- Suction Pump ____
- Grundfos ____
- Peristaltic Pump x
- QED Bladder Pump ____
- Other: YSI MPS 556

Sampling Equipment:
- Disposable Bailer ____
- Pressure Bailer NA
- Metal Filters NA
- Peristaltic Pump x
- QED Bladder Pump ____
- Other: TUBING

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: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____ gal
Product Transferred to: ____

Start Time (purge): 0901
Sample Time/Date: 0931 / 2.6.14
Approx. Flow Rate: 200 mlpm
Did well de-water? NO If yes, Time: – Volume: – gal. DTW @ Sampling: 9.51

Weather Conditions: O'CAST
Water Color: CLEAR Odor: Y / (N)
Sediment Description: NONE

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~μmhos/cm - μS~~) mS	Temperature ((C) F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0919	3.6	6.77	.265	6.48	1.61	116.1	9.13
0922	4.2	6.76	.265	6.53	1.59	109.6	9.32
0925	4.8	6.76	.266	6.61	1.56	108.9	9.51

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
	x 250ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (6020 ICP/MS)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 15-16'

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: 2.4/5/6/10/11.14 (inclusive)
City: Toledo, WA Sampler: V.P

Well ID: MW-11
Date Monitored: 2.4.14
Well Diameter: 2 / (4) in.
Total Depth: 17.80 ft.
Depth to Water: 7.11 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.

10.69 xVF – = – x3 case volume = Estimated Purge Volume: – gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.24

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Peristaltic Pump: x
- QED Bladder Pump
- Other: YSI MPS 556

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer: x
- Metal Filters: x
- Peristaltic Pump: x
- QED Bladder Pump
- Other: TUBING

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: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____ gal
Product Transferred to: ____

Start Time (purge): 1147
Sample Time/Date: 1216 / 2.5.14
Approx. Flow Rate: 200 mlpm
Did well de-water? NO If yes, Time: – Volume: – gal.
Weather Conditions: SUN / SNOW
Water Color: CLEAR Odor: (Y) / N MILD
Sediment Description: NONE
DTW @ Sampling: 7.63

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1205	3.6	6.76	.322	10.44	.77	-51.2	7.31
1208	4.2	6.74	.322	10.52	.76	-51.3	7.44
1211	4.8	6.74	.322	10.60	.74	-51.4	7.63

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3 FF	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	250 x 500ml poly	YES	HNO3 "	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x ~~500~~ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP FF	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 13'-14'

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: 2.4/5/6/7.14 (inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID MW-11R Date Monitored: 2.4.14

Well Diameter (2)/4 in.

Total Depth 17.34 ft.

Depth to Water 7.67 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

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.60

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	x
QED Bladder Pump	
Other: YSI MP5 5560	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	x
Metal Filters	x
Peristaltic Pump	x
QED Bladder Pump	
Other: TUBING	

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: ___ gal
Amt Removed from Well: ___ gal
Water Removed: ___ gal
Product Transferred to: ___

Start Time (purge): 1238 Weather Conditions: SNOW

Sample Time/Date: 1307/2.6.14 Water Color: CLEAR Odor: Y / (N)

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: 8.13

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1256	3.6	6.77	.202	6.69	1.88	106.9	7.83
1259	4.2	6.76	.202	6.77	1.84	107.1	7.98
1302	4.8	6.74	.202	6.84	1.80	109.0	8.13

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11R	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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 13' - 14'

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: 2.4/5/6/7.14 (inclusive)
City: **Toledo, WA** Sampler: J.P

Well ID: MW.113 Date Monitored: 2.4.14
Well Diameter: 2/(4) in.
Total Depth: 16.83 ft.
Depth to Water: 6.56 ft. ☐ Check if water column is less then 0.50 ft.
10.27 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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.61

Purge Equipment:
- Disposable Bailer: ____
- Stainless Steel Bailer: ____
- Stack Pump: ____
- Suction Pump: ____
- Grundfos: ____
- Peristaltic Pump: x
- QED Bladder Pump: ____
- Other: YSI MPS 556

Sampling Equipment:
- Disposable Bailer: ____
- Pressure Bailer: x
- Metal Filters: x
- Peristaltic Pump: x
- QED Bladder Pump: ____
- Other: TUBING

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: ____ gal
Amt Removed from Well: ____ gal
Water Removed: ____ gal
Product Transferred to: ____

Start Time (purge): 1332 Weather Conditions: SNOW
Sample Time/Date: 1402/2.6.14 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 mlpm Sediment Description: NONE
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 7.08

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µmhos/cm - µS~~) MS	Temperature (C) F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1350	3.6	6.45	.064	9.24	2.91	117.7	6.79
1353	4.2	6.44	.064	9.32	2.87	118.6	6.90
1356	4.8	6.43	.064	9.40	2.84	119.5	7.08

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 12'-13'

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: 2.4/5/6/10/11.14 (inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID MW-11A Date Monitored: 2.4.14

Well Diameter (2) 4 in.

Total Depth 16.83 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 6.56 ft. ☐ Check if water column is less then 0.50 ft.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.61

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other: YSI MPS 5560	

Sampling Equipment:

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

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1022 Weather Conditions: RAIN

Sample Time/Date: 1051 / 2.11.14 Water Color: CLEAR Odor: Y / (N)

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: ~ Volume: ~ gal. DTW @ Sampling: 7.13

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µmhos/cm - µS)	Temperature (C F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1040	3.6	6.04	0.480	16.26	4.60	159.7	6.83
1043	4.2	6.02	0.481	10.32	4.02	160.2	6.98
1046	4.8	6.02	0.481	10.40	4.04	160.4	7.13

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11A	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)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 13

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: 2.4/5/6/10/11.14 (inclusive)
City: Toledo, WA | Sampler: J.P

Well ID: MW-11S | Date Monitored: 2.4.14
Well Diameter: 2/(4) in.
Total Depth: 17.46 ft.
Depth to Water: 8.05 ft. ☐ Check if water column is less then 0.50 ft.
9.41 xVF — = — x3 case volume = Estimated Purge Volume: — gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.93

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

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump: X
QED Bladder Pump
Other: YSI MP5 5566

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

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1231 | Weather Conditions: SNOW RAIN WIND
Sample Time/Date: 1301 / 2.10.14 | Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: 200 mlpm | Sediment Description: NONE
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 8.66

Time (2400 hr.)	Volume (Liters)	pH	Conductivity MS (~~µmhos/cm~~ ~~µS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1249	3.6	6.94	.239	10.64	1.69	57.1	8.21
1252	4.2	6.89	.238	10.72	1.56	58.3	8.40
1255	4.8	6.87	.236	10.91	1.49	59.1	8.66

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)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 14'

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: 2.4/5/6/10/11.14 (inclusive)
City: Toledo, WA | Sampler: J.P

Well ID: MW-116
Well Diameter: (2) 4 in.
Total Depth: 17.53 ft.
Depth to Water: 8.28 ft.
9.25 xVF ~ = ~

Date Monitored: 2.4.14

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.

x3 case volume = Estimated Purge Volume: ~ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.13

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other: YSI MP5 5560	

Sampling Equipment:

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

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1132 | Weather Conditions: RAIN SNOW WIND
Sample Time/Date: ~~1207~~ 2.10.14 | Water Color: CLEAR | Odor: Y / (N)
Approx. Flow Rate: 250 mlpm | Sediment Description: NONE
Did well de-water? No | If yes, Time: ~ | Volume: ~ gal. | DTW @ Sampling: 8.64

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µmhos/cm~~ mS/cm)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1150	3.6	6.53	.075	8.33	2.51	58.3	8.43
1153	4.2	10.51	.078	8.22	2.46	59.8	8.51
1156	4.8	6.49	.070	8.14	2.39	60.6	8.64

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-116	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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3 F.F.	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP F.F.	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 14

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: 2.4/5/6/10/11.14 (inclusive)

City: **Toledo, WA** Sampler: V.F

Well ID MW-117

Well Diameter (2) 4 in.

Total Depth 17.64 ft.

Depth to Water 6.85 ft.

10.79 xVF ~ = ~

Date Monitored: 2.4.14

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.

x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.00

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	x
QED Bladder Pump	
Other: YSI MP5 5560	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	x
Metal Filters	x
Peristaltic Pump	x
QED Bladder Pump	
Other: TUBING	

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 0941 Weather Conditions: RAIN / SNOW

Sample Time/Date: 1012 / 2.10.14 Water Color: CLEAR Odor: Y / (N)

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 7.01

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µmhos/cm ~~µS~~ mS)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0959	3.6	6.39	.113	8.83	2.64	273.4	7.03
1002	4.2	6.39	.113	8.90	2.60	272.1	7.19
1005	4.8	6.58	.112	8.98	2.57	270.9	7.31

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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3 FF	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	½ x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP FF	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 14'

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: 2·4|5|6|10|11|14 (inclusive)
City: Toledo, WA Sampler: J.P

Well ID MW-11R
Well Diameter (2) 4 in.
Total Depth 17.22 ft.
Depth to Water 7.02 ft.
10.20 xVF ~ = ~
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.06

Date Monitored: 2.4.14

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.

x3 case volume = Estimated Purge Volume: ~ gal.

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other: YSI MPS 5560	

Sampling Equipment:

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

Start Time (purge): 1030
Sample Time/Date: 1110 / 2·10·14
Approx. Flow Rate: 200 mlpm
Did well de-water? NO If yes, Time: ~ Volume: ~ gal. DTW @ Sampling: 7.53

Weather Conditions: RAIN SNOW WIND
Water Color: CLEAR Odor: Y / (N)
Sediment Description: NONE

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µmhos/cm ~~µS~~)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1056	3.6	7.66	.289	8.56	1.96	-106.9	7.31
1059	4.2	7.64	.287	8.63	1.90	-107.6	7.44
1102	4.8	7.62	.284	8.81	1.76	-109.1	7.53

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11R	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)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 14

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: 2.4/5/6/7.14 (inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID MW-11G Date Monitored: 2.4.14

Well Diameter (2) 4 in.

Total Depth 16.65 ft.

Depth to Water 8.47 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

8.18 xVF - = - x3 case volume = Estimated Purge Volume: - gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.10

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	x
QED Bladder Pump	
Other: YSI MPS E606	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	x
Metal Filters	x
Peristaltic Pump	x
QED Bladder Pump	
Other: TUBING	

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1146 Weather Conditions: SNOW

Sample Time/Date: 1214 / 2.6.14 Water Color: CLEAR Odor: Y (N)

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: - Volume: - gal. DTW @ Sampling: 8.96

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µmhos/cm~~ mS)	Temperature (C) / F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1202	3.6	6.91	.102	3.89	1.76	112.5	8.70
1205	4.2	6.88	.102	3.96	1.75	113.0	8.91
1208	4.8	6.87	.101	4.09	1.75	113.4	8.960

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11G	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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 12-13'

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: 2.4/0/6/10/11.14 (inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID MW-12ϕ

Well Diameter (2) 4 in.

Total Depth 16.87 ft.

Depth to Water 7.32 ft.

9.55 xVF ~ = ~

Date Monitored: 2.4.14

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.

x3 case volume = Estimated Purge Volume: ~ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.23

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	x
QED Bladder Pump	
Other: YSI MPS 556	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Metal Filters	
Peristaltic Pump	x
QED Bladder Pump	
Other: TURBID	

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 0853 Weather Conditions: RAIN/SNOW

Sample Time/Date: 0923 / 2.10.14 Water Color: CLEAR Odor: Y (N)

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: ~ Volume: ~ gal. DTW @ Sampling: 7.80

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (mS) (~~mmhos/cm~~ ~~µS~~)	Temperature (C) F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0911	3.6	5.82	.182	7.44	1.54	149.4	7.61
0914	4.2	5.78	.182	7.51	1.50	149.7	7.66
0917	4.8	5.78	.181	7.59	1.46	149.9	7.80

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12ϕ	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)
	x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	x 250ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	x 250ml poly	YES	NP	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 13'

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: 2.4 | 3 | 6 | 10 | 11.14 (inclusive)

City: **Toledo, WA** Sampler: JF

Well ID 3.1

Well Diameter (2) 4 in.

Total Depth 19.78 ft.

Depth to Water 7.25 ft.

12.53 xVF - = - x3 case volume = Estimated Purge Volume: - gal.

Date Monitored: 2.4.14

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	(2"= 0.17)	8"= 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]: 9.75

Purge Equipment:		**Sampling Equipment:**	
Disposable Bailer		Disposable Bailer	
Stainless Steel Bailer		Pressure Bailer	X
Stack Pump		Metal Filters	X
Suction Pump		Peristaltic Pump	X
Grundfos		QED Bladder Pump	
Peristaltic Pump	X	Other: TUBING	
QED Bladder Pump			
Other: YSI MPS 556			

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1003 Weather Conditions: SUN / SNOW

Sample Time/Date: 1033 / 2.5.14 Water Color: CLEAR Odor: NO

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: - Volume: - gal. DTW @ Sampling: 7.44

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (~~µmhos/cm~~ µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1021	3.6	6.64	.192	7.12	1.81	123.0	7.44
1024	4.2	6.602	.191	7.20	1.79	123.4	7.44
1027	4.8	6.61	.191	7.26	1.77	123.1	7.44

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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3 F.F.	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x 500ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP F.F.	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 16

Add/Replaced Gasket: ~~yes~~ Add/Replaced Bolt: _____ Add/Replaced Plug: ✓ Add/Replaced Lock: ~~yes~~

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: 2.4/5/6/10/11.14 (inclusive)
City: Toledo, WA | Sampler: J.P

Well ID: B-2
Well Diameter: (2) 4 in.
Total Depth: 19.83 ft.
Depth to Water: 8.47 ft.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.50

Date Monitored: 2.04.14

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.

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

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	x
QED Bladder Pump	
Other: YSI MP5 556	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	x
Metal Filters	x
Peristaltic Pump	x
QED Bladder Pump	
Other: TUBING	

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 0853
Sample Time/Date: 0925 / 2.5.14
Approx. Flow Rate: 100 mlpm
Did well de-water? No If yes, Time: — Volume: — gal. DTW @ Sampling: 9.10

Weather Conditions: SUN / SNOW
Water Color: CLEAR Odor: Y / (N)
Sediment Description: NONE

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
0911	3.6	6.73	.143	5.59	1.53	128.9	8.79
0914	4.2	6.74	.143	5.66	1.52	128.9	8.92
0917	4.8	6.74	.142	5.71	1.50	129.1	9.10

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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3 F.F.	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x ~~500~~ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP F.F.	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 14' - 15'

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: 2.4 (5/6/10/11.14 inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID B-3 Date Monitored: 2.4.14

Well Diameter (2) 4 in.

Total Depth 13.50 ft.

Depth to Water 90.10 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.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.19

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other: YSI MPS 556	

Sampling Equipment:

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

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1240 Weather Conditions: Sun / Windy

Sample Time/Date: 1310 / 12.5.14 Water Color: CLEAR Odor: (Y) N MILD

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? No If yes, Time: ~ Volume: ~ gal. DTW @ Sampling: 8.53

Time (2400 hr.)	Volume (Liters)	pH	Conductivity MS (~~µmhos/cm~~ µS)	Temperature (C) F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1250	3.6	6.94	.239	8.31	1.27	118.9	8.50
1301	4.2	6.01	.240	8.26	1.22	119.6	8.41
1304	4.8	6.02	.240	8.18	1.20	120.9	8.53

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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3 F.F.	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	250 x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	1 x ~~500~~ml clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	7 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP FF	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 11.12'

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: 2.4 | 5 | 6 | 10 | 11 .14 (inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID B-4

Well Diameter (2) 4 in.

Total Depth 14.69 ft.

Depth to Water 7.36 ft.

Date Monitored: 2.4.14

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.

7.33 xVF - = - x3 case volume = Estimated Purge Volume: - gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.82

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other: YSI MPS 5560	

Sampling Equipment:

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

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: gal
Amt Removed from Well: gal
Water Removed: gal
Product Transferred to:

Start Time (purge): 1050 Weather Conditions: SUN/SNOW

Sample Time/Date: 1124 / 2.5.14 Water Color: CLEAR Odor (Y) / N MILD

Approx. Flow Rate: 200 mlpm Sediment Description: NONE

Did well de-water? NO If yes, Time: - Volume: - gal. DTW @ Sampling: 7.78

Time (2400 hr.)	Volume (Liters)	pH	Conductivity (MS ~~pmhos/cm - µS~~)	Temperature (C) F	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1113	3.6	6.78	.199	8.46	.83	-57.2	7.53
1116	4.2	6.79	.199	8.32	.83	-57.3	7.66
1119	4.8	6.79	.198	8.28	.83	-57.5	7.78

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)
	2 x voa vial	YES	NP	LANCASTER	NITRATE/SULFATE (EPA 300.0)
	1 x 250ml poly	YES	HNO3 FF	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	2 x 500ml poly	YES	HNO3	LANCASTER	DISSOLVED IRON/DISSOLVED MANGANESE (6010B)
	x ~~500ml~~ clear glass	YES	NaOH & ZnAc	LANCASTER	SULFIDE (SM20 4500 S2D)
	2 x voa vial	YES	HCL	LANCASTER	METHANE (RSKOP-175)
	1 x 250ml poly	YES	NP FF	LANCASTER	ALKALINITY (SM20 2320B)

COMMENTS: Depth Pump Set At: 10-11'

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

Chevron Northwest Region Analysis Request/Chain of Custody

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Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

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

Site Address: 101 Mulford Road, TOLEDO, WA

Chevron PM: MHO Lead Consultant: LEIDOSRS 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: J. PAYNE

2 Sample Identification

3 Grab ☐ Composite ☐

4 Matrix

Soil ☐ Sediment ☐ Water ☑ Ground ☑ Potable ☐ Surface ☐ NPDES ☐ Oil ☐ Air ☐

5 Analyses Requested

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Sediment	Water	Ground	Potable	Surface	NPDES	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	Nitrate / Sulfate	Dissolved Iron / Manganese	Sulfide / Methane	Alkalinity
QA	2.5.14		X				X							✓	X			X								
B.1		1033	X				X							16	X			X	X	X		X	X	X	X	X
B.2		0925	X				X							16	X			X	X	X		X	X	X	X	X
B.3		1310	X				X							16	X			X	X	X		X	X	X	X	X
B.4		1124	X				X							16	X			X	X	X		X	X	X	X	X
MW-111	↓	1216	X				X							16	X			X	X	X		X	X	X	X	X

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, [illegible], 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.

7 Turnaround Time Requested (TAT) (please circle)

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

Relinquished by	Date	Time	Received by	Date	Time
	2.5.14	1700			
Relinquished by	Date	Time	Received by	Date	Time

9

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 | Date | Time

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

Chevron Northwest Region Analysis Request/Chain of Custody

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Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

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

Site Address 101 Mulford Road, TOLEDO, WA

Chevron PM MHO Lead Consultant LEIDOSRS 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 J. PAYNE

4 Matrix

Soil ☐ Sediment ☐ Water ☑ Potable ☐ Grnd ☐ NPDES ☐ Surface ☐ Oil ☐ Air ☐

3 Grab ☐ Composite ☐

5 Analyses Requested

2 Sample Identification	Collected Date	Collected Time	Grab	Composite	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	NITRATE / SULFATE 300.0	DISS. IRON / MANGANESE	SULFIDE / METHANE	ALKALINITY
QA	2.6.14		X		2	X			X								
MW-103	2.6.14	1031	X		16	X			X	X	X		X	X	X	X	X
MW-110		0931	X		9	X			X	X	X		✓				
MW-112		1307	X		16	X			X	X	X		X	X	X	X	X
MW-113		1402	X		16	X			X	X	X		X	X	X	X	X
MW-119	↓	1714	X		16	X			X	X	X		X	X	X	X	X

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~~

7 Turnaround Time Requested (TAT) (please circle)

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

Relinquished by	Date	Time	Received by	Date	Time
	2.6.14	~~1900~~ 1630			
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

9

Chevron Northwest Region Analysis Request/Chain of Custody

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

SCR #: _____

1 Client Information

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

Site Address: 101 Mulford Road, TOLEDO, WA

Chevron PM: MHO
Lead Consultant: LEIDOSRS
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: J. PAYNE

2 Sample Identification

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Oil	Sediment	Potable	NPDES	Ground	Surface	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	Nitrate/Sulfate	Diss. Iron/Manganese	Sulfide/Methane	Alkalinity
RA	2.10.14		X			X								2	X					X											
MW-115	↓	1301	X			X								9	X					X	X	X			X						
MW-116		1202	X			X								16	X					X	X	X			X	X	X	X	X	X	X
MW-117		1012	X			X								16	X					X	X	X			X	X	X	X	X	X	X
MW-118		1110	X			X								9	X					X	X	X			X						
MW-120		0923	X			X								9	X					X	X	X			X						

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.

7 Turnaround Time Requested (TAT) (please circle)

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

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

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

9

Relinquished by	Date	Time	Received by	Date	Time
	2.10.14	1700			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ✓ FedEx _____ Other _____			Received by	Date	Time

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

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

Chevron Northwest Region Analysis Request/Chain of Custody

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

SCR #: _____

1 Client Information

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

Site Address 101 Mulford Road, TOLEDO, WA

Chevron PM MHO Lead Consultant LEIDOSRS 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 J. PAYNE

4 Matrix

Soil ☐ Water ☒ Oil ☐ Sediment ☐ Potable ☐ NPDES ☐ Grnd ☒ Surface ☐ Air ☐

3

Grab / Composite

5 Analyses Requested

2 Sample Identification	Collected Date	Collected Time	Grab	Composite	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
QA.	2.11.14		X		2	X			X				
MW-109	↓	1005	X		9	X			X	X	X		X
MW-114	↓	1051	X		9	X			X	X	X		X

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.

7 Turnaround Time Requested (TAT) (please circle)

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

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
	2.11.14	~~1450~~	1530		
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ✓ FedEx ____ Other ____			Received by	Date	Time

9

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

GETTLER-RYAN INC.

TRANSMITTAL

February 21, 2014
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 **Treated Purge Water Event of February 4, 5, 6, 10, & 11, 2014**

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #211556** Job Number: **386773**

Site Address: **101 Mulford Road** Event Date: 2.11.14 (inclusive)

City: **Toledo, WA** Sampler: J.P

Well ID **TPWHD-1** Date Monitored: 2.11.14

Well Diameter -- in.

Total Depth -- ft.

Depth to Water -- 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.

____ 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	
Suction Pump	X
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other: EFF.	

Sampling Equipment:

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

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: ____ al
Amt Removed from Well: ____ gal
Water Removed: ____ gal
Product Transferred to: ____

Start Time (purge): 1123 Weather Conditions: Rain

Sample Time/Date: 1148 / 2.11.14 Water Color: CLEAR Odor: Y / (N)

Approx. Flow Rate: ____ gpm. Sediment Description: NONE

Did well de-water? ____ If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: ____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

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

COMMENTS: ____

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.

SCR #: _____

(1) Client Information

Facility # SS#211556-OML WBS G-R#386773
Site Address 101 Mulford Road, TOLEDO, WA
Chevron PM MHO Lead Consultant LEIDOSRS 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 J. PAYNE

(4) Matrix

Soil ☐ Water ☒ Oil ☐ Sediment ☐ Potable ☐ Grnd ☒ NPDES ☐ Surface ☐ Air ☐

(5) Analyses Requested

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	(3) Composite	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
TPWHD-1	2.1.14	1148	X		9	X			X	X	X		X

(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.

- ☐ 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

(7) Turnaround Time Requested (TAT) (please circle)

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

(8) Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)

CVX-RTBU-FI_05 (default)
Other: _____

(9)

Relinquished by	Date	Time	Received by	Date	Time
[signature]	2.1.14	~~1430~~	[signature]		
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Commercial Carrier: UPS ✓ FedEx ____ Other ____			Received by	Date	Time

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

February 19, 2014

Project: 211556

Submittal Date: 02/06/2014
Group Number: 1450644
PO Number: 0015119898
Release Number: HOPKINS/HORNE
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
QA NA Water	7355985
B-1 Grab Groundwater	7355986
B-1 Filtered Grab Groundwater	7355987
B-1 Filtered Grab Groundwater	7355988
B-2 Grab Groundwater	7355989
B-2 Filtered Grab Groundwater	7355990
B-2 Filtered Grab Groundwater	7355991
B-3 Grab Groundwater	7355992
B-3 Filtered Grab Groundwater	7355993
B-3 Filtered Grab Groundwater	7355994
B-4 Grab Groundwater	7355995
B-4 Filtered Grab Groundwater	7355996
B-4 Filtered Grab Groundwater	7355997
MW-111 Grab Groundwater	7355998
MW-111 Filtered Grab Groundwater	7355999
MW-111 Filtered Grab Groundwater	7356000

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

ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan
ELECTRONIC COPY TO	SAIC	Attn: Jamalyn Green
ELECTRONIC COPY TO	SAIC	Attn: Russ Shropshire

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 7355985
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140421AA	02/11/2014 10:14	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140421AA	02/11/2014 10:14	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 12:46	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 12:46	Marie D Beamenderfer	1

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

LL Sample # WW 7355986
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 10:33 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWB1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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 Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	5.2	3.0	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%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	660	250	5
00228	Sulfate	14808-79-8	4,400	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	76,900	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140411AA	02/10/2014 13:35	Daniel H Heller	1

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

LL Sample # WW 7355986
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 10:33 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWB1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140411AA	02/10/2014 13:35	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 13:39	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 13:39	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140410004A	02/10/2014 14:53	Elizabeth J Marin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 13:36	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/14/2014 15:44	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14037987601A	02/06/2014 15:29	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	14037987601A	02/06/2014 15:29	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003104A	02/11/2014 23:35	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14038023001A	02/07/2014 10:30	Michele L Graham	1

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

LL Sample # WW 7355987
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 10:33 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	65.2	43.0	1
07058	Manganese	7439-96-5	221	0.83	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
01754	Iron	SW-846 6010B	1	140381848003	02/11/2014 04:03	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	140381848003	02/11/2014 04:03	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140381848003	02/10/2014 12:02	James L Mertz	1

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

LL Sample # WW 7355988
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 10:33 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140386050001A	02/12/2014 18:06	Parker D Lindstrom	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140386050001	02/10/2014 12:23	James L Mertz	1

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

LL Sample # WW 7355989
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 09:25 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWB2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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 Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	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%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	1,000	250	5
00228	Sulfate	14808-79-8	3,400	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	75,300	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140411AA	02/10/2014 14:44	Daniel H Heller	1

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

LL Sample # WW 7355989
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 09:25 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWB2

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140411AA	02/10/2014 14:44	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 14:06	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 14:06	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140410004A	02/10/2014 15:11	Elizabeth J Marin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 13:59	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/14/2014 16:06	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14037987601A	02/06/2014 16:17	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	14037987601A	02/06/2014 16:17	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003104A	02/12/2014 00:54	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14038023001A	02/07/2014 10:30	Michele L Graham	1

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

LL Sample # WW 7355990
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 09:25 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	43.0	1
07058	Manganese	7439-96-5	34.3	0.83	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
01754	Iron	SW-846 6010B	1	140381848003	02/11/2014 04:07	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	140381848003	02/11/2014 04:07	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140381848003	02/10/2014 12:02	James L Mertz	1

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

LL Sample # WW 7355991
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 09:25 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140386050001A	02/12/2014 18:07	Parker D Lindstrom	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140386050001	02/10/2014 12:23	James L Mertz	1

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

LL Sample # WW 7355992
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 13:10 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWB3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	2	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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.	480	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	96	3.0	1
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	730	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.	36	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	67	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	21,100	500	10
00228	Sulfate	14808-79-8	6,900	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	83,200	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140411AA	02/10/2014 15:07	Daniel H Heller	1

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

LL Sample # WW 7355992
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 13:10 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWB3

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140411AA	02/10/2014 15:07	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 14:33	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 14:33	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140410004A	02/10/2014 15:29	Elizabeth J Marin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 16:15	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/19/2014 09:21	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14037987601A	02/07/2014 12:27	Sandra J Miller	10
00228	Sulfate	EPA 300.0	1	14037987601A	02/06/2014 16:33	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003104A	02/12/2014 00:11	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14038023001A	02/07/2014 10:30	Michele L Graham	1

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

LL Sample # WW 7355993
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 13:10 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	2,440	43.0	1
07058	Manganese	7439-96-5	3,890	0.83	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
01754	Iron	SW-846 6010B	1	140381848003	02/11/2014 04:11	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	140381848003	02/11/2014 04:11	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140381848003	02/10/2014 12:02	James L Mertz	1

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

LL Sample # WW 7355994
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 13:10 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	7.4	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140386050001A	02/12/2014 18:09	Parker D Lindstrom	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140386050001	02/10/2014 12:23	James L Mertz	1

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

LL Sample # WW 7355995
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 11:24 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWB4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	3	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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.	1,800	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	1,100	15	5
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	170	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.	140	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	N.D.	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	119,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	Z140421AA	02/11/2014 19:28	Daniel H Heller	1

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

LL Sample # WW 7355995
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 11:24 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTWB4

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z140421AA	02/11/2014 19:28	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 15:00	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 15:00	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140410004A	02/10/2014 19:00	Elizabeth J Marin	5
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 16:37	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/18/2014 10:49	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14037987601A	02/06/2014 16:49	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	14037987601A	02/06/2014 16:49	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003103A	02/11/2014 21:04	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14038023001A	02/07/2014 10:30	Michele L Graham	1

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

LL Sample # WW 7355996
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 11:24 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	11,400	43.0	1
07058	Manganese	7439-96-5	2,480	0.83	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
01754	Iron	SW-846 6010B	1	140381848003	02/11/2014 04:15	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	140381848003	02/11/2014 04:15	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140381848003	02/10/2014 12:02	James L Mertz	1

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

LL Sample # WW 7355997
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 11:24 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	2.4	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140386050001A	02/12/2014 18:11	Parker D Lindstrom	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140386050001	02/10/2014 12:23	James L Mertz	1

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

LL Sample # WW 7355998
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 12:16 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTW11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	1	0.5	1
10943	Ethylbenzene	100-41-4	75	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	7	0.5	1
GC Volatiles	**ECY 97-602 NWTPH-Gx**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	4,800	50	1
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	4,700	60	20
GC Petroleum Hydrocarbons	**ECY 97-602 NWTPH-Dx modified**		**ug/l**	**ug/l**	
08271	Diesel Range Organics C12-C24	n.a.	1,000	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.	410	29	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	68	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	N.D.	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	181,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140411AA	02/10/2014 15:53	Daniel H Heller	1

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

LL Sample # WW 7355998
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 12:16 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MTW11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140411AA	02/10/2014 15:53	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 15:27	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 15:27	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140410004A	02/10/2014 19:17	Elizabeth J Marin	20
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 17:17	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/18/2014 11:11	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14037987601A	02/06/2014 17:06	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	14037987601A	02/06/2014 17:06	Clinton M Wilson	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003103A	02/11/2014 20:43	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14038023001A	02/07/2014 10:30	Michele L Graham	1

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

LL Sample # WW 7355999
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 12:16 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	9,100	43.0	1
07058	Manganese	7439-96-5	4,750	0.83	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
01754	Iron	SW-846 6010B	1	140431848002	02/13/2014 03:31	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	140431848002	02/13/2014 03:31	Tara L Snyder	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140431848002	02/12/2014 18:00	Annamaria Kuhns	1

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

LL Sample # WW 7356000
LL Group # 1450644
Account # 11260

Project Name: 211556

Collected: 02/05/2014 12:16 by JP

Submitted: 02/06/2014 09:15
Reported: 02/19/2014 13:20

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	27.3	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140386050001A	02/12/2014 18:13	Parker D Lindstrom	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140386050001	02/10/2014 12:23	James L Mertz	1

Quality Control Summary

Client Name: Chevron Group Number: 1450644
Reported: 02/19/14 at 01:20 PM

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D140411AA	Sample number(s): 7355986,7355989,7355992,7355998							
Benzene	N.D.	0.5	ug/l	116		78-120		
Ethylbenzene	N.D.	0.5	ug/l	106		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	119		75-120		
Toluene	N.D.	0.5	ug/l	110		80-120		
Xylene (Total)	N.D.	0.5	ug/l	109		80-120		
Batch number: F140421AA	Sample number(s): 7355985							
Benzene	N.D.	0.5	ug/l	93		78-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		75-120		
Toluene	N.D.	0.5	ug/l	92		80-120		
Xylene (Total)	N.D.	0.5	ug/l	97		80-120		
Batch number: Z140421AA	Sample number(s): 7355995							
Benzene	N.D.	0.5	ug/l	96	97	78-120	1	30
Ethylbenzene	N.D.	0.5	ug/l	93	93	79-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	90	92	75-120	3	30
Toluene	N.D.	0.5	ug/l	101	101	80-120	1	30
Xylene (Total)	N.D.	0.5	ug/l	98	97	80-120	1	30
Batch number: 14041A53A	Sample number(s): 7355985-7355986,7355989,7355992,7355995,7355998							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	104	105	75-135	2	30
Batch number: 140410004A	Sample number(s): 7355986,7355989,7355992,7355995,7355998							
Methane	N.D.	3.0	ug/l	99		80-120		
Batch number: 140410020A	Sample number(s): 7355986,7355989,7355992,7355995,7355998							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	73	73	50-113	1	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 140410021A	Sample number(s): 7355986,7355989,7355992,7355995,7355998							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	79	69	32-117	14	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 140381848003	Sample number(s): 7355987,7355990,7355993,7355996							
Iron	N.D.	43.0	ug/l	103		90-112		
Manganese	N.D.	0.83	ug/l	105		90-110		
Batch number: 140386050001A	Sample number(s): 7355988,7355991,7355994,7355997,7356000							
Lead	N.D.	0.085	ug/l	102		90-110		
Batch number: 140431848002	Sample number(s): 7355999							
Iron	N.D.	43.0	ug/l	101		90-112		

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

Quality Control Summary

Client Name: Chevron Group Number: 1450644
Reported: 02/19/14 at 01:20 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	N.D.	0.83	ug/l	103		90-110		
Batch number: 14037987601A	Sample number(s): 7355986,7355989,7355992,7355995,7355998							
Nitrate Nitrogen	N.D.	50.	ug/l	102		90-110		
Sulfate	N.D.	300.	ug/l	99		90-110		
Batch number: 14038023001A	Sample number(s): 7355986,7355989,7355992,7355995,7355998							
Sulfide	N.D.	54.	ug/l	99		90-110		
Batch number: 14042003103A	Sample number(s): 7355995,7355998							
Total Alkalinity	N.D.	700.	ug/l as CaCO3	97		90-110		
Batch number: 14042003104A	Sample number(s): 7355986,7355989,7355992							
Total Alkalinity	1,200	700.	ug/l as CaCO3	97		90-110		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D140411AA	Sample number(s): 7355986,7355989,7355992,7355998 UNSPK: 7355986								
Benzene	119	114	72-134	4	30				
Ethylbenzene	105	105	71-134	0	30				
Methyl Tertiary Butyl Ether	105	121	72-126	14	30				
Toluene	100	118	80-125	17	30				
Xylene (Total)	112	107	79-125	4	30				
Batch number: F140421AA	Sample number(s): 7355985 UNSPK: P357317								
Benzene	101	98	72-134	3	30				
Ethylbenzene	98	98	71-134	0	30				
Methyl Tertiary Butyl Ether	96	91	72-126	5	30				
Toluene	99	100	80-125	0	30				
Xylene (Total)	104	103	79-125	1	30				
Batch number: 140410004A	Sample number(s): 7355986,7355989,7355992,7355995,7355998 UNSPK: P354805								
Methane	111	77	35-157	8	20				
Batch number: 140381848003	Sample number(s): 7355987,7355990,7355993,7355996 UNSPK: P354281 BKG: P354281								
Iron	554*	513*	75-125	6	20	1,380	5,900	124*	20
Manganese	104	102	75-125	2	20	38.8	44.1	13	20
Batch number: 140386050001A	Sample number(s): 7355988,7355991,7355994,7355997,7356000 UNSPK: P354264 BKG: P354264								
Lead	94	99	89-120	4	20	6.2	4.9	24* (1)	20
Batch number: 140431848002	Sample number(s): 7355999 UNSPK: P361047 BKG: P361047								
Iron	100	109	75-125	4	20	1,140	1,130	1	20
Manganese	101	103	75-125	2	20	24.8	25.5	3 (1)	20

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

Quality Control Summary

Client Name: Chevron Group Number: 1450644
Reported: 02/19/14 at 01:20 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 14037987601A	Sample number(s): 7355986,7355989,7355992,7355995,7355998 UNSPK: 7355986 BKG: 7355986								
Nitrate Nitrogen	95		90-110			660	650	1 (1)	20
Sulfate	94		90-110			4,400	4,400	1 (1)	20
Batch number: 14038023001A	Sample number(s): 7355986,7355989,7355992,7355995,7355998 UNSPK: 7355986 BKG: 7355986								
Sulfide	74	79	42-131	7	16	N.D.	N.D.	0 (1)	5
Batch number: 14042003103A	Sample number(s): 7355995,7355998 UNSPK: P356778 BKG: P356778								
Total Alkalinity	46		10-159			663,000	658,000	1	5
Batch number: 14042003104A	Sample number(s): 7355986,7355989,7355992 UNSPK: P357325 BKG: P357325								
Total Alkalinity	94		10-159			33,200	34,000	2	5

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: D140411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7355986	106	106	102	98
7355989	100	98	99	100
7355992	110	109	88	113
7355998	105	105	99	101
Blank	102	100	94	99
LCS	105	103	101	102
MS	99	106	90	112
MSD	105	106	105	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F140421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7355985	107	100	94	94
Blank	108	97	97	94
LCS	107	102	96	94
MS	106	108	95	94
MSD	107	100	96	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: Z140421AA

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

Quality Control Summary

Client Name: Chevron Group Number: 1450644
Reported: 02/19/14 at 01:20 PM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7355995	98	95	101	96
Blank	106	102	99	89
LCS	104	100	98	99
LCSD	104	100	97	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14041A53A

	Trifluorotoluene-F
7355985	69
7355986	68
7355989	71
7355992	73
7355995	102
7355998	100
Blank	69
LCS	75
LCSD	76
Limits:	63-135

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 140410004A

	Propene
7355986	76
7355989	73
7355992	75
7355995	82
7355998	94
Blank	93
LCS	95
MS	81
MSD	76
Limits:	42-131

Analysis Name: NWTPH-Dx water
Batch number: 140410020A

	Orthoterphenyl
7355986	98
7355989	93
7355992	96
7355995	90
7355998	92
Blank	100
LCS	97
LCSD	97
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.

Quality Control Summary

Client Name: Chevron Group Number: 1450644
Reported: 02/19/14 at 01:20 PM

Surrogate Quality Control

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 140410021A

	Orthoterphenyl
7355986	100
7355989	81
7355992	89
7355995	100
7355998	119
Blank	52
LCS	99
LCSD	84
Limits:	50-150

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

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # 11260 Group # 1450644 Sample # 7355985-6000
Instructions on reverse side correspond with circled numbers.

SCR #: _____

(1) Client Information

Facility # SS#211556-OML G-R#386773 WBS
Site Address 101 Mulford Road, TOLEDO, WA
Chevron PM MHO Lead Consultant LEIDOSRS 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 J. PAYNE

(4) Matrix

Soil ☐ Water ☑ Sediment ☐ Potable ☐ Grnd ☐ NPDES ☐ Surface ☐ Oil ☐ Air ☐

(5) Analyses Requested

(2) Sample Identification	Collected Date	Collected Time	(3) Grab	Composite	Total Number of Containers	BTEX + MTBE	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	Nitrate / Sulfate	Dissolved Iron / Manganese	Sulfide / Methane	Alkalinity
QA	2.5.14		X		7	X			X											
B.1		1033	X		16	X			X	X	X			X		X	X	X	X	X
B.2		0925	X		16	X			X	X	X			X		X	X	X	X	X
B.3		1310	X		16	X			X	X	X			X		X	X	X	X	X
B.4		1124	X		16	X			X	X	X			X		X	X	X	X	X
MW-111		1216	X		16	X			X	X	X			X		X	X	X	X	X

☐ 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, [redacted], 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

(7) Turnaround Time Requested (TAT) (please circle)

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

(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
	2.5.14	1700			

Relinquished by Commercial Carrier: UPS ✓ FedEx _____ Other _____

Temperature Upon Receipt 1.3-1.5 °C

Received by _____ Date 2/6/14 Time 0915

Custody Seals Intact? Yes No

(9)

eurofins | Lancaster Laboratories Environmental

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 - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC 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.

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

February 19, 2014

Project: 211556

Submittal Date: 02/07/2014
Group Number: 1450998
PO Number: 0015119898
Release Number: HOPKINS/HORNE
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
QA NA Water	7357316
MW-103 Grab Groundwater	7357317
MW-103 Filtered Grab Groundwater	7357318
MW-103 Filtered Grab Groundwater	7357319
MW-110 Grab Groundwater	7357320
MW-110 Filtered Grab Groundwater	7357321
MW-112 Grab Groundwater	7357322
MW-112 Filtered Grab Groundwater	7357323
MW-112 Filtered Grab Groundwater	7357324
MW-113 Grab Groundwater	7357325
MW-113 Filtered Grab Groundwater	7357326
MW-113 Filtered Grab Groundwater	7357327
MW-119 Grab Groundwater	7357328
MW-119 Filtered Grab Groundwater	7357329
MW-119 Filtered Grab Groundwater	7357330

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

ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan
ELECTRONIC COPY TO	SAIC	Attn: Jamalyn Green
ELECTRONIC COPY TO	SAIC	Attn: Russ Shropshire

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 7357316
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT-Q

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140421AA	02/11/2014 10:36	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140421AA	02/11/2014 10:36	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 13:13	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 13:13	Marie D Beamenderfer	1

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

LL Sample # WW 7357317
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 10:31 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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 Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	6.5	3.0	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%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	N.D.	250	5
00228	Sulfate	14808-79-8	2,800	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	113,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140421AA	02/11/2014 10:57	Anita M Dale	1

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

LL Sample # WW 7357317
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 10:31 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140421AA	02/11/2014 10:57	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 16:20	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 16:20	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140420002A	02/11/2014 14:48	Nicholas R Rossi	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 14:21	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/14/2014 17:37	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14038987601A	02/07/2014 18:06	Sandra J Miller	5
00228	Sulfate	EPA 300.0	1	14038987601A	02/07/2014 18:06	Sandra J Miller	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003103A	02/11/2014 21:31	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14042023001A	02/11/2014 07:55	Susan E Hibner	1

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

LL Sample # WW 7357318
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 10:31 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	43.0	1
07058	Manganese	7439-96-5	111	0.83	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
01754	Iron	SW-846 6010B	1	140421848002	02/12/2014 19:25	Katlin N Cataldi	1
07058	Manganese	SW-846 6010B	1	140421848002	02/12/2014 19:25	Katlin N Cataldi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140421848002	02/12/2014 13:08	James L Mertz	1

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

LL Sample # WW 7357319
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 10:31 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.11	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140446050001A	02/17/2014 20:00	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140446050001	02/16/2014 10:12	James L Mertz	1

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

LL Sample # WW 7357320
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 09:31 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140421AA	02/11/2014 12:47	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140421AA	02/11/2014 12:47	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 16:47	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 16:47	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 14:44	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/14/2014 18:00	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1

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

LL Sample # WW 7357321
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 09:31 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.16	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140446050001A	02/17/2014 20:02	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140446050001	02/16/2014 10:12	James L Mertz	1

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

LL Sample # WW 7357322
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 13:07 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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 Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	100	3.0	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%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	370	250	5
00228	Sulfate	14808-79-8	2,500	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	110,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140421AA	02/11/2014 13:09	Anita M Dale	1

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

LL Sample # WW 7357322
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 13:07 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140421AA	02/11/2014 13:09	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14041A53A	02/11/2014 17:14	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14041A53A	02/11/2014 17:14	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140420002A	02/11/2014 15:06	Nicholas R Rossi	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 15:07	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/19/2014 09:45	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14038987601A	02/07/2014 18:22	Sandra J Miller	5
00228	Sulfate	EPA 300.0	1	14038987601A	02/07/2014 18:22	Sandra J Miller	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003103B	02/11/2014 20:30	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14042023001A	02/11/2014 07:55	Susan E Hibner	1

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

LL Sample # WW 7357323
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 13:07 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	1,730	43.0	1
07058	Manganese	7439-96-5	1,750	0.83	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
01754	Iron	SW-846 6010B	1	140421848002	02/12/2014 19:29	Katlin N Cataldi	1
07058	Manganese	SW-846 6010B	1	140421848002	02/12/2014 19:29	Katlin N Cataldi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140421848002	02/12/2014 13:08	James L Mertz	1

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

LL Sample # WW 7357324
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 13:07 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.38	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140446050001A	02/17/2014 20:03	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140446050001	02/16/2014 10:12	James L Mertz	1

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

LL Sample # WW 7357325
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 14:02 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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 Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	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.	69	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.	69	1
	The reverse surrogate, capric acid, is present at <1%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	440	250	5
00228	Sulfate	14808-79-8	2,900	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	33,200	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140421AA	02/11/2014 13:31	Anita M Dale	1

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

LL Sample # WW 7357325
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 14:02 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140421AA	02/11/2014 13:31	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14045A53A	02/14/2014 12:34	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14045A53A	02/14/2014 12:34	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140420002A	02/11/2014 15:23	Nicholas R Rossi	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 15:29	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/14/2014 18:46	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14038987601A	02/07/2014 18:38	Sandra J Miller	5
00228	Sulfate	EPA 300.0	1	14038987601A	02/07/2014 18:38	Sandra J Miller	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003104A	02/11/2014 22:50	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14042023001A	02/11/2014 07:55	Susan E Hibner	1

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

LL Sample # WW 7357326
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 14:02 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	43.0	1
07058	Manganese	7439-96-5	4.6	0.83	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
01754	Iron	SW-846 6010B	1	140421848002	02/12/2014 19:32	Katlin N Cataldi	1
07058	Manganese	SW-846 6010B	1	140421848002	02/12/2014 19:32	Katlin N Cataldi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140421848002	02/12/2014 13:08	James L Mertz	1

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

LL Sample # WW 7357327
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 14:02 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140436050002A	02/17/2014 22:17	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140436050002	02/12/2014 18:30	Annamaria Kuhns	1

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

LL Sample # WW 7357328
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 12:14 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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 Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	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%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	490	250	5
00228	Sulfate	14808-79-8	3,500	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	72,800	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140421AA	02/11/2014 13:52	Anita M Dale	1

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

LL Sample # WW 7357328
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 12:14 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRT19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140421AA	02/11/2014 13:52	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14045A53A	02/14/2014 13:01	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14045A53A	02/14/2014 13:01	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140420002A	02/11/2014 15:41	Nicholas R Rossi	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140410020A	02/12/2014 15:52	Christine E Dolman	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140410021A	02/14/2014 19:08	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140410021A	02/11/2014 11:30	Kelli M Barto	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140410020A	02/11/2014 11:30	Kelli M Barto	1
00368	Nitrate Nitrogen	EPA 300.0	1	14038987601A	02/07/2014 18:55	Sandra J Miller	5
00228	Sulfate	EPA 300.0	1	14038987601A	02/07/2014 18:55	Sandra J Miller	5
12150	Total Alkalinity	SM 2320 B-1997	1	14042003103A	02/11/2014 22:22	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14042023001A	02/11/2014 07:55	Susan E Hibner	1

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

LL Sample # WW 7357329
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 12:14 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	43.0	1
07058	Manganese	7439-96-5	38.4	0.83	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
01754	Iron	SW-846 6010B	1	140421848002	02/12/2014 19:36	Katlin N Cataldi	1
07058	Manganese	SW-846 6010B	1	140421848002	02/12/2014 19:36	Katlin N Cataldi	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140421848002	02/12/2014 13:08	James L Mertz	1

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

LL Sample # WW 7357330
LL Group # 1450998
Account # 11260

Project Name: 211556

Collected: 02/06/2014 12:14 by JP

Submitted: 02/07/2014 09:20
Reported: 02/19/2014 13:21

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.16	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140436050002A	02/17/2014 21:36	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140436050002	02/12/2014 18:30	Annamaria Kuhns	1

Quality Control Summary

Client Name: Chevron Group Number: 1450998
Reported: 02/19/14 at 01:21 PM

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F140421AA	Sample number(s): 7357316-7357317,7357320,7357322,7357325,7357328							
Benzene	N.D.	0.5	ug/l	93		78-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		75-120		
Toluene	N.D.	0.5	ug/l	92		80-120		
Xylene (Total)	N.D.	0.5	ug/l	97		80-120		
Batch number: 14041A53A	Sample number(s): 7357316-7357317,7357320,7357322							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	104	105	75-135	2	30
Batch number: 14045A53A	Sample number(s): 7357325,7357328							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	109	111	75-135	2	30
Batch number: 140420002A	Sample number(s): 7357317,7357322,7357325,7357328							
Methane	N.D.	3.0	ug/l	100		80-120		
Batch number: 140410020A	Sample number(s): 7357317,7357320,7357322,7357325,7357328							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	73	73	50-113	1	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 140410021A	Sample number(s): 7357317,7357320,7357322,7357325,7357328							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	79	69	32-117	14	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 140421848002	Sample number(s): 7357318,7357323,7357326,7357329							
Iron	N.D.	43.0	ug/l	102		90-112		
Manganese	N.D.	0.83	ug/l	103		90-110		
Batch number: 140436050002A	Sample number(s): 7357327,7357330							
Lead	N.D.	0.085	ug/l	102		90-110		
Batch number: 140446050001A	Sample number(s): 7357319,7357321,7357324							
Lead	N.D.	0.085	ug/l	107		90-110		
Batch number: 14038987601A	Sample number(s): 7357317,7357322,7357325,7357328							
Nitrate Nitrogen	N.D.	50.	ug/l	101	101	90-110	0	20
Sulfate	N.D.	300.	ug/l	97	100	90-110	3	20
Batch number: 14042003103A	Sample number(s): 7357317,7357328							
Total Alkalinity	N.D.	700.	ug/l as CaCO3	97		90-110		
Batch number: 14042003103B	Sample number(s): 7357322							
Total Alkalinity	N.D.	700.	ug/l as	97		90-110		

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

Quality Control Summary

Client Name: Chevron Group Number: 1450998
Reported: 02/19/14 at 01:21 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
			CaCO3					
Batch number: 14042003104A	Sample number(s): 7357325							
Total Alkalinity	1,200	700.	ug/l as CaCO3	97		90-110		
Batch number: 14042023001A	Sample number(s): 7357317,7357322,7357325,7357328							
Sulfide	N.D.	54.	ug/l	102		90-110		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F140421AA	Sample number(s): 7357316-7357317,7357320,7357322,7357325,7357328 UNSPK: 7357317								
Benzene	101	98	72-134	3	30				
Ethylbenzene	98	98	71-134	0	30				
Methyl Tertiary Butyl Ether	96	91	72-126	5	30				
Toluene	99	100	80-125	0	30				
Xylene (Total)	104	103	79-125	1	30				
Batch number: 140420002A	Sample number(s): 7357317,7357322,7357325,7357328 UNSPK: P356182								
Methane	-10346 (2)	-8482 (2)	35-157	11	20				
Batch number: 140421848002	Sample number(s): 7357318,7357323,7357326,7357329 UNSPK: P358108 BKG: P358108								
Iron	137*	148*	75-125	6	20	591	846	36* (1)	20
Manganese	117	127*	75-125	5	20	262	331	23*	20
Batch number: 140436050002A	Sample number(s): 7357327,7357330 UNSPK: P360395 BKG: P360395								
Lead	100	99	89-120	1	20	0.59	0.64	8 (1)	20
Batch number: 140446050001A	Sample number(s): 7357319,7357321,7357324 UNSPK: P361408 BKG: P361408								
Lead	106	106	89-120	0	20	0.61	0.67	9 (1)	20
Batch number: 14038987601A	Sample number(s): 7357317,7357322,7357325,7357328 UNSPK: P356855 BKG: P356855								
Nitrate Nitrogen	114*		90-110			N.D.	N.D.	0 (1)	20
Sulfate	112*		90-110			57,300	59,100	3	20
Batch number: 14042003103A	Sample number(s): 7357317,7357328 UNSPK: P356778 BKG: P356778								
Total Alkalinity	46		10-159			663,000	658,000	1	5
Batch number: 14042003103B	Sample number(s): 7357322 UNSPK: P356778 BKG: 7357322								
Total Alkalinity	46		10-159			110,000	111,000	1	5
Batch number: 14042003104A	Sample number(s): 7357325 UNSPK: 7357325 BKG: 7357325								
Total Alkalinity	94		10-159			33,200	34,000	2	5
Batch number: 14042023001A	Sample number(s): 7357317,7357322,7357325,7357328 UNSPK: P357795 BKG: P357795								
Sulfide	101	108	42-131	6	16	N.D.	N.D.	0 (1)	5

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

Quality Control Summary

Client Name: Chevron Group Number: 1450998
Reported: 02/19/14 at 01:21 PM

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: UST VOCs by 8260B - Water
Batch number: F140421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7357316	108	99	96	93
7357317	108	100	96	94
7357320	108	103	95	93
7357322	107	97	95	94
7357325	111	97	97	95
7357328	106	101	97	96
Blank	108	97	97	94
LCS	107	102	96	94
MS	106	108	95	94
MSD	107	100	96	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14041A53A

	Trifluorotoluene-F
7357316	68
7357317	68
7357320	68
7357322	73
Blank	69
LCS	75
LCSD	76
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14045A53A

	Trifluorotoluene-F
7357325	71
7357328	71
Blank	71
LCS	77
LCSD	78
Limits:	63-135

Analysis Name: NWTPH-Dx water
Batch number: 140410020A

	Orthoterphenyl
7357317	97
7357320	92
7357322	94

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

Quality Control Summary

Client Name: Chevron
Group Number: 1450998
Reported: 02/19/14 at 01:21 PM

Surrogate Quality Control

7357325	87
7357328	97
Blank	100
LCS	97
LCSD	97

Limits: 50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 140410021A

Orthoterphenyl

7357317	75
7357320	75
7357322	96
7357325	104
7357328	78
Blank	52
LCS	99
LCSD	84

Limits: 50-150

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 140420002A

Propene

7357317	71
7357322	77
7357325	73
7357328	77
Blank	93
LCS	93
MS	60
MSD	67

Limits: 42-131

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

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11260 For Eurofins Lancaster Laboratories use only Group # 1450998 Sample # 7357316-30

Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

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

Site Address: 101 Mulford Road, TOLEDO, WA

Chevron PM: MHO Lead Consultant: LEIDOSRS

Consultant/Office: Russell Shropshire — 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: J. Payne

2 Sample Identification

3 Grab / Composite

4 Matrix: Soil, Sediment, Water, Potable, Ground, NPDES, Surface, Oil, Air

5 Analyses Requested

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; Nitrate / Sulfate 300.0; Diss. Iron / Manganese; Sulfide / Methane; Alkalinity

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Sediment	Water	Potable	Ground	NPDES	Surface	Oil	Air	Total Number of Containers	BTEX + MTBE 8021	BTEX + MTBE 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	Lead Diss.	Method 6020	Nitrate / Sulfate 300.0	Diss. Iron / Manganese	Sulfide / Methane	Alkalinity
QA	2.6.14		X				X							2	X					X										
MW-103	2.6.14	1031	X				X							16	X					X	X	X			X		X	X	X	X
MW-110		0931	X				X							9	X					X	X	X			X					
MW-112		1307	X				X							16	X					X	X	X			X		X	X	X	X
MW-113		1402	X				X							16	X					X	X	X			X		X	X	X	X
MW-119		1214	X				X							16	X					X	X	X			X		X	X	X	X

6 Remarks

Please report results for Dx with & without sgc. Dissolved Iron, [redacted], 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

- ☐ 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

7 Turnaround Time Requested (TAT) (please circle)

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

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
	2.6.14	1700			

9

Relinquished by Commercial Carrier: UPS ✓ FedEx _____ Other _____

Received by: _____ Date: 2/7/14 Time: 0920

Temperature Upon Receipt 0.4-0.5 °C

Custody Seals Intact? Yes No

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 - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC 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.

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

February 20, 2014

Project: 211556

Submittal Date: 02/11/2014
Group Number: 1451708
PO Number: 0015119898
Release Number: HOPKINS/HORNE
State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
QA NA Water	7360245
MW-115 Grab Groundwater	7360246
MW-115 Filtered Grab Groundwater	7360247
MW-116 Grab Groundwater	7360248
MW-116 Filtered Grab Groundwater	7360249
MW-116 Filtered Grab Groundwater	7360250
MW-117 Grab Groundwater	7360251
MW-117 Filtered Grab Groundwater	7360252
MW-117 Filtered Grab Groundwater	7360253
MW-118 Grab Groundwater	7360254
MW-118 Filtered Grab Groundwater	7360255
MW-120 Grab Groundwater	7360256
MW-120 Filtered Grab Groundwater	7360257

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

ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan
ELECTRONIC COPY TO	SAIC	Attn: Jamalyn Green
ELECTRONIC COPY TO	SAIC	Attn: Russ Shropshire

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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

LL Sample # WW 7360245
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT-QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140491AA	02/18/2014 13:03	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140491AA	02/18/2014 13:03	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14045A53A	02/14/2014 12:07	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14045A53A	02/14/2014 12:07	Marie D Beamenderfer	1

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

LL Sample # WW 7360246
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 13:01 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT115

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140491AA	02/18/2014 19:13	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140491AA	02/18/2014 19:13	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14045A53A	02/14/2014 13:28	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14045A53A	02/14/2014 13:28	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140430020A	02/15/2014 00:26	Glorines Suarez-Rivera	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140430021A	02/17/2014 14:07	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140430021A	02/12/2014 21:00	Karen L Beyer	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140430020A	02/12/2014 21:00	Karen L Beyer	1

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

LL Sample # WW 7360247
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 13:01 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.43	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140436050002A	02/17/2014 22:09	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140436050002	02/12/2014 18:30	Annamaria Kuhns	1

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

LL Sample # WW 7360248
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 12:02 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT116

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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 Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	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%.					
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	630	250	5
00228	Sulfate	14808-79-8	3,700	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	38,000	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140491AA	02/18/2014 19:36	Daniel H Heller	1

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

LL Sample # WW 7360248
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 12:02 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT116

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140491AA	02/18/2014 19:36	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14045A53A	02/14/2014 13:55	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14045A53A	02/14/2014 13:55	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140480001A	02/17/2014 11:46	Elizabeth J Marin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140430020A	02/14/2014 23:41	Glorines Suarez-Rivera	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140430021A	02/17/2014 14:29	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140430021A	02/12/2014 21:00	Karen L Beyer	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140430020A	02/12/2014 21:00	Karen L Beyer	1
00368	Nitrate Nitrogen	EPA 300.0	1	14043347601A	02/12/2014 06:49	Sandra J Miller	5
00228	Sulfate	EPA 300.0	1	14043347601A	02/12/2014 06:49	Sandra J Miller	5
12150	Total Alkalinity	SM 2320 B-1997	1	14048002202A	02/17/2014 18:10	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14043023001A	02/12/2014 08:05	Susan E Hibner	1

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

LL Sample # WW 7360249
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 12:02 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	43.0	1
07058	Manganese	7439-96-5	5.4	0.83	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
01754	Iron	SW-846 6010B	1	140431848006	02/14/2014 12:38	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	140431848006	02/14/2014 12:38	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140431848006	02/13/2014 08:00	James L Mertz	1

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

LL Sample # WW 7360250
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 12:02 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140436050002A	02/17/2014 22:11	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140436050002	02/12/2014 18:30	Annamaria Kuhns	1

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

LL Sample # WW 7360251
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 10:12 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT117

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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 Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	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%.				
Wet Chemistry	**EPA 300.0**		**ug/l**	**ug/l**	
00368	Nitrate Nitrogen	14797-55-8	440	250	5
00228	Sulfate	14808-79-8	6,500	1,500	5
	SM 2320 B-1997		**ug/l as CaCO3**	**ug/l as CaCO3**	
12150	Total Alkalinity	n.a.	28,900	700	1
	SM 4500-S2 D-2000		**ug/l**	**ug/l**	
00230	Sulfide	18496-25-8	N.D.	54	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140491AA	02/18/2014 19:59	Daniel H Heller	1

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

LL Sample # WW 7360251
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 10:12 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT117

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140491AA	02/18/2014 19:59	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14045A53A	02/14/2014 14:22	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14045A53A	02/14/2014 14:22	Marie D Beamenderfer	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	140480001A	02/17/2014 12:03	Elizabeth J Marin	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140430020A	02/15/2014 00:04	Glorines Suarez-Rivera	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140430021A	02/17/2014 14:52	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140430021A	02/12/2014 21:00	Karen L Beyer	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140430020A	02/12/2014 21:00	Karen L Beyer	1
00368	Nitrate Nitrogen	EPA 300.0	1	14043347601A	02/12/2014 07:38	Sandra J Miller	5
00228	Sulfate	EPA 300.0	1	14043347601A	02/12/2014 07:38	Sandra J Miller	5
12150	Total Alkalinity	SM 2320 B-1997	1	14048002202A	02/17/2014 18:26	Michele L Graham	1
00230	Sulfide	SM 4500-S2 D-2000	1	14043023001A	02/12/2014 08:05	Susan E Hibner	1

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

LL Sample # WW 7360252
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 10:12 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6010B**		**ug/l**	**ug/l**	
01754	Iron	7439-89-6	N.D.	43.0	1
07058	Manganese	7439-96-5	2.5	0.83	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
01754	Iron	SW-846 6010B	1	140431848006	02/14/2014 12:42	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	140431848006	02/14/2014 12:42	Joanne M Gates	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	140431848006	02/13/2014 08:00	James L Mertz	1

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

LL Sample # WW 7360253
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 10:12 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140436050002A	02/17/2014 22:13	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140436050002	02/12/2014 18:30	Annamaria Kuhns	1

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

LL Sample # WW 7360254
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 11:10 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT118

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140491AA	02/18/2014 20:22	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140491AA	02/18/2014 20:22	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14048A94A	02/18/2014 13:26	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14048A94A	02/18/2014 13:26	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140430020A	02/15/2014 00:49	Glorines Suarez-Rivera	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140430021A	02/17/2014 15:17	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140430021A	02/12/2014 21:00	Karen L Beyer	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140430020A	02/12/2014 21:00	Karen L Beyer	1

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

LL Sample # WW 7360255
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 11:10 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140436050002A	02/17/2014 22:15	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140436050002	02/12/2014 18:30	Annamaria Kuhns	1

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

LL Sample # WW 7360256
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 09:23 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MT120

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D140491AA	02/18/2014 20:45	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D140491AA	02/18/2014 20:45	Daniel H Heller	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14048A94A	02/18/2014 13:51	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14048A94A	02/18/2014 13:51	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140430020A	02/15/2014 01:11	Glorines Suarez-Rivera	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140430021A	02/17/2014 15:39	Christine E Dolman	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140430021A	02/12/2014 21:00	Karen L Beyer	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140430020A	02/12/2014 21:00	Karen L Beyer	1

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

LL Sample # WW 7360257
LL Group # 1451708
Account # 11260

Project Name: 211556

Collected: 02/10/2014 09:23 by JP

Submitted: 02/11/2014 09:40
Reported: 02/20/2014 16:10

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140446050001A	02/17/2014 20:05	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140446050001	02/16/2014 10:12	James L Mertz	1

Quality Control Summary

Client Name: Chevron Group Number: 1451708
Reported: 02/20/14 at 04:10 PM

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D140491AA	Sample number(s): 7360245-7360246,7360248,7360251,7360254,7360256							
Benzene	N.D.	0.5	ug/l	94		78-120		
Ethylbenzene	N.D.	0.5	ug/l	94		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		75-120		
Toluene	N.D.	0.5	ug/l	97		80-120		
Xylene (Total)	N.D.	0.5	ug/l	96		80-120		
Batch number: 14045A53A	Sample number(s): 7360245-7360246,7360248,7360251							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	109	111	75-135	2	30
Batch number: 14048A94A	Sample number(s): 7360254,7360256							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	108	109	75-135	0	30
Batch number: 140480001A	Sample number(s): 7360248,7360251							
Methane	N.D.	3.0	ug/l	101		80-120		
Batch number: 140430020A	Sample number(s): 7360246,7360248,7360251,7360254,7360256							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	73	71	50-113	3	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 140430021A	Sample number(s): 7360246,7360248,7360251,7360254,7360256							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	72	81	32-117	12	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 140431848006	Sample number(s): 7360249,7360252							
Iron	N.D.	43.0	ug/l	101		90-112		
Manganese	N.D.	0.83	ug/l	103		90-110		
Batch number: 140436050002A	Sample number(s): 7360247,7360250,7360253,7360255							
Lead	N.D.	0.085	ug/l	102		90-110		
Batch number: 140446050001A	Sample number(s): 7360257							
Lead	N.D.	0.085	ug/l	107		90-110		
Batch number: 14043347601A	Sample number(s): 7360248,7360251							
Nitrate Nitrogen	N.D.	50.	ug/l	101		90-110		
Sulfate	N.D.	300.	ug/l	100		90-110		
Batch number: 14043023001A	Sample number(s): 7360248,7360251							
Sulfide	N.D.	54.	ug/l	104		90-110		
Batch number: 14048002202A	Sample number(s): 7360248,7360251							
Total Alkalinity	N.D.	700.	ug/l as CaCO3	98		90-110		

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

Quality Control Summary

Client Name: Chevron Group Number: 1451708
Reported: 02/20/14 at 04:10 PM

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: D140491AA	Sample number(s): 7360245-7360246,7360248,7360251,7360254,7360256 UNSPK: P360436								
Benzene	87	99	72-134	3	30				
Ethylbenzene	97	102	71-134	5	30				
Methyl Tertiary Butyl Ether	93	100	72-126	6	30				
Toluene	100	106	80-125	6	30				
Xylene (Total)	100	106	79-125	5	30				
Batch number: 140480001A	Sample number(s): 7360248,7360251 UNSPK: P360925								
Methane	-70 (2)	24 (2)	35-157	13	20				
Batch number: 140431848006	Sample number(s): 7360249,7360252 UNSPK: P356308 BKG: P356308								
Iron	109	102	75-125	6	20	73.8	62.0	17 (1)	20
Manganese	100	96	75-125	2	20	313	338	8	20
Batch number: 140436050002A	Sample number(s): 7360247,7360250,7360253,7360255 UNSPK: P360395 BKG: P360395								
Lead	100	99	89-120	1	20	0.59	0.64	8 (1)	20
Batch number: 140446050001A	Sample number(s): 7360257 UNSPK: P361408 BKG: P361408								
Lead	106	106	89-120	0	20	0.61	0.67	9 (1)	20
Batch number: 14043347601A	Sample number(s): 7360248,7360251 UNSPK: 7360248 BKG: 7360248								
Nitrate Nitrogen	103		90-110			630	640	1 (1)	20
Sulfate	103		90-110			3,700	3,600	4 (1)	20
Batch number: 14043023001A	Sample number(s): 7360248,7360251 UNSPK: 7360251 BKG: 7360251								
Sulfide	92	90	42-131	2	16	N.D.	N.D.	0 (1)	5
Batch number: 14048002202A	Sample number(s): 7360248,7360251 UNSPK: 7360248 BKG: 7360248								
Total Alkalinity	99		10-159			38,000	38,200	0	5

Surrogate Quality Control

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

Analysis Name: UST VOCs by 8260B - Water
Batch number: D140491AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7360245	100	96	100	100
7360246	100	99	99	100
7360248	101	97	99	99

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

Quality Control Summary

Client Name: Chevron Group Number: 1451708
Reported: 02/20/14 at 04:10 PM

Surrogate Quality Control

7360251	101	96	99	99
7360254	102	95	98	99
7360256	100	100	98	100
Blank	99	97	99	100
LCS	102	101	99	100
MS	101	103	99	103
MSD	100	102	101	104
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14045A53A

	Trifluorotoluene-F
7360245	71
7360246	70
7360248	70
7360251	71
Blank	71
LCS	77
LCSD	78
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14048A94A

	Trifluorotoluene-F
7360254	87
7360256	87
Blank	95
LCS	91
LCSD	92
Limits:	63-135

Analysis Name: NWTPH-Dx water
Batch number: 140430020A

	Orthoterphenyl
7360246	93
7360248	98
7360251	98
7360254	97
7360256	97
Blank	102
LCS	99
LCSD	95
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 140430021A

	Orthoterphenyl
7360246	91

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

Quality Control Summary

Client Name: Chevron
Group Number: 1451708
Reported: 02/20/14 at 04:10 PM

Surrogate Quality Control

7360248	103
7360251	97
7360254	74
7360256	96
Blank	95
LCS	97
LCSD	101

Limits: 50-150

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 140480001A

	Propene
7360248	83
7360251	83
Blank	97
LCS	98
MS	188*
MSD	209*

Limits: 42-131

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

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

For Eurofins Lancaster Laboratories use only
Acct. # 11260 Group # 1451708 Sample # 736 0245-257
Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

Facility # SS#211556-OML G-R#386773 WBS
Site Address 101 Mulford Road, TOLEDO, WA
Chevron PM MHO Lead Consultant LEIDOSRS 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 J. PAYNE

2 Sample Identification

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Sediment	Potable	Ground	NPDES	Surface	Air	Oil	Total Number of Containers	5 Analyses Requested: BTEX + MTBE	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	NITRATE/SULFATE	Diss. IRON/MANGANESE	SULFIDE/METHANE	ALKALINITY
R.A	2.10.14		X			X								2	X			X												
MW-115		1301	X			X								9	X			X	X	X			X							
MW-116		1202	X			X								16	X			X	X	X			X		X	X	X	X	X	X
MW-117		1012	X			X								16	X			X	X	X			X		X	X	X	X	X	X
MW-118		1110	X			X								9	X			X	X	X			X							
MW-120		0923	X			X								9	X			X	X	X			X							

6 Remarks

Please report results for Dx with & without sgc. Dissolved Iron, [redacted], 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

7 Turnaround Time Requested (TAT) (please circle)

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

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
	2.10.14	1700			
Relinquished by	Date	Time	Received by	Date	Time

Relinquished by Commercial Carrier: UPS ✓ FedEx _____ Other _____

Received by _____ Date 2/11/14 Time 0749

Temperature Upon Receipt 0.4-0.7 °C

Custody Seals Intact? Yes No

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 - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC 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.

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

February 25, 2014

Project: 211556

Submittal Date: 02/14/2014
Group Number: 1452665
PO Number: 0015119898
Release Number: HOPKINS/HORNE

State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
QA NA Water	7364298
MW-109 Grab Groundwater	7364299
MW-109 Filtered Grab Groundwater	7364300
MW-114 Grab Groundwater	7364301
MW-114 Filtered Grab Groundwater	7364302

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

ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan
ELECTRONIC COPY TO	SAIC	Attn: Jamalyn Green
ELECTRONIC COPY TO	SAIC	Attn: Russ Shropshire

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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

LL Sample # WW 7364298
LL Group # 1452665
Account # 11260

Project Name: 211556

Collected: 02/11/2014

Submitted: 02/14/2014 10:00
Reported: 02/25/2014 15:28

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRTQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140512AA	02/20/2014 08:26	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140512AA	02/20/2014 08:26	Anita M Dale	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14052A94A	02/24/2014 11:51	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14052A94A	02/24/2014 11:51	Marie D Beamenderfer	1

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

LL Sample # WW 7364299
LL Group # 1452665
Account # 11260

Project Name: 211556

Collected: 02/11/2014 10:05 by JP

Submitted: 02/14/2014 10:00
Reported: 02/25/2014 15:28

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MR109

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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.	30	1
08271	Heavy Range Organics C24-C40	n.a.	N.D.	70	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.	30	1
12005	HRO C24-C40 w/Si Gel	n.a.	N.D.	70	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140514AA	02/20/2014 21:22	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140514AA	02/20/2014 21:22	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14052A94A	02/24/2014 18:59	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14052A94A	02/24/2014 18:59	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140490013A	02/19/2014 19:55	Heather E Williams	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140490014A	02/21/2014 22:31	Heather E Williams	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140490014A	02/19/2014 03:00	Sherry L Morrow	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140490013A	02/19/2014 03:00	Sherry L Morrow	1

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

LL Sample # WW 7364300
LL Group # 1452665
Account # 11260

Project Name: 211556

Collected: 02/11/2014 10:05 by JP

Submitted: 02/14/2014 10:00
Reported: 02/25/2014 15:28

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.20	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140506050002A	02/20/2014 22:43	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140506050002	02/20/2014 09:19	James L Mertz	1

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

LL Sample # WW 7364301
LL Group # 1452665
Account # 11260

Project Name: 211556

Collected: 02/11/2014 10:51 by JP

Submitted: 02/14/2014 10:00
Reported: 02/25/2014 15:28

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MR114

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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.	71	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140514AA	02/20/2014 21:44	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140514AA	02/20/2014 21:44	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14052A94A	02/24/2014 19:49	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14052A94A	02/24/2014 19:49	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140490013A	02/19/2014 22:08	Heather E Williams	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140490014A	02/21/2014 23:15	Heather E Williams	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140490014A	02/19/2014 03:00	Sherry L Morrow	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140490013A	02/19/2014 03:00	Sherry L Morrow	1

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

LL Sample # WW 7364302
LL Group # 1452665
Account # 11260

Project Name: 211556

Collected: 02/11/2014 10:51 by JP

Submitted: 02/14/2014 10:00
Reported: 02/25/2014 15:28

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	0.12	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140506050002A	02/20/2014 22:46	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140506050002	02/20/2014 09:19	James L Mertz	1

Quality Control Summary

Client Name: Chevron Group Number: 1452665
Reported: 02/25/14 at 03:28 PM

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F140512AA	Sample number(s): 7364298							
Benzene	N.D.	0.5	ug/l	93		78-120		
Ethylbenzene	N.D.	0.5	ug/l	94		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94		75-120		
Toluene	N.D.	0.5	ug/l	94		80-120		
Xylene (Total)	N.D.	0.5	ug/l	94		80-120		
Batch number: F140514AA	Sample number(s): 7364299,7364301							
Benzene	N.D.	0.5	ug/l	92		78-120		
Ethylbenzene	N.D.	0.5	ug/l	89		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		75-120		
Toluene	N.D.	0.5	ug/l	91		80-120		
Xylene (Total)	N.D.	0.5	ug/l	91		80-120		
Batch number: 14052A94A	Sample number(s): 7364298-7364299,7364301							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	114	108	75-135	5	30
Batch number: 140490013A	Sample number(s): 7364299,7364301							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	66	72	50-113	10	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 140490014A	Sample number(s): 7364299,7364301							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	59	70	32-117	17	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 140506050002A	Sample number(s): 7364300,7364302							
Lead	N.D.	0.085	ug/l	103		90-110		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F140512AA	Sample number(s): 7364298 UNSPK: P364248								
Benzene	99	98	72-134	1	30				
Ethylbenzene	99	98	71-134	2	30				
Methyl Tertiary Butyl Ether	95	95	72-126	0	30				
Toluene	101	98	80-125	2	30				
Xylene (Total)	100	99	79-125	1	30				

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

Quality Control Summary

Client Name: Chevron Group Number: 1452665
Reported: 02/25/14 at 03:28 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F140514AA	Sample number(s): 7364299,7364301 UNSPK: P364260								
Benzene	94	96	72-134	2	30				
Ethylbenzene	94	92	71-134	2	30				
Methyl Tertiary Butyl Ether	89	91	72-126	2	30				
Toluene	97	95	80-125	2	30				
Xylene (Total)	106	93	79-125	8	30				
Batch number: 140506050002A	Sample number(s): 7364300,7364302 UNSPK: P364441 BKG: P364441								
Lead	118	121*	89-120	1	20	16.5	18.2	10	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: UST VOCs by 8260B - Water
Batch number: F140512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7364298	100	100	100	99
Blank	101	101	101	98
LCS	100	101	100	99
MS	99	100	100	101
MSD	98	102	100	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F140514AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7364299	102	102	99	97
7364301	100	101	99	97
Blank	100	101	100	99
LCS	98	103	98	98
MS	99	100	98	99
MSD	101	102	99	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14052A94A

	Trifluorotoluene-F
7364298	88
7364299	87
7364301	87
Blank	89

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

Quality Control Summary

Client Name: Chevron Group Number: 1452665
Reported: 02/25/14 at 03:28 PM

Surrogate Quality Control

LCS	92
LCSD	90
Limits:	63-135

Analysis Name: NWTPH-Dx water
Batch number: 140490013A

	Orthoterphenyl
7364299	107
7364301	98
Blank	109
LCS	102
LCSD	111
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 140490014A

	Orthoterphenyl
7364299	99
7364301	88
Blank	106
LCS	90
LCSD	102
Limits:	50-150

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

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11260 For Eurofins Lancaster Laboratories use only Group # 1452606 Sample # 364298-302

Instructions on reverse side correspond with circled numbers.

1 Client Information

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

Site Address: 101 Mulford Road, TOLEDO, WA

Chevron PM: MHO Lead Consultant: LEIDOSRS 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: J. Rayne

4 Matrix

Soil ☐ Water ☑ Oil ☐ Sediment ☐ Potable ☐ Groundwater ☐ NPDES ☐ Surface ☐ Air ☐

5 Analyses Requested

2 Sample Identification	Collected Date	Collected Time	3 Grab	Composite	Total # 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
QA.	2.11.14		X		2	X			X				
MW-109	↓	1005	X		9	X			X	X	X		X
MW-114	↓	1051	X		9	X			X	X	X		X

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, [redacted], 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

7 Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day

~~72 hour~~ 48 hour 24 hour EDF/EDD

Relinquished by	Date	Time	Received by	Date	Time
[signature]	2.11.14	1430			
[signature]			[signature]		

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 1.2 °C

Received by [signature] Date 2/14/14 Time 1000

Custody Seals Intact? ~~Yes~~ No

9

Date _____ Time _____

Date _____ Time _____

eurofins | Lancaster Laboratories Environmental

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 - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC 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.

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

February 25, 2014

Project: 211556

Submittal Date: 02/14/2014
Group Number: 1452666
PO Number: 0015119898
Release Number: HOPKINS/HORNE

State of Sample Origin: WA

Client Sample Description	Lancaster Labs (LL) #
TPWHD-1 Grab Groundwater	7364303
TPWHD-1 Filtered Grab Groundwater	7364304

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

ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan
ELECTRONIC COPY TO	SAIC	Attn: Jamalyn Green
ELECTRONIC COPY TO	SAIC	Attn: Russ Shropshire

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

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

LL Sample # WW 7364303
LL Group # 1452666
Account # 11260

Project Name: 211556

Collected: 02/11/2014 11:48 by JP

Submitted: 02/14/2014 10:00
Reported: 02/25/2014 15:30

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MRTT1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	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
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F140514AA	02/20/2014 22:06	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F140514AA	02/20/2014 22:06	Brett W Kenyon	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	14052A94A	02/24/2014 20:14	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	14052A94A	02/24/2014 20:14	Marie D Beamenderfer	1
08271	NWTPH-Dx water	ECY 97-602 NWTPH-Dx modified	1	140490013A	02/19/2014 21:01	Heather E Williams	1
12005	NWTPH-Dx water w/ 10g Si Gel	ECY 97-602 NWTPH-Dx modified	1	140490014A	02/21/2014 22:53	Heather E Williams	1
12007	NW Dx water w/ 10g column	ECY 97-602 NWTPH-Dx 06/97	1	140490014A	02/19/2014 03:00	Sherry L Morrow	1
11197	WA DRO NW DX Ext (Non SG)	ECY 97-602 NWTPH-Dx 06/97	1	140490013A	02/19/2014 03:00	Sherry L Morrow	1

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

LL Sample # WW 7364304
LL Group # 1452666
Account # 11260

Project Name: 211556

Collected: 02/11/2014 11:48 by JP

Submitted: 02/14/2014 10:00
Reported: 02/25/2014 15:30

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Metals Dissolved	**SW-846 6020**		**ug/l**	**ug/l**	
06035	Lead	7439-92-1	N.D.	0.085	1

General Sample Comments

State of Washington Lab Certification No. C457
This sample was lab 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	140506050002A	02/20/2014 22:53	John P Hook	1
06050	ICP/MS SW-846 Water Digest	SW-846 3010A modified	1	140506050002	02/20/2014 09:19	James L Mertz	1

Quality Control Summary

Client Name: Chevron Group Number: 1452666
Reported: 02/25/14 at 03:30 PM

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.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F140514AA	Sample number(s): 7364303							
Benzene	N.D.	0.5	ug/l	92		78-120		
Ethylbenzene	N.D.	0.5	ug/l	89		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	91		75-120		
Toluene	N.D.	0.5	ug/l	91		80-120		
Xylene (Total)	N.D.	0.5	ug/l	91		80-120		
Batch number: 14052A94A	Sample number(s): 7364303							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	114	108	75-135	5	30
Batch number: 140490013A	Sample number(s): 7364303							
Diesel Range Organics C12-C24	N.D.	30.	ug/l	66	72	50-113	10	20
Heavy Range Organics C24-C40	N.D.	70.	ug/l					
Batch number: 140490014A	Sample number(s): 7364303							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	59	70	32-117	17	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					
Batch number: 140506050002A	Sample number(s): 7364304							
Lead	N.D.	0.085	ug/l	103		90-110		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F140514AA	Sample number(s): 7364303 UNSPK: P364260								
Benzene	94	96	72-134	2	30				
Ethylbenzene	94	92	71-134	2	30				
Methyl Tertiary Butyl Ether	89	91	72-126	2	30				
Toluene	97	95	80-125	2	30				
Xylene (Total)	106	93	79-125	8	30				
Batch number: 140506050002A	Sample number(s): 7364304 UNSPK: P364441 BKG: P364441								
Lead	118	121*	89-120	1	20	16.5	18.2	10	20

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

Quality Control Summary

Client Name: Chevron Group Number: 1452666
Reported: 02/25/14 at 03:30 PM

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: UST VOCs by 8260B - Water
Batch number: F140514AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7364303	100	100	98	98
Blank	100	101	100	99
LCS	98	103	98	98
MS	99	100	98	99
MSD	101	102	99	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 14052A94A

	Trifluorotoluene-F
7364303	87
Blank	89
LCS	92
LCSD	90
Limits:	63-135

Analysis Name: NWTPH-Dx water
Batch number: 140490013A

	Orthoterphenyl
7364303	105
Blank	109
LCS	102
LCSD	111
Limits:	50-150

Analysis Name: NWTPH-Dx water w/ 10g Si Gel
Batch number: 140490014A

	Orthoterphenyl
7364303	101
Blank	106
LCS	90
LCSD	102
Limits:	50-150

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

Chevron Northwest Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 11260 For Eurofins Lancaster Laboratories use only Group # 1453666 Sample # 736303-04

Instructions on reverse side correspond with circled numbers.

SCR #: _____

1 Client Information

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

Site Address 101 Mulford Road, TOLEDO, WA

Chevron PM MHO Lead Consultant LEIDOSRS 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 J. PAYNE

2 Sample Identification

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Oil	Sediment	Potable	NPDES	Ground	Surface	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 EPH	WA VPH	Total	Diss.	Lead	Method 8270
TPWHD-1	2.1.14	1148	X			X								9	X						X	X	X				X		

4 Matrix

Soil ☐ Water ☒ Oil ☐ Sediment ☐ Potable ☐ NPDES ☐ Ground ☒ Surface ☐ Air ☐

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 ☐

Total ☐ Diss. ☒ Lead

Method 8270

- ☐ 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, ~~Iron~~, 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

7 Turnaround Time Requested (TAT) (please circle)

(Standard) 5 day 4 day

72 hour 48 hour 24 hour EDF/EDD

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
	2.1.14	1430			
Relinquished by	Date	Time	Received by	Date	Time

Relinquished by Commercial Carrier: UPS ✓ FedEx _____ Other _____

Received by — Date 2/14/14 Time 1000

Temperature Upon Receipt 1.2 °C

Custody Seals Intact? (Yes) No

9

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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 - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> 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.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	**E**	Estimated due to interference
C	Pesticide result confirmed by GC/MS	**M**	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	**N**	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	**S**	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	**U**	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	**W**	Post digestion spike out of control limits
U	Compound was not detected	*****	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	**+**	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC 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.