



Analytical Report for Northwest Pipe

ASL Report #: R1204

Project ID: 682722.GW.05

Attn: Gretchen Gee

cc:

Beckett, Jamie/RDD

Authorized and Released By:

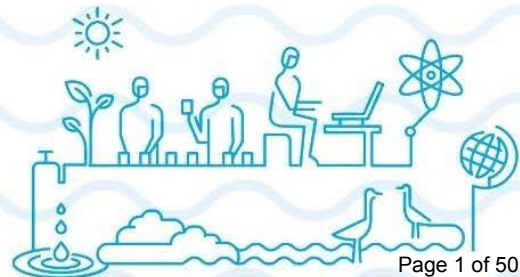
Laboratory Project Manager
Kathy McKinley
(541) 758-0235 ext.23144
February 16, 2017

All analyses performed by CH2M HILL are clearly indicated. Any subcontracted analyses are included as appended reports as received from the subcontracted laboratory. The results included in this report only relate to the samples listed on the following Sample Cross-Reference page. This report shall not be reproduced except in full, without the written approval of the laboratory.

Any unusual difficulties encountered during the analysis of your samples are discussed in the attached case narratives.



Accredited in accordance with NELAP:
Oregon (100022)
Louisiana (05031)



ASL Report #: R1204

Sample Receipt Comments

We certify that the test results meet all NELAP requirements.

Sample Cross-Reference

ASL Sample ID	Client Sample ID	Date/Time Collected	Date Received
R120401	T4S1MW-09-020117-0	02/01/17 10:00	02/02/17
R120402	T4S1MW-03S-020117-0	02/01/17 11:40	02/02/17
R120403	TRIPBLANK-020117-01	02/01/17 08:00	02/02/17
R120404	MW-02-020117-0	02/01/17 13:20	02/02/17
R120405	MW-04-020117-0	02/01/17 14:50	02/02/17
R120406	T4S1MW-23-020117-0	02/01/17 16:40	02/02/17
R120407	T4S1MW-22-020117-0	02/01/17 17:30	02/02/17

CASE NARRATIVE GC/MS VOLATILES ANALYSIS

Lab Name: CH2M ASL

ASL SDG#: R1204

Project: Northwest Pipe

Project #: 682722.GW.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

All laboratory quality control samples were within established control limits, with any exceptions noted below, or in the associated QC summary forms.

Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. For diluted samples, the reporting limits are adjusted for the dilution required.

Calculations are performed before rounding to minimize errors in calculated values.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the section below, or in the sample receipt documentation.

Method(s):

SW8260C-SIM: SW5030

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-09-020117-0				Lab Sample ID: R120401			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 10:00				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	8.00	20.0	11.3	J	ng/L	SW8260C-SI	02/08/17
Tetrachloroethene (PCE)	127-18-4	5.00	20.0	17.7	J	ng/L	SW8260C-SI	02/08/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	112	70-130	
1,2-Dichloroethane-d4	113	70-130	
Toluene-d8	96	70-130	
4-Bromofluorobenzene	104	70-130	

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-03S-020117-0				Lab Sample ID: R120402			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 11:40				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	8.00	20.0	8.00	U	ng/L	SW8260C-SI	02/08/17
Tetrachloroethene (PCE)	127-18-4	5.00	20.0	230		ng/L	SW8260C-SI	02/08/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	116	70-130	
1,2-Dichloroethane-d4	115	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	107	70-130	

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

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CH2M ASL

Client Information				Lab Information			
Client Sample ID: TRIPBLANK-020117-01				Lab Sample ID: R120403			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 08:00				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	8.00	20.0	8.00	U	ng/L	SW8260C-SI	02/08/17
Tetrachloroethene (PCE)	127-18-4	5.00	20.0	5.00	U	ng/L	SW8260C-SI	02/08/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	112	70-130	
1,2-Dichloroethane-d4	113	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	105	70-130	

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
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CH2M ASL

Client Information				Lab Information			
Client Sample ID: MW-02-020117-0				Lab Sample ID: R120404			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 13:20				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	8.00	20.0	37.0		ng/L	SW8260C-SI	02/08/17
Tetrachloroethene (PCE)	127-18-4	5.00	20.0	169		ng/L	SW8260C-SI	02/08/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	112	70-130	
1,2-Dichloroethane-d4	114	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	104	70-130	

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative
 B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-23-020117-0				Lab Sample ID: R120406			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 16:40				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	8.00	20.0	18.8	J	ng/L	SW8260C-SI	02/08/17
Tetrachloroethene (PCE)	127-18-4	5.00	20.0	937		ng/L	SW8260C-SI	02/08/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	118	70-130	
1,2-Dichloroethane-d4	118	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	107	70-130	

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-22-020117-0				Lab Sample ID: R120407			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 17:30				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	8.00	20.0	106		ng/L	SW8260C-SI	02/08/17
Tetrachloroethene (PCE)	127-18-4	5.00	20.0	1280		ng/L	SW8260C-SI	02/08/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	115	70-130	
1,2-Dichloroethane-d4	115	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	108	70-130	

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CH2M ASL

Client Information				Lab Information			
Client Sample ID: WB1-0208				Lab Sample ID: WB1-0208			
Project Name: Northwest Pipe				Date Received: N/A			
Sample Date: N/A				Dilution Factor: 1			
Sample Time: N/A				Report Revision No.: 0			
Type: QC							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	8.00	20.0	8.00	U	ng/L	SW8260C-SI	02/08/17
Tetrachloroethene (PCE)	127-18-4	5.00	20.0	5.00	U	ng/L	SW8260C-SI	02/08/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	110	70-130	
1,2-Dichloroethane-d4	110	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	108	70-130	

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative
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CH2M ASL

Client Information		Lab Information	
Project Name: Northwest Pipe		LCS ID: BS1W0208	
Type: QC		Report Revision No.: 0	
Matrix: Water		Dilution Factor: 1	

Analyte	CAS#	Spike Amount	Sample Result	Units	%Recovery	Analysis Method	Date Analyzed
GC/MS Volatiles							
Vinyl Chloride	75-01-4	500	535	ng/L	107	SW8260C-SIM	02/08/17
Tetrachloroethene (PCE)	127-18-4	500	514	ng/L	103	SW8260C-SIM	02/08/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	109	70-130	
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	109	70-130	

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

CASE NARRATIVE GC/MS VOLATILES ANALYSIS

Lab Name: CH2M ASL

ASL SDG#: R1204

Project: Northwest Pipe

Project #: 682722.GW.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

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Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. For diluted samples, the reporting limits are adjusted for the dilution required.

Calculations are performed before rounding to minimize errors in calculated values.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the section below, or in the sample receipt documentation.

Method(s):
SW8260C: SW5030

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-09-020117-0				Lab Sample ID: R120401			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 10:00				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	105	70-130	
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	89	70-130	

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-03S-020117-0				Lab Sample ID: R120402			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 11:40				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	109	70-130	
1,2-Dichloroethane-d4	115	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	90	70-130	

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J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: TRIPBLANK-020117-01				Lab Sample ID: R120403			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 08:00				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	108	70-130	
1,2-Dichloroethane-d4	111	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	91	70-130	

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*=See case narrative

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CH2M ASL

Client Information				Lab Information			
Client Sample ID: MW-02-020117-0				Lab Sample ID: R120404			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 13:20				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	0.20	J	ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	112	70-130	
1,2-Dichloroethane-d4	116	70-130	
Toluene-d8	105	70-130	
4-Bromofluorobenzene	91	70-130	

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J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-23-020117-0				Lab Sample ID: R120406			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 16:40				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	0.65		ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	0.41	J	ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	109	70-130	
1,2-Dichloroethane-d4	117	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	89	70-130	

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J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-22-020117-0				Lab Sample ID: R120407			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 17:30				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	5.36		ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	4.29		ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	111	70-130	
1,2-Dichloroethane-d4	117	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	88	70-130	

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 E=Estimated value above calibration range
 *=See case narrative
 B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: WB1-0203				Lab Sample ID: WB1-0203			
Project Name: Northwest Pipe				Date Received: N/A			
Sample Date: N/A				Dilution Factor: 1			
Sample Time: N/A				Report Revision No.: 0			
Type: QC							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	105	70-130	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	92	70-130	

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information		Lab Information	
Project Name: Northwest Pipe		LCS ID: BS1W0203	
Type: QC		Report Revision No.: 0	
Matrix: Water		Dilution Factor: 1	

Analyte	CAS#	Spike Amount	Sample Result	Units	%Recovery	Analysis Method	Date Analyzed
GC/MS Volatiles							
cis-1,2-Dichloroethene	156-59-2	20.0	17.8	ug/L	89	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	20.0	20.1	ug/L	100	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	105	70-130	
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	96	70-130	

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative

CASE NARRATIVE GC/MS VOLATILES ANALYSIS

Lab Name: CH2M ASL

ASL SDG#: R1204

Project: Northwest Pipe

Project #: 682722.GW.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

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Method(s):
SW8260C: SW5030

CH2M ASL

Client Information				Lab Information			
Client Sample ID: MW-04-020117-0				Lab Sample ID: R120405			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 1			
Sample Time: 14:50				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	0.15	0.50	9.73		ug/L	SW8260C	02/03/17
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	123	E	ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	20.3		ug/L	SW8260C	02/03/17
Tetrachloroethene (PCE)	127-18-4	0.15	0.50	12.4		ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	113	70-130	
1,2-Dichloroethane-d4	116	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	90	70-130	

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative
 B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: MW-04-020117-0DL				Lab Sample ID: R120405DL			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Dilution Factor: 10			
Sample Time: 14:50				Report Revision No.: 0			
Type: Grab							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	1.50	5.00	8.85		ug/L	SW8260C	02/06/17
cis-1,2-Dichloroethene	156-59-2	1.50	5.00	119		ug/L	SW8260C	02/06/17
Trichloroethene (TCE)	79-01-6	1.50	5.00	21.6		ug/L	SW8260C	02/06/17
Tetrachloroethene (PCE)	127-18-4	1.50	5.00	14.3		ug/L	SW8260C	02/06/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	107	70-130	
1,2-Dichloroethane-d4	112	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	90	70-130	

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: WB1-0203				Lab Sample ID: WB1-0203			
Project Name: Northwest Pipe				Date Received: N/A			
Sample Date: N/A				Dilution Factor: 1			
Sample Time: N/A				Report Revision No.: 0			
Type: QC							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17
Tetrachloroethene (PCE)	127-18-4	0.15	0.50	0.15	U	ug/L	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	105	70-130	
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	92	70-130	

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: WB1-0206				Lab Sample ID: WB1-0206			
Project Name: Northwest Pipe				Date Received: N/A			
Sample Date: N/A				Dilution Factor: 1			
Sample Time: N/A				Report Revision No.: 0			
Type: QC							
Matrix: Water							

Analyte	CAS#	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC/MS Volatiles								
Vinyl Chloride	75-01-4	0.15	0.50	0.15	U	ug/L	SW8260C	02/06/17
cis-1,2-Dichloroethene	156-59-2	0.15	0.50	0.15	U	ug/L	SW8260C	02/06/17
Trichloroethene (TCE)	79-01-6	0.15	0.50	0.15	U	ug/L	SW8260C	02/06/17
Tetrachloroethene (PCE)	127-18-4	0.15	0.50	0.15	U	ug/L	SW8260C	02/06/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	106	70-130	
1,2-Dichloroethane-d4	107	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	91	70-130	

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative
 B=Analyte detected in blank

CH2M ASL

Client Information		Lab Information	
Project Name: Northwest Pipe		LCS ID: BS1W0203	
Type: QC		Report Revision No.: 0	
Matrix: Water		Dilution Factor: 1	

Analyte	CAS#	Spike Amount	Sample Result	Units	%Recovery	Analysis Method	Date Analyzed
GC/MS Volatiles							
Vinyl Chloride	75-01-4	20.0	17.2	ug/L	86	SW8260C	02/03/17
cis-1,2-Dichloroethene	156-59-2	20.0	17.8	ug/L	89	SW8260C	02/03/17
Trichloroethene (TCE)	79-01-6	20.0	20.1	ug/L	100	SW8260C	02/03/17
Tetrachloroethene (PCE)	127-18-4	20.0	19.3	ug/L	97	SW8260C	02/03/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	105	70-130	
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	96	70-130	

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative

CH2M ASL

Client Information		Lab Information	
Project Name: Northwest Pipe		LCS ID: BS1W0206	
Type: QC		Report Revision No.: 0	
Matrix: Water		Dilution Factor: 1	

Analyte	CAS#	Spike Amount	Sample Result	Units	%Recovery	Analysis Method	Date Analyzed
GC/MS Volatiles							
Vinyl Chloride	75-01-4	20.0	17.3	ug/L	86	SW8260C	02/06/17
cis-1,2-Dichloroethene	156-59-2	20.0	17.8	ug/L	89	SW8260C	02/06/17
Trichloroethene (TCE)	79-01-6	20.0	19.2	ug/L	96	SW8260C	02/06/17
Tetrachloroethene (PCE)	127-18-4	20.0	19.3	ug/L	97	SW8260C	02/06/17

Surrogate	% Recovery	Control Limits	Qualifier
Dibromofluoromethane	104	70-130	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	93	70-130	

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative

CASE NARRATIVE HEADSPACE ANALYSIS

Lab Name: CH2M ASL

ASL SDG#: R1204

Project: Northwest Pipe

Project #: 682722.GW.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

All laboratory quality control samples were within established control limits, with any exceptions noted below, or in the associated QC summary forms.

Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. For diluted samples, the reporting limits are adjusted for the dilution required.

Calculations are performed before rounding to minimize errors in calculated values.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the section below, or in the sample receipt documentation.

Method(s):
RSK-175

CH2M ASL

Client Information					Lab Information				
Client Sample ID: T4S1MW-09-020117-0					Lab Sample ID: R120401				
Project Name: Northwest Pipe					Date Received: 02/02/17				
Sample Date: 02/01/17					Report Revision No: 0				
Sample Time: 10:00									
Type: Grab									
Matrix: Water									

Analyte	CAS#	Dilution Factor	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC Volatiles									
Methane	74-82-8	1	3.30	26.5	1220		ug/L	RSK-175	02/03/17
Carbon dioxide	124-38-9	1	32.9	199	29000		ug/L	RSK-175	02/03/17

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information	Lab Information
Client Sample ID: T4S1MW-03S-020117-0	Lab Sample ID: R120402
Project Name: Northwest Pipe	Date Received: 02/02/17
Sample Date: 02/01/17	Report Revision No: 0
Sample Time: 11:40	
Type: Grab	
Matrix: Water	

Analyte	CAS#	Dilution Factor	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC Volatiles									
Methane	74-82-8	1	3.19	25.6	10.1	J	ug/L	RSK-175	02/03/17
Carbon dioxide	124-38-9	1	32.6	197	13900		ug/L	RSK-175	02/03/17

U=Not detected and reported as less than detection limit
J=Estimated value below reporting limit
E=Estimated value above calibration range
*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: MW-02-020117-0				Lab Sample ID: R120404			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Report Revision No: 0			
Sample Time: 13:20							
Type: Grab							
Matrix: Water							

Analyte	CAS#	Dilution Factor	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC Volatiles									
Methane	74-82-8	1	3.67	29.4	3300		ug/L	RSK-175	02/03/17
Carbon dioxide	124-38-9	1	33.7	204	17600		ug/L	RSK-175	02/03/17

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information					Lab Information				
Client Sample ID: MW-04-020117-0					Lab Sample ID: R120405				
Project Name: Northwest Pipe					Date Received: 02/02/17				
Sample Date: 02/01/17					Report Revision No: 0				
Sample Time: 14:50									
Type: Grab									
Matrix: Water									

Analyte	CAS#	Dilution Factor	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC Volatiles									
Methane	74-82-8	1	3.91	31.4	1860		ug/L	RSK-175	02/03/17
Carbon dioxide	124-38-9	1	34.2	207	98400		ug/L	RSK-175	02/03/17

U=Not detected and reported as less than detection limit
J=Estimated value below reporting limit
E=Estimated value above calibration range
*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Client Sample ID: T4S1MW-23-020117-0				Lab Sample ID: R120406			
Project Name: Northwest Pipe				Date Received: 02/02/17			
Sample Date: 02/01/17				Report Revision No: 0			
Sample Time: 16:40							
Type: Grab							
Matrix: Water							

Analyte	CAS#	Dilution Factor	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC Volatiles									
Methane	74-82-8	1	3.97	31.8	37.9		ug/L	RSK-175	02/03/17
Carbon dioxide	124-38-9	1	34.3	207	26900		ug/L	RSK-175	02/03/17

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information	Lab Information
Client Sample ID: T4S1MW-22-020117-0	Lab Sample ID: R120407
Project Name: Northwest Pipe	Date Received: 02/02/17
Sample Date: 02/01/17	Report Revision No: 0
Sample Time: 17:30	
Type: Grab	
Matrix: Water	

Analyte	CAS#	Dilution Factor	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC Volatiles									
Methane	74-82-8	1	3.72	29.8	33.4		ug/L	RSK-175	02/03/17
Carbon dioxide	124-38-9	1	33.8	204	84500		ug/L	RSK-175	02/03/17

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information	Lab Information
Project Name: Northwest Pipe Sample Date: N/A Sample Time: N/A Type: QC Matrix: Water	Method Blank ID: XB1-0203 Date Received: N/A Report Revision No: 0

Analyte	CAS#	Dilution Factor	DL	RL	Sample Result	Qualifier	Units	Analysis Method	Date Analyzed
GC Volatiles									
Methane	74-82-8	1	14.3	114	14.3	U	ug/L	RSK-175	02/03/17
Carbon dioxide	124-38-9	1	56.6	342	56.6	U	ug/L	RSK-175	02/03/17

U=Not detected and reported as less than detection limit

J=Estimated value below reporting limit

E=Estimated value above calibration range

*=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information		Lab Information	
Project Name: Northwest Pipe Type: QC Matrix: Water		LCS ID: BS1X0203 Report Revision No.: 0 Dilution Factor: 1	

Analyte	CAS#	Spike Amount	Sample Result	Units	%Recovery	Analysis Method	Date Analyzed
GC Volatiles							
Methane	74-82-8	593	614	ug/L	103	RSK-175	02/03/17
Carbon dioxide	124-38-9	3180	3300	ug/L	104	RSK-175	02/03/17

U=Not detected and reported as less than detection limit
J=Estimated value below reporting limit
E=Estimated value above calibration range
*=See case narrative

CASE NARRATIVE METALS ANALYSIS

Lab Name: CH2M ASL

ASL SDG#: R1204

Project: Northwest Pipe

Project #: 682722.GW.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

All laboratory quality control samples were within established control limits, with any exceptions noted below, or in the associated QC summary forms.

Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. For diluted samples, the reporting limits are adjusted for the dilution required.

Calculations are performed before rounding to minimize errors in calculated values.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the section below, or in the sample receipt documentation.

Method(s):

E200.7: FLDFLT

CH2M ASL

Client Information				Lab Information			
Project Name: Northwest Pipe				Lab Batch ID: R1204			
Date Received: 02/02/17				Report Revision No.: 0			
Type: See C.O.C.							
Matrix: Water							

Client Sample ID	Lab Sample ID	Dilution Factor	DL	RL	Result	Qual	Units	Date Analyzed
Iron: E200.7								
<i>Dissolved Metals</i>								
T4S1MW-09-020117-0	R120401F	1	10.0	100	4410		ug/L	02/14/17
T4S1MW-03S-020117-0	R120402F	1	10.0	100	10.0	U	ug/L	02/14/17
MW-02-020117-0	R120404F	1	10.0	100	5390		ug/L	02/14/17
MW-04-020117-0	R120405F	1	10.0	100	9750		ug/L	02/14/17
T4S1MW-23-020117-0	R120406F	1	10.0	100	185		ug/L	02/14/17
T4S1MW-22-020117-0	R120407F	1	10.0	100	10.0	U	ug/L	02/14/17
<i>Total Metals</i>								
WB10-0214	WB10-0214	1	10.0	100	10.0	U	ug/L	02/14/17

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information	Lab Information
Project Name: Northwest Pipe Type: QC Matrix: Water	Blank Spike ID: BS10W0214 Report Revision No: 0 Dilution Factor: 1

Analyte	Spike Amount	Result	Units	%Recovery	Analysis Method	Prep Method	Date Analyzed
Metals							
Iron	50000	50300	ug/L	101	E200.7	E200.2	02/14/17

U=Not detected and report as less than detection limit
J=Estimated value below reporting limit
E=Estimated value above calibration range
*=See case narrative

CASE NARRATIVE GENERAL CHEMISTRY ANALYSIS

Lab Name: CH2M ASL

ASL SDG#: R1204

Project: Northwest Pipe

Project #: 682722.GW.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

All laboratory quality control samples were within established control limits, with any exceptions noted below, or in the associated QC summary forms.

Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. For diluted samples, the reporting limits are adjusted for the dilution required.

Calculations are performed before rounding to minimize errors in calculated values.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the section below, or in the sample receipt documentation.

Method(s):
E300.0A

CH2M ASL

Client Information		Lab Information	
Project Name: Northwest Pipe		Lab Batch ID: R1204	
Date Received: 02/02/17		Analysis Method: E300.0A	
Type: See C.O.C.		Units: mg/L	
Matrix: Water		Report Revision No.: 0	

Client Sample ID	Lab Sample ID	Dilution Factor	DL	Chloride RL	Result	Qualifier	Date Analyzed
General Chemistry							
T4S1MW-09-020117-0	R120401	1	0.020	0.20	1.70		02/02/17
T4S1MW-03S-020117-0	R120402	1	0.020	0.20	0.86		02/02/17
MW-02-020117-0	R120404	1	0.020	0.20	2.50		02/02/17
MW-04-020117-0	R120405	1	0.020	0.20	4.90		02/02/17
T4S1MW-23-020117-0	R120406	1	0.020	0.20	4.24		02/02/17
T4S1MW-22-020117-0	R120407	1	0.020	0.20	4.56		02/02/17
WB1-0202	WB1-0202	1	0.020	0.20	0.020	U	02/02/17

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information			Lab Information		
Project Name: Northwest Pipe			Lab Batch ID: R1204		
Date Received: 02/02/17			Analysis Method: E300.0A		
Type: See C.O.C.			Units: mg/L		
Matrix: Water			Report Revision No.: 0		

Client Sample ID	Lab Sample ID	Dilution Factor	DL	RL	Sulfate Result	Qualifier	Date Analyzed
General Chemistry							
T4S1MW-09-020117-0	R120401	1	0.023	0.20	5.66		02/02/17
T4S1MW-03S-020117-0	R120402	1	0.023	0.20	4.54		02/02/17
MW-02-020117-0	R120404	1	0.023	0.20	8.09		02/02/17
MW-04-020117-0	R120405	1	0.023	0.20	4.42		02/02/17
T4S1MW-23-020117-0	R120406	1	0.023	0.20	8.74		02/02/17
T4S1MW-22-020117-0	R120407	1	0.023	0.20	8.90		02/02/17
WB1-0202	WB1-0202	1	0.023	0.20	0.023	U	02/02/17

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Project Name: Northwest Pipe Type: QC Matrix: Water				Lab Batch ID: R1204 Report Revision No.: 0			

LCS ID	Analyte	Spike Amount	Sample Result	Units	% Recovery	Analysis Method	Date Analyzed
General Chemistry							
BS1W0202	Chloride	5.00	5.02	mg/L	100	E300.0A	02/02/17
BS1W0202	Sulfate	5.00	4.99	mg/L	100	E300.0A	02/02/17

U=Not detected and reported as less than detection limit
J=Estimated value below reporting limit
E=Estimated value above calibration range
*=See case narrative

CASE NARRATIVE GENERAL CHEMISTRY ANALYSIS

Lab Name: CH2M ASL

ASL SDG#: R1204

Project: Northwest Pipe

Project #: 682722.GW.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

All laboratory quality control samples were within established control limits, with any exceptions noted below, or in the associated QC summary forms.

Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. For diluted samples, the reporting limits are adjusted for the dilution required.

Calculations are performed before rounding to minimize errors in calculated values.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the section below, or in the sample receipt documentation.

Method(s):

E353.2

CH2M ASL

Client Information			Lab Information		
Project Name: Northwest Pipe			Lab Batch ID: R1204		
Date Received: 02/02/17			Analysis Method: E353.2		
Type: See C.O.C.			Units: mg/L		
Matrix: Water			Report Revision No.: 0		

Client Sample ID	Lab Sample ID	Dilution Factor	DL	Nitrate-N RL	Result	Qualifier	Date Analyzed
General Chemistry							
T4S1MW-09-020117-0	R120401	4	0.011	0.040	2.94		02/02/17 18:21
T4S1MW-03S-020117-0	R120402	4	0.011	0.040	1.23		02/02/17 18:23
MW-02-020117-0	R120404	1	0.0028	0.010	0.39		02/02/17 18:03
MW-04-020117-0	R120405	1	0.0028	0.010	0.0028	U	02/02/17 18:04
T4S1MW-23-020117-0	R120406	1	0.0028	0.010	0.58		02/02/17 18:05
T4S1MW-22-020117-0	R120407	1	0.0028	0.010	0.039		02/02/17 18:06
WB1-020217	WB1-020217	1	0.0028	0.010	0.0028	U	02/02/17

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative

B=Analyte detected in blank

CASE NARRATIVE GENERAL CHEMISTRY ANALYSIS

Lab Name: CH2M ASL

ASL SDG#: R1204

Project: Northwest Pipe

Project #: 682722.GW.05

With the exceptions noted as flags, footnotes, or detailed in the section below; standard operating procedures were followed in the analysis of the samples and no problems were encountered or anomalies observed.

All laboratory quality control samples were within established control limits, with any exceptions noted below, or in the associated QC summary forms.

Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. For diluted samples, the reporting limits are adjusted for the dilution required.

Calculations are performed before rounding to minimize errors in calculated values.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the section below, or in the sample receipt documentation.

Method(s):
SM5310B

CH2M ASL

Client Information			Lab Information		
Project Name: Northwest Pipe			Lab Batch ID: R1204		
Date Received: 02/02/17			Analysis Method: SM5310B		
Type: See C.O.C.			Units: mg/L		
Matrix: Water			Report Revision No.: 0		

Client Sample ID	Lab Sample ID	Dilution Factor	DL	Total Organic Carbon RL	Result	Qualifier	Date Analyzed
General Chemistry							
T4S1MW-09-020117-0	R120401	1	0.20	0.50	0.61		02/04/17
T4S1MW-03S-020117-0	R120402	1	0.20	0.50	0.39	J	02/04/17
MW-02-020117-0	R120404	1	0.20	0.50	1.23		02/04/17
MW-04-020117-0	R120405	1	0.20	0.50	1.09		02/04/17
T4S1MW-23-020117-0	R120406	1	0.20	0.50	0.68		02/04/17
T4S1MW-22-020117-0	R120407	1	0.20	0.50	1.09		02/04/17
WB1-0204	WB1-0204	1	0.20	0.50	0.20	U	02/04/17

U=Not detected and reported as less than detection limit
 J=Estimated value below reporting limit
 E=Estimated value above calibration range
 *=See case narrative

B=Analyte detected in blank

CH2M ASL

Client Information				Lab Information			
Project Name: Northwest Pipe Type: QC Matrix: Water				Lab Batch ID: R1204 Report Revision No.: 0			

LCS ID	Analyte	Spike Amount	Sample Result	Units	% Recovery	Analysis Method	Date Analyzed
General Chemistry							
BS1W0204	Total Organic Carbon	5.00	4.64	mg/L	93	SM5310B	02/04/17

U=Not detected and reported as less than detection limit
J=Estimated value below reporting limit
E=Estimated value above calibration range
*=See case narrative

Chain of Custody Record

Client Contact		Analysis Turnaround Time					Preservation Used						For Lab Use Only:			
Project Name: <u>NOOTHWEST PIPE</u>		TAT is Calander days					HCL	HCL	-							SDG: <u>R1204</u>
Project # or PO #:		TAT if different from below _____					Analysis Requested						Custody Seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Company Name: <u>CH2M</u>		<input checked="" type="checkbox"/> 21 days (STD)					VOCs - 8260C VOCs - 8260SIM Methane, CO2 PSE-ITS TOL Nitrate Sulfate, chloride Dissolved Ferrous Iron (PSECO REJECTED)							Hand delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Address: <u>2020 SW POWELL AVE, STE 300</u>		<input type="checkbox"/> 14 days * <input type="checkbox"/> 3 day *												Cooler Temp: <u>3.6°C</u>		
City/State/Zip: <u>POMPAD, OR 97201</u>		<input type="checkbox"/> 7 days * <input type="checkbox"/> 2 days *												Therm ID No.: <u>193</u> Therm Exp: <u>4/17/17</u>		
Project Manager: <u>GAVELIN GEE</u>		<input type="checkbox"/> 5 days * <input type="checkbox"/> 1 day *												Packing Material: Circle Below <input checked="" type="radio"/> Blue Ice Box <input type="radio"/> Bubble Wrap		
Phone #:		* (Surcharges will apply)											Radiological Screen? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Report to email: <u>GAVELIN_GEE@POX</u>		Sample Identification (Limit of 20 characters)		Sample Date	Sample Time	Sample Type (CeComp, G=Grab)	Matrix (Water, Soil, Air)	Total # of Cont.							Sample Specific Notes:	Lab ID:
		<u>T451MW-09-020117-0</u>		<u>02/01/17</u>	<u>1000</u>	<u>G</u>	<u>W</u>	<u>12</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>1</u>
		<u>T451MW-035-020117-0</u>		<u>02/01/17</u>	<u>1140</u>	<u>G</u>	<u>W</u>	<u>12</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>2</u>
		<u>TRIP BLANK -020117-01</u>		<u>02/01/17</u>	<u>0800</u>	<u>G</u>	<u>W</u>	<u>2</u>	<u>X</u>	<u>X</u>						<u>3</u>
		<u>MW-02-020117-0</u>		<u>02/01/17</u>	<u>1320</u>	<u>G</u>	<u>W</u>	<u>12</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>4</u>
		<u>MW-04-020117-0</u>		<u>02/01/17</u>	<u>1450</u>	<u>G</u>	<u>W</u>	<u>12</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>5</u>
		<u>T451MW-23-020117-0</u>		<u>02/01/17</u>	<u>1640</u>	<u>G</u>	<u>W</u>	<u>12</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>6</u>
		<u>T451MW-22-020117-0</u>		<u>02/01/17</u>	<u>1730</u>	<u>G</u>	<u>W</u>	<u>12</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>7</u>
Preservation Used: (1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other)																
Possible Hazard Identification:								Sample Disposal (A fee may be added if samples are retained longer than 30 day per client request, samples are returned to client, or classified as hazardous.)								
Are samples hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ months								
If yes, select hazard(s): <input type="checkbox"/> Listed <input type="checkbox"/> Ignitable <input type="checkbox"/> Corrosive <input type="checkbox"/> Reactive <input type="checkbox"/> Toxic																
If YES or NO is not checked above, samples will be assumed hazardous and hazardous disposal fees will be applied.																
Sampled By: <u>BRAD OSTAPKO WWS B.M.</u>				Date/Time: <u>02/01/17 1800</u>				Relinquished by: <u>BRAD OSTAPKO WWS B.M.</u>				Date/Time: <u>02/01/17 1800</u>				
Received by:				Date/Time:				Relinquished by:				Date/Time:				
Received in Laboratory by: <u>Public Center</u>				Date/Time: <u>02/1/17 1045</u>				Shipped Via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> Fed-Ex <input type="checkbox"/> USPS <input type="checkbox"/> Other				Tracking #:				
Special Instructions/QC Requirements																

Sample Receipt Record

SDG ID: R1204

Date Received: 2/2/2017

Client/Project: Northwest Pipe

Received by: PC

Were custody seals intact and on the outside of the cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Shipping Record:	<input type="checkbox"/> Hand Delivered	<input checked="" type="checkbox"/> On File	<input type="checkbox"/> COC
Radiological Screening for DoD	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Packing Material:	<input type="checkbox"/> Hand Delivered	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice <input type="checkbox"/> Box
Temp OK? (<6C) Therm ID: TH173 Exp. 4/17/17	3.6 °C	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A
Was a Chain of Custody (CoC) Provided?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was the CoC correctly filled out (If No, document below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did sample labels agree with COC? (If No, document below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did the CoC list a correct bottle count and the preservative types (No=Correct on CoC)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Were the sample containers in good condition (not broken or leaking)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was enough sample volume provided for analysis? (If No, document below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Containers supplied by ASL?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Any sample with < 1/2 holding time remaining? If so contact LPM and document below.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Samples have multi-phase? If yes, document on SRER	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
All water VOCs free of air bubbles? No, document on SRER	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
pH of all samples met criteria on receipt? If "No", preserve and document below.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Dissolved/Soluble metals filtered in the field?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Dissolved/Soluble metals have sediment in bottom of container? If so document below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A

Preservation Adjustment

Sample ID	Reagent	Reagent Lot Number	Volume Added	Initials/Date-Time	24 hour pH check Initials/Time

Did pH of all metals samples preserved upon receipt meet criteria 24 hours after preservation? Yes No

Sample Exception Report (The following exceptions were noted)

1. Nitrate sample T4S1MW-09-020117-0 (R120401) received with less than half holding time remaining.

Client was notified on: _____ Client contact: _____

Resolution to Exception: