



July 17, 2017

Clean Water Services
2550 SW Hillsboro Highway
Hillsboro, Oregon 97123

Attention: Marney Jett

Subject: **2016 – 2017 Discharge Monitoring Report (DMR)**
1200-Z General Permit: CWS File No. 41940
Intel Corporation – Aloha Campus
3585 SW 198th Avenue
Aloha, Oregon 97007

Intel Corporation (Intel) is pleased to present this annual report and supporting documentation for the Intel Aloha Campus (Site) located in Aloha, Oregon. This report fulfills the annual reporting requirements of the National Pollution Discharge Elimination System (NPDES) 1200-Z permit for the Site (CWS File No. 41940).

Attached to this letter you will find:

- 2016 – 2017 Industrial Stormwater Discharge Monitoring Report (Attachment A);
- Stormwater Sampling Analytical Results (Attachment B);
- Monitoring Waivers (Attachment C); and
- Tier II Exceedance Reports (Attachment D).

Please feel free to contact Alex Lochard at (503) 214-0249 should you have any questions or concerns regarding this annual report.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Shanley", written in a cursive style.

Stephanie Shanley
Oregon Environmental Manager
Intel Corporation

Cc: Marney Jett, Clean Water Services
Alex Lochard, Intel Corporation
Intel EHS file



ATTACHMENT A

2016 – 2017 Industrial Stormwater Discharge Monitoring Report

Industrial Stormwater Discharge Monitoring Report - 1200-Z Permit



State of Oregon
Department of
Environmental
Quality

Permittee Legal Name:	Intel Corporation	ODEQ File No./Facility ID:	41940
Facility Common Name:	Albion Campus	Reporting Period:	July 1, 2016 to June 30, 2017
Facility Location:	3585 SW 198th Ave Aloha, 97007	Laboratory Name:	APEX Laboratories, Tigard
County:	Washington	ORELAP#	OR100062
		SIC Code(s):	3674

Monitor for the following pollutants at sampling point(s) specified in your SWPCP and use the sampling point name or number from your SWPCP. Add more sheets if necessary (e.g., if more than 4 samples are collected per pollutant or facility has more than 4 sampling points). You MUST also attach a copy of laboratory results sheet(s).

Benchmark Sampling: 4 times per year, every year

Name or Number of Sampling Point(s) (group data per sampling point)	Sample Date	pH	Total Suspended Solids mg/L	Oil and Grease, Total mg/L	Copper, Total mg/L	Lead, Total mg/L	Zinc, Total mg/L	E. coli * counts/100 ml	* E. coli only required for landfills and sewage treatment plants.
ALMP-1	10/15/16	W	W	W	W	W	W	0.08	Fill out only those rows and columns that apply to your specific site.
	11/22/16	W	W	W	W	W	W	0.10	
	02/03/17	W	W	W	W	W	W	0.10	
	03/03/17	W	W	W	W	W	W	0.12	
	03/23/17	W	W	W	0.003	W	W	0.14	
Geometric Mean (Note 3)			W	W	W	W	W	0.10	Note 1: Submit this report to the appropriate DEQ regional or agent offices (see below) annually by July 31st. The report must contain the results of all stormwater monitoring conducted during the year. If you have a monitoring waiver for one or more of the pollutant(s), please report "W" in the column(s)-see permit-Schedule B.3. You are not required to report the geometric mean for pollutant(s) that have a monitoring waiver. The geometric mean value is automatically calculated if using the Excel version of the DMR form.
ALMP-2	10/15/16	W	W	W	0.015	W	W	0.10	
	11/22/16	W	W	W	0.018	W	W	0.13	
	02/08/17	W	W	W	0.015	W	W	0.10	
	03/03/17	W	W	W	0.034	W	W	0.30	
	03/23/17	W	W	W	0.021	W	W	0.12	
Geometric Mean (Note 3)			W	W	0.019	W	W	0.14	Note 2: Non-detects must be reported as "ND" along with the applicable method detection limit or minimum quantification limit in parentheses - e.g. ND (0.001).
Geometric Mean (Note 3)									
Geometric Mean (Note 3)									Note 3: The geometric mean is required in the second year of coverage. For non-detect sampling results, record following note 2 above; the spreadsheet will automatically use 1/2 the detection limit to calculate the geometric mean. You are not required to report the geometric mean for pollutant(s) that have a monitoring waiver. The geometric mean value is automatically calculated if using the Excel version of the DMR form.
Geometric Mean (Note 3)									Note 4: If a sampling event is missed or a sampling parameter is not analyzed or sampled, enter "NS" in each applicable column for that row.
Geometric Mean (Note 3)									Note 5: If there was no discharge then state "No Discharge" in the row after the sampling date for any applicable sampling point.
Geometric Mean (Note 3)									
Permit Benchmark		5.5 - 9.0	100	10	0.020	0.040	0.12	406	

Local Executive Officer or Authorized Delegate

(Please Print) First Name: Stephanie

Last Name: Shanley

Title: Oregon Environmental Manager

Telephone: 503 613 5950

Email: stephanie.b.shanley@intel.com

40 CFR 122.22 I certify under penalty of law, that this document and all attachments were prepared under my direct supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Sign Here:

Date: 7/20/17

Additional Sampling

Name or Number of Sampling Point(s) (group data per sampling point)		8 samples during first 3 years			4 samples during first 3 years			* PCBs should be reported as the sum of the following areolers 1016, 1221, 1232, 1242, 1248, 1254, 1260. Do not use any value for any alocor that is non-detect, Should all Alocors be non-detect report the ND value for the highest non-detect value from the lab report; typically, this will be ND (0.002).		
	Sample Date	All Permittees				Auto Salvage & Scrap Recycling Facilities	Scrap Recycling			
		Cadmium, Total mg/L	Nickel, Total mg/L	Chromium, Total mg/L					Mercury, Total mg/L	Total PCBs * mg/L
ALMP-2	10/15/2017	ND	ND	ND						
		Use method 3113B, 200.8, or other method			MQL	0.0024	0.002			

For facilities located within the following local jurisdictions,

Clean Water Services
Industrial Stormwater
2550 SW Hillsboro Hwy.
Hillsboro, OR 97123

City of Portland
Industrial Stormwater
Section
Water Pollution Control
Lab
6543 N Burlington Ave.
Portland, OR 97203

City of Eugene
Industrial Source Control
410 River Ave.
Eugene, OR 97404

For all other

DEQ Northwest Region Office
700 Lloyd Building at 700 NE
Multnomah St., Suite #600
Portland, OR 97232
Phone: (503) 229-5263
Hours: 8 am - 5 pm

DEQ Eastern Region Office
475 NE Bellevue Drive, Suite 110
Bend, OR 97701
Phone: (541) 388-633-2033
Hours: 8 am - 5 pm

DEQ Western Region Office
165 East 7th Ave., Suite 100
Eugene, OR 97401
Phone: (541) 686-7838
Hours: 8 am - 5 pm

Industrial Stormwater Discharge Monitoring Report - 1200-Z Permit

Permittee Legal Name:	Intel Corporation	ODEQ File No./Facility ID:	41940
Facility Common Name:	Aloha Campus	Reporting Period:	July 1, 2016 to June 30, 2017
Facility Location:	3585 SW 198th Ave Aloha, 97007	Laboratory Name:	APEX
County:	Washington	ORELAP#	OR100021
		SIC Code(s):	3674

Impairment Sampling: 2 times per year, every year

Please refer to the permit assignment letter to determine if impairment sampling is required.

Name or Number of Sampling Point(s) (group data per sampling point)	Sample Date	Aldrin mg/L	Ammonia mg/L	Arsenic, Total mg/L	BOD ₅ mg/L	Cadmium, Total mg/L	Chlordane mg/L	Chloro- pyrifos mg/L	Copper, Total mg/L	Cyanide mg/L	DDT mg/L	DDE mg/L
Permit Reference Concentration		0.003	1.000	0.0021	30	0.0039	0.0024	0.000083	0.01	0.022	0.0011	0.00001
Name or Number of Sampling Point(s) (group data per sampling point)	Sample Date	Chromium (hex) mg/L	1,1-Dichloro-ethylene mg/L	trans-1,2-Dichloro-ethylene mg/L	cis-1,2-Dichloro-ethylene mg/L	Dieldrin mg/L	Guthion mg/L	Heptachlor mg/L	Hexachloro-benzene mg/L	Iron, Total mg/L	Lead, (Dissolved) mg/L	Mercury, Total mg/L
ALMP-2	10/15/16									W		
	11/22/16									W		
	02/08/17									W		
	03/23/17									W		
Permit Reference Concentration		0.016 total 0.016 dissolved	0.0005 0.23	(total of 3 forms) 0.12	NA	0.00250 0.00024	0.001	0.00052	0.001	1.000	0.016	0.0024
Name or Number of Sampling Point(s) (group data per sampling point)	Sample Date	Nickel, (Dissolved) mg/L	Nitrogen (nitrate + nitrite) mg/L	PCB mg/L	Pentachloro-phenol mg/L	pH mg/L	Phosphorous mg/L	Thallium mg/L	Total Suspended Solids mg/L	Tetrachloro-ethylene mg/L	Trichloro-ethylene mg/L	Zinc (Dissolved) mg/L
Permit Reference Concentration		0.16	0.68	0.002	0.02	5.5-9.0	2.0	0.0001	100	0.00050	0.0014	0.04



ATTACHMENT B

Stormwater Sampling Analytical Results

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

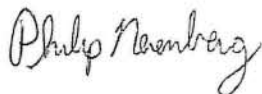
Reported:
11/01/16 10:37

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A6J0549-01)			Matrix: Water					
Batch: 6101022								
Zinc	0.0759	---	0.00400	mg/L	1	10/27/16 19:45	EPA 200.8	
ALMP-2 (A6J0549-02)			Matrix: Water					
Batch: 6101022								
Cadmium	ND	---	0.000200	mg/L	1	10/27/16 19:51	EPA 200.8	
Chromium	ND	---	0.00100	"	"	"	"	
Copper	0.0145	---	0.00100	"	"	"	"	
Nickel	ND	---	0.00100	"	"	"	"	
Zinc	0.102	---	0.00400	"	"	"	"	

Apex Laboratories



Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley


Reported:
11/01/16 10:37

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A6J0549-01)			Matrix: Water					
Batch: 6101060								
Zinc	0.0711	---	0.00400	mg/L	1	10/27/16 23:54	EPA 200.8 (Diss)	FILT1
ALMP-2 (A6J0549-02)			Matrix: Water					
Batch: 6101060								
Copper	0.0153	---	0.00100	mg/L	1	10/27/16 23:57	EPA 200.8 (Diss)	FILT1
Zinc	0.102	---	0.00400	"	"	"	"	FILT1

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7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

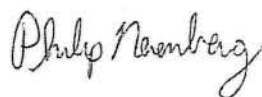
Reported:
11/01/16 10:37

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6101022 - EPA 3015A						Water						
Blank (6101022-BLK1)						Prepared: 10/26/16 16:05 Analyzed: 10/27/16 19:05						
EPA 200.8												
Cadmium	ND	---	0.000200	mg/L	1	---	---	---	---	---	---	
Chromium	ND	---	0.00100	"	"	---	---	---	---	---	---	
Copper	ND	---	0.00100	"	"	---	---	---	---	---	---	
Nickel	ND	---	0.00100	"	"	---	---	---	---	---	---	
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	
LCS (6101022-BS1)						Prepared: 10/26/16 16:05 Analyzed: 10/27/16 19:08						
EPA 200.8												
Cadmium	0.0549	---	0.000200	mg/L	1	0.0556	---	99	85-115%	---	---	
Chromium	0.0578	---	0.00100	"	"	"	---	104	"	---	---	
Copper	0.0577	---	0.00100	"	"	"	---	104	"	---	---	
Nickel	0.0579	---	0.00100	"	"	"	---	104	"	---	---	
Zinc	0.0536	---	0.00400	"	"	"	---	96	"	---	---	
Matrix Spike (6101022-MS1)						Prepared: 10/26/16 16:05 Analyzed: 10/27/16 19:48						
QC Source Sample: ALMP-1 (A6J0549-01)												
EPA 200.8												
Cadmium	0.0550	---	0.000200	mg/L	1	0.0556	0.0000667	99	70-130%	---	---	
Chromium	0.0573	---	0.00100	"	"	"	0.000400	102	"	---	---	
Copper	0.0592	---	0.00100	"	"	"	0.00243	102	"	---	---	
Nickel	0.0571	---	0.00100	"	"	"	0.000500	102	"	---	---	
Zinc	0.127	---	0.00400	"	"	"	0.0759	93	"	---	---	

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

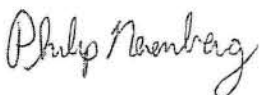
Reported:
11/01/16 10:37

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6101060 - Matrix Matched Direct Inject							Water					
Blank (6101060-BLK1)					Prepared: 10/27/16 11:19		Analyzed: 10/27/16 23:48					
EPA 200.8 (Diss)												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	FILT3
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	FILT3
LCS (6101060-BS1)					Prepared: 10/27/16 11:19		Analyzed: 10/27/16 23:51					
EPA 200.8 (Diss)												
Copper	0.0568	---	0.00100	mg/L	1	0.0556	---	102	85-115%	---	---	
Zinc	0.0541	---	0.00400	"	"	"	---	97	"	---	---	

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
11/01/16 10:37

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

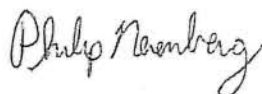
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6101022							
A6J0549-01	Water	EPA 200.8	10/15/16 09:45	10/26/16 16:05	45mL/50mL	45mL/50mL	1.00
A6J0549-02	Water	EPA 200.8	10/15/16 10:10	10/26/16 16:05	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6101060							
A6J0549-01	Water	EPA 200.8 (Diss)	10/15/16 09:45	10/27/16 11:19	45mL/50mL	45mL/50mL	1.00
A6J0549-02	Water	EPA 200.8 (Diss)	10/15/16 10:10	10/27/16 11:19	45mL/50mL	45mL/50mL	1.00

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
11/01/16 10:37

Notes and Definitions

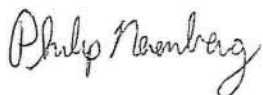
Qualifiers:

- FILT1 Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
FILT3 This is a laboratory filtration blank, associated with filtration batch 6100673. See Prep page of report for associated samples.

Notes and Conventions:

- DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
RPD Relative Percent Difference
MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
--- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories



Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
11/01/16 10:37

CHAIN OF CUSTODY

APEX LABS Lab # 4050549 PO# 661M131871

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Apex Foster Wheeler Project Mgr: Tyler Marley Project Name: Intel Compliance Project # 661M131871

Address: 7376 SW Durham Rd Tigard OR 97224 Phone: 503-639-3440 Fax: Email: Tyler.Marley@apexlabs.com

Sampled by: Tyler Marley

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST		
					SWTPH-HCID	SWTPH-DV	SWTPH-CV
ALMP-1	10/15	945 W	2				
ALMP-2	10/15	1010 W	2				

Site Location: OR W.A. Other:

Normal Turn Around Time (TAT) = 10 Business Days YES (circle) NO

TAT Requested (circle) 1 Day 2 Day 3 Day 4 Day 5 Day Other:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Tyler Marley Date: 10/16/16 Signature: [Signature]

RECEIVED BY: Apex Date: 11/01/16 Signature: [Signature]

Printed Name: Tyler Marley Time: 9:40 Printed Name: Apex Time: 9:40

Company: Apex Foster Wheeler Company: Apex

SPECIAL INSTRUCTIONS: Please lab filter for dissolved

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Tuesday, December 13, 2016

Tyler Marley
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

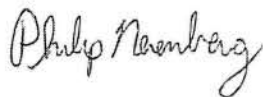
RE: Intel Compliance / 661M131871

Enclosed are the results of analyses for work order A6K0752, which was received by the laboratory on 11/23/2016 at 12:47:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

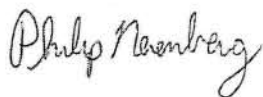
Reported:
12/13/16 20:40

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-1	A6K0752-01	Water	11/22/16 18:45	11/23/16 12:47
ALMP-2	A6K0752-02	Water	11/22/16 16:25	11/23/16 12:47

Apex Laboratories



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Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

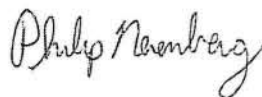
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12/13/16 20:40

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A6K0752-01)								
Matrix: Water								
Batch: 6120286								
Zinc	0.0971	---	0.00400	mg/L	1	12/07/16 17:15	EPA 200.8	
ALMP-2 (A6K0752-02)								
Matrix: Water								
Batch: 6120286								
Copper	0.0178	---	0.00100	mg/L	1	12/07/16 17:18	EPA 200.8	
Zinc	0.129	---	0.00400	"	"	"	"	

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

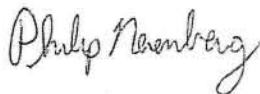
Reported:
12/13/16 20:40

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A6K0752-01)			Matrix: Water					
Batch: 6120279								
Zinc	0.0726	---	0.00400	mg/L	1	12/06/16 21:07	EPA 200.8 (Diss)	FILT1
ALMP-2 (A6K0752-02)			Matrix: Water					
Batch: 6120279								
Copper	0.0155	---	0.00100	mg/L	1	12/06/16 21:13	EPA 200.8 (Diss)	FILT1
Zinc	0.123	---	0.00400	"	"	"	"	FILT1

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Philip Nerenberg, Lab Director

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Project: Intel Compliance
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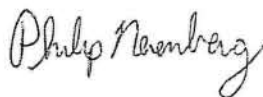
Reported:
12/13/16 20:40

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6120286 - EPA 3015A						Water						
Blank (6120286-BLK1)						Prepared: 12/06/16 17:57 Analyzed: 12/07/16 16:49						
EPA 200.8												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	
LCS (6120286-BS1)						Prepared: 12/06/16 17:57 Analyzed: 12/07/16 17:04						
EPA 200.8												
Copper	0.0558	---	0.00100	mg/L	1	0.0556	---	100	85-115%	---	---	
Zinc	0.0561	---	0.00400	"	"	"	---	101	"	---	---	
Duplicate (6120286-DUP1)						Prepared: 12/06/16 17:57 Analyzed: 12/07/16 17:22						
QC Source Sample: ALMP-2 (A6K0752-02)												
EPA 200.8												
Copper	0.0177	---	0.00100	mg/L	1	---	0.0178	---	---	0.6	20%	
Zinc	0.130	---	0.00400	"	"	---	0.129	---	---	0.6	20%	
Matrix Spike (6120286-MS1)						Prepared: 12/06/16 17:57 Analyzed: 12/07/16 17:26						
QC Source Sample: ALMP-2 (A6K0752-02)												
EPA 200.8												
Copper	0.0750	---	0.00100	mg/L	1	0.0556	0.0178	103	70-130%	---	---	
Zinc	0.191	---	0.00400	"	"	"	0.129	112	"	---	---	

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12232 S.W. Garden Place
Tigard, OR 97223
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503-718-0333 Fax

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

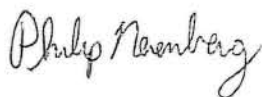
Reported:
12/13/16 20:40

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6120279 - Matrix Matched Direct Inject						Water						
Blank (6120279-BLK1)				Prepared: 12/06/16 15:10		Analyzed: 12/06/16 19:34						
EPA 200.8 (Diss)												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	FILT3
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	FILT3
LCS (6120279-BS1)				Prepared: 12/06/16 15:10		Analyzed: 12/06/16 19:37						
EPA 200.8 (Diss)												
Copper	0.0545	---	0.00100	mg/L	1	0.0556	---	98	85-115%	---	---	
Zinc	0.0542	---	0.00400	"	"	"	---	98	"	---	---	
Matrix Spike (6120279-MS2)				Prepared: 12/06/16 15:10		Analyzed: 12/06/16 21:10						
QC Source Sample: ALMP-1 (A6K0752-01)												
EPA 200.8 (Diss)												
Copper	0.0594	---	0.00100	mg/L	1	0.0556	0.00159	104	70-130%	---	---	
Zinc	0.128	---	0.00400	"	"	"	0.0726	100	"	---	---	

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Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
12/13/16 20:40

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

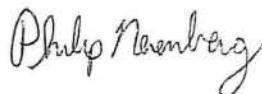
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 6120286</u>							
A6K0752-01	Water	EPA 200.8	11/22/16 18:45	12/06/16 17:57	45mL/50mL	45mL/50mL	1.00
A6K0752-02	Water	EPA 200.8	11/22/16 16:25	12/06/16 17:57	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 6120279</u>							
A6K0752-01	Water	EPA 200.8 (Diss)	11/22/16 18:45	12/06/16 15:10	45mL/50mL	45mL/50mL	1.00
A6K0752-02	Water	EPA 200.8 (Diss)	11/22/16 16:25	12/06/16 15:10	45mL/50mL	45mL/50mL	1.00

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Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
12/13/16 20:40

Notes and Definitions

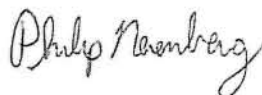
Qualifiers:

- FILT1 Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
- FILT3 This is a laboratory filtration blank, associated with filtration batch 6110855. See Prep page of report for associated samples.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to $\frac{1}{2}$ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
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Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
12/13/16 20:40

APEX LABS		CHAIN OF CUSTODY		Lab # A060752		COC 1 of 1	
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-3223 Fax: 503-718-0333		Company: <u>Ames Fore</u>		Project Name: <u>Tidel Compliance</u>		Project # <u>0610151821</u>	
Address: <u>7376 SW Auburn Rd Tigard, OR 97224</u>		Project Mgr: <u>Tyler Marley</u>		Phone: <u>503-659-5460</u> Fax: _____		Email: <u>Tyler.Marley@ameslab.com</u>	
Sampled by: <u>Tyler Marley</u>		Project Mgr: <u>Tyler Marley</u>		Project Name: <u>Tidel Compliance</u>		Project # <u>0610151821</u>	
Site Location: <u>OR</u> <u>WA</u>		Project Mgr: <u>Tyler Marley</u>		Project Name: <u>Tidel Compliance</u>		Project # <u>0610151821</u>	
Other: _____		Project Mgr: <u>Tyler Marley</u>		Project Name: <u>Tidel Compliance</u>		Project # <u>0610151821</u>	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/05		10:45		W 2	
LAB ID #		DATE		TIME		NATRIA	
SAMPLE ID		DATE		TIME		NATRIA	
ALAP - 1		11/22/05		10:45		W 2	
ALAP - 2		11/22/					

Philip Nernberg

Apex Labs

12232 S.W. Garden Place
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AMEC Foster Wheeler
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Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
12/13/16 20:40

APEX LABS COOLER RECEIPT FORM

Client: AMEC Element WO#: A6 40752
Project/Project #: Intel Compliance / 661M131871

Delivery info:

Date/Time Received: 11/23/16 @ 1247 By: JS
Delivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Inspected by: AMS : 11/23/16 @ 1310
Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒
Signed/Dated by Client? Yes ☒ No ☐
Signed/Dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>2.6</u>	<u>3.1</u>					
Received on Ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. Blanks? (Y/N)	<u>Y</u>	<u>Y</u>					
Ice Type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>					
Condition:							

Cooler out of temp? (Y/N) Possible reason why:
If some coolers are in temp and some out, were even dot applied to out of temperature samples? Yes/No/NA
Samples Inspection: Inspected by: AMS : 11/23/16 @ 1310 Yes/No/NA ☒

All Samples Intact? Yes ☒ No ☐ Comments:

Bottle Labels/COCs agree? Yes ☒ No ☐ Comments:

Containers/Volumes Received Appropriate for Analysis? Yes ☒ No ☐ Comments:

Do VOA Vials have Visible Headspace? Yes ☐ No ☒ NA ☒
Comments:

Water Samples: pH Checked and Appropriate (except VOAs): Yes ☒ No ☐ NA ☐
Comments:

Additional Information:

Labeled by: AMS Witness: WMS Cooler Inspected by: AMS See Project Contact Form: Y

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, February 16, 2017

Tyler Marley
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

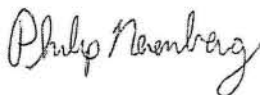
RE: Intel Compliance / 561M131871

Enclosed are the results of analyses for work order A7B0114, which was received by the laboratory on 2/6/2017 at 11:00:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



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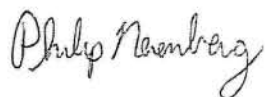
Reported:
02/16/17 17:12

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-1	A7B0114-01	Water	02/03/17 22:05	02/06/17 11:00
RAMP-2	A7B0114-02	Water	02/03/17 20:00	02/06/17 11:00
RAMP-3	A7B0114-03	Water	02/03/17 19:15	02/06/17 11:00

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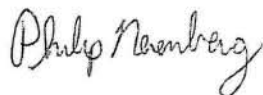
Reported:
02/16/17 17:12

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A7B0114-01)								
Matrix: Water								
Batch: 7020479								
Zinc	0.103	---	0.00400	mg/L	1	02/10/17 23:49	EPA 200.8	
RAMP-2 (A7B0114-02)								
Matrix: Water								
Batch: 7020479								
Zinc	0.395	---	0.00400	mg/L	1	02/10/17 23:52	EPA 200.8	
RAMP-3 (A7B0114-03)								
Matrix: Water								
Batch: 7020501								
Cadmium	0.000722	---	0.000200	mg/L	1	02/13/17 13:33	EPA 200.8	
Chromium	ND	---	0.00100	"	"	"	"	
Nickel	ND	---	0.00100	"	"	"	"	
Zinc	1.66	---	0.00400	"	"	"	"	

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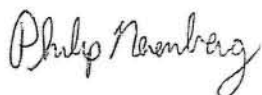
Reported:
02/16/17 17:12

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A7B0114-01)			Matrix: Water					
Batch: 7020395								
Zinc	0.0817	---	0.00400	mg/L	1	02/08/17 13:16	EPA 200.8 (Diss)	FILT1
RAMP-2 (A7B0114-02)			Matrix: Water					
Batch: 7020395								
Zinc	0.333	---	0.00400	mg/L	1	02/08/17 13:19	EPA 200.8 (Diss)	FILT1
RAMP-3 (A7B0114-03)			Matrix: Water					
Batch: 7020395								
Zinc	1.65	---	0.00400	mg/L	1	02/08/17 12:25	EPA 200.8 (Diss)	FILT1

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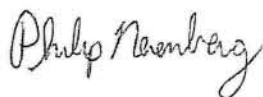
Reported:
02/16/17 17:12

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020479 - EPA 3015A						Water						
Blank (7020479-BLK1)						Prepared: 02/10/17 09:36 Analyzed: 02/10/17 13:24						
EPA 200.8												
Zinc	ND	---	0.00400	mg/L	1	---	---	---	---	---	---	
LCS (7020479-BS1)						Prepared: 02/10/17 09:36 Analyzed: 02/10/17 13:27						
EPA 200.8												
Zinc	0.0560	---	0.00400	mg/L	1	0.0556	---	101	85-115%	---	---	
Batch 7020501 - EPA 3015A						Water						
Blank (7020501-BLK1)						Prepared: 02/10/17 15:51 Analyzed: 02/13/17 13:25						
EPA 200.8												
Cadmium	ND	---	0.000200	mg/L	1	---	---	---	---	---	---	
Chromium	ND	---	0.00100	"	"	---	---	---	---	---	---	
Nickel	ND	---	0.00100	"	"	---	---	---	---	---	---	
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	
LCS (7020501-BS1)						Prepared: 02/10/17 15:51 Analyzed: 02/13/17 13:28						
EPA 200.8												
Cadmium	0.0566	---	0.000200	mg/L	1	0.0556	---	102	85-115%	---	---	
Chromium	0.0563	---	0.00100	"	"	"	---	101	"	---	---	
Nickel	0.0557	---	0.00100	"	"	"	---	100	"	---	---	
Zinc	0.0558	---	0.00400	"	"	"	---	100	"	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 561M131871
Project Manager: Tyler Marley

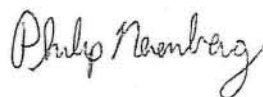
Reported:
02/16/17 17:12

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020395 - Matrix Matched Direct Inject							Water					
Blank (7020395-BLK1)				Prepared: 02/08/17 10:01 Analyzed: 02/08/17 12:13								
EPA 200.8 (Diss)												
Zinc	ND	---	0.00400	mg/L	1	---	---	---	---	---	---	FILT3
LCS (7020395-BS1)				Prepared: 02/08/17 10:01 Analyzed: 02/08/17 12:16								
EPA 200.8 (Diss)												
Zinc	0.0565	---	0.00400	mg/L	1	0.0556	---	102	85-115%	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 561M131871
Project Manager: Tyler Marley

Reported:
02/16/17 17:12

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

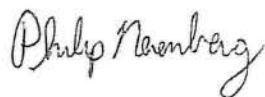
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 7020479</u>							
A7B0114-01	Water	EPA 200.8	02/03/17 22:05	02/10/17 09:36	45mL/50mL	45mL/50mL	1.00
A7B0114-02	Water	EPA 200.8	02/03/17 20:00	02/10/17 09:36	45mL/50mL	45mL/50mL	1.00
<u>Batch: 7020501</u>							
A7B0114-03	Water	EPA 200.8	02/03/17 19:15	02/10/17 15:51	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 7020395</u>							
A7B0114-01	Water	EPA 200.8 (Diss)	02/03/17 22:05	02/08/17 10:01	45mL/50mL	45mL/50mL	1.00
A7B0114-02	Water	EPA 200.8 (Diss)	02/03/17 20:00	02/08/17 10:01	45mL/50mL	45mL/50mL	1.00
A7B0114-03	Water	EPA 200.8 (Diss)	02/03/17 19:15	02/08/17 10:01	45mL/50mL	45mL/50mL	1.00

Apex Laboratories



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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 561M131871
Project Manager: Tyler Marley

Reported:
02/16/17 17:12

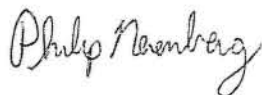
Notes and Definitions

Qualifiers:

- FILT1 Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
- FILT3 This is a laboratory filtration blank, associated with filtration batch 7020317. See Prep page of report for associated samples.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to $\frac{1}{2}$ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).



AMEC Foster Wheeler	Project: Intel Compliance	
7376 SW Durham Road	Project Number: 561M131871	Reported:
Portland, OR 97224	Project Manager: Tyler Marley	02/16/17 17:12

APEX LABS

12242 S.W. Garden Place, Tigard, OR 97223 Ph. 503-718-2323 Fax. 503-718-0333

CHAIN OF CUSTODY

Lab # A700114

COC # of 1

Company: Amec Foster Wheeler

Address: 7376 SW Durham Rd

Sampled by: Tyler Marley

Project Mgr: Tyler Marley

Tigard OR 97224

Project Name: Intel Compliance

Phone: 503-659-7400 Fax: _____

POH: _____

Project # SLIM 131871

Email: Tyler.Marley@amec.fw.com

Project # SLIM 131871

POH: _____

Site Location: (OR) WA

Other: _____

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 Day 5 Day Other: _____

SPECIAL INSTRUCTIONS:

Please lab filter for dissolved Zn

SAMPLE ID		LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTH-HCID	NWTH-DX	NWTH-GX	8260 VOCs Full List	8260 RBDV VOCs	8260 HVOCS	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Bi, Br, Cd, Cr, Cu, Fe, Pb, Hg, Mn, Ni, Se, Si, Sn, Ti, V, Zn	TCLP	TOTAL	1200- COLS	1200-Z	
ALMP-1			2/3	2205	W	2																			
RAMP-2				2000	I																				
RAMP-3				1915																					

RELINQUISHED BY: _____

Signature: Tyler Marley Date: 2/1/12

Printed Name: Tyler Marley Time: 11:00

RECEIVED BY: _____

Signature: Tyler Marley Date: 2/1/12

Printed Name: Tyler Marley Time: 11:00

RELINQUISHED BY: _____

Signature: _____ Date: _____

Printed Name: _____ Time: _____

Philip Naenberg

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 561M131871
Project Manager: Tyler Marley

Reported:
02/16/17 17:12

APEX LABS COOLER RECEIPT FORM

Client: AMEC Element WO#: AKK 21617 780114

Project/Project #: Intel Compliance / 561M131871 TM

Delivery info:

Date/Time Received: 2/16/17 @ 11:00 By: MS
Delivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Inspected by: MS : 2/16/17 @ 11:01

Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒
Signed/Dated by Client? Yes ☒ No ☐
Signed/Dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>2.0</u>						
Received on Ice? (Y/N)	<u>Y</u>						
Temp. Blanks? (Y/N)	<u>Y</u>						
Ice Type: (Gel/Real/Other)	<u>Gel</u>						
Condition:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why: NA
If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA NA

Samples Inspection Inspected by: AKK : 2/16/17 @ 12:00

All Samples Intact? Yes ☒ No ☐ Comments: _____

Bottle Labels/COCs agree? Yes ☒ No ☐ Comments: _____

Containers/Volumes Received Appropriate for Analysis? Yes ☒ No ☐ Comments: _____

Do VOA Vials have Visible Headspace? Yes ☐ No ☐ NA ☒

Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes ☒ No ☐ NA ☐

Comments: _____

Additional Information: _____

Labeled by: AKK Witness: MS Cooler Inspected by: AKK See Project Contact Form: Y

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Wednesday, February 22, 2017

Tyler Marley
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

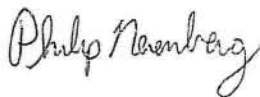
RE: Intel Compliance / 561M131871

Enclosed are the results of analyses for work order A7B0207, which was received by the laboratory on 2/8/2017 at 11:12:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 561M131871
Project Manager: Tyler Marley

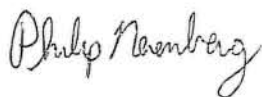
Reported:
02/22/17 17:14

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-2	A7B0207-01	Water	02/08/17 10:15	02/08/17 11:12

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 561M131871
Project Manager: Tyler Marley

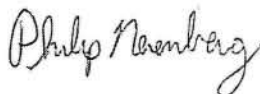
Reported:
02/22/17 17:14

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-2 (A7B0207-01)								
Matrix: Water								
Batch: 7020668								
Copper	0.0145	---	0.00100	mg/L	1	02/17/17 16:35	EPA 200.8	
Zinc	0.102	---	0.00400	"	"	"	"	

Apex Laboratories



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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 561M131871
Project Manager: Tyler Marley

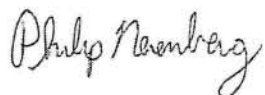
Reported:
02/22/17 17:14

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-2 (A7B0207-01)			Matrix: Water					
Batch: 7020422								
Copper	0.0110	---	0.00200	mg/L	1	02/08/17 19:39	EPA 200.8 (Diss)	FILT1
Zinc	0.0982	---	0.00400	"	"	"	"	FILT1

Apex Laboratories



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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 561M131871
Project Manager: Tyler Marley

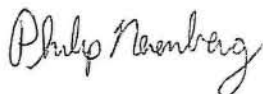
Reported:
02/22/17 17:14

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020668 - EPA 3015A						Water						
Blank (7020668-BLK1)				Prepared: 02/16/17 13:33			Analyzed: 02/17/17 16:14					
EPA 200.8												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	
LCS (7020668-BS1)				Prepared: 02/16/17 13:33			Analyzed: 02/17/17 16:17					
EPA 200.8												
Copper	0.0536	---	0.00100	mg/L	1	0.0556	---	96	85-115%	---	---	
Zinc	0.0537	---	0.00400	"	"	"	---	97	"	---	---	

Apex Laboratories



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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 561M131871
Project Manager: Tyler Marley

Reported:
02/22/17 17:14

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7020422 - Matrix Matched Direct Inject						Water						
Blank (7020422-BLK1)				Prepared: 02/08/17 17:13 Analyzed: 02/08/17 19:24								
EPA 200.8 (Diss)												
Zinc	ND	---	0.00400	mg/L	1	---	---	---	---	---	---	FILT3
Blank (7020422-BLK2)				Prepared: 02/08/17 17:13 Analyzed: 02/09/17 13:53								
EPA 200.8 (Diss)												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	FILT3, Q-16
LCS (7020422-BS1)				Prepared: 02/08/17 17:13 Analyzed: 02/08/17 19:33								
EPA 200.8 (Diss)												
Copper	0.0542	---	0.00200	mg/L	1	0.0556	---	98	85-115%	---	---	
Zinc	0.0543	---	0.00400	"	"	"	---	98	"	---	---	
Matrix Spike (7020422-MS2)				Prepared: 02/08/17 17:13 Analyzed: 02/08/17 19:42								
QC Source Sample: ALMP-2 (A7B0207-01)												
EPA 200.8 (Diss)												
Copper	0.0648	---	0.00200	mg/L	1	0.0556	0.0110	97	70-130%	---	---	
Zinc	0.149	---	0.00400	"	"	"	0.0982	92	"	---	---	

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 561M131871
Project Manager: Tyler Marley

Reported:
02/22/17 17:14

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

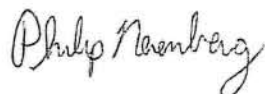
Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7020668							
A7B0207-01	Water	EPA 200.8	02/08/17 10:15	02/16/17 13:33	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7020422							
A7B0207-01	Water	EPA 200.8 (Diss)	02/08/17 10:15	02/08/17 17:13	45mL/50mL	45mL/50mL	1.00



AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 561M131871
Project Manager: Tyler Marley

Reported:
02/22/17 17:14

Notes and Definitions

Qualifiers:

- FILT1 Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
- FILT3 This is a laboratory filtration blank, associated with filtration batch 7020404. See Prep page of report for associated samples.
- Q-16 Reanalysis of an original Batch QC sample.

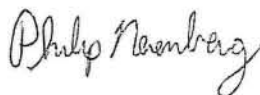
Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler	Project: Intel Compliance	
7376 SW Durham Road	Project Number: 561M131871	Reported:
Portland, OR 97224	Project Manager: Tyler Marley	02/22/17 17:14

APEX LABS

12242 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

CHAIN OF CUSTODY

Lab # A7B0207 COC 1 of 1

Company: Arco Foster Wheeler Project Mgr: Tyler Marley

Address: 7376 SW Durham Rd Tigard OR 97223 Phone: 503-639-3900 Fax: _____

Sampled by: Tyler Marley

Project Name: Intel Compliance Project # 561M131871

Final User: MacLagan, Inc. Inc.

PO# _____

Site Location: OR WA _____

Other: _____

LAB ID # 348 DATE 3/8 TIME 1015 MATRIX W # OF CONTAINERS 2

SAMPLE ID ALMP-2

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle) 1 Day 2 Day 3 Day 4 Day 5 Day Other: _____

SPECIAL INSTRUCTIONS:

Please lab filter for dissolved

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: _____

Signature: Tyler Marley Date: 2/16/13

Printed Name: Tyler Marley Time: 1112

Company: Arco Foster Wheeler Company: _____

RECEIVED BY: _____

Signature: _____ Date: _____

Printed Name: _____ Time: _____

RECEIVED BY: _____

Signature: _____ Date: _____

Printed Name: _____ Time: _____

Philip Naenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 561M131871
Project Manager: Tyler Marley

Reported:
02/22/17 17:14

APEX LABS COOLER RECEIPT FORM

Client: AMEC Element WO#: A7 80207
Project/Project #: Intel Compliance 1561M131871
Delivery info:
Date/Time Received: 2/8/17 @ 1112 By: cab
Delivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐
Cooler Inspection Inspected by: cab : 2/8/17 @ 1115
Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒
Signed/Dated by Client? Yes ☒ No ☐
Signed/Dated by Apex? Yes ☒ No ☐

Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C) <u>2.7</u>						
Received on Ice? (Y/N)						
Temp. Blanks? (Y/N)						
Ice Type: (Gel/Real/Other)						
Condition:						
Cooler out of temp? (Y/N) Possible reason why:						
If some coolers are in temp and some out, were seals applied to out of temperature samples? Yes/No/NA						
Samples Inspection: Inspected by: <u>cab</u> : <u>2/8/17 @ 1115</u>						
All Samples Intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:						
Bottle Labels/COCs agree? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:						
Containers/Volumes Received Appropriate for Analysis? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:						
Do VOA Vials have Visible Headspace? Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>						
Comments:						
Water Samples: pH Checked and Appropriate (except VOAs): Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>						
Comments:						
Additional Information:						
Labeled by: <u>cab</u> Witness: <u>MS</u> Cooler Inspected by: <u>cab</u> See Project Contact Form: Y						

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Tuesday, March 21, 2017

Tyler Marley
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

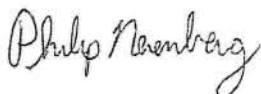
RE: Intel Compliance / 661M131871

Enclosed are the results of analyses for work order A7C0115, which was received by the laboratory on 3/6/2017 at 9:27:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

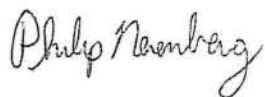
Reported:
03/21/17 15:48

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-1	A7C0115-01	Water	03/03/17 19:00	03/06/17 09:27
ALMP-2	A7C0115-02	Water	03/03/17 18:45	03/06/17 09:27

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
03/21/17 15:48

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A7C0115-01)								
Matrix: Water								
Batch: 7030374								
Zinc	0.121	---	0.00400	mg/L	1	03/07/17 16:41	EPA 200.8	
ALMP-2 (A7C0115-02)								
Matrix: Water								
Batch: 7030374								
Copper	0.0336	---	0.00100	mg/L	1	03/07/17 16:44	EPA 200.8	
Zinc	0.298	---	0.00400	"	"	"	"	

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

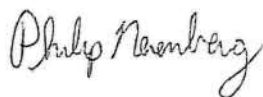
Reported:
03/21/17 15:48

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030374 - EPA 3015A						Water						
Blank (7030374-BLK1)				Prepared: 03/07/17 11:09		Analyzed: 03/07/17 16:01						
EPA 200.8												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	
LCS (7030374-BS1)				Prepared: 03/07/17 11:09		Analyzed: 03/07/17 16:04						
EPA 200.8												
Copper	0.0553	---	0.00100	mg/L	1	0.0556	---	100	85-115%	---	---	
Zinc	0.0542	---	0.00400	"	"	"	---	98	"	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
03/21/17 15:48

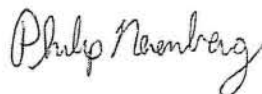
SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 7030374</u>							
A7C0115-01	Water	EPA 200.8	03/03/17 19:00	03/07/17 11:09	45mL/50mL	45mL/50mL	1.00
A7C0115-02	Water	EPA 200.8	03/03/17 18:45	03/07/17 11:09	45mL/50mL	45mL/50mL	1.00

Apex Laboratories



Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Tyler Marley

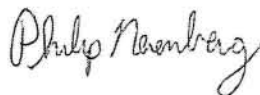
Reported:
03/21/17 15:48

Notes and Definitions

Qualifiers:

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	<p>Apex assesses blank data for potential high bias down to a level equal to $\frac{1}{2}$ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.</p> <p>For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.</p> <p>Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.</p>
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).



AMEC Foster Wheeler	Project: Intel Compliance	
7376 SW Durham Road	Project Number: 661M131871	Reported:
Portland, OR 97224	Project Manager: Tyler Marley	03/21/17 15:48

APEX LABS

CHAIN OF CUSTODY

Lab # **A7C0115** CQC 1 of 1

12242 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

PO#

Company: **Amec Foster Wheeler**

Address: **7376 SW Garden Rd Tigard OR 97224**

Sampled by: **Tyler Marley**

Project Mgr: **Tyler Marley**

Phone: **503-639-3400**

Project Name: **Intel Compliance**

Project # **661M131871**

Email: **Tyler.Marley@amec-fw.com**

Site Location: **WA**

Other: _____

LAB ID #

DATE

TIME

MATRIX

OF CONTAINERS

SAMPLE ID

ALMP-1

ALMP-2

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle)

1 Day 2 Day 3 Day

4 Day 5 Day Other: _____

RECEIVED BY:

Signature: _____

Date: _____

Printed Name: _____

RECEIVED BY:

Signature: _____

Date: _____

Printed Name: _____

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Signature: _____

Date: _____

Philip Nienberg

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Tyler Marley

Reported:
03/21/17 15:48

APEX LABS COOLER RECEIPT FORM

Client: AMEC FW Element WO#: A7 COL15

Project/Project #: Intel Compliance / 661M131871

Delivery info:
Date/Time Received: 9:27 @ 3/6/17 By: MS

Delivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Inspected by: MS : 3/6/17 @ 7:28

Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒

Signed/Dated by Client? Yes ☒ No ☐

Signed/Dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>1.3</u>						
Received on Ice? (Y/N)	<u>Y</u>						
Temp. Blanks? (Y/N)	<u>Y</u>						
Ice Type: (Gel/Real/Other)	<u>Good</u>						
Condition:	<u>Good</u>						

Cooler out of temp? (Y/N) Possible reason why: NA

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA NA

Samples Inspection: Inspected by: MS : 4:22 @ 3/6/17

All Samples Intact? Yes ☒ No ☐ Comments: MS 4/6/22

Bottle Labels/COCs agree? Yes ☒ No ☐ Comments: _____

Containers/Volumes Received Appropriate for Analysis? Yes ☒ No ☐ Comments: _____

Do VOA Vials have Visible Headspace? Yes ☐ No ☐ NA ☒

Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes ☒ No ☐ NA ☐

Comments: _____

Additional Information: _____

Labeled by: JS Witness: AKK Cooler Inspected by: MS See Project Contact Form: Y

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Monday, April 10, 2017

Dan Schall
AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

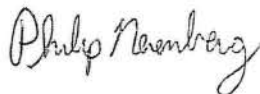
RE: Intel Compliance / 661M131871

Enclosed are the results of analyses for work order A7C0769, which was received by the laboratory on 3/24/2017 at 12:25:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Dan Schall

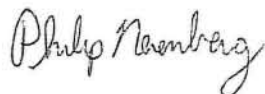
Reported:
04/10/17 17:38

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ALMP-1	A7C0769-01	Water	03/23/17 22:12	03/24/17 12:25
ALMP-2	A7C0769-02	Water	03/23/17 23:40	03/24/17 12:25

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Dan Schall

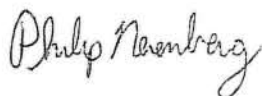
Reported:
04/10/17 17:38

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A7C0769-01)								
Matrix: Water								
Batch: 7040261								
Copper	0.00323	---	0.00100	mg/L	1	04/06/17 17:20	EPA 200.8	
Zinc	0.137	---	0.00400	"	"	"	"	
ALMP-2 (A7C0769-02)								
Matrix: Water								
Batch: 7040261								
Copper	0.0211	---	0.00100	mg/L	1	04/06/17 17:23	EPA 200.8	
Zinc	0.120	---	0.00400	"	"	"	"	

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

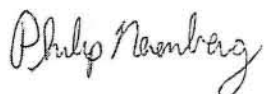
Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Dan Schall

Reported:
04/10/17 17:38

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
ALMP-1 (A7C0769-01)			Matrix: Water					
Batch: 7040257								
Copper	0.00142	---	0.00100	mg/L	1	04/05/17 23:04	EPA 200.8 (Diss)	FILT1
Zinc	0.110	---	0.00400	"	"	"	"	FILT1
ALMP-2 (A7C0769-02)			Matrix: Water					
Batch: 7040257								
Copper	0.0191	---	0.00100	mg/L	1	04/05/17 23:07	EPA 200.8 (Diss)	FILT1
Zinc	0.121	---	0.00400	"	"	"	"	FILT1



AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Dan Schall

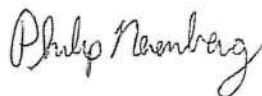
Reported:
04/10/17 17:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7040261 - EPA 3015A						Water						
Blank (7040261-BLK1)				Prepared: 04/05/17 08:49 Analyzed: 04/06/17 16:25								
EPA 200.8												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	
LCS (7040261-BS1)				Prepared: 04/05/17 08:49 Analyzed: 04/06/17 16:29								
EPA 200.8												
Copper	0.0548	---	0.00100	mg/L	1	0.0556	---	99	85-115%	---	---	
Zinc	0.0542	---	0.00400	"	"	"	---	98	"	---	---	

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Dan Schall

Reported:
04/10/17 17:38

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7040257 - Matrix Matched Direct Inject						Water						
Blank (7040257-BLK1)				Prepared: 04/04/17 16:01 Analyzed: 04/05/17 22:19								
EPA 200.8 (Diss)												
Copper	ND	---	0.00100	mg/L	1	---	---	---	---	---	---	FILT3
Zinc	ND	---	0.00400	"	"	---	---	---	---	---	---	FILT3
LCS (7040257-BS1)				Prepared: 04/04/17 16:01 Analyzed: 04/05/17 22:38								
EPA 200.8 (Diss)												
Copper	0.0533	---	0.00100	mg/L	1	0.0556	---	96	85-115%	---	---	
Zinc	0.0540	---	0.00400	"	"	"	---	97	"	---	---	
Matrix Spike (7040257-MS2)				Prepared: 04/04/17 16:01 Analyzed: 04/05/17 23:10								
QC Source Sample: ALMP-2 (A7C0769-02)												
EPA 200.8 (Diss)												
Copper	0.0729	---	0.00100	mg/L	1	0.0556	0.0191	97	70-130%	---	---	
Zinc	0.175	---	0.00400	"	"	"	0.121	97	"	---	---	

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Dan Schall

Reported:
04/10/17 17:38

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7040261							
A7C0769-01	Water	EPA 200.8	03/23/17 22:12	04/05/17 08:49	45mL/50mL	45mL/50mL	1.00
A7C0769-02	Water	EPA 200.8	03/23/17 23:40	04/05/17 08:49	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7040257							
A7C0769-01	Water	EPA 200.8 (Diss)	03/23/17 22:12	04/04/17 16:01	45mL/50mL	45mL/50mL	1.00
A7C0769-02	Water	EPA 200.8 (Diss)	03/23/17 23:40	04/04/17 16:01	45mL/50mL	45mL/50mL	1.00

Apex Laboratories



Philip Nerenberg, Lab Director

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AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: Intel Compliance
Project Number: 661M131871
Project Manager: Dan Schall

Reported:
04/10/17 17:38

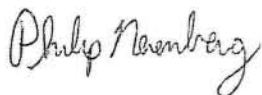
Notes and Definitions

Qualifiers:

- FILT1 Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
FILT3 This is a laboratory filtration blank, associated with filtration batch 7030977. See Prep page of report for associated samples.

Notes and Conventions:

- DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
RPD Relative Percent Difference
MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy Apex assesses blank data for potential high bias down to a level equal to $\frac{1}{2}$ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
--- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).



12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

AMEC Foster Wheeler
7376 SW Durham Road
Portland, OR 97224

Project: **Intel Compliance**
Project Number: 661M131871
Project Manager: Dan Schall

Reported:
04/10/17 17:38

[illegible]

Apex Laboratories

Philip Neenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Apex Labs

12232 S.W. Garden Place
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7376 SW Durham Road
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Project: Intel Compliance
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Project Manager: Dan Schall

Reported:
04/10/17 17:38

APEX LABS COOLER RECEIPT FORM

Client: AMEC FW Element WO#: A7 00769

Project/Project #: Label Compliance / 661M131871

Delivery info:

Date/Time Received: 3-24-17 @ 1725 By: MM

Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Inspected by: MM : 3-24-17 @ 1740

Chain of Custody Included? Yes ☒ No ☐ Custody Seals? Yes ☐ No ☒

Signed/Dated by Client? Yes ☒ No ☐

Signed/Dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>25</u>						

Received on Ice? (Y/N) (Y)

Temp. Blanks? (Y/N) (Y)

Ice Type: (Gel/Real/Other) (Gel)

Condition: 80% good

Cooler out of temp? (Y/N) (N) Possible reason why: _____

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No (NA)

Samples Inspection Inspected by: MM : 3/24/17 @ 1745

All Samples Intact? Yes ☒ No ☐ Comments: _____

Bottle Labels/COCs agree? Yes ☒ No ☐ Comments: _____

Containers/Volumes Received Appropriate for Analysis? Yes ☒ No ☐ Comments: _____

Do VOA Vials have Visible Headspace? Yes ☐ No ☐ NA ☒

Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes ☒ No ☐ NA ☐

Comments: _____

Additional Information: _____

Labeled by: _____ Witness: _____ Cooler Inspected by: MM See Project Contact Form: Y

MM
KAL

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ATTACHMENT C

Monitoring Waivers

CleanWater Services

October 16, 2015

Mckayla Garrett
Intel Corporation
5200 NE Elam Young Pkwy
MS RS5-115
Hillsboro, OR 97124

Subject: Request to Exercise Monitoring Waiver, DEQ File # 41940

Dear Mckayla:

Clean Water Services (District) received Intel Corporation's (Intel – Aloha Campus) request for a monitoring waiver for 1200-Z General Stormwater Permit (File # 41940) on October 13, 2015 for the constituent of pH at Outfall 1 (ALMP-1) and Outfall 3 (ALMP-2). Included in the request were analytical results for consecutive sampling events from December 4, 2014, February 2, 2015, March 24, 2015, and August 29, 2015 for Outfall 1 and Outfall 3. On December 4, 2014 Intel Corporation #41940 applied for and was granted a monitoring waiver for total suspended solids, total oil and grease, total lead, and total copper at Outfall 1. On June 3, 2015 Intel Corporation #41940 applied for and was granted a monitoring waiver for total suspended solids, total oil and grease, total lead, and total iron at Outfall 3.

The calculated geometric mean from the sampling was below the benchmark for the above mentioned constituents. Based on the submitted analytical results from the sampling and inspection by the District, the District approves Intel Corporation's waiver request.

There is no reduction allowed for monthly visual observations or total zinc at Outfall 1 or for monthly visual observations, total zinc and total copper at Outfall 3. Intel Corporation will need to continue monthly visual observations and pollutant sampling for total zinc at both Outfall 1 and 3 and pollutant sampling for total copper at Outfall 3.

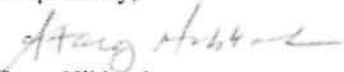
Intel Corporation must submit to the District the Discharge Monitoring Report (DMR) form/annual report by July 31st of each year that the permit is in effect. The DMR form must indicate a monitoring waiver for each parameter by placing a "W" in each appropriate column. (See note 1 on the DMR form.)

The District may revoke this waiver if:

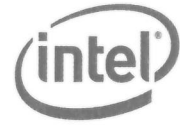
- The District determines that prior monitoring efforts used to establish the monitoring were improper or incorrect;
- The District determines that changes to the site conditions are likely to affect stormwater discharge characteristics;
- The District or permit registrant conducts additional monitoring and the sample results exceed the benchmark(s).

The District will notify Intel Corporation in writing if the monitoring waiver is revoked. If you have any questions or concerns about this or any other matter concerning stormwater, please call me at 503.681.5147.

Respectfully,


Stacy Hibbard
Source Control Investigator

cc: Ian Garner, DEQ NW Region
2550 SW Hillsboro Highway • Hillsboro, Oregon 97123
Phone: (503) 681-3600 • Fax: (503) 681-3603 • cleanwaterservices.org



ATTACHMENT D

Tier II Tier II Exceedance Reports

**Department of Environmental Quality
Industrial Stormwater Permits
Tier II Report Form**

Instructions: Fill out this form if stormwater sampling results show an exceedance of any statewide benchmark(s), sector specific benchmark(s), or reference concentration(s) for impairment pollutants identified in the permit assignment letter after Tier II is implemented. If you need additional space to answer the questions below, please attach additional sheet(s). The form must be filled out within 30 days of receiving analytical results. If no changes to the SWPCP are required, please retain this form onsite.

Date Form Prepared: 4/11/2017

Facility Name: Intel – Aloha Campus

File Number #: 41940

County: Washington

SIC Code(s): 3674

Prepared By: Matthew Brown

Phone Number: 503-639-3400

E-mail Address: matthew.brown@amecfw.com

Form is being filled out in response to Tier II exceedances:

☒ Statewide Benchmark Exceedance (list analyte(s)): Total Zinc

☐ Sector Specific Benchmark Exceedance (list analytes(s)):

☐ Impairment Pollutant Reference Concentration Exceedance (list analyte(s)):

Date Sampling Occurred: 3/23/2017

Date Lab Results Received: 4/10/2017

Describe the result(s) of the investigation of the elevated pollutant levels (Are treatment measures properly installed, maintained, and implemented?) Describe the corrective action(s) you will take to address the benchmark exceedance(s) (Is Treatment Modification Needed?):

- *Following Tier II Implementation, ALMP-1 exceeded the 0.12 mg/L benchmark for Zinc (0.137 mg/L)*
- *AT Building downspout filter units saw decreased removal efficiency due to lack of regular maintenance*

Date corrective action(s) completed or expected to be completed:

- *Resume scheduled maintenance on the downspout filter units during the rainy season – April 2017*
- *Collect and analyze sample from AT Building downspout filter units for Zinc following completion of routine maintenance – May 2017*
- *Completely change-out downspout media in all 14 AT Building downspout filter units – September 2017*

Are SWPCP or Treatment revisions necessary? ☐ Yes ☒ No

If "Yes", please describe revisions below:

All changes are within current design and SWPCP Tier II submittal and part of the continued operational testing to maintain treatment efficiency.

Please submit the revised pages of the SWPCP to DEQ or Agent, including a schedule for implementing the control measures.

