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May 10, 2018
Project No. 9003.01.28

Mr. Craig Rankine
Washington State Department of Ecology
Vancouver Field Office
12121 NE 99th Street, Suite 2100
Vancouver, Washington 98682

Re: January 2018 groundwater monitoring for former Pacific Wood Treating Co. Site
Port of Ridgefield, Lake River Industrial Site
Agreed Order No. 01TCPSR-3119

Dear Mr. Rankine:

In January 2018, the Port of Ridgefield (Port) collected groundwater samples from monitoring well locations on the former Pacific Wood Treating Co. (PWT) Site. The PWT Site includes the Lake River Industrial Site (LRIS), which is owned by the Port. Samples were collected from point of compliance (POC) monitoring wells located on Cells 2 and 3 of the LRIS and on the Ridgefield National Wildlife Refuge (RNWR; just north of the LRIS), and were sent to Specialty Analytical, Inc., in Clackamas, Oregon, for analysis. The groundwater data from this sampling event are summarized below.

The attached figure shows the POC monitoring well locations, RNWR, Lake River, and portions of the LRIS referred to as Cells 1, 2, and 3. Table 1 summarizes the completion details for POC wells.

Groundwater monitoring results are discussed separately below for the two plumes on the PWT site. One of the plumes originates in Cells 1 and 2 of the LRIS and extends northwest under the RNWR and potentially beneath Lake River; the second plume is in Cell 3 of the LRIS, potentially extending beneath Lake River. The following are the sampling dates for the past six years, as described in the final Cleanup Action Plan (CAP):[1]

- August 2013 (completed)
- January 2014 (completed)
- August 2014 (completed)
- January 2015 (completed)
- August 2016 (completed)
- January 2018 (completed)

Now that six years of sampling (through January 2018) have been completed, Maul Foster & Alongi, Inc., recommends that the monitoring frequency for future events be based on its

[1] Ecology. Cleanup action plan, former Pacific Wood Treating Co. site. Prepared by the Washington State Department of Ecology, October 2013.

relevance to the concentrations of indicator hazardous substances (IHSs) and data trends present at each monitoring well.

SUMMARY

Port personnel conducted sampling on the PWT site during typical high water in January, using low-flow sampling techniques consistent with the CAP. Cell 2 and RNWR samples were collected in the shallow and deep portions of the upper water-bearing zone (UWBZ) and in the lower water-bearing zone. In Cell 3, groundwater samples were collected from the shallow and deep portions of the UWBZ.

Groundwater samples were analyzed, consistent with the CAP, for semivolatile organic compounds (SVOCs) by U.S. Environmental Protection Agency (USEPA) Method 8270D; for volatile organic compounds (VOCs) by USEPA 8260B; and/or for dissolved arsenic by USEPA Method 6020 (see Table 2).

ANALYTICAL RESULTS

Analytical results were compared to the cleanup levels (CULs) summarized in the CAP. These are Model Toxics Control Act Method B CULs, except for arsenic results, which are compared to Method A CULs. The Method A CUL for arsenic is based on natural background concentrations in groundwater in Washington State.

The January 2018 laboratory analytical reports and a data quality assurance and quality control (QA/QC) review memorandum are included as Attachments A and B, respectively. Data QA/QC results indicate that data are acceptable for their intended use, with the appropriate data qualifiers assigned. The VOC and SVOC analytical tables discussed below summarize only analytes with historical or current exceedances of a CUL. Groundwater analytical tables showing all historical data are included in the remedial investigation and feasibility study report for the PWT site.[2]

Cells 1 and 2 Plume

The Cells 1 and 2 plume POC monitoring wells are located along the bank of Lake River to the west and in the RNWR near Carty Lake to the north. The plume generally flows westward toward Lake River, but the shallow portion of the UWBZ has a northerly component. Tables 3 through 5 summarize analytical results for the 2018 sampling event and include past sampling results. The following analytes exceeded their respective CULs in samples collected during January 2018:

- Pentachlorophenol (PCP)

[2] MFA. Final remedial investigation and feasibility study, former Pacific Wood Treating Co. site. Prepared for the Port of Ridgefield. Maul Foster & Alongi, Inc., Vancouver, Washington, July 1, 2013.

- Noncarcinogenic polycyclic aromatic hydrocarbons
  - Carbazole, dibenzofuran, 1-methylnaphthalene, and 2-methylnaphthalene
- VOCs
  - 1,2.4-trimethylbenzene, benzene, naphthalene, tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride
- Dissolved arsenic

Three of the 13 POC wells (MW-61, USDFW-1, and RMW-2S) did not have compounds that exceeded a CUL. Concentrations of IHSs in these wells have been consistently below CULs or non-detect.

Four of the 13 POC wells (RMW-2D, MW-55, MW-56, and MW-62) did not have VOCs that exceeded a CUL. Concentrations of VOCs in these wells have consistently been stable with a decreasing trend, below CULs, or non-detect.

The remaining wells in Cells 1 and 2 show that IHSs in groundwater are generally stable or decreasing (see Tables 3 through 5). However, untypical IHS detections were identified in five wells:

- MW-55S—Dibenzofuran and 1-methylnaphthalene were detected in 2018 samples at concentrations that are elevated as compared with past detections. Other IHSs in this well show stable concentrations or have decreased to non-detect or to concentrations below CULs (i.e., PCP, benzene, and naphthalene).
- MW-55D—The PCP detection in 2018 was elevated compared to recent samples, but was similar to the 2010 detection. VOCs are typically detected in groundwater from this well; however, in 2018 vinyl chloride was detected at a concentration above the CUL. The vinyl chloride detection likely reflects degradation of PCE/TCE.
- MW-57S—The PCP detection in 2018 was elevated in comparison to past detections. Although PCP was higher than the previous event's results, all other analytes were stable or decreasing.
- MW-62—The PCP detection in 2018 was elevated in comparison to past detections. Although PCP was higher than the previous event results, all other analytes were stable or decreasing.
- MW-63—The only PCP detections in this well were found during the initial sampling in 2012 and again in 2018. 2018 was also the first detection and CUL exceedance of PCE. All other VOCs, SVOCs, and arsenic have been below CULs and/or non-detect throughout the monitoring program.

These untypical results will be monitored and evaluated in future sampling events.

Cell 3 Plume

The POC wells for the Cell 3 plume are located along the bank of Lake River and near the southeast LRIS property boundary. The plume generally flows westward, toward Lake River. PCP, PCE, and arsenic are the IHSs in the Cell 3 plume. The January 2018 results show generally stable or decreasing trends (see Table 6). Note that for this sampling event, the arsenic concentration in MW-46S was below CULs for the first time, and in MW-47D the PCE concentration is the lowest that it has ever been during the monitoring program.

RECOMMENDATION

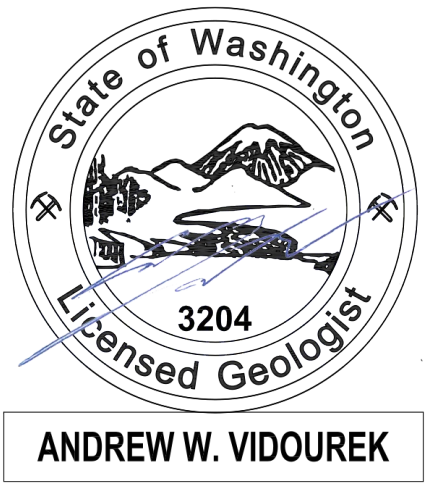
Based on the stable and declining trends of IHSs on the LRIS from August 2013 through January 2018, the Port requests that the POC well sampling schedule for most wells be extended to a five-year interval, with the next scheduled sampling event to be conducted in January 2023. The January 2018 sample results do not represent a significant change from the previous six events spanning 2013 through 2018, indicating that the remedial action has created generally stable or declining trends for IHSs in groundwater throughout the site.

As discussed above, there were untypical results in five monitoring wells (MW-55S, MW-55D, MW-57S, MW-62, and MW-63), and it is recommended that these five wells be sampled every two and half years. It is also recommended these five wells be redeveloped prior to the next sampling event. The next event would be in August 2020, followed by January 2023, and would allow the Port to further evaluate the untypical detections. See Table 7 for the updated monitoring schedule.

Please contact me if there are any questions regarding this letter.

Sincerely,

Maul Foster & Alongi, Inc.



5/10/18

Andrew W. Vidourek, LG
Project Geologist

Attachments: Limitations
Figure
Tables 1 through 7
A—Laboratory Analytical Report
B—Data Quality Assurance and Quality Control Review Memorandum

cc: Laurie Olin, Port of Ridgefield

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

FIGURE

Source: Aerial photograph (2014) obtained from Clark County GIS.

Legend

Monitoring Wells

- *Shallow Upper Water-Bearing Zone*
- *Deep Upper Water-Bearing Zone*
- *Lower Water-Bearing Zone*

Cell Boundaries within Lake River Industrial Site

Figure
Monitoring Well Locations

Port of Ridgefield
Ridgefield, Washington

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0 100 200
Feet

Path: X:\9003.01 Port of Ridgefield\28\07\Projects\Fig_Monitoring Well Locations.mxd
Print Date: 2/24/2014
Approved By: ahughes
Produced By: rroberts
Project: 9003.01.28/07

TABLES

Table 1
POC Monitoring Well Completion Details
Pacific Wood Treating Co. Site
Ridgefield, Washington

Monitoring Point	Coordinates		Measuring Point Elevation (ft NGVD)	Ground Surface Elevation (ft NGVD)	Total Depth Drilled (ft bgs)	Total Depth Casing (ft bgs)	Sump Interval (ft bgs)	Screened Interval (ft bgs)	Filter Pack Interval (ft bgs)	Secondary Filter Pack Interval (ft bgs)	Surface Seal (ft bgs)	Borehole Diameter (inches)	Well Diameter (inches)	Drilling Method	Date of Installation	Lithologic Unit Screened
	Northing	Easting														
Upper Water-Bearing Zone																
Shallow Upper Water-Bearing Zone																
MW-46S	184843.90	1066565.10	15.33	19.65	25.5	15	25 - 25.5	15 - 25	13 - 25.5	--	0 - 13	10.25	2	HSA	Jul-04	Alluvium
MW-55S	185715.9599	1066288.645	26.88	24.27	31.3	30	30.9 - 30.4	20.9 - 30.9	18.0 - 31.3	--	0 - 18.0	6	2	Sonic	Aug-10	Alluvium
MW-57S	185715.4938	1066288.473	26.88	24.35	30.0	17	27 - 27.5	17 - 27	15 - 30	--	0 - 15	8	2	Sonic	Jun-08	Alluvium
RMW-2S	186524.851	1066680.832	16.66	13.39	15.0	5	--	5 - 15	4 - 15	--	3 - 4	10.25	2	HSA	Nov-00	Gravel
Deep Upper Water-Bearing Zone																
MW-29D	184616.22	1066953.26	25.42	23.23	53.5	43	53-53.5	43-53	40-53.5	--	0-40	8	2	Becker	Aug-04	Gravel
MW-45D	185011.82	1066517.56	22.16	20.42	50.0	38	48 - 48.5	38 - 48	36 - 48.5	--	2 - 36.0	10.25	2	HSA	Jul-04	Gravel
MW-46D	184839.34	1066567.00	14.18	19.52	50.0	38	48 - 48.5	38 - 48	36 - 48.5	--	2 - 36.0	10.25	2	HSA	Jul-04	Gravel
MW-47D	184558.46	1066722.03	19.56	19.95	53.5	41	51 - 51.5	41 - 51	39.5 - 51.5	--	2 - 39.5	10.25	2	HSA	Jul-04	Gravel
MW-55D	185768.717	1066133.905	27.10	24.44	80.0	78.3	75.0 - 75.5	65.0 - 75.0	63.0 - 76.0	59.0 - 63.0	0 - 59.0	6	2	Sonic	Aug-10	Alluvium
MW-57D	185719.5269	1066292.568	26.45	24.21	80.0	74.9	74.4 - 75.9	64.4 - 74.4	65.1 - 77.9	--	3 - 65.1	8	2	Sonic	Jun-08	Gravel
MW-58D	186013.7436	1066028.897	27.73	24.32	75.0	64.3	74.3 - 74.8	64.3 - 74.3	62.5 - 75.0	--	2 - 62.5	8	2	Sonic	Jun-08	Gravel
USDFW-1	186325.7682	1066660.526	15.35	10.76	22.7	12.2	--	12.2 - 22.2	11.1 - 22.7	9.8 - 11.1	0 - 9.8	10.25	2	HSA	Oct-01	Gravel
RMW-2D	186528.3044	1066680.006	17.24	13.44	31.5	19.5	--	19.5 - 29.5	17.5 - 31.5	--	3 - 17.5	10.25	2	HSA	Nov-00	Gravel
Lower Water-Bearing Zone																
MW-55	185758.1565	1066145.061	27.88	24.90	112.3	89	99 - 99.5	89 - 99	86 - 100.3	--	2 - 86.0	8	2	Sonic	Jun-08	Troutdale
MW-56	186004.4964	1066031.162	26.48	23.84	120.0	103	113 - 113.5	103 - 113	100.4 - 116	--	2 - 100.4	8	2	Sonic	Jun-08	Troutdale
MW-61	186698.58	1065859.148	18.298	15.79	104.5	104.5	102.0 - 102.5	92.0 - 102.0	90.5 - 103	--	0 - 90.5	6	2	Sonic	Aug-10	Troutdale
MW-62	185309.338	1066390.093	27.439	24.631	121.0	117.8	114.6 - 115.1	104.6 - 114.6	102.0 - 116.5	96.0 - 102.0	0 - 96.0	6	2	Sonic	Aug-10	Troutdale
MW-63	186802.255	1066287.113	17.12	15.14	116.0	115.5	115.0 - 115.5	105.0 - 115.0	102.0 - 115.5	--	0 - 102.0	8	2	Sonic	Sep-12	Troutdale

NOTES:
-- = not available or not applicable.
Becker = DR-24 air rotary.
ft bgs = feet below ground surface.
ft NGVD = feet National Geodetic Vertical Datum of 1927/1947.
HSA = hollow-stem auger.
POC = point of compliance.
Sonic = rotosonic.

Table 2
POC Monitoring Wells and Analytical Testing Summary
Pacific Wood Treating Co. Site
Ridgefield, Washington

Monitoring Well	Depth to Water	Sampling and Analysis		
		SVOCs by USEPA 8270D	Arsenic by USEPA 6020	VOCs by USEPA 8260B
LWBZ				
MW-55	x	PCP only		x
MW-56	x	x		x
MW-61	x	x		x
MW-62	x	PCP only		PCE only
MW-63	x	x	x	x
UWBZ				
Shallow UWBZ				
MW-46S	x		x	
MW-55S	x	x	x	x
MW-57S	x	x	x	x
RMW-2s	x	PCP only		
Deep UWBZ				
MW-29D	x			PCE only
MW-45D	x	PCP only		PCE only
MW-46D	x			PCE only
MW-47D	x			PCE only
MW-55D	x	PCP only	x	x
MW-57D	x	x	x	x
MW-58D	x	PCP only	x	x
USDFW-1	x	PCP only	x	x
RMW-2d	x	PCP only		
Surface Water				
CL-3	x			
River Gauge	x			

NOTES:

During sampling events, samples from MW-45D and MW-57D will be duplicated.

IHS = indicator hazardous substance.

LWBZ = lower water-bearing zone.

only = Only wells with consistent IHS detections will be analyzed for those specific IHSs, such as PCE or PCP. Note that some of the groundwater samples may have detected other IHSs in past sampling (i.e., before steam-enhanced remediation system operation) or only infrequently.

PCE = tetrachloroethene.

PCP = pentachlorophenol.

POC = point of compliance.

SVOC = semivolatile organic compound.

USEPA = U.S. Environmental Protection Agency.

UWBZ = upper water-bearing zone.

VOC = volatile organic compound.

x = The action or analysis is to be conducted during each monitoring event.

Table 3
Volatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	1,2,4-Trimethyl-benzene	Benzene	Naphtha-lene	Tetrachloro-ethene	Trichloro-ethene	Vinyl chloride
MTCA Method B Groundwater Cleanup Level			24	0.8	160	0.081	0.42	0.029
Cell 2 Monitoring Wells (UWBZ)								
MW-55S	08/20/2010	MW55S082010	4.74	**3.47**	**2490**	1 U	1 U	1 U
	01/14/2011	MW55S011411	3.37	0.34	**1900**	1 U	1 U	1 U
	08/08/2011	MW55S080811	4.09	0.3 U	**938**	1 U	1 U	1 U
	01/12/2012	MW55S011212	4.3	0.32	**718**	1 U	1 U	1 U
	08/13/2013	MW-55S-20130813-GW	1 U	0.32	134	1 U	1 U	1 U
	01/24/2014	MW55S012414	1.1	0.3 U	**176**	1 U	1 U	1 U
	07/23/2014	MW55S072314	1 U	0.3 U	115	1 U	1 U	1 U
	01/15/2015	MW55S011515	1.09	0.3 U	**310**	1 U	1 U	1 U
	08/11/2016	MW55S081116	1.22	0.3 U	**179**	1 U	1 U	1 U
	01/09/2018	MW555010918	1.58	0.3 U	121	1 U	1 U	1 U
MW-55D	09/07/2010	MW55D090710	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/14/2011	MW55D011411	1 U	**3.81**	1 U	**5.98**	**3.06**	1 U
	08/08/2011	MW55D080811	1 U	0.4	1 U	**7.2**	**3.52**	1 U
	01/12/2012	MW55D011212	1 U	**4.18**	1.3 J	**14.7**	**4.07**	1 U
	08/13/2013	MW-55D-20130813-GW	1 U	**8.1**	1.59	**7.2**	**7.72**	1 U
	01/24/2014	MW55D012414	1 U	0.3 U	1 U	1 U	1 U	1 U
	07/23/2014	MW55D072314	1 U	**3.13**	1 U	**3.34**	**1.54**	1 U
	01/15/2015	MW55D011515	1.1	**4.23**	2.3	**4.22**	**2.28**	1 U
	08/11/2016	MW55D081116	1 U	**2.48**	26	**4.23**	**2.81**	1 U
	01/09/2018	MW55D010918	1 U	**4.83**	2.98	**5.43**	**4.48**	**2.23**
MW-57S	08/15/2008	MW57S081508	**529**	**2.0**	**17700**	1 U	1 U	1 U
	10/06/2008	MW-57S100608	**561**	**1.65**	**27200**	1 U	1 U	1 U
	01/27/2009	MW57S012709	**463**	**1.4**	**17000**	1 U	1 U	1 U
	04/07/2009	MW57S040709	**223**	**1.4**	**11100**	1 U	1 U	1 U
	08/06/2009	MW57S080609	**497**	**2.32**	**13100**	1 U	1 U	1 U
	01/13/2010	MW57S011310	**813**	0.64	**16300**	1 U	1 U	1 U

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Ridgefield, Washington

Location	Date Collected	Sample Name	1,2,4-Trimethyl-benzene	Benzene	Naphtha-lene	Tetrachloro-ethene	Trichloro-ethene	Vinyl chloride
MTCA Method B Groundwater Cleanup Level			24	0.8	160	0.081	0.42	0.029
	08/12/2010	MW57S081210	**567**	**2.08**	**16600**	1 U	1 U	1 U
	01/14/2011	MW57S011411	**816**	**2.13**	**22800**	1 U	1 U	1 U
	08/25/2011	MW57S082511	**541**	**1.76**	**18700**	1 U	1 U	1 U
MW-57S	01/11/2012	MW57S011112	**478**	**1.44**	**19200**	1 U	1 U	1 U
	08/13/2013	MW-57S-20130813-GW	**140**	**1.26**	**1640**	1 U	1 U	1 U
	01/22/2014	MW57S012214	**527**	**1.39**	**20800**	1 U	1 U	1 U
	07/23/2014	MW57S072314	**413**	**1.8**	**11800**	1 U	1 U	1 U
	01/14/2015	MW57S011415	**464**	**1.4**	**19900**	1 U	1 U	1 U
	08/12/2016	MW57S081216	**229**	0.79	**13800**	1 U	1 U	1 U
	01/09/2018	MW575010918	**370**	**1.11**	**23300**	1 U	1 U	1 U
MW-57D	08/14/2008	MW57D081508	1 U	**33.7**	141 B	**102**	**13.5**	**3.89**
	10/06/2008	MW-57D100608	1 U	**29.1**	77.3	**117 B**	**13.6**	**3.41**
dup	10/06/2008	MW-57D100608-Dup	1 U	**32.6**	118	**104 B**	**12.4**	**5.07**
	01/27/2009	MW57D012709	1 U	**28.3**	98.8	**76.9**	**11.4**	**4.42**
dup	01/27/2009	MW57D012709-Dup	1 U	**27.7**	104	**75.2**	**11.7**	**4.29**
	04/07/2009	MW57D040709	1 U	**32.4**	51.6	**76.6**	**13.5**	**4.38**
dup	04/07/2009	MW57D040709-Dup	1 U	**33.3**	66.3	**77.4**	**14.1**	**4.65**
	08/06/2009	MW57D080609	2.2	**28.1**	94.1	**82.0**	**11.7**	**1.52**
	01/13/2010	MW57D011310	1 U	**33.6**	96.4	**97.6**	**14.4**	**5.6**
dup	01/13/2010	MW57D011310-Dup	1 U	**31.6**	131	**91.1**	**13.3**	**6**
	08/12/2010	MW57D081210	1 U	**31.3**	134	**98.3**	**16.6**	**4.2**
dup	08/12/2010	MW57D081210-Dup	1 U	**25.4**	107	**71.0**	**12.8**	**3.26**
	01/14/2011	MW57D011411	1 U	**30.6**	**161**	**103**	**14.2**	**3.52**
dup	01/14/2011	MW57DDUP011411	1 U	**32.5**	**177**	**113**	**14.5**	**3.73**
	08/25/2011	MW57D082511	1 U	**27.1**	128	**87.4**	**14.2**	**4.55**
dup	08/25/2011	MW57DDUP082511	1 U	**28.7**	132	**93.5**	**14.5**	**5.03**
	01/11/2012	MW57D011112	1 U	**31.0**	125	**97.0**	**12.6**	**7.61**

Table 3
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Ridgefield, Washington

Location	Date Collected	Sample Name	1,2,4-Trimethyl-benzene	Benzene	Naphtha-lene	Tetrachloro-ethene	Trichloro-ethene	Vinyl chloride
MTCA Method B Groundwater Cleanup Level			24	0.8	160	0.081	0.42	0.029
dup	01/11/2012	MW57DDUP011112	1 U	**29.2**	133	**90.7**	**11.8**	**3.53**
	08/13/2013	MW-57D-20130813-GW	1 U	**5.79**	2.22	1 U	**2.33**	1 U
dup	08/13/2013	MW-57D-20130813-GW-DUP	1 U	**5.3**	1.91	1 U	**2.09**	1 U
	01/22/2014	MW57D012214	1.84	**16.1**	**302**	**42**	**7.13**	**1.55**
dup	01/22/2014	MW57DDUP012214	2.05	**17.2**	**288**	**44.8**	**7.64**	**2.04**
MW-57D	07/23/2014	MW57D072314	1.11	**25.6**	143	**65.6**	**11.8**	1 U
dup	07/23/2014	MW57DDUP072314	1.05	**26.7**	145	**66**	**12.1**	1 U
	01/14/2015	MW57D011415	1.22	**19.4**	**175**	**53.3**	**9.31**	**1.78**
dup	01/14/2015	MW57DDUP011415	1.3	**20.7**	**177**	**55**	**10**	**2.17**
	08/12/2016	MW57D081216	1 U	**14.5**	**203**	**31.6**	**6.85**	**1.78**
dup	08/12/2016	MW57DDUP081216	1 U	**14.7**	**194**	**31.1**	**7**	**1.98**
	01/09/2018	MW57D010918	1.38	**15.3**	**213**	**29.2**	**7.36**	**1.94**
dup	01/09/2018	MW57DDUP010918	1.32	**14.5**	**240**	**26.8**	**6.87**	**1.78**
MW-58D	08/13/2008	MW58D081308	1 U	**6.69**	1 U	1 U	1 U	1 U
	10/08/2008	MW-58D100808	1 U	**9.62**	1 U	1 U	1 U	1 U
	01/27/2009	MW58D012709	1 U	**8.15**	1 U	1 U	1 U	1 U
	04/07/2009	MW58D040709	1 U	**6.62**	1 U	1 U	1 U	1 U
	08/06/2009	MW58D080609	1 U	**10.3**	1 U	1 U	1 U	1 U
	01/14/2010	MW58D011410	1 U	**16.1**	1 U	1 U	1 U	1 U
	08/12/2010	MW58D081210	1 U	**13.6**	1 U	1 U	1 U	1 U
	01/19/2011	MW58D011911	1 U	**19.5**	1 U	1 U	1 U	1 U
	08/26/2011	MW58D082611	1 U	**18.3**	1 U	1 U	1 U	1 U
	01/13/2012	MW58D011312	1 U	**26.2**	1 U	1 U	1 U	1 U
	08/13/2013	MW-58D-20130813-GW	1 U	**8.63**	1 U	1 U	1 U	1 U
	01/23/2014	MW58D012314	1 U	**10.5**	1 U	1 U	1 U	1 U
	07/24/2014	MW58D072414	1 U	**10.4**	1 U	1 U	1 U	1 U
	01/15/2015	MW58D011515	1 U	**15.2**	1 U	1 U	1 U	1 U

Table 3
Volatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	1,2,4-Trimethyl-benzene	Benzene	Naphtha-lene	Tetrachloro-ethene	Trichloro-ethene	Vinyl chloride
MTCA Method B Groundwater Cleanup Level			24	0.8	160	0.081	0.42	0.029
	08/11/2016	MW58D081116	1 U	**8.43**	1 U	1 U	1 U	1 U
	01/10/2018	MW58D011018	1 U	**3.19**	1 U	1 U	1 U	1 U
RNWR Monitoring Wells (UWBZ)								
USDFW-1	10/24/2003	USDFW-1-102403	6.3	**4.3**	**170**	**1.1**	**7.5**	**1.5**
	05/04/2004	USDFW1-050404	3	**3**	95	0.50 U	**3.9**	**1.4**
	08/13/2004	USDFW1-081304	2.0 U	**3.2**	37	**1.1**	**1.8**	**1**
	10/25/2004	USDFW1-102504	2.0 U	**1.6**	50	0.50 U	**2.5**	**1.2**
	01/28/2005	USDFW1012805	1 U	**1.43**	31.8	1 U	**1.42**	**1.15**
	07/28/2005	USDFW1072805	1 U	**1.1**	4.68	1 U	1 U	0.2 U
USDFW-1	02/01/2006	USDFW1020106	1 U	0.43	1 U	1 U	1 U	**1.41**
	08/11/2006	USDFW1081106	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/22/2007	USDFW1012207	1 U	0.55	1 U	1 U	1 U	**1.15**
	08/27/2007	USDFW1082707	1 U	0.41	1 U	1 U	1 U	1 U
	01/28/2008	USDFW1012808	1 U	0.4	1 U	1 U	1 U	1 U
	08/21/2008	USDW1082108	1 U	0.3 U	1 U	1 U	1 U	1 U
	02/03/2009	USDFW1020309	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/07/2009	USDFW1080709	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/28/2010	USDFW1012810	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/26/2010	USDFW1082610	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/26/2011	USDFW1012611	1 U	0.3 U	1 U	1 U	**2.07**	1 U
	09/06/2011	USDFW1090611	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/25/2012	USDFW1012512	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/07/2012	USDFW1080712	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/14/2013	USDFW-1-20130814-GW	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/27/2014	USDFW1012714	1 U	0.3 U	1 U	1 U	1 U	1 U
	07/21/2014	USDFW1072114	1 U	0.3 U	8.74	1 U	1 U	1 U
	01/13/2015	USDFW1011315	1 U	0.3 U	1 U	1 U	1 U	1 U

Table 3
Volatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	1,2,4-Trimethyl-benzene	Benzene	Naphtha-lene	Tetrachloro-ethene	Trichloro-ethene	Vinyl chloride
MTCA Method B Groundwater Cleanup Level			24	0.8	160	0.081	0.42	0.029
	08/12/2016	USDFW1081216	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/11/2018	USDFW1011118	1 U	0.3 U	1 U	1 U	1 U	1 U
RMW-2S	08/21/2008	RMW2S082108	1 U	0.3 U	1 U	1 U	1 U	1 U
	10/09/2008	RMW2S100908	1 U	0.3 U	1 U	1 U	1 U	1 U
	02/03/2009	RMW2S020309	1 U	0.3 U	1 U	1 U	1 U	1 U
	04/08/2009	RMW2S040809	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/07/2009	RMW2S080709	1 U	0.3 U	1 U	1 U	**1.12**	1 U
	01/28/2010	RMW2S012810	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/26/2010	RMW2S082610	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/26/2011	RMW2S012611	1 U	0.3 U	1 U	1 U	1 U	1 U
RMW-2S	09/06/2011	RMW2S090611	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/25/2012	RMW2S012512	1 U	0.3 U	1 U	1 U	1 U	1 U
RMW-2D	08/21/2008	RMW2D082108	1 U	0.3 U	1 U	1 U	1 U	1 U
	10/09/2008	RMW2D100908	1 U	0.3 U	1 U	1 U	1 U	1 U
	02/03/2009	RMW2D020309	1 U	0.3 U	1 U	1 U	1 U	1 U
	04/08/2009	RMW2D040809	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/07/2009	RMW2D080709	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/28/2010	RMW2D012810	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/26/2010	RMW2D082610	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/26/2011	RMW2D012611	1 U	0.3 U	1 U	1 U	1 U	1 U
	09/06/2011	RMW2D090611	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/25/2012	RMW2D012512	1 U	0.3 U	1 U	1 U	1 U	1 U
Cell 2 Monitoring Wells (LWBZ)								
MW-55	08/14/2008	MW55081408	1 U	0.3 U	1 U	**5.91**	**4.66**	1 U
	10/03/2008	MW55100308	1 U	0.3 U	1 U	**6.04**	**5.19**	1 U
	01/27/2009	MW55012709	1 U	0.3 U	1 U	**4.81**	**3.96**	1 U
	04/07/2009	MW55040709	1 U	0.3 U	1 U	**3.55**	**4.12**	1 U

Table 3
Volatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	1,2,4-Trimethyl-benzene	Benzene	Naphtha-lene	Tetrachloro-ethene	Trichloro-ethene	Vinyl chloride
MTCA Method B Groundwater Cleanup Level			24	0.8	160	0.081	0.42	0.029
	08/06/2009	MW55080609	1 U	0.3 U	1 U	**3.4**	**3.68**	1 U
	01/14/2010	MW55011410	1 U	0.3 U	1 U	**3.75**	**4.05**	1 U
	08/12/2010	MW55081210	1 U	0.3 U	1 U	**5.16**	**5.03**	1 U
	01/14/2011	MW55011411	1 U	0.3 U	1 U	**4.79**	**3.77**	1 U
	08/08/2011	MW55080811	1 U	0.3 U	1 U	**2.91**	**3.12**	1 U
	01/12/2012	MW55011212	1 U	0.3 U	1 U	**3.94**	**3.02**	1 U
	08/13/2013	MW-55-20130813-GW	1 U	0.3 U	1 U	**2.2**	**2.21**	1 U
	01/24/2014	MW55012414	1 U	0.3 U	1 U	**2.26**	**1.75**	1 U
	07/23/2014	MW55072314	1 U	0.3 U	1 U	**1.94**	**2.03**	1 U
	01/15/2015	MW55011515	1 U	0.3 U	1 U	**1.8**	**1.68**	1 U
	08/11/2016	MW55081116	1 U	0.3 U	1 U	1 U	**1.06**	1 U
	01/09/2018	MW55010918	1 U	0.3 U	14.1	1 U	1 U	1 U
MW-56	08/21/2008	MW56082108	1 U	0.3 U	1 U	1 U	**1.04**	1 U
	10/08/2008	MW-56100808	1 U	0.3 U	1.98	1 U	1 U	1 U
	01/27/2009	MW56012709	1 U	0.3 U	1 U	1 U	1 U	1 U
	04/07/2009	MW56040709	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/06/2009	MW56080609	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/14/2010	MW56011410	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/12/2010	MW56081210	1 U	0.3 U	1 U	1 U	**1.01**	1 U
	01/19/2011	MW56011911	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/26/2011	MW56	1 U	0.3 U	1 U	1 U	1.08	1 U
	01/13/2012	MW56011312	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/13/2013	MW-56-20130813-GW	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/23/2014	MW56012314	1 U	0.3 U	1 U	1 U	1 U	1 U
	07/24/2014	MW56072414	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/15/2015	MW56011515	1 U	0.3 U	1 U	1 U	1 U	1 U

Table 3
Volatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	1,2,4-Trimethyl-benzene	Benzene	Naphtha-lene	Tetrachloro-ethene	Trichloro-ethene	Vinyl chloride
MTCA Method B Groundwater Cleanup Level			24	0.8	160	0.081	0.42	0.029
	08/11/2016	MW56081116	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/10/2018	MW56011018	1 U	0.3 U	1 U	1 U	1 U	1 U
MW-62	09/08/2010	MW62090810	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/14/2011	MW62011411	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/25/2011	MW62082511	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/11/2012	MW62011112	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/07/2012	MW62080712	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/13/2013	MW-62-20130813-GW	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/22/2014	MW62012214	--	--	--	1 U	--	--
	07/22/2014	MW62072314	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/13/2015	MW62011415	--	--	--	1 U	--	--
	08/15/2016	MW62081516	--	--	--	1 U	--	--
	01/09/2018	MW62010918	--	--	--	1 U	--	--
RNWR Monitoring Wells (LWBZ)								
MW-61	09/03/2010	MW61090310	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/24/2011	MW61012411	1 U	0.3 U	1 U	1 U	1 U	1 U
MW-61	09/02/2011	MW61090211	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/24/2012	MW61012412	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/06/2012	MW61080612	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/14/2013	MW-61-20130814-GW	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/23/2014	MW61012314	1 U	0.3 U	3.45	1 U	1 U	1 U
	07/22/2014	MW61072214	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/12/2015	MW61011215	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/12/2016	MW61081216	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/05/2018	MW61010518	1 U	0.3 U	1 U	1 U	1 U	1 U

Table 3
Volatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	1,2,4-Trimethyl-benzene	Benzene	Naphtha-lene	Tetrachloro-ethene	Trichloro-ethene	Vinyl chloride
MTCA Method B Groundwater Cleanup Level			24	0.8	160	0.081	0.42	0.029
MW-63	09/20/2012	MW63-W-110.0	0.5 U	0.3 U	1 U	1 U	0.3 U	0.3 U
	08/14/2013	MW-63-20130814-GW	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/23/2014	MW63012314	1 U	0.3 U	1.67	1 U	1 U	1 U
	07/22/2014	MW63072214	1 U	0.3 U	2.5	1 U	1 U	1 U
	01/12/2015	MW63011215	1 U	0.3 U	1 U	1 U	1 U	1 U
	08/12/2016	MW63081216	1 U	0.3 U	1 U	1 U	1 U	1 U
	01/05/2018	MW63010518	1 U	0.3 U	1 U	**5.26**	1 U	1 U

NOTES:

Bold indicates detected concentration that exceeds MTCA Method B groundwater cleanup level.

-- = not analyzed.

B = Blank exhibited positive result greater than reporting limit for this compound.

dup = duplicate sample.

J = Result for analyte is estimated concentration.

LWBZ = lower water-bearing zone.

MTCA = Washington State Department of Ecology's Model Toxics Control Act.

RNWR = Ridgefield National Wildlife Refuge.

U = not detected at or above method reporting limit.

ug/L = micrograms per liter.

UWBZ = upper water-bearing zone.

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Pentachlorophenol	cPAHs								TEQ cPAHs
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(b+k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene	
MTCA Method B Groundwater Cleanup Level			0.73	NV	NV	NV	NV	NV	NV	NV	NV	0.012
Cell 2 Monitoring Wells (UWBZ)												
MW-55S	08/20/2010	MW55S082010	1.43 U	0.953 U	0.953 U	0.953 U	0.953 U	--	0.953 U	0.953 U	0.953 U	ND
	01/14/2011	MW55S011411	**2.61**	0.953 U	0.953 U	0.953 U	0.953 U	--	0.953 U	0.953 U	0.953 U	ND
	08/08/2011	MW55S080811	1.44 U	0.96 U	0.96 U	0.96 U	0.96 U	--	0.96 U	0.96 U	0.96 U	ND
	01/12/2012	MW55S011212	1.44 U	0.957 U	0.957 U	0.957 U	0.957 U	--	0.957 U	0.957 U	0.957 U	ND
	08/13/2013	MW-55S-20130813-GW	1.5 U	1 U	1 U	1 U	1 U	--	1 U	1 U	1 U	ND
	01/24/2014	MW55S012414	1.42 UJ	0.943 UJ	0.943 UJ	0.943 UJ	0.943 UJ	--	0.943 UJ	0.943 UJ	0.943 UJ	ND
	07/23/2014	MW55S072314	1.42 U	0.152 U	0.158 U	0.336 U	0.186 U	--	0.202 U	0.467 U	0.482 U	ND
	01/15/2015	MW55S011515	LE	LE	LE	LE	LE	--	LE	LE	LE	--
	08/11/2016	MW55S081116	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	--	0.945 U	0.945 U	0.945 U	ND
	01/09/2018	MW555010918	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	--	0.474 U	0.474 U	0.474 U	ND
MW-55D	09/07/2010	MW55D090710	**632**	0.982 U	0.982 U	0.982 U	0.982 U	--	0.982 U	0.982 U	0.982 U	ND
	01/14/2011	MW55D011411	**185**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/08/2011	MW55D080811	7.15 U	0.953 U	0.953 U	0.953 U	0.953 U	--	0.953 U	0.953 U	0.953 U	ND
	01/12/2012	MW55D011212	**364**	0.957 U	0.957 U	0.957 U	0.957 U	--	0.957 U	0.957 U	0.957 U	ND
	08/13/2013	MW-55D-20130813-GW	0.5 U	--	--	--	--	--	--	--	--	--
	01/24/2014	MW55D012414	**17.9**	--	--	--	--	--	--	--	--	--
	07/23/2014	MW55D072314	**262**	--	--	--	--	--	--	--	--	--
	01/15/2015	MW55D011515	**163**	--	--	--	--	--	--	--	--	--
	08/11/2016	MW55D081116	**259**	--	--	--	--	--	--	--	--	--
	01/09/2018	MW55D010918	**605**	--	--	--	--	--	--	--	--	--
MW-57S	08/15/2008	MW57S081508	1.43 U	0.955 U	0.955 U	0.955 U	0.955 U	--	0.955 U	0.955 U	0.955 U	ND
	10/06/2008	MW-57S100608	**2.84**	0.945 U	0.945 U	0.945 U	0.945 U	--	0.945 U	0.945 U	0.945 U	ND
	01/27/2009	MW57S012709	**3.52**	0.945 U	0.945 U	0.945 U	0.945 U	--	0.945 U	0.945 U	0.945 U	ND
	04/07/2009	MW57S040709	1.42 U	0.949 U	0.949 U	0.949 U	0.949 U	--	0.949 U	0.949 U	0.949 U	ND
	08/06/2009	MW57S080609	**12**	0.958 U	0.958 U	0.958 U	0.958 U	--	0.958 U	0.958 U	0.958 U	ND
	01/13/2010	MW57S011310	**1.87**	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	08/12/2010	MW57S081210	1.42 U	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	01/14/2011	MW57S011411	**1.46**	0.954 U	0.954 U	0.954 U	0.954 U	--	0.954 U	0.954 U	0.954 U	ND
	08/25/2011	MW57S082511	1.45 U	0.964 U	0.964 U	0.964 U	0.964 U	--	0.964 U	0.964 U	0.964 U	ND
	01/11/2012	MW57S011112	1.44 U	0.958 U	0.958 U	0.958 U	0.958 U	--	0.958 U	0.958 U	0.958 U	ND
	08/13/2013	MW-57S-20130813-GW	1.5 U	1 U	1 U	1 U	1 U	--	1 U	1 U	1 U	ND
	01/22/2014	MW57S012214	**6.89**	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND
	07/23/2014	MW57S072314	**1.7**	0.152 U	0.158 U	0.336 U	0.186 U	--	0.202 U	0.467 U	0.482 U	ND
	01/14/2015	MW57S011415	1.42 U	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	08/12/2016	MW57S081216	**6.46**	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND
	01/09/2018	MW575010918	**21.5**	0.472 U	0.472 U	0.472 U	0.472 U	--	0.472 U	0.472 U	0.472 U	ND
MW-57D	08/14/2008	MW57D081508	**8220**	1 U	1 U	1 U	1 U	--	1 U	1 U	1 U	ND
	10/06/2008	MW-57D100608	**4800**	0.961 U	0.961 U	0.961 U	0.961 U	--	0.961 U	0.961 U	0.961 U	ND
dup	10/06/2008	MW-57D100608-Dup	**4080**	0.961 U	0.961 U	0.961 U	0.961 U	--	0.961 U	0.961 U	0.961 U	ND
	01/27/2009	MW57D012709	**3900**	0.943 U	0.943 U	0.943 U	0.943 U	--	0.943 U	0.943 U	0.943 U	ND
dup	01/27/2009	MW57D012709-Dup	**4480**	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Pentachlorophenol	cPAHs								TEQ cPAHs
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(b+k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene	
MTCA Method B Groundwater Cleanup Level			0.73	NV	NV	NV	NV	NV	NV	NV	NV	0.012
	04/07/2009	MW57D040709	**3700**	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND
dup	04/07/2009	MW57D040709-Dup	**3640**	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND
	08/06/2009	MW57D080609	**2690**	0.649 U	0.649 U	0.649 U	0.649 U	--	0.649 U	0.649 U	0.649 U	ND
MW-57D	01/13/2010	MW57D011310	**3640**	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
dup	01/13/2010	MW57D011310-Dup	**3580**	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	08/12/2010	MW57D081210	**4160**	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
dup	08/12/2010	MW57D081210-Dup	**3700**	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	01/14/2011	MW57D011411	**4800**	0.953 U	0.953 U	0.953 U	0.953 U	--	0.953 U	0.953 U	0.953 U	ND
dup	01/14/2011	MW57DDUP011411	**4480**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/25/2011	MW57D082511	**1820**	0.952 U	0.952 U	0.952 U	0.952 U	--	0.952 U	0.952 U	0.952 U	ND
dup	08/25/2011	MW57D082511-Dup	**2430**	0.955 U	0.955 U	0.955 U	0.955 U	--	0.955 U	0.955 U	0.955 U	ND
	01/11/2012	MW57D011112	**3180**	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND
dup	01/11/2012	MW57DDUP011112	**2700**	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	08/13/2013	MW-57D-20130813-GW	1.5 U	1 U	1 U	1 U	1 U	--	1 U	1 U	1 U	ND
dup	08/13/2013	MW-57D-20130813-GW-DUP	1.5 U	1 U	1 U	1 U	1 U	--	1 U	1 U	1 U	ND
	01/22/2014	MW57D012214	**1700**	0.946 U	0.946 U	0.946 U	0.946 U	--	0.946 U	0.946 U	0.946 U	ND
dup	01/22/2014	MW57DDUP012214	**4200 J**	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	07/23/2014	MW57D072314	**2910**	0.152 U	0.158 U	0.335 U	0.186 U	--	0.201 U	0.466 U	0.481 U	ND
dup	07/23/2014	MW57DDUP072314	**2980**	0.152 U	0.158 U	0.336 U	0.186 U	--	0.201 U	0.467 U	0.481 U	ND
	01/14/2015	MW57D011415	**2000 J**	0.942 U	0.942 U	0.942 U	0.942 U	--	0.942 U	0.942 U	0.942 U	ND
dup	01/14/2015	MW57DDUP011415	**4000 J**	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	08/12/2016	MW57D081216	**1640**	0.944 U	0.944 U	0.944 U	0.944 U	--	0.944 U	0.944 U	0.944 U	ND
dup	08/12/2016	MW57DDUP081216	**1620**	0.945 U	0.945 U	0.945 U	0.945 U	--	0.945 U	0.945 U	0.945 U	ND
	01/09/2018	MW57D010918	**1020**	0.473 U	0.473 U	0.473 U	0.473 U	--	0.473 U	0.473 U	0.473 U	ND
dup	01/09/2018	MW57DDUP010918	**1100**	0.474 U	0.474 U	0.474 U	0.474 U	--	0.474 U	0.474 U	0.474 U	ND
MW-58D	08/13/2008	MW58D081308	1.42 U	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	10/08/2008	MW-58D100808	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	01/27/2009	MW58D012709	1.42 U	0.946 U	0.946 U	0.946 U	0.946 U	--	0.946 U	0.946 U	0.946 U	ND
	04/07/2009	MW58D040709	1.43 U	0.955 U	0.955 U	0.955 U	0.955 U	--	0.955 U	0.955 U	0.955 U	ND
	08/06/2009	MW58D080609	1.42 U	0.949 U	0.949 U	0.949 U	0.949 U	--	0.949 U	0.949 U	0.949 U	ND
	01/14/2010	MW58D011410	**5.33**	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	08/12/2010	MW58D081210	**2.73**	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	01/19/2011	MW58D011911	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/26/2011	MW58D082611	1.44 U	0.957 U	0.957 U	0.957 U	0.957 U	--	0.957 U	0.957 U	0.957 U	ND
	01/13/2012	MW58D011312	1.43 U	0.953 U	0.953 U	0.953 U	0.953 U	--	0.953 U	0.953 U	0.953 U	ND
	08/13/2013	MW-58D-20130813-GW	0.5 U	--	--	--	--	--	--	--	--	--
	01/23/2014	MW58D012314	**0.838**	--	--	--	--	--	--	--	--	--
	07/24/2014	MW58D072414	0.473 U	--	--	--	--	--	--	--	--	--
	01/15/2015	MW58D011515	0.473 U	--	--	--	--	--	--	--	--	--
	08/11/2016	MW58D081116	0.472 U	--	--	--	--	--	--	--	--	--
	01/10/2018	MW58D011018	0.471 U	--	--	--	--	--	--	--	--	--

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Pentachlorophenol	cPAHs								TEQ cPAHs
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(b+k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene	
MTCA Method B Groundwater Cleanup Level			0.73	NV	NV	NV	NV	NV	NV	NV	NV	0.012
RNWR Monitoring Wells (UWBZ)												
USDFW-1	10/24/2003	USDFW-1-102403	**4**	0.098 U	0.098 U	0.098 U	0.098 U	--	0.098 U	0.098 U	0.098 U	ND
	05/04/2004	USDFW1-050404	**3.1**	0.096 U	0.096 U	0.096 U	0.096 U	--	0.096 U	0.096 U	0.096 U	ND
	08/13/2004	USDFW1-081304	**26**	0.11 U	0.11 U	0.11 U	0.11 U	--	0.11 U	0.11 U	0.11 U	ND
	10/25/2004	USDFW1-102504	0.96 U	0.096 U	0.096 U	0.096 U	0.096 U	--	0.096 U	0.096 U	0.096 U	ND
	01/28/2005	USDFW1012805	0.189 U	0.0189 U	0.0189 U	--	--	0.0943 U	0.0189 U	0.0189 U	0.0189 U	ND
	07/28/2005	USDFW1072805	0.19 U	0.019 U	0.019 U	--	--	0.0952 U	0.019 U	0.019 U	0.019 U	ND
USDFW-1	02/01/2006	USDFW1020106	**5.67**	0.965 U	0.965 U	0.965 U	0.965 U	--	0.965 U	0.965 U	0.965 U	ND
	08/11/2006	USDFW1081106	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	01/22/2007	USDFW1012207	1.42 U	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	08/27/2007	USDFW1082707	1.42 U	0.946 U	0.946 U	0.946 U	0.946 U	--	0.946 U	0.946 U	0.946 U	ND
	01/28/2008	USDFW1012808	1.42 U	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND
	08/21/2008	USDW1082108	1.42 U	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	02/03/2009	USDFW1020309	1.42 U	0.946 U	0.946 U	0.946 U	0.946 U	--	0.946 U	0.946 U	0.946 U	ND
	08/07/2009	USDFW1080709	1.41 U	0.943 U	0.943 U	0.943 U	0.943 U	--	0.943 U	0.943 U	0.943 U	ND
	01/28/2010	USDFW1012810	1.52 U	1.01 U	1.01 U	1.01 U	1.01 U	--	1.01 U	1.01 U	1.01 U	ND
	08/26/2010	USDFW1082610	1.42 U	0.946 U	0.946 U	0.946 U	0.946 U	--	0.946 U	0.946 U	0.946 U	ND
	01/26/2011	USDFW1012611	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	09/06/2011	USDFW1090611	1.43 U	0.954 U	0.954 U	0.954 U	0.954 U	--	0.954 U	0.954 U	0.954 U	ND
	01/25/2012	USDFW1012512	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/07/2012	USDFW1080712	0.474 U	--	--	--	--	--	--	--	--	--
	08/14/2013	USDFW-1-20130814-GW	0.5 U	--	--	--	--	--	--	--	--	--
	01/27/2014	USDFW1012714	0.471 U	--	--	--	--	--	--	--	--	--
	07/21/2014	USDFW1072114	0.476 U	--	--	--	--	--	--	--	--	--
	01/13/2015	USDFW1011315	0.469 U	--	--	--	--	--	--	--	--	--
	08/12/2016	USDFW1081216	0.473 U	--	--	--	--	--	--	--	--	--
	01/11/2018	USDFW1011118	0.47 U	--	--	--	--	--	--	--	--	--
RMW-2S	08/21/2008	RMW2S082108	1.42 U	0.949 U	0.949 U	0.949 U	0.949 U	--	0.949 U	0.949 U	0.949 U	ND
	10/09/2008	RMW2S100908	1.42 U	0.949 U	0.949 U	0.949 U	0.949 U	--	0.949 U	0.949 U	0.949 U	ND
	02/03/2009	RMW2S020309	1.42 U	0.944 U	0.944 U	0.944 U	0.944 U	--	0.944 U	0.944 U	0.944 U	ND
	04/08/2009	RMW2S040809	1.42 U	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	08/07/2009	RMW2S080709	**7.06**	0.945 U	0.945 U	0.945 U	0.945 U	--	0.945 U	0.945 U	0.945 U	ND
	01/28/2010	RMW2S012810	1.42 U	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	08/26/2010	RMW2S082610	1.42 U	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	01/26/2011	RMW2S012611	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	09/06/2011	RMW2S090611	1.43 U	0.952 U	0.952 U	0.952 U	0.952 U	--	0.952 U	0.952 U	0.952 U	ND
	01/25/2012	RMW2S012512	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/07/2012	RMW2S080712	**2.28**	--	--	--	--	--	--	--	--	--
	08/14/2013	RMW-2S-20130814-GW	0.5 U	--	--	--	--	--	--	--	--	--
	01/27/2014	RMW2S012714	0.473 U	--	--	--	--	--	--	--	--	--
	07/21/2014	RMW2S072114	**3.13**	--	--	--	--	--	--	--	--	--
	01/13/2015	RMW2S011315	0.471 U	--	--	--	--	--	--	--	--	--

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Pentachlorophenol	cPAHs								TEQ cPAHs
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(b+k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene	
MTCA Method B Groundwater Cleanup Level			0.73	NV	NV	NV	NV	NV	NV	NV	NV	0.012
	08/12/2016	RMW2S081216	0.474 U	--	--	--	--	--	--	--	--	--
	01/10/2018	RMW25011018	0.473 U	--	--	--	--	--	--	--	--	--
RMW-2D	08/21/2008	RMW2D082108	1.44 U	0.961 U	0.961 U	0.961 U	0.961 U	--	0.961 U	0.961 U	0.961 U	ND
	10/09/2008	RMW2D100908	**5.89**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	02/03/2009	RMW2D020309	1.42 U	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	04/08/2009	RMW2D040809	**3.93**	0.946 U	0.946 U	0.946 U	0.946 U	--	0.946 U	0.946 U	0.946 U	ND
	08/07/2009	RMW2D080709	**7.26**	0.944 U	0.944 U	0.944 U	0.944 U	--	0.944 U	0.944 U	0.944 U	ND
	01/28/2010	RMW2D012810	1.42 U	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	08/26/2010	RMW2D082610	**3.53**	0.945 U	0.945 U	0.945 U	0.945 U	--	0.945 U	0.945 U	0.945 U	ND
RMW-2D	01/26/2011	RMW2D012611	**1.74**	0.952 U	0.952 U	0.952 U	0.952 U	--	0.952 U	0.952 U	0.952 U	ND
	09/06/2011	RMW2D090611	**3.04**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	01/25/2012	RMW2D012512	**1.83**	0.957 U	0.957 U	0.957 U	0.957 U	--	0.957 U	0.957 U	0.957 U	ND
	08/07/2012	RMW2D080712	**2.21**	--	--	--	--	--	--	--	--	--
	08/14/2013	RMW-2D-20130814-GW	**3.55**	--	--	--	--	--	--	--	--	--
	01/27/2014	RMW2D012714	**5.26**	--	--	--	--	--	--	--	--	--
	07/21/2014	RMW2D072114	**2.93**	--	--	--	--	--	--	--	--	--
	01/13/2015	RMW2D011315	0.471 U	--	--	--	--	--	--	--	--	
	08/12/2016	RMW2D081216	0.484 U	--	--	--	--	--	--	--	--	--
	01/10/2018	RMW20011018	**2.23**	--	--	--	--	--	--	--	--	--
Cell 2 (LWBZ)												
MW-55	08/14/2008	MW55081408	**828**	0.955 U	0.955 U	0.955 U	0.955 U	--	0.955 U	0.955 U	0.955 U	ND
	10/03/2008	MW55100308	**448**	0.954 U	0.954 U	0.954 U	0.954 U	--	0.954 U	0.954 U	0.954 U	ND
	01/27/2009	MW55012709	**485**	0.946 U	0.946 U	0.946 U	0.946 U	--	0.946 U	0.946 U	0.946 U	ND
	04/07/2009	MW55040709	**410**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/06/2009	MW55080609	**418**	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	01/14/2010	MW55011410	**293**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/12/2010	MW55081210	**632**	0.949 U	0.949 U	0.949 U	0.949 U	--	0.949 U	0.949 U	0.949 U	ND
	01/14/2011	MW55011411	**544**	0.957 U	0.957 U	0.957 U	0.957 U	--	0.957 U	0.957 U	0.957 U	ND
	08/08/2011	MW55080811	7.13 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	01/12/2012	MW55011212	**253**	0.952 U	0.952 U	0.952 U	0.952 U	--	0.952 U	0.952 U	0.952 U	ND
	08/13/2013	MW-55-20130813-GW	**419**	--	--	--	--	--	--	--	--	--
	01/24/2014	MW55012414	**781**	--	--	--	--	--	--	--	--	--
	07/23/2014	MW55072314	**293**	--	--	--	--	--	--	--	--	--
	01/15/2015	MW55011515	**322**	--	--	--	--	--	--	--	--	
	08/11/2016	MW55081116	**187**	--	--	--	--	--	--	--	--	--
	01/09/2018	MW55010918	**297**	--	--	--	--	--	--	--	--	--
MW-56	08/21/2008	MW56082108	**23.1**	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND
	10/08/2008	MW-56100808	**18.7**	0.955 U	0.955 U	0.955 U	0.955 U	--	0.955 U	0.955 U	0.955 U	ND
	01/27/2009	MW56012709	**26.9**	0.945 U	0.945 U	0.945 U	0.945 U	--	0.945 U	0.945 U	0.945 U	ND
	04/07/2009	MW56040709	**27.6**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/06/2009	MW56080609	**33.2**	0.949 U	0.949 U	0.949 U	0.949 U	--	0.949 U	0.949 U	0.949 U	ND
	01/14/2010	MW56011410	**10.1**	0.952 U	0.952 U	0.952 U	0.952 U	--	0.952 U	0.952 U	0.952 U	ND

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Pentachlorophenol	cPAHs								TEQ cPAHs
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(b+k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene	
MTCA Method B Groundwater Cleanup Level			0.73	NV	NV	NV	NV	NV	NV	NV	NV	0.012
	08/12/2010	MW56081210	**31.9**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	01/19/2011	MW56011911	**23.3**	0.952 U	0.952 U	0.952 U	0.952 U	--	0.952 U	0.952 U	0.952 U	ND
	08/26/2011	MW56082611	**26.1**	0.96 U	0.96 U	0.96 U	0.96 U	--	0.96 U	0.96 U	0.96 U	ND
	01/13/2012	MW56011312	**11.5**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	08/13/2013	MW-56-20130813-GW	0.5 U	--	--	--	--	--	--	--	--	--
	01/23/2014	MW56012314	**49.8**	--	--	--	--	--	--	--	--	--
	07/24/2014	MW56072414	**32.3**	--	--	--	--	--	--	--	--	--
	01/15/2015	MW56011515	**20.6**	--	--	--	--	--	--	--	--	
	08/11/2016	MW56081116	**31.5**	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	01/10/2018	MW56011018	**33.9**	0.478 U	0.478 U	0.478 U	0.478 U	--	0.478 U	0.478 U	0.478 U	ND
MW-62	09/08/2010	MW62090810	**22.4**	0.985 U	0.985 U	0.985 U	0.985 U	--	0.985 U	0.985 U	0.985 U	ND
	01/14/2011	MW62011411	**10.7**	1.24	1.07	0.951 U	1.41	--	1.29	1.04	0.989	**1.60**
	08/25/2011	MW62082511	1.43 U	0.954 U	0.954 U	0.954 U	0.954 U	--	0.954 U	0.954 U	0.954 U	ND
	01/11/2012	MW62011112	**13.4**	0.954 U	0.954 U	0.954 U	0.954 U	--	0.954 U	0.954 U	0.954 U	ND
	08/07/2012	MW62080712	0.477 U	--	--	--	--	--	--	--	--	--
	08/13/2013	MW-62-20130813-GW	0.5 U	--	--	--	--	--	--	--	--	--
	01/22/2014	MW62012214	**31.3**	--	--	--	--	--	--	--	--	--
	07/22/2014	MW62072314	**16**	--	--	--	--	--	--	--	--	--
	01/13/2015	MW62011415	**17**	--	--	--	--	--	--	--	--	--
	08/15/2016	MW62081516	**39.9**	--	--	--	--	--	--	--	--	--
	01/09/2018	MW62010918	**68.4**	--	--	--	--	--	--	--	--	--
RNWR Monitoring Well (LWBZ)												
MW-60	09/03/2008	MW60090308	**94.5**	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	10/09/2008	MW601000908	**68.9**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	02/03/2009	MW60020309	**51**	0.989	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	04/08/2009	MW60040809	**91.2**	0.945 U	0.945 U	0.945 U	0.945 U	--	0.945 U	0.945 U	0.945 U	ND
	08/07/2009	MW60080709	**57.5**	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	01/28/2010	MW60012810	**70.2**	0.948 U	0.948 U	0.948 U	0.948 U	--	0.948 U	0.948 U	0.948 U	ND
	08/25/2010	MW60082510	**72.2**	0.95 U	0.95 U	0.95 U	0.95 U	--	0.95 U	0.95 U	0.95 U	ND
	01/24/2011	MW60012411	**80.4**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	09/06/2011	MW60090611	**94.4**	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	01/25/2012	MW60012512	**90.6**	0.953 U	0.953 U	0.953 U	0.953 U	--	0.953 U	0.953 U	0.953 U	ND
MW-61	09/03/2010	MW61090310	1.51 U	1.01 U	1.01 U	1.01 U	1.01 U	--	1.01 U	1.01 U	1.01 U	ND
	01/24/2011	MW61012411	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	09/02/2011	MW61090211	1.43 U	0.951 U	0.951 U	0.951 U	0.951 U	--	0.951 U	0.951 U	0.951 U	ND
	01/24/2012	MW61012412	1.44 U	0.958 U	0.958 U	0.958 U	0.958 U	--	0.958 U	0.958 U	0.958 U	ND
	08/06/2012	MW61080612	0.476 U	--	--	--	--	--	--	--	--	--
	08/14/2013	MW-61-20130814-GW	1.5 U	1 U	1 U	1 U	1 U	--	1 U	1 U	1 U	ND
	01/23/2014	MW61012314	1.43 U	0.955 U	0.955 U	0.955 U	0.955 U	--	0.955 U	0.955 U	0.955 U	ND
	07/22/2014	MW61072214	0.475 U	--	--	--	--	--	--	--	--	--
	01/12/2015	MW61011215	0.473 U	--	--	--	--	--	--	--	--	--

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Pentachlorophenol	cPAHs								TEQ cPAHs
				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(b+k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Indeno(1,2,3-cd) pyrene	
MTCA Method B Groundwater Cleanup Level			0.73	NV	NV	NV	NV	NV	NV	NV	NV	0.012
MW-63	08/12/2016	MW61081216	1.42 U	0.949 U	0.949 U	0.949 U	0.949 U	--	0.949 U	0.949 U	0.949 U	ND
	01/05/2018	MW61010518	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	--	0.474 U	0.474 U	0.474 U	ND
	09/20/2012	MW63-W-110.0	**1.97 J**	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	--	1.03 UJ	1.03 UJ	1.03 UJ	ND
	08/14/2013	MW-63-20130814-GW	1.5 U	1 U	1 U	1 U	1 U	--	1 U	1 U	1 U	ND
	01/23/2014	MW63012314	1.43 U	0.952 U	0.952 U	0.952 U	0.952 U	--	0.952 U	0.952 U	0.952 U	ND
	07/22/2014	MW63072214	1.41 U	0.152 U	0.157 U	0.335 U	0.186 U	--	0.201 U	0.466 U	0.48 U	ND
	01/12/2015	MW63011215	1.42 U	0.947 U	0.947 U	0.947 U	0.947 U	--	0.947 U	0.947 U	0.947 U	ND
	08/12/2016	MW63081216	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U		0.949 U	0.949 U	0.949 U	ND
	01/05/2018	MW63010518	**1.79**	0.473 U	0.473 U	0.473 U	0.473 U	--	0.473 U	0.473 U	0.473 U	ND

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Noncarcinogenic PAHs											
			Dibenzofuran	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(ghi) perylene	Bis(2-ethylhexyl) phthalate	Carbazole	Fluoranthene	Fluorene	Naphthalene
MTCA Method B Groundwater Cleanup Level			32	1.5	32	960	NV	4800	NV	6.3	4.4	640	640	160
Cell 2 Monitoring Wells (UWBZ)														
MW-55S	08/20/2010	MW55S082010	**51.5**	**325**	**248**	202	0.953 U	5.00	0.953 U	1.22	**43.5**	1.03	42.4	**582**
	01/14/2011	MW55S011411	**64.6**	**390**	**214**	267	0.953 U	4.05	0.953 U	0.953 U	**61.2**	0.953 U	50.9	**625**
	08/08/2011	MW55S080811	**41**	**262**	**66.1**	95.8	0.96 U	2.61	0.96 U	0.96 U	**41.7**	0.96 U	33.8	**322**
	01/12/2012	MW55S011212	**61.7**	**235**	**102**	139	0.957 U	2.78	0.957 U	0.957 U	**54.1**	0.957 U	53.3	**262**
	08/13/2013	MW-55S-20130813-GW	**68.9**	**446**	**128**	230	1 U	5.35	1 U	1 U	**48**	1.66	62.7	**221**
	01/24/2014	MW55S012414	**41.7 J**	**898 J**	**47.9 J**	529 J	0.943 UJ	3.76 J	0.943 UJ	0.943 UJ	**23.9 J**	0.962 J	35.9 J	39.4 J
	07/23/2014	MW55S072314	**66**	**452**	**65.6**	242	0.946 U	5.45	0.946 U	0.946 U	**39.4**	1.9	61.7	50.9
	01/15/2015	MW55S011515	LE	LE	LE	LE	LE	LE	LE	LE	LE	LE	LE	LE
	08/11/2016	MW55S081116	**90**	**427**	**71.1**	245	0.945 U	8.78	0.945 U	0.945 U	**54.5**	2.29	76	77.6
	01/09/2018	MW555010918	**101**	**445**	**57.2**	259	1.01	8.49	0.474 U	0.474 U	**51.5**	2.46	83.9	89
MW-55D	09/07/2010	MW55D090710	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U	0.982 U
	01/14/2011	MW55D011411	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	08/08/2011	MW55D080811	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U
	01/12/2012	MW55D011212	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U
	08/13/2013	MW-55D-20130813-GW	--	--	--	--	--	--	--	--	--	--	--	--
	01/24/2014	MW55D012414	--	--	--	--	--	--	--	--	--	--	--	--
	07/23/2014	MW55D072314	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/2015	MW55D011515	--	--	--	--	--	--	--	--	--	--	--	--
	08/11/2016	MW55D081116	--	--	--	--	--	--	--	--	--	--	--	--
	01/09/2018	MW55D010918	--	--	--	--	--	--	--	--	--	--	--	--
MW-57S	08/15/2008	MW57S081508	**76.4**	**479**	**765**	185	5.87	6.89	0.955 U	0.955 U	**132**	2.68	61.4	**7040**
	10/06/2008	MW-57S100608	**539**	**833**	**222**	5.34	7.76	0.945 U	0.945 U	**80.8**	**61.3**	2.98	53.5	**12300**
	01/27/2009	MW57S012709	**71.0**	**452**	**760**	212	0.945 U	8.88	0.945 U	1.64	**90.3**	3.84	61.3	**7260**
	04/07/2009	MW57S040709	**67.9**	**422**	**662**	161	5.36	7.51	0.949 U	0.949 U	**129**	2.97	54.4	**10700**
	08/06/2009	MW57S080609	**71.4**	**407**	**757**	169	6.69	7.91	0.958 U	0.958 U	**199**	3.98	72	**10300**
	01/13/2010	MW57S011310	**86.4**	**714**	**667**	196	5.64	8.50	0.948 U	0.948 U	**154**	3.26	67.6	**11100**
	08/12/2010	MW57S081210	**64.6**	**469**	**784**	180	5.24	10.7	0.948 U	0.948 U	**152**	3.54	50.7	**9680**
	01/14/2011	MW57S011411	**68.8**	**706**	**1150**	201	6.16	9.32	0.954 U	0.954 U	**149**	3.94	56.3	**12700**
	08/25/2011	MW57S082511	0.964 U	**369**	**588**	142	4.37	0.964 U	0.964 U	0.964 U	**64.2**	2.64	36.4	**4380**
	01/11/2012	MW57S011112	**84.5**	**354**	**628**	175	5.73	8.43	0.958 U	0.958 U	**111**	3.65	63.6	**6150**
	08/13/2013	MW-57S-20130813-GW	**57.7**	**438**	**535**	167	3.69	5.78	1 U	1 U	**140**	2.53	45.2	**6630**
	01/22/2014	MW57S012214	**128**	**532**	**893**	301	8.47	16.9	0.95 U	0.95 U	**216**	5.11	87.2	**16400**
	07/23/2014	MW57S072314	**70.6**	**351**	**593**	178	4.88	8.39	0.946 U	0.946 U	**123**	2.93	58	**5360**
	01/14/2015	MW57S011415	**53**	**460**	**660**	230	5.96	12.1	0.948 U	0.948 U	**186**	4.59	52.1	**5600**
	08/12/2016	MW57S081216	**68.6**	**367**	**597**	142	4.3	8.76	0.95 U	0.95 U	**129**	3.31	50.9	**3940**
	01/09/2018	MW575010918	**98.5**	**453**	**718**	212	4.7	10.4	0.472 U	0.472 U	**163**	4.46	73.9	**9320**
MW-57D	08/14/2008	MW57D081508	4.21	**2.97**	1 U	1 U	1 U	1 U	1 U	1 U	**8.39**	1 U	1 U	39
	10/06/2008	MW-57D100608	3.45	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	**8.95**	**4.54**	0.961 U	0.961 U	51.9
dup	10/06/2008	MW-57D100608-Dup	4.00	1.17	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	**10.7**	**5.70**	0.961 U	0.961 U	62.0
	01/27/2009	MW57D012709	5.12	**3.00**	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	**9.85**	0.943 U	0.943 U	41.1
dup	01/27/2009	MW57D012709-Dup	5.15	**3.45**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	**10.7**	0.95 U	0.95 U	52.9

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Noncarcinogenic PAHs											
			Dibenzofuran	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(ghi) perylene	Bis(2-ethylhexyl) phthalate	Carbazole	Fluoranthene	Fluorene	Naphthalene
MTCA Method B Groundwater Cleanup Level			32	1.5	32	960	NV	4800	NV	6.3	4.4	640	640	160
	04/07/2009	MW57D040709	3.54	**2.40**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	**7.49**	0.95 U	0.95 U	37.3
dup	04/07/2009	MW57D040709-Dup	4.44	**3.14**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	**8.40**	0.95 U	0.95 U	48.5
	08/06/2009	MW57D080609	3.32	**2.13**	0.649 U	0.649 U	0.649 U	0.649 U	0.649 U	0.649 U	**9.07**	0.649 U	0.649 U	33.6
MW-57D	01/13/2010	MW57D011310	3.96	**2.36**	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	**9.32**	0.947 U	0.947 U	49.1
dup	01/13/2010	MW57D011310-Dup	4.08	**2.34**	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	**9.39**	0.947 U	0.947 U	48.9
	08/12/2010	MW57D081210	5.09	**2.73**	1.04	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	**10.3**	0.948 U	0.948 U	49.3 B
dup	08/12/2010	MW57D081210-Dup	3.95	**2.05**	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	**8.30**	0.947 U	0.947 U	45.4 B
	01/14/2011	MW57D011411	7.62	**3.93**	1.27	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	**13.3**	0.953 U	0.953 U	84.7
dup	01/14/2011	MW57DDUP011411	5.8	**3.21**	1.07	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	**10.1**	0.951 U	0.951 U	74.6
	08/25/2011	MW57D082511	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	**7.86**	0.952 U	0.952 U	35.7
dup	08/25/2011	MW57D082511-Dup	4.14	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	**8.27**	0.955 U	0.955 U	38.8
	01/11/2012	MW57D011112	4.81	**1.87**	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	**10.3**	0.95 U	0.95 U	44.6
dup	01/11/2012	MW57DDUP011112	4.38	**1.7**	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	**9.49**	0.948 U	0.948 U	41.3
	08/13/2013	MW-57D-20130813-GW	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.38
dup	08/13/2013	MW-57D-20130813-GW-DUP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.45
	01/22/2014	MW57D012214	0.946 U	**1.84 J**	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	2.43 J	0.946 U	0.946 U	48.5 J
dup	01/22/2014	MW57DDUP012214	1.81	**6.77 J**	2.51	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	**5.11 J**	0.947 U	0.947 U	**245 J**
	07/23/2014	MW57D072314	5.24	**3.58**	1.83	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	**10**	0.944 U	0.944 U	55.7
dup	07/23/2014	MW57DDUP072314	4.59	**3.37**	1.72	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	**10.1**	0.945 U	0.945 U	54.6
	01/14/2015	MW57D011415	4.27 J	**2.09 J**	0.942 U	0.942 U	0.942 U	0.942 U	0.942 U	0.942 U	**10.9**	0.942 U	0.942 U	33.7
dup	01/14/2015	MW57DDUP011415	8.48 J	**17.8 J**	3.41	12.1 J	0.947 U	0.947 U	0.947 U	0.947 U	**13.5**	0.947 U	3.5 J	50.7
	08/12/2016	MW57D081216	5.12	**3.98**	1.07	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	**11.6**	0.944 U	0.944 U	80.9
dup	08/12/2016	MW57DDUP081216	4.28	**3.69**	1.05	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	**10.8**	0.945 U	0.945 U	78.9
	01/09/2018	MW57D010918	1.28	1.2	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	2.38 J	0.473 U	0.473 U	21
dup	01/09/2018	MW57DDUP010918	2.44	**1.86**	0.483	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	4.05 J	0.474 U	0.474 U	25.2
MW-58D	08/13/2008	MW58D081308	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U
	10/08/2008	MW-58D100808	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	1.07
	01/27/2009	MW58D012709	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U
	04/07/2009	MW58D040709	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U
	08/06/2009	MW58D080609	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U
	01/14/2010	MW58D011410	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U
	08/12/2010	MW58D081210	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U
	01/19/2011	MW58D011911	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	08/26/2011	MW58D082611	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U
	01/13/2012	MW58D011312	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U
	08/13/2013	MW-58D-20130813-GW	--	--	--	--	--	--	--	--	--	--	--	--
	01/23/2014	MW58D012314	--	--	--	--	--	--	--	--	--	--	--	--
	07/24/2014	MW58D072414	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/2015	MW58D011515	--	--	--	--	--	--	--	--	--	--	--	--
	08/11/2016	MW58D081116	--	--	--	--	--	--	--	--	--	--	--	--
	01/10/2018	MW58D011018	--	--	--	--	--	--	--	--	--	--	--	--

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Noncarcinogenic PAHs											
			Dibenzofuran	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(ghi) perylene	Bis(2-ethylhexyl) phthalate	Carbazole	Fluoranthene	Fluorene	Naphthalene
MTCA Method B Groundwater Cleanup Level			32	1.5	32	960	NV	4800	NV	6.3	4.4	640	640	160
RNWR Monitoring Wells (UWBZ)														
USDFW-1	10/24/2003	USDFW-1-102403	4.9	--	1.1	3.9	0.16	0.36	0.098 U	--	**17**	0.098 U	3.4	120
	05/04/2004	USDFW1-050404	4.4	--	0.39	3.6	0.13	0.4	0.096 U	--	**18**	0.096 U	3.1	87
	08/13/2004	USDFW1-081304	4.4	--	0.19	2.3	0.11 U	0.38	0.11 U	--	**14**	0.11 U	2.4	28
	10/25/2004	USDFW1-102504	2.7	--	0.18	2.1	0.096 U	0.32	0.096 U	--	**7.3**	0.096 U	2.3	39
	01/28/2005	USDFW1012805	1.35	**2.2**	0.0679	1.48	0.0923	0.968	0.0189 U	**13**	**5.46**	0.0189 U	1.77	21.1
	07/28/2005	USDFW1072805	1.3	**0.883**	0.0476 U	1.35	0.0943 U	0.156	0.019 U	**15**	0.22	0.019 U	1.36	2.53
USDFW-1	02/01/2006	USDFW1020106	0.965 U	0.965 U	0.965 U	0.965 U	0.965 U	0.965 U	0.965 U	5.69	0.965 U	0.965 U	0.965 U	0.965 U
	08/11/2006	USDFW1081106	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	2.73	2.51	0.951 U	0.951 U	0.951 U
	01/22/2007	USDFW1012207	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	2.08	0.948 U	0.948 U	0.948 U
	08/27/2007	USDFW1082707	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	1.70	0.946 U	0.946 U	0.946 U
	01/28/2008	USDFW1012808	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	1.51	0.95 U	0.95 U	0.95 U
	08/21/2008	USDW1082108	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U
	02/03/2009	USDFW1020309	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U
	08/07/2009	USDFW1080709	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U
	01/28/2010	USDFW1012810	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U
	08/26/2010	USDFW1082610	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U
	01/26/2011	USDFW1012611	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	09/06/2011	USDFW1090611	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U
	01/25/2012	USDFW1012512	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	08/07/2012	USDFW1080712	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/2013	USDFW-1-20130814-GW	--	--	--	--	--	--	--	--	--	--	--	--
	01/27/2014	USDFW1012714	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/2014	USDFW1072114	--	--	--	--	--	--	--	--	--	--	--	--
	01/13/2015	USDFW1011315	--	--	--	--	--	--	--	--	--	--	--	--
	08/12/2016	USDFW1081216	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/2018	USDFW1011118	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2S	08/21/2008	RMW2S082108	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	1 U
	10/09/2008	RMW2S100908	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U
	02/03/2009	RMW2S020309	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U
	04/08/2009	RMW2S040809	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U
	08/07/2009	RMW2S080709	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U
	01/28/2010	RMW2S012810	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U
	08/26/2010	RMW2S082610	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U
	01/26/2011	RMW2S012611	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	09/06/2011	RMW2S090611	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U
	01/25/2012	RMW2S012512	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	08/07/2012	RMW2S080712	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/2013	RMW-2S-20130814-GW	--	--	--	--	--	--	--	--	--	--	--	--
	01/27/2014	RMW2S012714	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/2014	RMW2S072114	--	--	--	--	--	--	--	--	--	--	--	--
	01/13/2015	RMW2S011315	--	--	--	--	--	--	--	--	--	--	--	--

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Noncarcinogenic PAHs											
			Dibenzofuran	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(ghi) perylene	Bis(2-ethylhexyl) phthalate	Carbazole	Fluoranthene	Fluorene	Naphthalene
MTCA Method B Groundwater Cleanup Level			32	1.5	32	960	NV	4800	NV	6.3	4.4	640	640	160
	08/12/2016	RMW2S081216	--	--	--	--	--	--	--	--	--	--	--	--
	01/10/2018	RMW25011018	--	--	--	--	--	--	--	--	--	--	--	--
RMW-2D	08/21/2008	RMW2D082108	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	0.961 U	1 U
	10/09/2008	RMW2D100908	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	02/03/2009	RMW2D020309	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U
	04/08/2009	RMW2D040809	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U
	08/07/2009	RMW2D080709	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U	0.944 U
	01/28/2010	RMW2D012810	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U
	08/26/2010	RMW2D082610	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U
RMW-2D	01/26/2011	RMW2D012611	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U
	09/06/2011	RMW2D090611	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	01/25/2012	RMW2D012512	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U
	08/07/2012	RMW2D080712	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/2013	RMW-2D-20130814-GW	--	--	--	--	--	--	--	--	--	--	--	--
	01/27/2014	RMW2D012714	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/2014	RMW2D072114	--	--	--					--				--
	01/13/2015	RMW2D011315	--	--	--	--	--	--	--	--	--	--	--	--
	08/12/2016	RMW2D081216	--	--	--	--	--	--	--	--	--	--	--	--
	01/10/2018	RMW20011018	--	--	--	--	--	--	--	--	--	--	--	--
Cell 2 (LWBZ)														
MW-55	08/14/2008	MW55081408	1.39	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U
	10/03/2008	MW55100308	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	1.35	0.954 U	0.954 U	0.954 U
	01/27/2009	MW55012709	1.38	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	0.946 U	1.47
	04/07/2009	MW55040709	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	08/06/2009	MW55080609	1.1	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	1.26
	01/14/2010	MW55011410	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	08/12/2010	MW55081210	1.34	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U
	01/14/2011	MW55011411	1.39	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U	0.957 U
	08/08/2011	MW55080811	1.2	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	01/12/2012	MW55011212	1.04	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U
	08/13/2013	MW-55-20130813-GW	--	--	--	--	--	--	--	--	--	--	--	--
	01/24/2014	MW55012414	--	--	--	--	--	--	--	--	--	--	--	--
	07/23/2014	MW55072314	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/2015	MW55011515	--	--	--	--	--	--	--	--	--	--	--	--
	08/11/2016	MW55081116	--	--	--	--	--	--	--	--	--	--	--	--
	01/09/2018	MW55010918	--	--	--	--	--	--	--	--	--	--	--	--
MW-56	08/21/2008	MW56082108	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
	10/08/2008	MW-56100808	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	2.05
	01/27/2009	MW56012709	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U
	04/07/2009	MW56040709	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	08/06/2009	MW56080609	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U
	01/14/2010	MW56011410	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U

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MTCA Method B Groundwater Cleanup Level			32	1.5	32	960	NV	4800	NV	6.3	4.4	640	640	160
	08/12/2010	MW56081210	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	01/19/2011	MW56011911	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U
	08/26/2011	MW56082611	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U	0.96 U
	01/13/2012	MW56011312	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	08/13/2013	MW-56-20130813-GW	--	--	--	--	--	--	--	--	--	--	--	--
	01/23/2014	MW56012314	--	--	--	--	--	--	--	--	--	--	--	--
	07/24/2014	MW56072414	--	--	--	--	--	--	--	--	--	--	--	--
	01/15/2015	MW56011515	--	--	--	--	--	--	--	--	--	--	--	--
	08/11/2016	MW56081116	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U
	01/10/2018	MW56011018	0.478 U	0.478 U	0.478 U	0.478 U	0.478 U	0.478 U	0.478 U	0.478 U	0.478 U	0.478 U	0.478 U	0.478 U
MW-62	09/08/2010	MW62090810	0.985 U	0.985 U	0.985 U	0.985 U	0.985 U	0.985 U	0.985 U	0.985 U	0.985 U	0.985 U	0.985 U	0.985 U
	01/14/2011	MW62011411	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	1.19	1.02	1.14	1.1	1.25	0.951 U	0.951 U
	08/25/2011	MW62082511	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U
	01/11/2012	MW62011112	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U	0.954 U
	08/07/2012	MW62080712	--	--	--	--	--	--	--	--	--	--	--	--
	08/13/2013	MW-62-20130813-GW	--	--	--	--	--	--	--	--	--	--	--	--
	01/22/2014	MW62012214	--	--	--	--	--	--	--	--	--	--	--	--
	07/22/2014	MW62072314	--	--	--	--	--	--	--	--	--	--	--	--
	01/13/2015	MW62011415	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/2016	MW62081516	--	--	--	--	--	--	--	--	--	--	--	--
	01/09/2018	MW62010918	--	--	--	--	--	--	--	--	--	--	--	--
RNWR Monitoring Well (LWBZ)														
MW-60	09/03/2008	MW60090308	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U
	10/09/2008	MW601000908	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	02/03/2009	MW60020309	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	04/08/2009	MW60040809	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U	0.945 U
	08/07/2009	MW60080709	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U
	01/28/2010	MW60012810	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U	0.948 U
	08/25/2010	MW60082510	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
	01/24/2011	MW60012411	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	09/06/2011	MW60090611	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	01/25/2012	MW60012512	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U	0.953 U
MW-61	09/03/2010	MW61090310	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U
	01/24/2011	MW61012411	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	09/02/2011	MW61090211	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
	01/24/2012	MW61012412	0.958 U	0.958 U	0.958 U	0.958 U	0.958 U	0.958 U	0.958 U	0.958 U	0.958 U	0.958 U	0.958 U	0.958 U
	08/06/2012	MW61080612	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/2013	MW-61-20130814-GW	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	01/23/2014	MW61012314	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U	0.955 U
	07/22/2014	MW61072214	--	--	--					--				--
	01/12/2015	MW61011215	--	--	--	--	--	--	--	--	--	--	--	--

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Noncarcinogenic PAHs											
			Dibenzofuran	1-Methyl-naphthalene	2-Methyl-naphthalene	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(ghi) perylene	Bis(2-ethylhexyl) phthalate	Carbazole	Fluoranthene	Fluorene	Naphthalene
MTCA Method B Groundwater Cleanup Level			32	1.5	32	960	NV	4800	NV	6.3	4.4	640	640	160
	08/12/2016	MW61081216	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U
	01/05/2018	MW61010518	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U	0.474 U
MW-63	09/20/2012	MW63-W-110.0	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ	1.03 UJ
	08/14/2013	MW-63-20130814-GW	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	01/23/2014	MW63012314	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U	0.952 U
	07/22/2014	MW63072214	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U	0.943 U
	01/12/2015	MW63011215	0.947 U	0.947 U	0.947 U	0.947 UJ	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 U	0.947 UJ	0.947 U
	08/12/2016	MW63081216	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U	0.949 U
	01/05/2018	MW63010518	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U	0.473 U

Table 4
Semivolatile Organic Compounds in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

NOTES:

Bold number indicates detected concentration that exceeds cleanup level.

-- = not analyzed.

B = Blank exhibited positive result greater than reporting limit for this compound.

cPAH = carcinogenic polycyclic aromatic hydrocarbon.

dup = duplicate sample.

J = Result for this analyte is estimated concentration.

LE = no results available due to laboratory error.

LWBZ = lower water-bearing zone.

MTCA = Washington State Department of Ecology's Model Toxics Control Act.

ND = no cPAH detections.

NV = no value.

PAH = polycyclic aromatic hydrocarbon.

RNWR = Ridgefield National Wildlife Refuge.

TEQ cPAHs = toxicity equivalent cPAHs. If one or more of the seven cPAHs are detected in the groundwater sample, TEQ is calculated using appropriate toxicity equivalent factors. If a certain cPAH analyte has not been detected in groundwater at the site, then a value of "0" is used for non-detects of that specific cPAH analyte. Other analytes that historically have been detected on the property but that are not detected in a certain event are summed using half of the method reporting limit. For groundwater samples that do not detect any cPAH analytes, "ND" is entered as the value.

U = not detected at or above the method reporting limit (note that, starting in July 2014, cPAHs are reported to the method detection limit).

ug/L = micrograms per liter.

UWBZ = upper water-bearing zone.

Table 5
Dissolved Metals in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Arsenic
MTCA Method A Groundwater Cleanup Level			5
Cell 2 Monitoring Wells (UWBZ)			
MW-55S	08/20/2010	MW55S082010	**35**
	01/14/2011	MW55S011411	**36.7**
	08/08/2011	MW55S080811	**36.5**
	01/12/2012	MW55S011212	**47**
	08/13/2013	MW-55S-20130813-GW	**66.4**
	01/24/2014	MW55S012414	**63.2**
	07/23/2014	MW55S072314	**60.7**
	01/15/2015	MW55S011515	**64.9**
	08/11/2016	MW55S081116	**54**
	01/09/2018	MW555010918	**57.7**
MW-55D	09/07/2010	MW55D090710	**7.4**
	01/14/2011	MW55D011411	**9.18**
	08/08/2011	MW55D080811	**8**
	01/12/2012	MW55D011212	**5.62**
	08/13/2013	MW-55D-20130813-GW	0.951
	01/24/2014	MW55D012414	0.436
	07/23/2014	MW55D072314	**16.4**
	01/15/2015	MW55D011515	**14.5**
	08/11/2016	MW55D081116	**12**
	01/09/2018	MW55D010918	**11.6**
MW-57S	08/15/2008	MW57S081508	**41**
	10/06/2008	MW-57S100608	**17**
	01/27/2009	MW57S012709	**23**
	04/07/2009	MW57S040709	**46**
	08/06/2009	MW57S080609	**51**
	01/13/2010	MW57S011310	**61**
	08/12/2010	MW57S081210	**40**
	01/14/2011	MW57S011411	**38.5**
	08/25/2011	MW57S082511	**36.9**
	01/11/2012	MW57S011112	**40.8**
	08/13/2013	MW-57S-20130813-GW	**60.3**
	01/22/2014	MW57S012214	**82.3**
	07/23/2014	MW57S072314	**72.4**
	01/14/2015	MW57S011415	**81.1**
	08/12/2016	MW57S081216	**71**
	01/09/2018	MW575010918	**71.8**
MW-57D	08/14/2008	MW57D081508	**19**
	10/06/2008	MW-57D100608	**6.8**
dup	10/06/2008	MW-57D100608-Dup	**8.8**
	01/27/2009	MW57D012709	**11**
dup	01/27/2009	MW57D012709-Dup	**11**

Table 5
Dissolved Metals in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Arsenic
MTCA Method A Groundwater Cleanup Level			5
	04/07/2009	MW57D040709	**17**
dup	04/07/2009	MW57D040709-Dup	**17**
	08/06/2009	MW57D080609	**21**
	01/13/2010	MW57D011310	**21**
dup	01/13/2010	MW57D011310-Dup	**22**
MW-57D	08/12/2010	MW57D081210	**19**
dup	08/12/2010	MW57D081210-Dup	**14**
	01/14/2011	MW57D011411	**18.6**
dup	01/14/2011	MW57DDUP011411	**17.6**
	08/25/2011	MW57D082511	**20.4**
dup	08/25/2011	MW57DDUP082511	**21**
	01/11/2012	MW57D011112	**20.3**
dup	01/11/2012	MW57DDUP011112	**22.4**
	08/13/2013	MW-57D-20130813-GW	**28.6**
dup	08/13/2013	MW-57D-20130813-GW-DUP	**30**
	01/22/2014	MW57D012214	**34**
dup	01/22/2014	MW57DDUP012214	**34.4**
	07/23/2014	MW57D072314	**25.7**
dup	07/23/2014	MW57DDUP072314	**25.3**
	01/14/2015	MW57D011415	**24.3**
dup	01/14/2015	MW57DDUP011415	**24.6**
	08/12/2016	MW57D081216	**22.1**
dup	08/12/2016	MW57DDUP081216	**22.1**
	01/09/2018	MW57D010918	**23.6**
dup	01/09/2018	MW57DDUP010918	**23.4**
MW-58D	08/13/2008	MW58D081308	**7.3**
	10/08/2008	MW-58D100808	**6.9**
	01/27/2009	MW58D012709	**10**
	04/07/2009	MW58D040709	**11**
	08/06/2009	MW58D080609	**14**
	01/14/2010	MW58D011410	**13**
	08/12/2010	MW58D081210	**10**
	01/19/2011	MW58D011911	**2.72**
	08/26/2011	MW58D082611	**10.3**
	01/13/2012	MW58D011312	**10.7**
	08/13/2013	MW-58D-20130813-GW	**13.4**
	07/24/2014	MW58D072414	**13.2**
	01/15/2015	MW58D011515	**12.5**
	08/11/2016	MW58D081116	**10.5**
	01/10/2018	MW58D011018	**12.1**

Table 5
Dissolved Metals in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Arsenic
MTCA Method A Groundwater Cleanup Level			5
RNWR Monitoring Wells (UWBZ)			
USDFW-1	05/04/2004	USDFW1-050404	5 U
	08/13/2004	USDFW1-081304	5 U
	10/25/2004	USDFW1-102504	5 U
	01/28/2005	USDFW1012805	2.5 U
	07/28/2005	USDFW1072805	2.5 U
	02/01/2006	USDFW1020106	1.9
	08/11/2006	USDFW1081106	1.8
	01/22/2007	USDFW1012207	2.4
	08/27/2007	USDFW1082707	2.6
	01/28/2008	USDFW1012808	1.9
	08/21/2008	USDW1082108	1.8
	02/03/2009	USDFW1020309	1.6
	08/07/2009	USDFW1080709	1.9
	01/28/2010	USDFW1012810	1.9
	08/26/2010	USDFW1082610	2.2
	01/26/2011	USDFW1012611	1.79
	09/06/2011	USDFW1090611	2.04
	01/25/2012	USDFW1012512	1.59
	08/07/2012	USDFW1080712	1.79
	08/14/2013	USDFW-1-20130814-GW	2.1
	05/04/2004	USDFW2-050404	**7.9**
	08/13/2004	USDFW2-081304	**9.3**
	10/25/2004	USDFW2-102504	**9**
	01/28/2005	USDFW2012805	**23.3**
	07/28/2005	USDFW2072805	**9.03**
	02/01/2006	USDFW2020106	**6.5**
	08/11/2006	NS	NS
	01/22/2007	USDFW2012207	**11**
	08/27/2007	USDFW2082707	**11**
	01/28/2008	USDFW2012808	**9.2**
	05/04/2004	USDFW3-050404	**11.1**
	08/13/2004	USDFW3-081304	**15.1**
	10/25/2004	USDFW3-102504	**13.6**
	01/28/2005	USDFW3012805	**13.2**
	07/28/2005	USDFW3072805	**13.7**
	02/01/2006	USDFW3020106	**8.4**
	08/11/2006	USDFW3081106	**14**
	01/22/2007	USDFW3012207	**14**
	08/27/2007	USDFW3082707	**15**
	01/28/2008	USDFW3012808	**12**
	01/27/2014	USDFW1012714	1.8
	07/21/2014	USDFW1072114	1.98

Table 5
Dissolved Metals in Groundwater—Cells 1 and 2 Plume (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Arsenic
MTCA Method A Groundwater Cleanup Level			5
	01/13/2015	USDFW1011315	1.72
	08/12/2016	USDFW1081216	1.49
	01/11/2018	USDFW1011118	1.64
RNWR Monitoring Wells (LWBZ)			
MW-63	09/20/2012	MW63-W-110.0	0.17
	08/14/2013	MW-63-20130814-GW	0.854
	01/23/2014	MW63012314	0.1 U
	07/22/2014	MW63072214	0.281
	01/12/2015	MW63011215	0.1 U
	08/12/2016	MW63081216	0.1 U
	01/05/2018	MW63010518	0.1 U

NOTES:

Bold indicates detected concentration that exceeds MTCA Method A groundwater cleanup level.

dup = duplicate sample.

LWBZ = lower water-bearing zone.

MTCA = Washington State Department of Ecology's Model Toxics Control Act.

NS = not sampled.

RNWR = Ridgefield National Wildlife Refuge.

U = not detected at or above method reporting limit.

ug/L = micrograms per liter.

UWBZ = upper water-bearing zone.

Table 6
Cell 3 Plume Groundwater Point of Compliance Sampling Results (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Arsenic	Tetrachloro-ethene	Pentachloro-phenol
MTCA Method B Groundwater CUL			5[a]	0.081	0.73
Shallow UWBZ					
MW-46S	07/27/2004	MW48-072704	**32.6**	--	--
	10/21/2004	MW48-102104	**31.8**	--	--
	01/20/2005	MW46S012005	**47.1**	--	--
	04/26/2005	MW46S042705	**12.0**	--	--
	07/19/2005	MW46S072005	**51.2**	--	--
	10/19/2005	MW46S101905	**11**	--	--
	01/19/2006	MW46S011906	**37**	--	--
	04/27/2006	MW46S042706	**35**	--	--
	08/03/2006	MW46S080306	**40**	--	--
	10/25/2006	MW46S102506	**52**	--	--
	01/11/2007	MW46S011107	**56**	--	--
	04/11/2007	MW46S041107	**44**	--	--
	08/08/2007	MW46S080807	**42**	--	--
	01/11/2008	MW46S011108	**38**	--	--
	08/08/2008	MW46S080808	**53**	--	--
	01/20/2009	MW46S012309	**18**	--	--
	08/04/2009	MW46S080409	**43**	--	--
	01/08/2010	MW46S010810	**32**	--	--
	08/24/2011	MW46S082411	**24.1**	--	--
	08/08/2012	MW46S080812	**21.7**	--	--
	08/12/2013	MW-46S-20130812-GW	**20.8**	--	--
	01/22/2014	MW46S012214	**20.1**	--	--
	07/22/2014	MW46S072214	**39.4**	--	--
	01/14/2015	MW46S011415	**14.5**	--	--
	08/15/2016	MW46S081516	**28.5**	--	--
	01/08/2018	MW465010818	2.65	--	--
Deep UWBZ					
MW-29	08/06/2002	GW-123	--	**28**	--
	01/22/2004	MW29-012204	--	**27**	--
	04/30/2004	MW29-043004	--	**21**	--
MW-29D	10/21/2004	MW29R-102104	--	**17**	--
	01/19/2005	MW29D011905	--	**18.8**	--
	04/26/2005	MW29D042605	--	**20.1**	--
	07/19/2005	MW29D071905	--	**13.4 J**	--
	10/18/2005	MW29D101805	--	**9.12**	--
	01/18/2006	MW29D011806	--	**11.6**	--
	04/26/2006	MW29D042606	--	**13.7**	--
	08/01/2006	MW29D080106	--	**6.51**	--

Table 6
Cell 3 Plume Groundwater Point of Compliance Sampling Results (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Arsenic	Tetrachloro-ethene	Pentachloro-phenol
MTCA Method B Groundwater CUL			5[a]	0.081	0.73
	10/24/2006	MW29D102406	--	**18.8**	--
	01/09/2007	MW29D010907	--	**18.5**	--
MW-29D	04/10/2007	MW29D041007	--	**5.61**	--
	08/07/2007	MW29D080707	--	**15.2**	--
	01/10/2008	MW29D011008	--	**15.1**	--
	08/07/2008	MW29D080708	--	**4.60**	--
	01/20/2009	MW29D012109	--	**11.1**	--
	08/03/2009	MW29D080309	--	**9.84**	--
	01/07/2010	MW29D010710	--	**12.1**	--
	08/22/2011	MW29D082211	--	**9.85**	--
	01/26/2012	MW29D012612	--	**8.73**	--
	08/08/2012	MW29D080812	--	**3.87**	--
	08/12/2013	MW-29D-20130812-GW	--	**2.26**	--
	01/21/2014	MW29D012114	--	**2.56**	--
	07/22/2014	MW29D072214	--	**2.01**	--
	01/12/2015	MW29D011215	--	**1.8**	--
	08/15/2016	MW29D081516	--	1 U	--
	01/08/2018	MW29D010818	--	**5.92**	--
MW-45D	07/26/2004	MW45-072604	--	**6.3**	**120**
	10/21/2004	MW45-102104	--	**6.8**	**120 J**
	01/20/2005	MW45D012005	--	**5.68**	**24.2**
	04/26/2005	MW45D042705	--	**6.78**	**105**
dup	04/26/2005	MW45D042705-Dup	--	**6.36**	**114**
	07/19/2005	MW45D072005	--	**4.96 J**	**81**
	10/21/2005	MW45D102105	--	**2.06**	**64.5**
dup	10/21/2005	MW45D102105-DUP	--	**2.14**	**56.3**
	01/19/2006	MW45D011906	--	1 U	**47.0**
	04/28/2006	MW45D042806	--	**3.52**	**61.8**
dup	04/28/2006	MW45D042806-Dup	--	**3.36**	**72.9**
	08/03/2006	MW45D080306	--	1 U	**75.2**
dup	08/03/2006	MW45D080306-Dup	--	1 U	**84.0**
	10/25/2006	MW45D102506	--	**5.04**	**72.0**
dup	10/25/2006	MW45D102506-Dup	--	**5.24**	**58.8**
	01/10/2007	MW45D011007	--	**5.14**	**38.2**
dup	01/10/2007	MW45D011007-Dup	--	**4.98**	**38.1**
	04/11/2007	MW45D041107	--	1 U	**35.9**
dup	04/11/2007	MW45D041107-Dup	--	1 U	**28.6**
	08/08/2007	MW45D080807	--	1 U	**36.7**
	01/11/2008	MW45D011108	--	**4.51**	**70.1**
	08/08/2008	MW45D080808	--	1 U	**34.9**

Table 6
Cell 3 Plume Groundwater Point of Compliance Sampling Results (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Arsenic	Tetrachloro-ethene	Pentachloro-phenol
MTCA Method B Groundwater CUL			5[a]	0.081	0.73
	01/20/2009	MW45D012209	--	**3.16**	**40.2**
dup	01/20/2009	MW45D012209-Dup	--	**3.2**	**45.3**
	08/04/2009	MW45D080409	--	**3.08**	**53.0**
MW-45D	01/07/2010	MW45D010710	--	**3.65**	**35.5**
	08/24/2011	MW45D082411	--	**5.75**	**19.4**
dup	08/24/2011	MW45D082411-Dup	--	**5.7**	**50.6**
	08/08/2012	MW45D080812	--	**5.66**	**29**
dup	08/08/2012	MW45DDUP080812	--	**6.3**	**30.5**
	08/12/2013	MW-45D-20130812-GW	--	**3.03 J**	0.5 UJ
dup	08/12/2013	MW-45D-20130812-GW-DUP	--	**1.07 J**	**3.44**
	01/22/2014	MW45D012214	--	**3.59**	**34.8**
dup	01/22/2014	MW45DDUP012214	--	**3.48**	**37.2**
	07/22/2014	MW45D072214	--	**4.47**	**21.5**
dup	07/22/2014	MW45DDUP072214	--	**3.68**	**22.4**
	01/14/2015	MW45D011415	--	**3.79**	**16.2**
dup	01/14/2015	MW45DDUP011415	--	**3.64**	**18.7**
	08/15/2016	MW45D081516	--	**1.45**	**9.96**
dup	08/15/2016	MW45DDUP081516	--	**1.53**	**9.2**
	01/08/2018	MW45D010818	--	**3.84**	**15.8**
dup	01/08/2018	MW45DDUP010818	--	**3.96**	**16**
MW-46D	07/27/2004	MW47-072704	--	**9.3**	--
	10/21/2004	MW47-102104	--	**9.8**	--
	01/20/2005	MW46D012005	--	**8.95**	--
	04/26/2005	MW46D042705	--	**10.7**	--
	07/19/2005	MW46D072005	--	**7.82 J**	--
	10/19/2005	MW46D101905	--	**3.76**	--
	01/19/2006	MW46D011906	--	**3.92**	--
	04/27/2006	MW46D042706	--	**5.91**	--
	08/03/2006	MW46D080306	--	**1.71**	--
	10/25/2006	MW46D102506	--	**7.96**	--
	01/11/2007	MW46D011107	--	**7.83**	--
	04/11/2007	MW46D041107	--	1 U	--
	08/08/2007	MW46D080807	--	1 U	--
	01/11/2008	MW46D011108	--	**6.85**	--
	08/08/2008	MW46D080808	--	**2.2**	--
	01/20/2009	MW46D012309	--	**5.13**	--
	08/04/2009	MW46D080409	--	**5.05**	--
	01/08/2010	MW46D010810	--	**6.4**	--
	08/22/2011	MW46D082211	--	**6.9**	--
	08/08/2012	MW46D080812	--	**6.95**	--

Table 6
Cell 3 Plume Groundwater Point of Compliance Sampling Results (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

Location	Date Collected	Sample Name	Arsenic	Tetrachloro-ethene	Pentachloro-phenol
MTCA Method B Groundwater CUL			5[a]	0.081	0.73
	08/12/2013	MW-46D-20130812-GW	--	**3.67**	--
	01/22/2014	MW46D012214	--	**3.31**	--
	07/22/2014	MW46D072214	--	**4.21**	--
	01/14/2015	MW46D011415	--	**2.93**	--
	08/15/2016	MW46D081516	--	**2.19**	--
	01/08/2018	MW46D010818	--	1 U	--
MW-47D	07/26/2004	MW50-072604	--	**20**	--
	10/21/2004	MW50-102104	--	**19**	--
	01/19/2005	MW47D011905	--	**17.2**	--
	04/26/2005	MW47D042605	--	**20.8**	--
	07/19/2005	MW47D071905	--	**14.5 J**	--
	10/18/2005	MW47D101805	--	**8.28**	--
	01/18/2006	MW47D011806	--	**9.45**	--
	04/26/2006	MW47D042606	--	**8.61**	--
	08/01/2006	MW47D080106	--	**9.61**	--
	10/24/2006	MW47D102406	--	**15.3**	--
	01/09/2007	MW47D010907	--	**15.5**	--
	04/10/2007	MW47D041007	--	**2.27**	--
	08/07/2007	MW47D080707	--	**7.12**	--
	01/10/2008	MW47D011008	--	**13.6**	--
	08/07/2008	MW47D080708	--	**4.58**	--
	01/20/2009	MW47D012109	--	**11.0**	--
	08/03/2009	MW47D080309	--	**8.64**	--
	01/07/2010	MW47D010710	--	**7.86**	--
	08/22/2011	MW47D082211	--	**15.4**	--
	01/26/2012	MW47D012612	--	**14.2**	--
	08/08/2012	MW47D080812	--	**14.4**	--
	08/12/2013	MW-47D-20130812-GW	--	**7.66**	--
	01/21/2014	MW47D012114	--	**10.4**	--
	07/22/2014	MW47D072214	--	**10.2**	--
	01/12/2015	MW47D011215	--	**8.41**	--
	08/15/2016	MW47D081516	--	**4.22**	--
	01/08/2018	MW47D010818	--	**1.00**	--

Table 6
Cell 3 Plume Groundwater Point of Compliance Sampling Results (ug/L)
Pacific Wood Treating Co. Site
Ridgefield, Washington

NOTES:

Bold number indicates detected concentration that exceeds CUL.

-- = not analyzed.

CUL = cleanup level.

dup = duplicate sample.

J = Result for this analyte is estimated concentration.

MTCA = Washington State Department of Ecology's Model Toxics Control Act.

U = not detected at or above method reporting limit.

ug/L = micrograms per liter.

UWBZ = upper water-bearing zone.

[a]MTCA Method A CUL.

Table 7
POC Monitoring Wells and Monitoring Schedule
Pacific Wood Treating Co. Site
Ridgefield, Washington

Monitoring Well	Sampling Date			
	August 2020	January 2023	August 2025	August 2028
LWBZ				
MW-55		PCP and VOCs		PCP and VOCs
MW-56		SVOCs and VOCs		SVOCs and VOCs
MW-61		SVOCs and VOCs		SVOCs and VOCs
MW-62	PCP and PCE	PCP and PCE	PCP and PCE	PCP and PCE
MW-63	x	x	x	x
UWBZ				
Shallow UWBZ				
MW-46S		Arsenic		Arsenic
MW-55S	x	x	x	x
MW-57S	x	x	x	x
RMW-2s		PCP only		PCP only
Deep UWBZ				
MW-29D		PCE only		PCE only
MW-45D		PCP and PCE		PCP and PCE
MW-46D		PCE only		PCE only
MW-47D		PCE only		PCE only
MW-55D	PCP, Arsenic, and VOCs	PCP, Arsenic, and VOCs	PCP, Arsenic, and VOCs	PCP, Arsenic, and VOCs
MW-57D		x		x
MW-58D		PCP, Arsenic, and VOCs		PCP, Arsenic, and VOCs
USDFW-1		PCP, Arsenic, and VOCs		PCP, Arsenic, and VOCs
RMW-2d		PCP only		PCP only

NOTES:

During 5-year sampling events, samples from MW-45D and MW-57D will be duplicated.

The monitoring schedule will be reviewed at the conclusion of the January 2023 monitoring event and updated as necessary.

LWBZ = lower water-bearing zone.

PCE = tetrachloroethene.

PCP = pentachlorophenol.

POC = point of compliance.

SVOC = semivolatile organic compound.

USEPA = U.S. Environmental Protection Agency.

UWBZ = upper water-bearing zone.

VOC = volatile organic compound.

x = Analysis includes SVOCs by USEPA 8270D, arsenic by USEPA 6020, and VOCs by USEPA 8260B.

ATTACHMENT A

LABORATORY ANALYTICAL REPORT

Specialty Analytical

9011 SE Jannsen Rd
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

February 26, 2018

Andrew Vidourek
Maul Foster & Alongi
400 E. Mill Plain Blvd.
Suite 400
Vancouver, WA 98660

TEL: (360) 694-2691
FAX (360) 906-1958

RE: POR Groundwater / 9003-01-28

Dear Andrew Vidourek: Order No.: 1801064

Specialty Analytical received 16 sample(s) on 1/10/2018 for the analyses presented in the following report.

REVISED REPORT: Please see case narrative for information on revision.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Case Narrative

WO#: **1801064**

Date: **2/26/2018**

CLIENT: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28

Revision 1-

This report has been revised to correct sample names.

Revision 2-

This report has been revised to include additional semi-volatile compounds by method 8270 per client request.

Revision 3-

This report has been revised to report 2,3,4,6-Tetrachlorophenol in the Method Blank.

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/5/2018 2:27:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-001
Client Sample ID: MW61010518
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
1-Methylnaphthalene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
2,3,5,6-Tetrachlorophenol	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
2,4,6-Trichlorophenol	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
2-Methylnaphthalene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Acenaphthene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Acenaphthylene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Anthracene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Azobenzene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Benz(a)anthracene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Benzo(a)pyrene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Benzo(b)fluoranthene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Benzo(g,h,i)perylene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Benzo(k)fluoranthene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Carbazole	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Chrysene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Dibenz(a,h)anthracene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Dibenzofuran	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Fluoranthene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Fluorene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Naphthalene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Pentachlorophenol	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Phenanthrene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Pyrene	ND	0.474		µg/L	1	1/17/2018 6:25:00 PM
Surr: 2,4,6-Tribromophenol	50.8	33.1-129.7		%REC	1	1/17/2018 6:25:00 PM
Surr: 2-Fluorobiphenyl	55.3	33.1-126.2		%REC	1	1/17/2018 6:25:00 PM
Surr: 2-Fluorophenol	35.9	13.4-127.1		%REC	1	1/17/2018 6:25:00 PM
Surr: 4-Terphenyl-d14	58.0	41-122		%REC	1	1/17/2018 6:25:00 PM
Surr: Nitrobenzene-d5	48.4	28.9-129.9		%REC	1	1/17/2018 6:25:00 PM
Surr: Phenol-d6	25.4	10.6-128.5		%REC	1	1/17/2018 6:25:00 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,4,6-Tetrachlorophenol	ND	0.949		µg/L	1	2/20/2018 1:56:00 PM
2,3,4-Trichlorophenol	ND	0.949		µg/L	1	2/20/2018 1:56:00 PM
2,3,5-Trichlorophenol	ND	0.949		µg/L	1	2/20/2018 1:56:00 PM
2,3,6-Trichlorophenol	ND	0.949		µg/L	1	2/20/2018 1:56:00 PM
3,4,5-Trichlorophenol	ND	0.949		µg/L	1	2/20/2018 1:56:00 PM
Surr: 2,4,6-Tribromophenol	56.0	33.1-119		%REC	1	2/20/2018 1:56:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/5/2018 2:27:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-001
Client Sample ID: MW61010518
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
Surr: 2-Fluorobiphenyl	70.7	33.1-116		%REC	1	2/20/2018 1:56:00 PM
Surr: 2-Fluorophenol	44.3	13.4-127		%REC	1	2/20/2018 1:56:00 PM
Surr: 4-Terphenyl-d14	74.7	41-122		%REC	1	2/20/2018 1:56:00 PM
Surr: Nitrobenzene-d5	62.1	28.9-119		%REC	1	2/20/2018 1:56:00 PM
Surr: Phenol-d6	37.8	10.6-109		%REC	1	2/20/2018 1:56:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
2-Butanone	ND	10.0		µg/L	1	1/12/2018 5:39:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/12/2018 5:39:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/12/2018 5:39:00 PM
Acetone	ND	20.0		µg/L	1	1/12/2018 5:39:00 PM
Acrylonitrile	ND	5.00		µg/L	1	1/12/2018 5:39:00 PM
Benzene	ND	0.300		µg/L	1	1/12/2018 5:39:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/5/2018 2:27:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-001
Client Sample ID: MW61010518
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Bromochloromethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Bromoform	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Bromomethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/12/2018 5:39:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Chloroethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Chloroform	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Chloromethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/12/2018 5:39:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/12/2018 5:39:00 PM
Naphthalene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
o-Xylene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Styrene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Toluene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Trichloroethene	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Vinyl chloride	ND	1.00		µg/L	1	1/12/2018 5:39:00 PM
Surr: 1,2-Dichloroethane-d4	111	75.3-126		%REC	1	1/12/2018 5:39:00 PM
Surr: 4-Bromofluorobenzene	99.0	78.1-120		%REC	1	1/12/2018 5:39:00 PM
Surr: Dibromofluoromethane	82.3	74.2-122		%REC	1	1/12/2018 5:39:00 PM
Surr: Toluene-d8	97.9	76.2-135		%REC	1	1/12/2018 5:39:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/5/2018 3:08:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-002
Client Sample ID: MW63010518
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	ND	0.100		µg/L	1	1/15/2018 12:22:59 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
1-Methylnaphthalene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
2,3,5,6-Tetrachlorophenol	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
2,4,5-Trichlorophenol	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
2,4,6-Trichlorophenol	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
2-Methylnaphthalene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Acenaphthene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Acenaphthylene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Anthracene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Benz(a)anthracene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Benzo(a)pyrene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Benzo(b)fluoranthene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Benzo(g,h,i)perylene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Benzo(k)fluoranthene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Carbazole	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Chrysene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Dibenz(a,h)anthracene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Dibenzofuran	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Fluoranthene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Fluorene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Naphthalene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Pentachlorophenol	1.79	0.473		µg/L	1	1/17/2018 6:53:00 PM
Phenanthrene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Pyrene	ND	0.473		µg/L	1	1/17/2018 6:53:00 PM
Surr: 2,4,6-Tribromophenol	65.1	33.1-129.7		%REC	1	1/17/2018 6:53:00 PM
Surr: 2-Fluorobiphenyl	61.8	33.1-126.2		%REC	1	1/17/2018 6:53:00 PM
Surr: 2-Fluorophenol	40.3	13.4-127.1		%REC	1	1/17/2018 6:53:00 PM
Surr: 4-Terphenyl-d14	66.5	41-122		%REC	1	1/17/2018 6:53:00 PM
Surr: Nitrobenzene-d5	61.8	28.9-129.9		%REC	1	1/17/2018 6:53:00 PM
Surr: Phenol-d6	20.4	10.6-128.5		%REC	1	1/17/2018 6:53:00 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,4,6-Tetrachlorophenol	ND	0.946		µg/L	1	2/20/2018 2:23:00 PM
2,3,4-Trichlorophenol	ND	0.946		µg/L	1	2/20/2018 2:23:00 PM
2,3,5-Trichlorophenol	ND	0.946		µg/L	1	2/20/2018 2:23:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/5/2018 3:08:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-002
Client Sample ID: MW63010518
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,6-Trichlorophenol	ND	0.946		µg/L	1	2/20/2018 2:23:00 PM
3,4,5-Trichlorophenol	ND	0.946		µg/L	1	2/20/2018 2:23:00 PM
Surr: 2,4,6-Tribromophenol	80.9	33.1-119		%REC	1	2/20/2018 2:23:00 PM
Surr: 2-Fluorobiphenyl	76.9	33.1-116		%REC	1	2/20/2018 2:23:00 PM
Surr: 2-Fluorophenol	46.4	13.4-127		%REC	1	2/20/2018 2:23:00 PM
Surr: 4-Terphenyl-d14	75.8	41-122		%REC	1	2/20/2018 2:23:00 PM
Surr: Nitrobenzene-d5	79.3	28.9-119		%REC	1	2/20/2018 2:23:00 PM
Surr: Phenol-d6	32.9	10.6-109		%REC	1	2/20/2018 2:23:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
2-Butanone	ND	10.0		µg/L	1	1/12/2018 6:00:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/12/2018 6:00:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/12/2018 6:00:00 PM
Acetone	ND	20.0		µg/L	1	1/12/2018 6:00:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/5/2018 3:08:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-002
Client Sample ID: MW63010518
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Acrylonitrile	ND	5.00		µg/L	1	1/12/2018 6:00:00 PM
Benzene	ND	0.300		µg/L	1	1/12/2018 6:00:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Bromoform	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Bromomethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/12/2018 6:00:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Chloroethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Chloroform	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Chloromethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/12/2018 6:00:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/12/2018 6:00:00 PM
Naphthalene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
o-Xylene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Styrene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Tetrachloroethene	5.26	1.00		µg/L	1	1/12/2018 6:00:00 PM
Toluene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Trichloroethene	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Vinyl chloride	ND	1.00		µg/L	1	1/12/2018 6:00:00 PM
Surr: 1,2-Dichloroethane-d4	102	75.3-126		%REC	1	1/12/2018 6:00:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT:	Maul Foster & Alongi	**Collection Date:**	1/5/2018 3:08:00 PM
Project:	POR Groundwater / 9003-01-28		
Lab ID:	1801064-002		
Client Sample ID:	MW63010518	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Surr: 4-Bromofluorobenzene	99.2	78.1-120		%REC	1	1/12/2018 6:00:00 PM
Surr: Dibromofluoromethane	89.7	74.2-122		%REC	1	1/12/2018 6:00:00 PM
Surr: Toluene-d8	98.7	76.2-135		%REC	1	1/12/2018 6:00:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/8/2018 10:29:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-003
Client Sample ID: MW47D010818
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Tetrachloroethene	1.00	1.00		µg/L	1	1/12/2018 6:21:00 PM
Surr: 1,2-Dichloroethane-d4	95.6	75.3-126		%REC	1	1/12/2018 6:21:00 PM
Surr: 4-Bromofluorobenzene	104	78.1-120		%REC	1	1/12/2018 6:21:00 PM
Surr: Dibromofluoromethane	98.7	74.2-122		%REC	1	1/12/2018 6:21:00 PM
Surr: Toluene-d8	103	76.2-135		%REC	1	1/12/2018 6:21:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/8/2018 11:05:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-004
Client Sample ID: MW29D010818
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Tetrachloroethene	5.92	1.00		µg/L	1	1/12/2018 6:43:00 PM
Surr: 1,2-Dichloroethane-d4	103	75.3-126		%REC	1	1/12/2018 6:43:00 PM
Surr: 4-Bromofluorobenzene	112	78.1-120		%REC	1	1/12/2018 6:43:00 PM
Surr: Dibromofluoromethane	89.6	74.2-122		%REC	1	1/12/2018 6:43:00 PM
Surr: Toluene-d8	110	76.2-135		%REC	1	1/12/2018 6:43:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/8/2018 1:55:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-005
Client Sample ID: MW46D010818
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Tetrachloroethene	ND	1.00		µg/L	1	1/12/2018 7:47:00 PM
Surr: 1,2-Dichloroethane-d4	102	75.3-126		%REC	1	1/12/2018 7:47:00 PM
Surr: 4-Bromofluorobenzene	105	78.1-120		%REC	1	1/12/2018 7:47:00 PM
Surr: Dibromofluoromethane	93.3	74.2-122		%REC	1	1/12/2018 7:47:00 PM
Surr: Toluene-d8	104	76.2-135		%REC	1	1/12/2018 7:47:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT:	Maul Foster & Alongi	**Collection Date:**	1/8/2018 2:38:00 PM
Project:	POR Groundwater / 9003-01-28		
Lab ID:	1801064-006		
Client Sample ID:	MW46S010818	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	2.65	0.100		µg/L	1	1/15/2018 12:36:28 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/8/2018 3:25:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-007
Client Sample ID: MW45D010818
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS - ACID FRACTION SW8270D						Analyst: **CK**
Pentachlorophenol	15.8	0.486		µg/L	1	1/17/2018 7:20:00 PM
Surr: 2,4,6-Tribromophenol	56.8	29.1-124		%REC	1	1/17/2018 7:20:00 PM
Surr: 2-Fluorophenol	32.0	13.4-127.1		%REC	1	1/17/2018 7:20:00 PM
Surr: Phenol-d6	20.2	10.6-128.5		%REC	1	1/17/2018 7:20:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Tetrachloroethene	3.84	1.00		µg/L	1	1/12/2018 7:04:00 PM
Surr: 1,2-Dichloroethane-d4	100	75.3-126		%REC	1	1/12/2018 7:04:00 PM
Surr: 4-Bromofluorobenzene	99.2	78.1-120		%REC	1	1/12/2018 7:04:00 PM
Surr: Dibromofluoromethane	92.0	74.2-122		%REC	1	1/12/2018 7:04:00 PM
Surr: Toluene-d8	97.9	76.2-135		%REC	1	1/12/2018 7:04:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/8/2018 3:25:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-008
Client Sample ID: MW45DDUP010818
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS - ACID FRACTION SW8270D						Analyst: **CK**
Pentachlorophenol	16.0	0.473		µg/L	1	1/17/2018 7:48:00 PM
Surr: 2,4,6-Tribromophenol	58.9	29.1-124		%REC	1	1/17/2018 7:48:00 PM
Surr: 2-Fluorophenol	30.7	13.4-127.1		%REC	1	1/17/2018 7:48:00 PM
Surr: Phenol-d6	21.1	10.6-128.5		%REC	1	1/17/2018 7:48:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Tetrachloroethene	3.96	1.00		µg/L	1	1/12/2018 7:25:00 PM
Surr: 1,2-Dichloroethane-d4	101	75.3-126		%REC	1	1/12/2018 7:25:00 PM
Surr: 4-Bromofluorobenzene	111	78.1-120		%REC	1	1/12/2018 7:25:00 PM
Surr: Dibromofluoromethane	87.5	74.2-122		%REC	1	1/12/2018 7:25:00 PM
Surr: Toluene-d8	110	76.2-135		%REC	1	1/12/2018 7:25:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 9:46:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-009
Client Sample ID: MW62010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS - ACID FRACTION SW8270D						Analyst: **CK**
Pentachlorophenol	68.4	0.471		µg/L	1	1/17/2018 8:16:00 PM
Surr: 2,4,6-Tribromophenol	54.5	29.1-124		%REC	1	1/17/2018 8:16:00 PM
Surr: 2-Fluorophenol	34.3	13.4-127.1		%REC	1	1/17/2018 8:16:00 PM
Surr: Phenol-d6	23.1	10.6-128.5		%REC	1	1/17/2018 8:16:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Tetrachloroethene	ND	1.00		µg/L	1	1/16/2018 1:03:00 PM
Surr: 1,2-Dichloroethane-d4	95.1	75.3-126		%REC	1	1/16/2018 1:03:00 PM
Surr: 4-Bromofluorobenzene	97.3	78.1-120		%REC	1	1/16/2018 1:03:00 PM
Surr: Dibromofluoromethane	104	74.2-122		%REC	1	1/16/2018 1:03:00 PM
Surr: Toluene-d8	100	76.2-135		%REC	1	1/16/2018 1:03:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 10:37:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-010
Client Sample ID: MW57D010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	23.6	0.100		µg/L	1	1/15/2018 12:39:51 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
1-Methylnaphthalene	1.20	0.473		µg/L	1	1/17/2018 8:43:00 PM
2,3,5,6-Tetrachlorophenol	24.0	0.473		µg/L	1	1/17/2018 8:43:00 PM
2,4,5-Trichlorophenol	1.69	0.473		µg/L	1	1/17/2018 8:43:00 PM
2,4,6-Trichlorophenol	1.43	0.473		µg/L	1	1/17/2018 8:43:00 PM
2-Methylnaphthalene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Acenaphthene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Acenaphthylene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Anthracene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Benz(a)anthracene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Benzo(a)pyrene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Benzo(b)fluoranthene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Benzo(g,h,i)perylene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Benzo(k)fluoranthene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Carbazole	2.38	0.473		µg/L	1	1/17/2018 8:43:00 PM
Chrysene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Dibenz(a,h)anthracene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Dibenzofuran	1.28	0.473		µg/L	1	1/17/2018 8:43:00 PM
Fluoranthene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Fluorene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Naphthalene	21.0	0.473		µg/L	1	1/17/2018 8:43:00 PM
Pentachlorophenol	1020	11.8		µg/L	25	1/18/2018 1:39:00 PM
Phenanthrene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Pyrene	ND	0.473		µg/L	1	1/17/2018 8:43:00 PM
Surr: 2,4,6-Tribromophenol	82.9	33.1-129.7		%REC	1	1/17/2018 8:43:00 PM
Surr: 2-Fluorobiphenyl	81.2	33.1-126.2		%REC	1	1/17/2018 8:43:00 PM
Surr: 2-Fluorophenol	71.8	13.4-127.1		%REC	1	1/17/2018 8:43:00 PM
Surr: 4-Terphenyl-d14	82.6	41-122		%REC	1	1/17/2018 8:43:00 PM
Surr: Nitrobenzene-d5	73.2	28.9-129.9		%REC	1	1/17/2018 8:43:00 PM
Surr: Phenol-d6	50.1	10.6-128.5		%REC	1	1/17/2018 8:43:00 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,4,6-Tetrachlorophenol	44.3	0.946		µg/L	1	2/20/2018 5:03:00 PM
2,3,4-Trichlorophenol	2.63	0.946		µg/L	1	2/20/2018 5:03:00 PM
2,3,5-Trichlorophenol	2.34	0.946		µg/L	1	2/20/2018 5:03:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 10:37:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-010
Client Sample ID: MW57D010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,6-Trichlorophenol	ND	0.946		µg/L	1	2/20/2018 5:03:00 PM
3,4,5-Trichlorophenol	3.48	0.946		µg/L	1	2/20/2018 5:03:00 PM
Surr: 2,4,6-Tribromophenol	106	33.1-119		%REC	1	2/20/2018 5:03:00 PM
Surr: 2-Fluorobiphenyl	80.0	33.1-116		%REC	1	2/20/2018 5:03:00 PM
Surr: 2-Fluorophenol	87.3	13.4-127		%REC	1	2/20/2018 5:03:00 PM
Surr: 4-Terphenyl-d14	75.5	41-122		%REC	1	2/20/2018 5:03:00 PM
Surr: Nitrobenzene-d5	87.6	28.9-119		%REC	1	2/20/2018 5:03:00 PM
Surr: Phenol-d6	80.9	10.6-109		%REC	1	2/20/2018 5:03:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2,4-Trimethylbenzene	1.38	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 3:09:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 3:09:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 3:09:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 3:09:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 10:37:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-010
Client Sample ID: MW57D010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 3:09:00 PM
Benzene	15.3	0.300		µg/L	1	1/16/2018 3:09:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 3:09:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
cis-1,2-Dichloroethene	18.0	1.00		µg/L	1	1/16/2018 3:09:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Isopropylbenzene	5.64	1.00		µg/L	1	1/16/2018 3:09:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/16/2018 3:09:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 3:09:00 PM
Naphthalene	213	10.0		µg/L	10	1/12/2018 8:08:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
n-Propylbenzene	1.01	1.00		µg/L	1	1/16/2018 3:09:00 PM
o-Xylene	13.3	1.00		µg/L	1	1/16/2018 3:09:00 PM
sec-Butylbenzene	5.35	1.00		µg/L	1	1/16/2018 3:09:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Tetrachloroethene	29.2	1.00		µg/L	1	1/16/2018 3:09:00 PM
Toluene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
trans-1,2-Dichloroethene	1.28	1.00		µg/L	1	1/16/2018 3:09:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Trichloroethene	7.36	1.00		µg/L	1	1/16/2018 3:09:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 3:09:00 PM
Vinyl chloride	1.94	1.00		µg/L	1	1/16/2018 3:09:00 PM
Surr: 1,2-Dichloroethane-d4	89.0	75.3-126		%REC	1	1/16/2018 3:09:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 10:37:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-010
Client Sample ID: MW57D010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Surr: 4-Bromofluorobenzene	96.9	78.1-120		%REC	1	1/16/2018 3:09:00 PM
Surr: Dibromofluoromethane	101	74.2-122		%REC	1	1/16/2018 3:09:00 PM
Surr: Toluene-d8	98.0	76.2-135		%REC	1	1/16/2018 3:09:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 10:37:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-011
Client Sample ID: MW57DDUP010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	23.4	0.100		µg/L	1	1/15/2018 12:53:55 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
1-Methylnaphthalene	1.86	0.474		µg/L	1	1/17/2018 9:11:00 PM
2,3,5,6-Tetrachlorophenol	32.3	0.474		µg/L	1	1/17/2018 9:11:00 PM
2,4,5-Trichlorophenol	3.10	0.474		µg/L	1	1/17/2018 9:11:00 PM
2,4,6-Trichlorophenol	1.82	0.474		µg/L	1	1/17/2018 9:11:00 PM
2-Methylnaphthalene	0.483	0.474		µg/L	1	1/17/2018 9:11:00 PM
Acenaphthene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Acenaphthylene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Anthracene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Benz(a)anthracene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Benzo(a)pyrene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Benzo(b)fluoranthene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Benzo(g,h,i)perylene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Benzo(k)fluoranthene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Carbazole	4.05	0.474		µg/L	1	1/17/2018 9:11:00 PM
Chrysene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Dibenz(a,h)anthracene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Dibenzofuran	2.44	0.474		µg/L	1	1/17/2018 9:11:00 PM
Fluoranthene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Fluorene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Naphthalene	25.2	0.474		µg/L	1	1/17/2018 9:11:00 PM
Pentachlorophenol	1100	11.8		µg/L	25	1/18/2018 2:07:00 PM
Phenanthrene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Pyrene	ND	0.474		µg/L	1	1/17/2018 9:11:00 PM
Surr: 2,4,6-Tribromophenol	44.4	33.1-129.7		%REC	1	1/17/2018 9:11:00 PM
Surr: 2-Fluorobiphenyl	48.6	33.1-126.2		%REC	1	1/17/2018 9:11:00 PM
Surr: 2-Fluorophenol	45.4	13.4-127.1		%REC	1	1/17/2018 9:11:00 PM
Surr: 4-Terphenyl-d14	53.1	41-122		%REC	1	1/17/2018 9:11:00 PM
Surr: Nitrobenzene-d5	85.4	28.9-129.9		%REC	1	1/17/2018 9:11:00 PM
Surr: Phenol-d6	28.2	10.6-128.5		%REC	1	1/17/2018 9:11:00 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,4,6-Tetrachlorophenol	54.6	0.948		µg/L	1	2/20/2018 5:28:00 PM
2,3,4-Trichlorophenol	5.38	0.948		µg/L	1	2/20/2018 5:28:00 PM
2,3,5-Trichlorophenol	5.88	0.948		µg/L	1	2/20/2018 5:28:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 10:37:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-011
Client Sample ID: MW57DDUP010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,6-Trichlorophenol	ND	0.948		µg/L	1	2/20/2018 5:28:00 PM
3,4,5-Trichlorophenol	7.18	0.948		µg/L	1	2/20/2018 5:28:00 PM
Surr: 2,4,6-Tribromophenol	69.6	33.1-119		%REC	1	2/20/2018 5:28:00 PM
Surr: 2-Fluorobiphenyl	61.2	33.1-116		%REC	1	2/20/2018 5:28:00 PM
Surr: 2-Fluorophenol	61.4	13.4-127		%REC	1	2/20/2018 5:28:00 PM
Surr: 4-Terphenyl-d14	61.2	41-122		%REC	1	2/20/2018 5:28:00 PM
Surr: Nitrobenzene-d5	54.9	28.9-119		%REC	1	2/20/2018 5:28:00 PM
Surr: Phenol-d6	47.0	10.6-109		%REC	1	2/20/2018 5:28:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2,4-Trimethylbenzene	1.32	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 3:30:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 3:30:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 3:30:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 3:30:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 10:37:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-011
Client Sample ID: MW57DDUP010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 3:30:00 PM
Benzene	14.5	0.300		µg/L	1	1/16/2018 3:30:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 3:30:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
cis-1,2-Dichloroethene	14.9	1.00		µg/L	1	1/16/2018 3:30:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Isopropylbenzene	5.17	1.00		µg/L	1	1/16/2018 3:30:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/16/2018 3:30:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 3:30:00 PM
Naphthalene	240	10.0		µg/L	10	1/12/2018 8:29:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
n-Propylbenzene	1.12	1.00		µg/L	1	1/16/2018 3:30:00 PM
o-Xylene	12.8	1.00		µg/L	1	1/16/2018 3:30:00 PM
sec-Butylbenzene	5.11	1.00		µg/L	1	1/16/2018 3:30:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Tetrachloroethene	26.8	1.00		µg/L	1	1/16/2018 3:30:00 PM
Toluene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
trans-1,2-Dichloroethene	1.18	1.00		µg/L	1	1/16/2018 3:30:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Trichloroethene	6.87	1.00		µg/L	1	1/16/2018 3:30:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 3:30:00 PM
Vinyl chloride	1.78	1.00		µg/L	1	1/16/2018 3:30:00 PM
Surr: 1,2-Dichloroethane-d4	89.3	75.3-126		%REC	1	1/16/2018 3:30:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 10:37:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-011
Client Sample ID: MW57DDUP010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Surr: 4-Bromofluorobenzene	96.7	78.1-120		%REC	1	1/16/2018 3:30:00 PM
Surr: Dibromofluoromethane	100	74.2-122		%REC	1	1/16/2018 3:30:00 PM
Surr: Toluene-d8	98.3	76.2-135		%REC	1	1/16/2018 3:30:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 11:30:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-012
Client Sample ID: MW57S010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	71.8	0.100		µg/L	1	1/15/2018 12:57:16 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
1-Methylnaphthalene	453	4.72		µg/L	10	1/18/2018 4:25:00 PM
2,3,5,6-Tetrachlorophenol	0.509	0.472		µg/L	1	1/17/2018 9:39:00 PM
2,4,5-Trichlorophenol	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
2,4,6-Trichlorophenol	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
2-Methylnaphthalene	718	47.2		µg/L	100	1/18/2018 2:34:00 PM
Acenaphthene	212	4.72		µg/L	10	1/18/2018 4:25:00 PM
Acenaphthylene	4.70	0.472		µg/L	1	1/17/2018 9:39:00 PM
Anthracene	10.4	0.472		µg/L	1	1/17/2018 9:39:00 PM
Benz(a)anthracene	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Benzo(a)pyrene	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Benzo(b)fluoranthene	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Benzo(g,h,i)perylene	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Benzo(k)fluoranthene	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Carbazole	163	4.72		µg/L	10	1/18/2018 4:25:00 PM
Chrysene	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Dibenz(a,h)anthracene	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Dibenzofuran	98.5	4.72		µg/L	10	1/18/2018 4:25:00 PM
Fluoranthene	4.46	0.472		µg/L	1	1/17/2018 9:39:00 PM
Fluorene	73.9	4.72		µg/L	10	1/18/2018 4:25:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.472		µg/L	1	1/17/2018 9:39:00 PM
Naphthalene	9320	47.2		µg/L	100	1/18/2018 2:34:00 PM
Pentachlorophenol	21.5	0.472		µg/L	1	1/17/2018 9:39:00 PM
Phenanthrene	43.2	0.472		µg/L	1	1/17/2018 9:39:00 PM
Pyrene	2.58	0.472		µg/L	1	1/17/2018 9:39:00 PM
Surr: 2,4,6-Tribromophenol	68.1	33.1-129.7		%REC	1	1/17/2018 9:39:00 PM
Surr: 2-Fluorobiphenyl	66.8	33.1-126.2		%REC	1	1/17/2018 9:39:00 PM
Surr: 2-Fluorophenol	41.3	13.4-127.1		%REC	1	1/17/2018 9:39:00 PM
Surr: 4-Terphenyl-d14	62.5	41-122		%REC	1	1/17/2018 9:39:00 PM
Surr: Nitrobenzene-d5	70.2	28.9-129.9		%REC	1	1/17/2018 9:39:00 PM
Surr: Phenol-d6	25.2	10.6-128.5		%REC	1	1/17/2018 9:39:00 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,4,6-Tetrachlorophenol	ND	0.943		µg/L	1	2/20/2018 5:55:00 PM
2,3,4-Trichlorophenol	ND	0.943		µg/L	1	2/20/2018 5:55:00 PM
2,3,5-Trichlorophenol	ND	0.943		µg/L	1	2/20/2018 5:55:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 11:30:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-012
Client Sample ID: MW57S010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,6-Trichlorophenol	ND	0.943		µg/L	1	2/20/2018 5:55:00 PM
3,4,5-Trichlorophenol	ND	0.943		µg/L	1	2/20/2018 5:55:00 PM
Surr: 2,4,6-Tribromophenol	88.4	33.1-119		%REC	1	2/20/2018 5:55:00 PM
Surr: 2-Fluorobiphenyl	83.9	33.1-116		%REC	1	2/20/2018 5:55:00 PM
Surr: 2-Fluorophenol	67.5	13.4-127		%REC	1	2/20/2018 5:55:00 PM
Surr: 4-Terphenyl-d14	71.3	41-122		%REC	1	2/20/2018 5:55:00 PM
Surr: Nitrobenzene-d5	97.7	28.9-119		%REC	1	2/20/2018 5:55:00 PM
Surr: Phenol-d6	52.1	10.6-109		%REC	1	2/20/2018 5:55:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,2,4-Trimethylbenzene	370	10.0		µg/L	10	1/16/2018 4:33:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,3,5-Trimethylbenzene	57.4	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 4:54:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 4:54:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
4-Isopropyltoluene	14.2	1.00		µg/L	1	1/16/2018 4:54:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 4:54:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 4:54:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 11:30:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-012
Client Sample ID: MW57S010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 4:54:00 PM
Benzene	1.11	0.300		µg/L	1	1/16/2018 4:54:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 4:54:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Ethylbenzene	178	10.0		µg/L	10	1/16/2018 4:33:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Isopropylbenzene	26.7	1.00		µg/L	1	1/16/2018 4:54:00 PM
m,p-Xylene	143	20.0		µg/L	10	1/16/2018 4:33:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 4:54:00 PM
Naphthalene	23300	200		µg/L	200	1/12/2018 8:50:00 PM
n-Butylbenzene	10.9	1.00		µg/L	1	1/16/2018 4:54:00 PM
n-Propylbenzene	33.6	1.00		µg/L	1	1/16/2018 4:54:00 PM
o-Xylene	98.3	10.0		µg/L	10	1/16/2018 4:33:00 PM
sec-Butylbenzene	9.64	1.00		µg/L	1	1/16/2018 4:54:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
tert-Butylbenzene	2.81	1.00		µg/L	1	1/16/2018 4:54:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Toluene	8.10	1.00		µg/L	1	1/16/2018 4:54:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Trichloroethene	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Vinyl chloride	ND	1.00		µg/L	1	1/16/2018 4:54:00 PM
Surr: 1,2-Dichloroethane-d4	89.0	75.3-126		%REC	1	1/16/2018 4:54:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 11:30:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-012
Client Sample ID: MW57S010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Surr: 4-Bromofluorobenzene	95.8	78.1-120		%REC	1	1/16/2018 4:54:00 PM
Surr: Dibromofluoromethane	101	74.2-122		%REC	1	1/16/2018 4:54:00 PM
Surr: Toluene-d8	95.6	76.2-135		%REC	1	1/16/2018 4:54:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 1:58:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-013
Client Sample ID: MW55010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS - ACID FRACTION SW8270D						Analyst: **CK**
Pentachlorophenol	297	4.71		µg/L	10	1/18/2018 3:02:00 PM
Surr: 2,4,6-Tribromophenol	71.4	29.1-124		%REC	1	1/17/2018 10:06:00 PM
Surr: 2-Fluorophenol	34.0	13.4-127.1		%REC	1	1/17/2018 10:06:00 PM
Surr: Phenol-d6	22.1	10.6-128.5		%REC	1	1/17/2018 10:06:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 3:51:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 3:51:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 3:51:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 3:51:00 PM
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 3:51:00 PM
Benzene	ND	0.300		µg/L	1	1/16/2018 3:51:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 1:58:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-013
Client Sample ID: MW55010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 3:51:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
cis-1,2-Dichloroethene	1.43	1.00		µg/L	1	1/16/2018 3:51:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/16/2018 3:51:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 3:51:00 PM
Naphthalene	14.1	1.00		µg/L	1	1/16/2018 3:51:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
o-Xylene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Toluene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Trichloroethene	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Vinyl chloride	ND	1.00		µg/L	1	1/16/2018 3:51:00 PM
Surr: 1,2-Dichloroethane-d4	89.2	75.3-126		%REC	1	1/16/2018 3:51:00 PM
Surr: 4-Bromofluorobenzene	95.4	78.1-120		%REC	1	1/16/2018 3:51:00 PM
Surr: Dibromofluoromethane	102	74.2-122		%REC	1	1/16/2018 3:51:00 PM
Surr: Toluene-d8	99.5	76.2-135		%REC	1	1/16/2018 3:51:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 3:10:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-014
Client Sample ID: MW55D010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	11.6	0.100		µg/L	1	1/15/2018 1:00:39 PM
SEMI-VOLATILE COMPOUNDS - ACID FRACTION		**SW8270D**				Analyst: **CK**
Pentachlorophenol	605	9.40		µg/L	20	1/18/2018 3:29:00 PM
Surr: 2,4,6-Tribromophenol	60.4	29.1-124		%REC	1	1/17/2018 10:34:00 PM
Surr: 2-Fluorophenol	41.7	13.4-127.1		%REC	1	1/17/2018 10:34:00 PM
Surr: Phenol-d6	26.4	10.6-128.5		%REC	1	1/17/2018 10:34:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 1:24:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 1:24:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 1:24:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 1:24:00 PM
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 1:24:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 3:10:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-014
Client Sample ID: MW55D010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Benzene	4.83	0.300		µg/L	1	1/16/2018 1:24:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 1:24:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
cis-1,2-Dichloroethene	13.5	1.00		µg/L	1	1/16/2018 1:24:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/16/2018 1:24:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 1:24:00 PM
Naphthalene	2.98	1.00		µg/L	1	1/16/2018 1:24:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
o-Xylene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Tetrachloroethene	5.43	1.00		µg/L	1	1/16/2018 1:24:00 PM
Toluene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
trans-1,2-Dichloroethene	1.04	1.00		µg/L	1	1/16/2018 1:24:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Trichloroethene	4.48	1.00		µg/L	1	1/16/2018 1:24:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 1:24:00 PM
Vinyl chloride	2.23	1.00		µg/L	1	1/16/2018 1:24:00 PM
Surr: 1,2-Dichloroethane-d4	93.8	75.3-126		%REC	1	1/16/2018 1:24:00 PM
Surr: 4-Bromofluorobenzene	97.3	78.1-120		%REC	1	1/16/2018 1:24:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 3:10:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-014
Client Sample ID: MW55D010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Surr: Dibromofluoromethane	102	74.2-122		%REC	1	1/16/2018 1:24:00 PM
Surr: Toluene-d8	98.2	76.2-135		%REC	1	1/16/2018 1:24:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 3:40:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-015
Client Sample ID: MW55S010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	57.7	0.100		µg/L	1	1/15/2018 1:04:01 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
1-Methylnaphthalene	445	4.74		µg/L	10	1/18/2018 3:57:00 PM
2,3,5,6-Tetrachlorophenol	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
2,4,5-Trichlorophenol	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
2,4,6-Trichlorophenol	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
2-Methylnaphthalene	57.2	0.474		µg/L	1	1/17/2018 11:02:00 PM
Acenaphthene	259	4.74		µg/L	10	1/18/2018 3:57:00 PM
Acenaphthylene	1.01	0.474		µg/L	1	1/17/2018 11:02:00 PM
Anthracene	8.49	0.474		µg/L	1	1/17/2018 11:02:00 PM
Benz(a)anthracene	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Benzo(a)pyrene	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Benzo(b)fluoranthene	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Benzo(g,h,i)perylene	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Benzo(k)fluoranthene	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Carbazole	51.5	0.474		µg/L	1	1/17/2018 11:02:00 PM
Chrysene	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Dibenz(a,h)anthracene	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Dibenzofuran	101	4.74		µg/L	10	1/18/2018 3:57:00 PM
Fluoranthene	2.46	0.474		µg/L	1	1/17/2018 11:02:00 PM
Fluorene	83.9	4.74		µg/L	10	1/18/2018 3:57:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Naphthalene	89.0	4.74		µg/L	10	1/18/2018 3:57:00 PM
Pentachlorophenol	ND	0.474		µg/L	1	1/17/2018 11:02:00 PM
Phenanthrene	38.5	0.474		µg/L	1	1/17/2018 11:02:00 PM
Pyrene	1.23	0.474		µg/L	1	1/17/2018 11:02:00 PM
Surr: 2,4,6-Tribromophenol	72.5	33.1-129.7		%REC	1	1/17/2018 11:02:00 PM
Surr: 2-Fluorobiphenyl	63.2	33.1-126.2		%REC	1	1/17/2018 11:02:00 PM
Surr: 2-Fluorophenol	41.6	13.4-127.1		%REC	1	1/17/2018 11:02:00 PM
Surr: 4-Terphenyl-d14	66.4	41-122		%REC	1	1/17/2018 11:02:00 PM
Surr: Nitrobenzene-d5	68.8	28.9-129.9		%REC	1	1/17/2018 11:02:00 PM
Surr: Phenol-d6	28.4	10.6-128.5		%REC	1	1/17/2018 11:02:00 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,4,6-Tetrachlorophenol	ND	0.948		µg/L	1	2/20/2018 6:22:00 PM
2,3,4-Trichlorophenol	ND	0.948		µg/L	1	2/20/2018 6:22:00 PM
2,3,5-Trichlorophenol	ND	0.948		µg/L	1	2/20/2018 6:22:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 3:40:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-015
Client Sample ID: MW55S010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,6-Trichlorophenol	ND	0.948		µg/L	1	2/20/2018 6:22:00 PM
3,4,5-Trichlorophenol	ND	0.948		µg/L	1	2/20/2018 6:22:00 PM
Surr: 2,4,6-Tribromophenol	90.6	33.1-119		%REC	1	2/20/2018 6:22:00 PM
Surr: 2-Fluorobiphenyl	67.1	33.1-116		%REC	1	2/20/2018 6:22:00 PM
Surr: 2-Fluorophenol	71.0	13.4-127		%REC	1	2/20/2018 6:22:00 PM
Surr: 4-Terphenyl-d14	64.4	41-122		%REC	1	2/20/2018 6:22:00 PM
Surr: Nitrobenzene-d5	79.7	28.9-119		%REC	1	2/20/2018 6:22:00 PM
Surr: Phenol-d6	68.6	10.6-109		%REC	1	2/20/2018 6:22:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2,4-Trimethylbenzene	1.58	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 4:12:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 4:12:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 4:12:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 4:12:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 3:40:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-015
Client Sample ID: MW55S010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 4:12:00 PM
Benzene	ND	0.300		µg/L	1	1/16/2018 4:12:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 4:12:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Ethylbenzene	11.8	1.00		µg/L	1	1/16/2018 4:12:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Isopropylbenzene	15.8	1.00		µg/L	1	1/16/2018 4:12:00 PM
m,p-Xylene	2.12	2.00		µg/L	1	1/16/2018 4:12:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 4:12:00 PM
Naphthalene	121	20.0		µg/L	20	1/16/2018 1:45:00 PM
n-Butylbenzene	7.00	1.00		µg/L	1	1/16/2018 4:12:00 PM
n-Propylbenzene	12.6	1.00		µg/L	1	1/16/2018 4:12:00 PM
o-Xylene	2.03	1.00		µg/L	1	1/16/2018 4:12:00 PM
sec-Butylbenzene	8.08	1.00		µg/L	1	1/16/2018 4:12:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
tert-Butylbenzene	3.20	1.00		µg/L	1	1/16/2018 4:12:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Toluene	1.09	1.00		µg/L	1	1/16/2018 4:12:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Trichloroethene	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Vinyl chloride	ND	1.00		µg/L	1	1/16/2018 4:12:00 PM
Surr: 1,2-Dichloroethane-d4	88.3	75.3-126		%REC	1	1/16/2018 4:12:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/9/2018 3:40:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801064-015
Client Sample ID: MW55S010918
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Surr: 4-Bromofluorobenzene	96.2	78.1-120		%REC	1	1/16/2018 4:12:00 PM
Surr: Dibromofluoromethane	102	74.2-122		%REC	1	1/16/2018 4:12:00 PM
Surr: Toluene-d8	96.5	76.2-135		%REC	1	1/16/2018 4:12:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT:	Maul Foster & Alongi	**Collection Date:**	
Project:	POR Groundwater / 9003-01-28		
Lab ID:	1801064-016		
Client Sample ID:	Trip Blanks	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		**PER CLIENT**				Analyst: **kel**
Hold	1/12/2018	0			1	1/12/2018 3:31:51 PM

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **6020_WDISS**

Sample ID **ICV**	SampType: **ICV**	TestCode: **6020_WDISS**	Units: **µg/L**	Prep Date:	RunNo: **24442**
Client ID: **ICV**	Batch ID: **11241**	TestNo: **SW6020A**		Analysis Date: **1/15/2018**	SeqNo: **327704**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.5	0.100	50.00	0	99.0	90	110				

Sample ID **MB-11241**	SampType: **MBLK**	TestCode: **6020_WDISS**	Units: **µg/L**	Prep Date: **1/15/2018**	RunNo: **24442**
Client ID: **PBW**	Batch ID: **11241**	TestNo: **SW6020A**		Analysis Date: **1/15/2018**	SeqNo: **327705**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.100									

Sample ID **CCV**	SampType: **CCV**	TestCode: **6020_WDISS**	Units: **µg/L**	Prep Date:	RunNo: **24442**
Client ID: **CCV**	Batch ID: **11241**	TestNo: **SW6020A**		Analysis Date: **1/15/2018**	SeqNo: **327706**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.4	0.100	50.00	0	98.7	90	110				

Sample ID **1801064-002CDUP**	SampType: **DUP**	TestCode: **6020_WDISS**	Units: **µg/L**	Prep Date: **1/15/2018**	RunNo: **24442**
Client ID: **MW63010518**	Batch ID: **11241**	TestNo: **SW6020A**		Analysis Date: **1/15/2018**	SeqNo: **327708**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.100						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **6020_WDISS**

Sample ID	**1801064-002CMS**	SampType:	**MS**	TestCode:	**6020_WDISS**	Units:	**µg/L**	Prep Date:	**1/15/2018**	RunNo:	**24442**
Client ID:	**MW63010518**	Batch ID:	**11241**	TestNo:	**SW6020A**			Analysis Date:	**1/15/2018**	SeqNo:	**327709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	54.1	0.100	50.00	0	108	70	130				

Sample ID	**1801064-002CMSD**	SampType:	**MSD**	TestCode:	**6020_WDISS**	Units:	**µg/L**	Prep Date:	**1/15/2018**	RunNo:	**24442**
Client ID:	**MW63010518**	Batch ID:	**11241**	TestNo:	**SW6020A**			Analysis Date:	**1/15/2018**	SeqNo:	**327710**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	54.9	0.100	50.00	0	110	70	130	54.05	1.56	20	

Sample ID	**CCV**	SampType:	**CCV**	TestCode:	**6020_WDISS**	Units:	**µg/L**	Prep Date:		RunNo:	**24442**
Client ID:	**CCV**	Batch ID:	**11241**	TestNo:	**SW6020A**			Analysis Date:	**1/15/2018**	SeqNo:	**327713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.2	0.100	50.00	0	98.4	90	110				

Sample ID	**CCV**	SampType:	**CCV**	TestCode:	**6020_WDISS**	Units:	**µg/L**	Prep Date:		RunNo:	**24442**
Client ID:	**CCV**	Batch ID:	**11241**	TestNo:	**SW6020A**			Analysis Date:	**1/15/2018**	SeqNo:	**327721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.5	0.100	50.00	0	99.0	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **CCV MSVWS-3009** SampType: **CCV** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCV** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/12/2018** SeqNo: **328093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	37.6	1.00	40.00	0	93.9	80	120				
1,2-Dichloropropane	47.8	1.00	40.00	0	119	80	120				
Chloroform	46.2	1.00	40.00	0	116	80	120				
Ethylbenzene	39.4	1.00	40.00	0	98.4	80	120				
Toluene	38.8	1.00	40.00	0	97.0	80	120				
Vinyl chloride	34.0	1.00	40.00	0	84.9	80	120				

Sample ID **CCV MSVWS-3009** SampType: **CCV** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCV** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.1	1.00	40.00	0	108	80	120				
1,2-Dichloropropane	42.4	1.00	40.00	0	106	80	120				
Chloroform	34.1	1.00	40.00	0	85.2	80	120				
Ethylbenzene	44.7	1.00	40.00	0	112	80	120				
Toluene	44.5	1.00	40.00	0	111	80	120				
Vinyl chloride	45.2	1.00	40.00	0	113	80	120				

Sample ID **CCB** SampType: **CCB** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCB** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.00									

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **CCB** SampType: **CCB** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCB** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,1-Dichloropropene	ND	1.00									
1,2,3-Trichlorobenzene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	1.00									
1,2,4-Trimethylbenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
1,2-Dibromoethane	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dichloroethane	ND	1.00									
1,2-Dichloropropane	ND	1.00									
1,3,5-Trimethylbenzene	ND	1.00									
1,3-Dichlorobenzene	ND	1.00									
1,3-Dichloropropane	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
2,2-Dichloropropane	ND	1.00									
2-Butanone	ND	10.0									
2-Chlorotoluene	ND	1.00									
2-Hexanone	ND	10.0									
4-Chlorotoluene	ND	1.00									
4-Isopropyltoluene	ND	1.00									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **CCB** SampType: **CCB** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCB** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methyl-2-pentanone	ND	10.0									
Acetone	ND	20.0									
Acrylonitrile	ND	5.00									
Benzene	ND	0.300									
Bromobenzene	ND	1.00									
Bromochloromethane	ND	1.00									
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon disulfide	ND	2.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
Dibromochloromethane	ND	1.00									
Dibromomethane	ND	1.00									
Dichlorodifluoromethane	ND	1.00									
Ethylbenzene	ND	1.00									
Hexachlorobutadiene	ND	1.00									
Isopropylbenzene	ND	1.00									
m,p-Xylene	ND	2.00									
Methyl tert-butyl ether	ND	1.00									
Methylene chloride	ND	50.0									

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **CCB** SampType: **CCB** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCB** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	1.00									
n-Butylbenzene	ND	1.00									
n-Propylbenzene	ND	1.00									
o-Xylene	ND	1.00									
sec-Butylbenzene	ND	1.00									
Styrene	ND	1.00									
tert-Butylbenzene	ND	1.00									
Tetrachloroethene	ND	1.00									
Toluene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
Trichloroethene	ND	1.00									
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Surr: 1,2-Dichloroethane-d4	99.1		100.0		99.1	75.3	126				
Surr: 4-Bromofluorobenzene	97.2		100.0		97.2	78.1	120				
Surr: Dibromofluoromethane	104		100.0		104	74.2	122				
Surr: Toluene-d8	98.8		100.0		98.8	76.2	135				

Sample ID **LCS MSVWS-3010** SampType: **LCS** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **LCSW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	42.0	1.00	40.00	0	105	61.2	135				

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **LCS MSVWS-3010** SampType: **LCS** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **LCSW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.1	0.300	40.00	0	108	76.8	125				
Chlorobenzene	43.2	1.00	40.00	0	108	84.1	116				
Toluene	44.4	1.00	40.00	0	111	82	122				
Trichloroethene	44.7	1.00	40.00	0	112	68.5	124				

Sample ID **1801064-001BMS** SampType: **MS** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **MW61010518** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.1	1.00	40.00	0	97.6	47.8	165				
Benzene	40.9	0.300	40.00	0	102	74.1	136				
Chlorobenzene	41.1	1.00	40.00	0	103	70.7	133				
Toluene	42.3	1.00	40.00	0	106	68.4	135				
Trichloroethene	42.8	1.00	40.00	0	107	50.8	164				

Sample ID **1801064-001BMSD** SampType: **MSD** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **MW61010518** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.0	1.00	40.00	0	97.5	47.8	165	39.06	0.179	20	
Benzene	40.3	0.300	40.00	0	101	74.1	136	40.86	1.38	20	
Chlorobenzene	40.8	1.00	40.00	0	102	70.7	133	41.14	0.879	20	
Toluene	41.9	1.00	40.00	0	105	68.4	135	42.26	0.808	20	

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

Specialty Analytical

27-Feb-18

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **1801064-001BMSD** SampType: **MSD** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **MW61010518** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	41.7	1.00	40.00	0	104	50.8	164	42.78	2.56	20	

Sample ID **MB** SampType: **MBLK** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **PBW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/12/2018** SeqNo: **328124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,1-Dichloropropene	ND	1.00									
1,2,3-Trichlorobenzene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	1.00									
1,2,4-Trimethylbenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
1,2-Dibromoethane	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dichloroethane	ND	1.00									
1,2-Dichloropropane	ND	1.00									
1,3,5-Trimethylbenzene	ND	1.00									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **MB** SampType: **MBLK** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **PBW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/12/2018** SeqNo: **328124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	1.00									
1,3-Dichloropropane	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
2,2-Dichloropropane	ND	1.00									
2-Butanone	ND	10.0									
2-Chlorotoluene	ND	1.00									
2-Hexanone	ND	10.0									
4-Chlorotoluene	ND	1.00									
4-Isopropyltoluene	ND	1.00									
4-Methyl-2-pentanone	ND	10.0									
Acetone	ND	20.0									
Acrylonitrile	ND	5.00									
Benzene	ND	0.300									
Bromobenzene	ND	1.00									
Bromochloromethane	ND	1.00									
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon disulfide	ND	2.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **MB** SampType: **MBLK** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **PBW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/12/2018** SeqNo: **328124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.00									
Dibromomethane	ND	1.00									
Dichlorodifluoromethane	ND	1.00									
Ethylbenzene	ND	1.00									
Hexachlorobutadiene	ND	1.00									
Isopropylbenzene	ND	1.00									
m,p-Xylene	ND	2.00									
Methyl tert-butyl ether	ND	1.00									
Methylene chloride	ND	50.0									
Naphthalene	ND	1.00									
n-Butylbenzene	ND	1.00									
n-Propylbenzene	ND	1.00									
o-Xylene	ND	1.00									
sec-Butylbenzene	ND	1.00									
Styrene	ND	1.00									
tert-Butylbenzene	ND	1.00									
Tetrachloroethene	ND	1.00									
Toluene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
Trichloroethene	ND	1.00									
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Surr: 1,2-Dichloroethane-d4	105		100.0		105	75.3	126				
Surr: 4-Bromofluorobenzene	103		100.0		103	78.1	120				
Surr: Dibromofluoromethane	99.3		100.0		99.3	74.2	122				

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **MB**	SampType: **MBLK**	TestCode: **8260_W**	Units: **µg/L**	Prep Date:	RunNo: **24466**
Client ID: **PBW**	Batch ID: **R24466**	TestNo: **SW8260B**		Analysis Date: **1/12/2018**	SeqNo: **328124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	100		100.0		100	76.2	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270AFLL_W**

Sample ID	**CCV MSSWS-1510**	SampType: **CCV**	TestCode: **8270AFLL_W**	Units: **µg/L**	Prep Date:	RunNo: **24504**
Client ID:	**CCV**	Batch ID: **11239**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/17/2018**	SeqNo: **328489**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	19.3	0.500	20.00	0	96.3	80	120				

Sample ID	**MB-11239**	SampType: **MBLK**	TestCode: **8270AFLL_W**	Units: **µg/L**	Prep Date: **1/12/2018**	RunNo: **24504**
Client ID:	**PBW**	Batch ID: **11239**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/17/2018**	SeqNo: **328490**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	ND	0.500									
Surr: 2,4,6-Tribromophenol	93.2		100.0		93.2	29.1	124				
Surr: 2-Fluorophenol	89.9		100.0		89.9	13.4	127.1				
Surr: Phenol-d6	91.8		100.0		91.8	10.6	128.5				

Sample ID	**CCV MSSWS-1510**	SampType: **CCV**	TestCode: **8270AFLL_W**	Units: **µg/L**	Prep Date:	RunNo: **24504**
Client ID:	**CCV**	Batch ID: **11239**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/18/2018**	SeqNo: **328496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	20.1	0.500	20.00	0	100	80	120				

Sample ID	**LCS-11239**	SampType: **LCS**	TestCode: **8270AFLL_W**	Units: **µg/L**	Prep Date: **1/12/2018**	RunNo: **24504**
Client ID:	**LCSW**	Batch ID: **11239**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/17/2018**	SeqNo: **328499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	29.4	0.500	40.00	0	73.6	30	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270AFLL_W**

Sample ID	**LCS-11239**	SampType:	**LCS**	TestCode:	**8270AFLL_W**	Units:	**µg/L**	Prep Date:	**1/12/2018**	RunNo:	**24504**	
Client ID:	**LCSW**	Batch ID:	**11239**	TestNo:	**SW8270D**	**SW 3510C**		Analysis Date:	**1/17/2018**	SeqNo:	**328499**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	**LCSD-11239**	SampType:	**LCSD**	TestCode:	**8270AFLL_W**	Units:	**µg/L**	Prep Date:	**1/12/2018**	RunNo:	**24504**	
Client ID:	**LCSS02**	Batch ID:	**11239**	TestNo:	**SW8270D**	**SW 3510C**		Analysis Date:	**1/17/2018**	SeqNo:	**328500**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	28.3	0.500	40.00	0	70.8	30	130	29.44	3.91	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270LL_W**

Sample ID **CCV MSSWS-1510** SampType: **CCV** TestCode: **8270LL_W** Units: **µg/L** Prep Date: RunNo: **24503**

Client ID: **CCV** Batch ID: **11238** TestNo: **SW8270D** **SW 3510C** Analysis Date: **1/17/2018** SeqNo: **333718**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	17.6	0.500	20.00	0	88.1	80	120				
Acenaphthene	19.2	0.500	20.00	0	96.1	80	120				
Benzo(a)pyrene	18.1	0.500	20.00	0	90.3	80	120				
Fluoranthene	20.4	0.500	20.00	0	102	80	120				
Pentachlorophenol	19.3	0.500	20.00	0	96.3	80	120				

Sample ID **MB-11238** SampType: **MBLK** TestCode: **8270LL_W** Units: **µg/L** Prep Date: **1/12/2018** RunNo: **24503**

Client ID: **PBW** Batch ID: **11238** TestNo: **SW8270D** **SW 3510C** Analysis Date: **1/17/2018** SeqNo: **333719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.500									
2,3,5,6-Tetrachlorophenol	ND	0.500									
2,4,5-Trichlorophenol	ND	0.500									
2,4,6-Trichlorophenol	ND	0.500									
2-Methylnaphthalene	ND	0.500									
Acenaphthene	ND	0.500									
Acenaphthylene	ND	0.500									
Anthracene	ND	0.500									
Azobenzene	ND	0.500									
Benz(a)anthracene	ND	0.500									
Benzo(a)pyrene	ND	0.500									
Benzo(b)fluoranthene	ND	0.500									
Benzo(g,h,i)perylene	ND	0.500									
Benzo(k)fluoranthene	ND	0.500									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270LL_W**

Sample ID **MB-11238**	SampType: **MBLK**	TestCode: **8270LL_W**	Units: **µg/L**	Prep Date: **1/12/2018**	RunNo: **24503**
Client ID: **PBW**	Batch ID: **11238**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/17/2018**	SeqNo: **333719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	ND	0.500									
Carbazole	ND	0.500									
Chrysene	ND	0.500									
Dibenz(a,h)anthracene	ND	0.500									
Dibenzofuran	ND	0.500									
Fluoranthene	ND	0.500									
Fluorene	ND	0.500									
Indeno(1,2,3-cd)pyrene	ND	0.500									
Naphthalene	ND	0.500									
Pentachlorophenol	ND	0.500									
Phenanthrene	ND	0.500									
Pyrene	ND	0.500									
Surr: 2,4,6-Tribromophenol	93.2		100.0		93.2	33.1	129.7				
Surr: 2-Fluorobiphenyl	93.4		100.0		93.4	33.1	126.2				
Surr: 2-Fluorophenol	89.9		100.0		89.9	13.4	127.1				
Surr: 4-Terphenyl-d14	90.7		100.0		90.7	41	122				
Surr: Nitrobenzene-d5	94.0		100.0		94.0	28.9	129.9				
Surr: Phenol-d6	91.8		100.0		91.8	10.6	128.5				

Sample ID **LCS-11238**	SampType: **LCS**	TestCode: **8270LL_W**	Units: **µg/L**	Prep Date: **1/12/2018**	RunNo: **24503**
Client ID: **LCSW**	Batch ID: **11238**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/17/2018**	SeqNo: **333726**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	28.4	0.500	40.00	0	71.0	42.4	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270LL_W**

Sample ID **LCS-11238** SampType: **LCS** TestCode: **8270LL_W** Units: **µg/L** Prep Date: **1/12/2018** RunNo: **24503**

Client ID: **LCSW** Batch ID: **11238** TestNo: **SW8270D** **SW 3510C** Analysis Date: **1/17/2018** SeqNo: **333726**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	29.4	0.500	40.00	0	73.6	43.3	113				
Pyrene	29.3	0.500	40.00	0	73.2	35	119				

Sample ID **LCSD-11238** SampType: **LCSD** TestCode: **8270LL_W** Units: **µg/L** Prep Date: **1/12/2018** RunNo: **24503**

Client ID: **LCSS02** Batch ID: **11238** TestNo: **SW8270D** **SW 3510C** Analysis Date: **1/17/2018** SeqNo: **333727**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	29.4	0.500	40.00	0	73.4	42.4	124	28.42	3.25	20	
Pentachlorophenol	28.3	0.500	40.00	0	70.8	43.3	113	29.44	3.91	20	
Pyrene	31.3	0.500	40.00	0	78.2	35	119	29.26	6.71	20	

Sample ID **CCV MSSWS-1510** SampType: **CCV** TestCode: **8270LL_W** Units: **µg/L** Prep Date: RunNo: **24503**

Client ID: **CCV** Batch ID: **11238** TestNo: **SW8270D** **SW 3510C** Analysis Date: **1/18/2018** SeqNo: **333728**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	17.4	0.500	20.00	0	86.9	80	120				
Acenaphthene	19.3	0.500	20.00	0	96.7	80	120				
Benzo(a)pyrene	18.2	0.500	20.00	0	90.9	80	120				
Fluoranthene	20.3	0.500	20.00	0	102	80	120				
Pentachlorophenol	20.1	0.500	20.00	0	100	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801064**

Specialty Analytical

27-Feb-18

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270POR_W**

Sample ID **20 PPM ICAL**	SampType: **CCV**	TestCode: **8270POR_W**	Units: **µg/L**	Prep Date:	RunNo: **24890**
Client ID: **CCV**	Batch ID: **R24890**	TestNo: **SW8270D**		Analysis Date: **2/20/2018**	SeqNo: **333208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,3,4-Trichlorophenol	21.3	1.00	20.00	0	107	80	120				
2,3,5-Trichlorophenol	20.8	1.00	20.00	0	104	80	120				
2,3,6-Trichlorophenol	20.8	1.00	20.00	0	104	80	120				
3,4,5-Trichlorophenol	19.7	1.00	20.00	0	98.7	80	120				

Sample ID **MB**	SampType: **MBLK**	TestCode: **8270POR_W**	Units: **µg/L**	Prep Date:	RunNo: **24890**
Client ID: **PBW**	Batch ID: **R24890**	TestNo: **SW8270D**		Analysis Date: **2/20/2018**	SeqNo: **333209**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,3,4,6-Tetrachlorophenol	ND	1.00									
2,3,4-Trichlorophenol	ND	1.00									
2,3,5-Trichlorophenol	ND	1.00									
2,3,6-Trichlorophenol	ND	1.00									
3,4,5-Trichlorophenol	ND	1.00									
Surr: 2,4,6-Tribromophenol	69.4		100.0		69.4	33.1	99.7				
Surr: 2-Fluorobiphenyl	68.1		100.0		68.1	33.1	96.2				
Surr: 2-Fluorophenol	36.0		100.0		36.0	13.4	57.1				
Surr: 4-Terphenyl-d14	66.2		100.0		66.2	41	122				
Surr: Nitrobenzene-d5	64.8		100.0		64.8	28.9	99.9				
Surr: Phenol-d6	27.4		100.0		27.4	10.6	38.5				

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted reco

KEY TO FLAGS

Rev. May 12, 2010

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
A4	The product appears to be aged or degraded diesel.
B	The blank exhibited a positive result great than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
G	Result may be biased high due to biogenic interferences. Clean up is recommended.
H	Sample was analyzed outside recommended holding time.
HT	At clients request, samples was analyzed outside of recommended holding time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits; post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Specialty Analytical

11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager: ANDY Vidourek
Company: MAUL FOSTER & ALONGI
Address: 400 EAST MILL PLAIN BLVD. SUITE 400
VANC. WA. 98660
Phone: 360-694-2691 Fax: 360-906-4958
Project No. 9003 01-2 Project Name: POR GROUNDWATER
Project Site Location OR ____ WA X Other ____
Invoice To: PORT OF RIDGEFIELD P.O. No. ____

Collected By:
Signature: Pat Kirby
Printed: PAT KIRBY

Signature: ____
Printed: KEVIN OLDHAM

Turn Around Time
☒ Normal 5-7 Business Days
☐ Rush ____
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. 1801064
Shipped Via: SA
Air Bill No. ____
Temperature On Receipt 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: PORT SVOC LIST (8270D)	PENTACHLOROETHENE (8270D)	VOC's (8260B)	TETRACHLOROETHENE (8260B)	DISSOLVED ARSENIC (6020)	Comments	Lab I.D.
1-5-18	14:27	MW6I010518	WATER	4	X		X				
"	15:08	MW63010518	"	5	X		X		X		
1-8-18	10:29	MW47D010818	"	3				X			
"	11:05	MW29D010818	"	3				X			
"	13:55	MW46D010818	"	3				X			
"	14:38	MW46S010818	"	1					X		
"	15:25	MW45D010818	"	4		X		X			
"	15:25	MW45DDUP010818	"	4		X		X			
1-9-18	9:46	MW62010918	"	4		X		X			
"	10:37	MW57D010918	"	5	X		X		X		
"	10:37	MW57DDUP010918	"	5	X		X		X		
"	11:30	MW57S010918	"	5	X		X		X		

Relinquished By: PAT KIRBY Company: PORT OF RIDGEFIELD Date: 1-10-18 Time: 1257
Received By: Company: MSA
Relinquished By: Company: MSA Date: 1-10-18 Time: 1419
Received For Lab By: Date: Time:

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

CHAIN OF CUSTODY RECORD

Specialty Analytical
11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager: ANDY VEDOUREK
Company: MAUL FOSTER & ALONGI
Address: 400 EAST MILL PLAIN BLVD. SUITE 400
VANC. WA 98660
Phone: 360-694-2691 Fax: 360-906-4958
Project No: 9003 01-28 Project Name: POR GROUNDWATER
Project Site Location OR ____ WA X Other ____
Invoice To: PORT OF RIDGEFIELD P.O. No. ____

Collected By:
Signature: Pat Kirby
Printed: PAT KIRBY

Signature: ____
Printed: KEVIN OLDHAM

Turn Around Time
☒ Normal 5-7 Business Days
☐ Rush ____
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: PORT 9000 LIST (8270D)	PENTACHLORETHENE (8270D)	VOCs (8260B)	TETRACHLORETHENE (8260B)	DISSOLVED ARSENIC (6020)	Comments	Lab I.D.
1-9-18	13:58	MW55010918	WATER	4		X	X				
"	15:10	MW55D010918	"	5		X	X		X		
"	15:40	MW55S010918	"	5	X		X		X		
		TRIP BLANKS	"	3							

For Laboratory Use
Lab Job No. 18010164
Shipped Via SA
Air Bill No. ____
Temperature On Receipt 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Relinquished By	Date	Time	Received By	Relinquished By	Date	Time
PAT KIRBY	1-10-18	1257			1-10-18	1419
Company: PORT OF RIDGEFIELD			Company: CL SA	Company: CL SA		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By: ____ Date ____ Time ____

Specialty Analytical

9011 SE Jannsen Rd
Clackamas, Oregon 97015
TEL: 503-607-1331 FAX: 503-607-1336
Website: www.specialtyanalytical.com

February 26, 2018

Andrew Vidourek
Maul Foster & Alongi
400 E. Mill Plain Blvd.
Suite 400
Vancouver, WA 98660

TEL: (360) 694-2691
FAX (360) 906-1958

RE: POR Groundwater / 9003-01-28

Dear Andrew Vidourek: Order No.: 1801091

Specialty Analytical received 6 sample(s) on 1/12/2018 for the analyses presented in the following report.

REVISED REPORT: Please see case narrative for information on revision.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French
Lab Director

Case Narrative

WO#: **1801091**

Date: **2/26/2018**

CLIENT: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28

Revision 1.

This report has been revised to correct sample names.

Revision 2-

This report has been revised to include additional semi-volatile compounds by method 8270 per client request.

Revision 3-

This report has been revised to report 2,3,4,6-Tetrachlorophenol in the Method Blank.

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/10/2018 10:25:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-001
Client Sample ID: MW58D011018
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	12.1	0.100		µg/L	1	1/15/2018 1:07:24 PM
SEMI-VOLATILE COMPOUNDS - ACID FRACTION		**SW8270D**				Analyst: **CK**
Pentachlorophenol	ND	0.471		µg/L	1	1/18/2018 6:15:00 PM
Surr: 2,4,6-Tribromophenol	79.6	29.1-124		%REC	1	1/18/2018 6:15:00 PM
Surr: 2-Fluorophenol	42.1	13.4-127.1		%REC	1	1/18/2018 6:15:00 PM
Surr: Phenol-d6	21.2	10.6-128.5		%REC	1	1/18/2018 6:15:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 2:06:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 2:06:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 2:06:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 2:06:00 PM
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 2:06:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/10/2018 10:25:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-001
Client Sample ID: MW58D011018
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Benzene	3.19	0.300		µg/L	1	1/16/2018 2:06:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 2:06:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/16/2018 2:06:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 2:06:00 PM
Naphthalene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
o-Xylene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Toluene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Trichloroethene	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Vinyl chloride	ND	1.00		µg/L	1	1/16/2018 2:06:00 PM
Surr: 1,2-Dichloroethane-d4	91.1	75.3-126		%REC	1	1/16/2018 2:06:00 PM
Surr: 4-Bromofluorobenzene	97.0	78.1-120		%REC	1	1/16/2018 2:06:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/10/2018 10:25:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-001
Client Sample ID: MW58D011018
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Surr: Dibromofluoromethane	102	74.2-122		%REC	1	1/16/2018 2:06:00 PM
Surr: Toluene-d8	99.4	76.2-135		%REC	1	1/16/2018 2:06:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/10/2018 10:57:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-002
Client Sample ID: MW56011018
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
1-Methylnaphthalene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
2,3,5,6-Tetrachlorophenol	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
2,4,5-Trichlorophenol	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
2,4,6-Trichlorophenol	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
2-Methylnaphthalene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Acenaphthene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Acenaphthylene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Anthracene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Benz(a)anthracene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Benzo(a)pyrene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Benzo(b)fluoranthene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Benzo(g,h,i)perylene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Benzo(k)fluoranthene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Carbazole	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Chrysene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Dibenz(a,h)anthracene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Dibenzofuran	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Fluoranthene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Fluorene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Naphthalene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Pentachlorophenol	33.9	0.478		µg/L	1	1/18/2018 6:43:00 PM
Phenanthrene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Pyrene	ND	0.478		µg/L	1	1/18/2018 6:43:00 PM
Surr: 2,4,6-Tribromophenol	68.9	33.1-129.7		%REC	1	1/18/2018 6:43:00 PM
Surr: 2-Fluorobiphenyl	68.2	33.1-126.2		%REC	1	1/18/2018 6:43:00 PM
Surr: 2-Fluorophenol	45.9	13.4-127.1		%REC	1	1/18/2018 6:43:00 PM
Surr: 4-Terphenyl-d14	79.1	41-122		%REC	1	1/18/2018 6:43:00 PM
Surr: Nitrobenzene-d5	62.6	28.9-129.9		%REC	1	1/18/2018 6:43:00 PM
Surr: Phenol-d6	24.6	10.6-128.5		%REC	1	1/18/2018 6:43:00 PM
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
2,3,4,6-Tetrachlorophenol	ND	0.955		µg/L	1	2/20/2018 2:50:00 PM
2,3,4-Trichlorophenol	ND	0.955		µg/L	1	2/20/2018 2:50:00 PM
2,3,5-Trichlorophenol	ND	0.955		µg/L	1	2/20/2018 2:50:00 PM
2,3,6-Trichlorophenol	ND	0.955		µg/L	1	2/20/2018 2:50:00 PM
3,4,5-Trichlorophenol	ND	0.955		µg/L	1	2/20/2018 2:50:00 PM
Surr: 2,4,6-Tribromophenol	87.3	33.1-119		%REC	1	2/20/2018 2:50:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/10/2018 10:57:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-002
Client Sample ID: MW56011018
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS-LOW LEVEL		**SW8270D**				Analyst: **CK**
Surr: 2-Fluorobiphenyl	91.9	33.1-116		%REC	1	2/20/2018 2:50:00 PM
Surr: 2-Fluorophenol	44.3	13.4-127		%REC	1	2/20/2018 2:50:00 PM
Surr: 4-Terphenyl-d14	97.5	41-122		%REC	1	2/20/2018 2:50:00 PM
Surr: Nitrobenzene-d5	85.2	28.9-119		%REC	1	2/20/2018 2:50:00 PM
Surr: Phenol-d6	42.2	10.6-109		%REC	1	2/20/2018 2:50:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 2:27:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 2:27:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 2:27:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 2:27:00 PM
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 2:27:00 PM
Benzene	ND	0.300		µg/L	1	1/16/2018 2:27:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/10/2018 10:57:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-002
Client Sample ID: MW56011018
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 2:27:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/16/2018 2:27:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 2:27:00 PM
Naphthalene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
o-Xylene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Toluene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Trichloroethene	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Vinyl chloride	ND	1.00		µg/L	1	1/16/2018 2:27:00 PM
Surr: 1,2-Dichloroethane-d4	91.1	75.3-126		%REC	1	1/16/2018 2:27:00 PM
Surr: 4-Bromofluorobenzene	94.8	78.1-120		%REC	1	1/16/2018 2:27:00 PM
Surr: Dibromofluoromethane	102	74.2-122		%REC	1	1/16/2018 2:27:00 PM
Surr: Toluene-d8	99.0	76.2-135		%REC	1	1/16/2018 2:27:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/10/2018 2:09:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-003
Client Sample ID: RMW2D011018
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS - ACID FRACTION SW8270D						Analyst: **CK**
Pentachlorophenol	2.23	0.471		µg/L	1	1/18/2018 7:10:00 PM
Surr: 2,4,6-Tribromophenol	73.7	29.1-124		%REC	1	1/18/2018 7:10:00 PM
Surr: 2-Fluorophenol	42.5	13.4-127.1		%REC	1	1/18/2018 7:10:00 PM
Surr: Phenol-d6	21.9	10.6-128.5		%REC	1	1/18/2018 7:10:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/10/2018 2:37:00 PM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-004
Client Sample ID: RMW2S011018
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMI-VOLATILE COMPOUNDS - ACID FRACTION SW8270D						Analyst: **CK**
Pentachlorophenol	ND	0.473		µg/L	1	1/18/2018 7:38:00 PM
Surr: 2,4,6-Tribromophenol	74.2	29.1-124		%REC	1	1/18/2018 7:38:00 PM
Surr: 2-Fluorophenol	37.2	13.4-127.1		%REC	1	1/18/2018 7:38:00 PM
Surr: Phenol-d6	18.0	10.6-128.5		%REC	1	1/18/2018 7:38:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/11/2018 10:30:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-005
Client Sample ID: USDFW1011118
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP/MS METALS-DISSOLVED RECOVERABLE		**SW6020A**				Analyst: **JRC**
Arsenic	1.64	0.100		µg/L	1	1/15/2018 1:10:46 PM
SEMI-VOLATILE COMPOUNDS - ACID FRACTION		**SW8270D**				Analyst: **CK**
Pentachlorophenol	ND	0.470		µg/L	1	1/18/2018 8:05:00 PM
Surr: 2,4,6-Tribromophenol	54.2	29.1-124		%REC	1	1/18/2018 8:05:00 PM
Surr: 2-Fluorophenol	36.8	13.4-127.1		%REC	1	1/18/2018 8:05:00 PM
Surr: Phenol-d6	21.8	10.6-128.5		%REC	1	1/18/2018 8:05:00 PM
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,1,1-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2,3-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2,4-Trichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2,4-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,3,5-Trimethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
2,2-Dichloropropane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
2-Butanone	ND	10.0		µg/L	1	1/16/2018 2:48:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
2-Hexanone	ND	10.0		µg/L	1	1/16/2018 2:48:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	1/16/2018 2:48:00 PM
Acetone	ND	20.0		µg/L	1	1/16/2018 2:48:00 PM
Acrylonitrile	ND	5.00		µg/L	1	1/16/2018 2:48:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/11/2018 10:30:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-005
Client Sample ID: USDFW1011118
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Benzene	ND	0.300		µg/L	1	1/16/2018 2:48:00 PM
Bromobenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Bromochloromethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Bromoform	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Bromomethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Carbon disulfide	ND	2.00		µg/L	1	1/16/2018 2:48:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Chlorobenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Chloroethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Chloroform	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Chloromethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Dibromomethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Dichlorodifluoromethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Ethylbenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Hexachlorobutadiene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Isopropylbenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
m,p-Xylene	ND	2.00		µg/L	1	1/16/2018 2:48:00 PM
Methyl tert-butyl ether	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Methylene chloride	ND	50.0		µg/L	1	1/16/2018 2:48:00 PM
Naphthalene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
n-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
n-Propylbenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
o-Xylene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Styrene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Toluene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Trichloroethene	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Vinyl chloride	ND	1.00		µg/L	1	1/16/2018 2:48:00 PM
Surr: 1,2-Dichloroethane-d4	91.6	75.3-126		%REC	1	1/16/2018 2:48:00 PM
Surr: 4-Bromofluorobenzene	95.3	78.1-120		%REC	1	1/16/2018 2:48:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT: Maul Foster & Alongi
Collection Date: 1/11/2018 10:30:00 AM
Project: POR Groundwater / 9003-01-28
Lab ID: 1801091-005
Client Sample ID: USDFW1011118
Matrix: WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
Surr: Dibromofluoromethane	103	74.2-122		%REC	1	1/16/2018 2:48:00 PM
Surr: Toluene-d8	98.8	76.2-135		%REC	1	1/16/2018 2:48:00 PM

Specialty Analytical

Date Reported: 26-Feb-18

CLIENT:	Maul Foster & Alongi	**Collection Date:**	1/11/2018
Project:	POR Groundwater / 9003-01-28		
Lab ID:	1801091-006		
Client Sample ID:	Trip Blanks	**Matrix:**	WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
HOLD PER CLIENT REQUEST		**PER CLIENT**				Analyst: **kel**
Hold	1/12/2018	0			1	1/12/2018 3:31:51 PM

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **6020_WDISS**

Sample ID **ICV**	SampType: **ICV**	TestCode: **6020_WDISS**	Units: **µg/L**	Prep Date:	RunNo: **24442**
Client ID: **ICV**	Batch ID: **11241**	TestNo: **SW6020A**		Analysis Date: **1/15/2018**	SeqNo: **327704**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.5	0.100	50.00	0	99.0	90	110				

Sample ID **MB-11241**	SampType: **MBLK**	TestCode: **6020_WDISS**	Units: **µg/L**	Prep Date: **1/15/2018**	RunNo: **24442**
Client ID: **PBW**	Batch ID: **11241**	TestNo: **SW6020A**		Analysis Date: **1/15/2018**	SeqNo: **327705**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.100									

Sample ID **CCV**	SampType: **CCV**	TestCode: **6020_WDISS**	Units: **µg/L**	Prep Date:	RunNo: **24442**
Client ID: **CCV**	Batch ID: **11241**	TestNo: **SW6020A**		Analysis Date: **1/15/2018**	SeqNo: **327706**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.4	0.100	50.00	0	98.7	90	110				

Sample ID **1801064-002CDUP**	SampType: **DUP**	TestCode: **6020_WDISS**	Units: **µg/L**	Prep Date: **1/15/2018**	RunNo: **24442**
Client ID: **ZZZZZZ**	Batch ID: **11241**	TestNo: **SW6020A**		Analysis Date: **1/15/2018**	SeqNo: **327708**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.100						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **6020_WDISS**

Sample ID	**1801064-002CMS**	SampType:	**MS**	TestCode:	**6020_WDISS**	Units:	**µg/L**	Prep Date:	**1/15/2018**	RunNo:	**24442**
Client ID:	**ZZZZZZ**	Batch ID:	**11241**	TestNo:	**SW6020A**			Analysis Date:	**1/15/2018**	SeqNo:	**327709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	54.1	0.100	50.00	0	108	70	130				

Sample ID	**1801064-002CMSD**	SampType:	**MSD**	TestCode:	**6020_WDISS**	Units:	**µg/L**	Prep Date:	**1/15/2018**	RunNo:	**24442**
Client ID:	**ZZZZZZ**	Batch ID:	**11241**	TestNo:	**SW6020A**			Analysis Date:	**1/15/2018**	SeqNo:	**327710**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	54.9	0.100	50.00	0	110	70	130	54.05	1.56	20	

Sample ID	**CCV**	SampType:	**CCV**	TestCode:	**6020_WDISS**	Units:	**µg/L**	Prep Date:		RunNo:	**24442**
Client ID:	**CCV**	Batch ID:	**11241**	TestNo:	**SW6020A**			Analysis Date:	**1/15/2018**	SeqNo:	**327713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.2	0.100	50.00	0	98.4	90	110				

Sample ID	**CCV**	SampType:	**CCV**	TestCode:	**6020_WDISS**	Units:	**µg/L**	Prep Date:		RunNo:	**24442**
Client ID:	**CCV**	Batch ID:	**11241**	TestNo:	**SW6020A**			Analysis Date:	**1/15/2018**	SeqNo:	**327721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.5	0.100	50.00	0	99.0	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

Specialty Analytical

27-Feb-18

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **CCV MSVWS-3009** SampType: **CCV** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCV** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/12/2018** SeqNo: **328093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	37.6	1.00	40.00	0	93.9	80	120				
1,2-Dichloropropane	47.8	1.00	40.00	0	119	80	120				
Chloroform	46.2	1.00	40.00	0	116	80	120				
Ethylbenzene	39.4	1.00	40.00	0	98.4	80	120				
Toluene	38.8	1.00	40.00	0	97.0	80	120				
Vinyl chloride	34.0	1.00	40.00	0	84.9	80	120				

Sample ID **CCV MSVWS-3009** SampType: **CCV** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCV** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.1	1.00	40.00	0	108	80	120				
1,2-Dichloropropane	42.4	1.00	40.00	0	106	80	120				
Chloroform	34.1	1.00	40.00	0	85.2	80	120				
Ethylbenzene	44.7	1.00	40.00	0	112	80	120				
Toluene	44.5	1.00	40.00	0	111	80	120				
Vinyl chloride	45.2	1.00	40.00	0	113	80	120				

Sample ID **CCB** SampType: **CCB** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCB** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.00									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

Specialty Analytical

27-Feb-18

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **CCB** SampType: **CCB** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCB** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,1-Dichloropropene	ND	1.00									
1,2,3-Trichlorobenzene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	1.00									
1,2,4-Trimethylbenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
1,2-Dibromoethane	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dichloroethane	ND	1.00									
1,2-Dichloropropane	ND	1.00									
1,3,5-Trimethylbenzene	ND	1.00									
1,3-Dichlorobenzene	ND	1.00									
1,3-Dichloropropane	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
2,2-Dichloropropane	ND	1.00									
2-Butanone	ND	10.0									
2-Chlorotoluene	ND	1.00									
2-Hexanone	ND	10.0									
4-Chlorotoluene	ND	1.00									
4-Isopropyltoluene	ND	1.00									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **CCB** SampType: **CCB** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCB** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methyl-2-pentanone	ND	10.0									
Acetone	ND	20.0									
Acrylonitrile	ND	5.00									
Benzene	ND	0.300									
Bromobenzene	ND	1.00									
Bromochloromethane	ND	1.00									
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon disulfide	ND	2.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
Dibromochloromethane	ND	1.00									
Dibromomethane	ND	1.00									
Dichlorodifluoromethane	ND	1.00									
Ethylbenzene	ND	1.00									
Hexachlorobutadiene	ND	1.00									
Isopropylbenzene	ND	1.00									
m,p-Xylene	ND	2.00									
Methyl tert-butyl ether	ND	1.00									
Methylene chloride	ND	50.0									

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **CCB** SampType: **CCB** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **CCB** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	1.00									
n-Butylbenzene	ND	1.00									
n-Propylbenzene	ND	1.00									
o-Xylene	ND	1.00									
sec-Butylbenzene	ND	1.00									
Styrene	ND	1.00									
tert-Butylbenzene	ND	1.00									
Tetrachloroethene	ND	1.00									
Toluene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
Trichloroethene	ND	1.00									
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Surr: 1,2-Dichloroethane-d4	99.1		100.0		99.1	75.3	126				
Surr: 4-Bromofluorobenzene	97.2		100.0		97.2	78.1	120				
Surr: Dibromofluoromethane	104		100.0		104	74.2	122				
Surr: Toluene-d8	98.8		100.0		98.8	76.2	135				

Sample ID **LCS MSVWS-3010** SampType: **LCS** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **LCSW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	42.0	1.00	40.00	0	105	61.2	135				

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **LCS MSVWS-3010** SampType: **LCS** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **LCSW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.1	0.300	40.00	0	108	76.8	125				
Chlorobenzene	43.2	1.00	40.00	0	108	84.1	116				
Toluene	44.4	1.00	40.00	0	111	82	122				
Trichloroethene	44.7	1.00	40.00	0	112	68.5	124				

Sample ID **1801064-001BMS** SampType: **MS** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **ZZZZZZ** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.1	1.00	40.00	0	97.6	47.8	165				
Benzene	40.9	0.300	40.00	0	102	74.1	136				
Chlorobenzene	41.1	1.00	40.00	0	103	70.7	133				
Toluene	42.3	1.00	40.00	0	106	68.4	135				
Trichloroethene	42.8	1.00	40.00	0	107	50.8	164				

Sample ID **1801064-001BMSD** SampType: **MSD** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **ZZZZZZ** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/16/2018** SeqNo: **328123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.0	1.00	40.00	0	97.5	47.8	165	39.06	0.179	20	
Benzene	40.3	0.300	40.00	0	101	74.1	136	40.86	1.38	20	
Chlorobenzene	40.8	1.00	40.00	0	102	70.7	133	41.14	0.879	20	
Toluene	41.9	1.00	40.00	0	105	68.4	135	42.26	0.808	20	

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

Specialty Analytical

27-Feb-18

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID	**1801064-001BMSD**	SampType:	**MSD**	TestCode:	**8260_W**	Units:	**µg/L**	Prep Date:		RunNo:	**24466**
Client ID:	**ZZZZZZ**	Batch ID:	**R24466**	TestNo:	**SW8260B**			Analysis Date:	**1/16/2018**	SeqNo:	**328123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	41.7	1.00	40.00	0	104	50.8	164	42.78	2.56	20	

Sample ID	**MB**	SampType:	**MBLK**	TestCode:	**8260_W**	Units:	**µg/L**	Prep Date:		RunNo:	**24466**
Client ID:	**PBW**	Batch ID:	**R24466**	TestNo:	**SW8260B**			Analysis Date:	**1/12/2018**	SeqNo:	**328124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,1-Dichloropropene	ND	1.00									
1,2,3-Trichlorobenzene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	1.00									
1,2,4-Trimethylbenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
1,2-Dibromoethane	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dichloroethane	ND	1.00									
1,2-Dichloropropane	ND	1.00									
1,3,5-Trimethylbenzene	ND	1.00									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **MB** SampType: **MBLK** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **PBW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/12/2018** SeqNo: **328124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	1.00									
1,3-Dichloropropane	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
2,2-Dichloropropane	ND	1.00									
2-Butanone	ND	10.0									
2-Chlorotoluene	ND	1.00									
2-Hexanone	ND	10.0									
4-Chlorotoluene	ND	1.00									
4-Isopropyltoluene	ND	1.00									
4-Methyl-2-pentanone	ND	10.0									
Acetone	ND	20.0									
Acrylonitrile	ND	5.00									
Benzene	ND	0.300									
Bromobenzene	ND	1.00									
Bromochloromethane	ND	1.00									
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon disulfide	ND	2.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

Specialty Analytical

27-Feb-18

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **MB** SampType: **MBLK** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **PBW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/12/2018** SeqNo: **328124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	1.00									
Dibromomethane	ND	1.00									
Dichlorodifluoromethane	ND	1.00									
Ethylbenzene	ND	1.00									
Hexachlorobutadiene	ND	1.00									
Isopropylbenzene	ND	1.00									
m,p-Xylene	ND	2.00									
Methyl tert-butyl ether	ND	1.00									
Methylene chloride	ND	50.0									
Naphthalene	ND	1.00									
n-Butylbenzene	ND	1.00									
n-Propylbenzene	ND	1.00									
o-Xylene	ND	1.00									
sec-Butylbenzene	ND	1.00									
Styrene	ND	1.00									
tert-Butylbenzene	ND	1.00									
Tetrachloroethene	ND	1.00									
Toluene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
Trichloroethene	ND	1.00									
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Surr: 1,2-Dichloroethane-d4	105		100.0		105	75.3	126				
Surr: 4-Bromofluorobenzene	103		100.0		103	78.1	120				
Surr: Dibromofluoromethane	99.3		100.0		99.3	74.2	122				

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8260_W**

Sample ID **MB** SampType: **MBLK** TestCode: **8260_W** Units: **µg/L** Prep Date: RunNo: **24466**

Client ID: **PBW** Batch ID: **R24466** TestNo: **SW8260B** Analysis Date: **1/12/2018** SeqNo: **328124**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	100		100.0		100	76.2	135				

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270AFLL_W**

Sample ID **CCV MSSWS-1510**	SampType: **CCV**	TestCode: **8270AFLL_W**	Units: **µg/L**	Prep Date:	RunNo: **24509**
Client ID: **CCV**	Batch ID: **11258**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/18/2018**	SeqNo: **328529**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	20.1	0.500	20.00	0	100	80	120				

Sample ID **MB-11258**	SampType: **MBLK**	TestCode: **8270AFLL_W**	Units: **µg/L**	Prep Date: **1/16/2018**	RunNo: **24509**
Client ID: **PBW**	Batch ID: **11258**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/18/2018**	SeqNo: **328530**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	ND	0.500									
Surr: 2,4,6-Tribromophenol	95.6		100.0		95.6	29.1	124				
Surr: 2-Fluorophenol	92.8		100.0		92.8	13.4	127.1				
Surr: Phenol-d6	98.8		100.0		98.8	10.6	128.5				

Sample ID **LCS-11258**	SampType: **LCS**	TestCode: **8270AFLL_W**	Units: **µg/L**	Prep Date: **1/16/2018**	RunNo: **24509**
Client ID: **LCSW**	Batch ID: **11258**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/18/2018**	SeqNo: **328535**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	24.5	0.500	40.00	0	61.4	30	130				

Sample ID **LCSD-11258**	SampType: **LCSD**	TestCode: **8270AFLL_W**	Units: **µg/L**	Prep Date: **1/16/2018**	RunNo: **24509**
Client ID: **LCSS02**	Batch ID: **11258**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/18/2018**	SeqNo: **328536**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pentachlorophenol	28.3	0.500	40.00	0	70.8	30	130	24.54	14.3	30	

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270AFLL_W**

Sample ID	**LCSD-11258**	SampType: **LCSD**	TestCode: **8270AFLL_W**	Units: **µg/L**		Prep Date: **1/16/2018**			RunNo: **24509**			
Client ID:	**LCSS02**	Batch ID: **11258**	TestNo: **SW8270D**	**SW 3510C**		Analysis Date: **1/18/2018**			SeqNo: **328536**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270LL_W**

Sample ID **CCV MSSWS-1510** SampType: **CCV** TestCode: **8270LL_W** Units: **µg/L** Prep Date: RunNo: **24507**

Client ID: **CCV** Batch ID: **11257** TestNo: **SW8270D** **SW 3510C** Analysis Date: **1/18/2018** SeqNo: **328514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	17.4	0.500	20.00	0	86.9	80	120				
Acenaphthene	19.3	0.500	20.00	0	96.7	80	120				
Benzo(a)pyrene	18.2	0.500	20.00	0	90.9	80	120				
Fluoranthene	20.3	0.500	20.00	0	102	80	120				
Pentachlorophenol	20.1	0.500	20.00	0	100	80	120				

Sample ID **MB-11257** SampType: **MBLK** TestCode: **8270LL_W** Units: **µg/L** Prep Date: **1/16/2018** RunNo: **24507**

Client ID: **PBW** Batch ID: **11257** TestNo: **SW8270D** **SW 3510C** Analysis Date: **1/18/2018** SeqNo: **328515**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.500									
2,3,5,6-Tetrachlorophenol	ND	0.500									
2,4,5-Trichlorophenol	ND	0.500									
2,4,6-Trichlorophenol	ND	0.500									
2-Methylnaphthalene	ND	0.500									
Acenaphthene	ND	0.500									
Acenaphthylene	ND	0.500									
Anthracene	ND	0.500									
Benz(a)anthracene	ND	0.500									
Benzo(a)pyrene	ND	0.500									
Benzo(b)fluoranthene	ND	0.500									
Benzo(g,h,i)perylene	ND	0.500									
Benzo(k)fluoranthene	ND	0.500									
Bis(2-ethylhexyl)phthalate	ND	0.500									

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270LL_W**

Sample ID **MB-11257**	SampType: **MBLK**	TestCode: **8270LL_W**	Units: **µg/L**	Prep Date: **1/16/2018**	RunNo: **24507**
Client ID: **PBW**	Batch ID: **11257**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/18/2018**	SeqNo: **328515**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbazole	ND	0.500									
Chrysene	ND	0.500									
Dibenz(a,h)anthracene	ND	0.500									
Dibenzofuran	ND	0.500									
Fluoranthene	ND	0.500									
Fluorene	ND	0.500									
Indeno(1,2,3-cd)pyrene	ND	0.500									
Naphthalene	ND	0.500									
Pentachlorophenol	ND	0.500									
Phenanthrene	ND	0.500									
Pyrene	ND	0.500									
Surr: 2,4,6-Tribromophenol	95.6		100.0		95.6	33.1	129.7				
Surr: 2-Fluorobiphenyl	100		100.0		100	33.1	126.2				
Surr: 2-Fluorophenol	92.8		100.0		92.8	13.4	127.1				
Surr: 4-Terphenyl-d14	95.9		100.0		95.9	41	122				
Surr: Nitrobenzene-d5	86.0		100.0		86.0	28.9	129.9				
Surr: Phenol-d6	98.8		100.0		98.8	10.6	128.5				

Sample ID **LCS-11257**	SampType: **LCS**	TestCode: **8270LL_W**	Units: **µg/L**	Prep Date: **1/16/2018**	RunNo: **24507**
Client ID: **LCSW**	Batch ID: **11257**	TestNo: **SW8270D**	**SW 3510C**	Analysis Date: **1/18/2018**	SeqNo: **328519**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	25.9	0.500	40.00	0	64.7	42.4	124				
Pentachlorophenol	24.5	0.500	40.00	0	61.4	43.3	113				

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

Specialty Analytical

27-Feb-18

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270LL_W**

Sample ID	**LCS-11257**	SampType:	**LCS**	TestCode:	**8270LL_W**	Units:	**µg/L**	Prep Date:	**1/16/2018**	RunNo:	**24507**
Client ID:	**LCSW**	Batch ID:	**11257**	TestNo:	**SW8270D**	**SW 3510C**		Analysis Date:	**1/18/2018**	SeqNo:	**328519**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	30.0	0.500	40.00	0	75.1	35	119				

Sample ID	**LCSD-11257**	SampType:	**LCSD**	TestCode:	**8270LL_W**	Units:	**µg/L**	Prep Date:	**1/16/2018**	RunNo:	**24507**
Client ID:	**LCSS02**	Batch ID:	**11257**	TestNo:	**SW8270D**	**SW 3510C**		Analysis Date:	**1/18/2018**	SeqNo:	**328520**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	26.3	0.500	40.00	0	65.7	42.4	124	25.86	1.65	20	
Pentachlorophenol	28.3	0.500	40.00	0	70.8	43.3	113	24.54	14.3	20	
Pyrene	30.6	0.500	40.00	0	76.6	35	119	30.04	1.98	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted reco

QC SUMMARY REPORT

WO#: **1801091**

27-Feb-18

Specialty Analytical

Client: Maul Foster & Alongi

Project: POR Groundwater / 9003-01-28 **TestCode:** **8270POR_W**

Sample ID **20 PPM ICAL** SampType: **CCV** TestCode: **8270POR_W** Units: **µg/L** Prep Date: RunNo: **24890**

Client ID: **CCV** Batch ID: **R24890** TestNo: **SW8270D** Analysis Date: **2/20/2018** SeqNo: **333208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,3,4-Trichlorophenol	21.3	1.00	20.00	0	107	80	120				
2,3,5-Trichlorophenol	20.8	1.00	20.00	0	104	80	120				
2,3,6-Trichlorophenol	20.8	1.00	20.00	0	104	80	120				
3,4,5-Trichlorophenol	19.7	1.00	20.00	0	98.7	80	120				

Sample ID **MB** SampType: **MBLK** TestCode: **8270POR_W** Units: **µg/L** Prep Date: RunNo: **24890**

Client ID: **PBW** Batch ID: **R24890** TestNo: **SW8270D** Analysis Date: **2/20/2018** SeqNo: **333209**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,3,4,6-Tetrachlorophenol	ND	1.00									
2,3,4-Trichlorophenol	ND	1.00									
2,3,5-Trichlorophenol	ND	1.00									
2,3,6-Trichlorophenol	ND	1.00									
3,4,5-Trichlorophenol	ND	1.00									
Surr: 2,4,6-Tribromophenol	69.4		100.0		69.4	33.1	99.7				
Surr: 2-Fluorobiphenyl	68.1		100.0		68.1	33.1	96.2				
Surr: 2-Fluorophenol	36.0		100.0		36.0	13.4	57.1				
Surr: 4-Terphenyl-d14	66.2		100.0		66.2	41	122				
Surr: Nitrobenzene-d5	64.8		100.0		64.8	28.9	99.9				
Surr: Phenol-d6	27.4		100.0		27.4	10.6	38.5				

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted reco

KEY TO FLAGS

Rev. May 12, 2010

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
A4	The product appears to be aged or degraded diesel.
B	The blank exhibited a positive result great than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
G	Result may be biased high due to biogenic interferences. Clean up is recommended.
H	Sample was analyzed outside recommended holding time.
HT	At clients request, samples was analyzed outside of recommended holding time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits; post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

CHAIN OF CUSTODY RECORD

Page 1 of 1

Specialty Analytical
11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager: ANDY VIDOURek
Company: MAUL FOSTER & ALONGI
Address: 400 EAST MILLPLAIN BLVD. SUITE 400
VANC. WA 98660
Phone: 360-694-269 Fax: 360-906-4958
Project No. 9003-01-28 Project Name: POR CROWN WATER
Project Site Location OR ____ WA X Other ____
Invoice To: PORT OF RIDGEFIELD P.O. No. ____

Collected By:
Signature: Pat Kirby
Printed: PAT KIRBY

Signature: ____
Printed: KEVIN OLDHAM

Turn Around Time
☒ Normal 5-7 Business Days
☐ Rush ____
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. SA 1801091
Shipped Via: ____
Air Bill No. ____
Temperature On Receipt 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: PORT SVOC LIST (8270D)	PENTACHLORETHENE (8270D)	VOCs (8260B)	TETRACHLORETHENE (8260B)	DISSOLVED (6020) ARSENIC						Comments	Lab I.D.
1-10-18	10:25	MW58D011018	WATER	5		X	X		X							
	10:57	MW56011018		4	X		X									
	14:09	RMW2D011018		1		X										
	14:37	RMW2S011018		1		X										
1-11-18	10:30	USDFW1011118		5		X	X		X							
		TRIP BLANKS		3												

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time
PAT KIRBY	1-12-18	951	Al SA	Al SA	1-12-18	1434
Company: PORT OF RIDGEFIELD			Company:	Company:		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By: K. [illegible] Date 1-12-18 Time 1435

ATTACHMENT B

DATA QUALITY ASSURANCE AND QUALITY CONTROL REVIEW MEMORANDUM

DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 9003.01.28 | MAY 10, 2018 | PORT OF RIDGEFIELD

Maul Foster & Alongi, Inc. (MFA) conducted an independent review of the quality of analytical results for groundwater samples collected on the former Pacific Wood Treating Co. (PWT) Site in Ridgefield, Washington. The samples were collected by the Port of Ridgefield (Port) in January 2018.

Specialty Analytical, Inc. (SA) performed the analyses. SA report numbers 1801064_rev3 and 1801091_rev5 were reviewed. Analyses performed and samples analyzed are listed below.

Analysis	Reference
Dissolved Metals	USEPA 6020A
Semivolatile Organic Compounds	USEPA 8270D
VOCs	USEPA 8260B

VOC = volatile organic compound.
USEPA = U.S. Environmental Protection Agency.

Samples Analyzed		
Report 1801064_rev3		**Report 1801091_rev5**
MW61010518	MW62010818	MW58D011018
MW63010518	MW57D010918	MW56011018
MW47D010818	MW57DDUP010918	RMW2D011018
MWS29D010818	MW57S010918	RMW2S011018
MW46D010818	MW55010918	USDFW101118
MW46S010818	MW55D010918	TRIP BLANKS
MW45D010818	MW55S010918	-
MW45DUP010818	TRIP BLANKS	-

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2017a,b) and appropriate laboratory and method-specific guidelines (SA, 2016; USEPA, 1986).

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch. All laboratory method blanks were non-detect.

Trip Blanks

Trip blank samples were submitted on hold to SA with sample delivery groups 1801064_rev3 and 1801091_rev5. At least one sample in each delivery group was non-detect for all USEPA Method 8260B VOCs; thus, no action was required.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. All remaining surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. All MS/MSD results were within acceptance limits for percent recovery and relative percent differences (RPDs).

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. All duplicate samples were extracted and analyzed at the required frequency. All laboratory duplicate RPDs were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency. All LCS/LCSD results were within acceptance limits for percent recovery and RPD.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. Two field duplicates were submitted for analysis (MW45D010818/MW45DDUP010818 and MW57D010918/ MW57DDUP010918). MFA uses acceptance criteria of 100 percent RPD for results that are less than five times the method reporting limit (MRL), or 50 percent RPD for results that are greater than five times the MRL. Non-detect data are not used in the evaluation of field duplicate results. Because of RPD exceedances, the reviewer qualified the following results with "J" as estimated.

Report	Sample	Component	RPD (%)	Original Result (ug/L)	Qualified Result (ug/L)
1801064_rev3	MW57D010918	2,4,5-Trichlorophenol	58.9	1.69	1.69 J
	MW57DDUP010918			3.10	3.10 J
	MW57D010918	Carbazole	51.94	2.38	2.38 J
	MW57DDUP010918			4.05	4.05 J
	MW57D010918	Dibenzofuran	62.4	1.28	1.28 J
	MW57DDUP010918			2.44	2.44 J

NOTES:
J = Result is estimated.
ug/L = micrograms per liter.

All remaining analytes were within the acceptance criteria.

INITIAL AND CONTINUING CALIBRATION VERIFICATION RESULTS

Initial calibration verification (ICV) and continuing calibration verification (CCV) results are used to demonstrate instrument precision and accuracy at the start of and through the end of the sample batch. All ICVs and CCVs were within acceptance limits for percent recovery.

REPORTING LIMITS

SA used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies.

In report 1801064_rev3, the chain of custody requested "pentachloroethene" by USEPA Method 8270D. The laboratory reported pentachlorophenol by USEPA Method 8270D. The reviewer confirmed that the laboratory-reported analyte was correct for the project. No additional action was required.

In reports 1801064_rev3 and 1801091_rev5, 2,3,4,6-tetrachlorophenol, 2,3,4-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, and 3,4,5-trichlorophenol were not included in any of the initial USEPA Method 8270D analyses. The sample extracts were reanalyzed within

hold time with appropriate calibration verification standards and method blanks; the reviewer confirmed that the correct selected analytes had been reported for the LCS/LCSD. Data were complete; thus, no results were qualified.

No additional issues were found.

REFERENCES

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