



July 20, 2018

Clean Water Services
2550 SW Hillsboro Highway
Hillsboro, Oregon 97123

Attention: Marney Jett and Joy Ramirez

Subject: **2017 – 2018 Discharge Monitoring Report (DMR)**
1200-Z General Permit: CWS File No. 112761
Intel Corporation – Ronler Acres Campus
2501 NW 229th Avenue
Hillsboro, Oregon 97124

Intel Corporation (Intel) is pleased to present this annual report and supporting documentation for the Intel Ronler Acres Campus (Site) located in Hillsboro, 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. 112761).

Attached to this letter you will find:

- 2017 – 2018 Industrial Stormwater Discharge Monitoring Report (Attachment A);
- Laboratory Analytical Reports, QA/QC, and Chain of Custodies (Attachment B);
and
- pH Field Notes (Attachment C).

It should be noted that the BOD sample for RAMP-3, collected on December 2nd, was flagged by the laboratory due to the hold time being exceeded. To mitigate this, Intel collected an additional RAMP-3 sample on December 19th for all benchmarks and BOD. Both sampling events are included in the DMR. The flagged BOD result from the December 2nd sample is not included in the DMR.

During this permit year, the final RAMP-4 compliance sample was not collected. The RAMP-4 monitoring location was newly added to Ronler's compliance sampling requirements in the latter half of 2017. The decision was made to delay the collection of the final two compliance samples until after selected BMPs were installed in an effort to treat elevated total suspended solids and metals concentrations observed during the initial two samples. The BMPs were successful in reducing analyzed concentrations from the RAMP-4 outfall for our third sample of the compliance year. Following this, rain levels in May and June that were lower compared to previous years, diminished our



opportunity for a viable fourth sample in the final third of the compliance period. The hydrodynamic characteristics of this outfall had not been observed previously, and it was unknown that the discharge at the monitoring point would cease so rapidly during the spring making it not possible to obtain the fourth sample. The relatively dry spring, coupled with an apparent high infiltration rate and rapid drawdown of the groundwater table within the RAMP-4 drainage basin, prevented discharge from occurring during the timeframe available to collect the fourth compliance sample. Attempts to sample RAMP-4 occurred after rain events once on April 28th, twice on June 8th, once on June 9th, and twice on June 10th but there was no discharge at each attempt due to insufficient rainfall coupled with rapid infiltration. There were no significant rain events in May or any chance at a collection since there was no discharge at the monitoring point. In evaluating substantially similar outfalls for RAMP-4, it was determined that due to the design of the pond, RAMP-4 would discharge before any of its substantially similar outfalls. Intel better understands the variable nature of discharge from the RAMP-4 outfall and will collect all four compliance samples during the next permit year, as well as an additional 5th sample as a good faith effort to help correct this year's omitted sample.

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: Alex Lochard, Intel Corporation
Intel EHS file



ATTACHMENT A

2017 – 2018 Industrial Stormwater Discharge Monitoring Report



Discharge Monitoring Report

1200-Z Permit

National Pollutant Discharge Elimination System Permit
Industrial Stormwater Discharge General Permit

Instructions: This report must be completed for each monitoring year, July 1 to June 30, and submitted to the appropriate DEQ regional or agent office annually by July 31st. The report must contain the results of all stormwater monitoring conducted during the year. Sample for the pollutants at monitoring location(s) specified in your SWPCP and use the monitoring location(s) number from your SWPCP. You must include the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and

Facility Information

Legal name: Intel - Ronler Acres Campus DEQ File No: 112761
Common name: Ronler Acres EPA #: Washington County OOR117204
Facility address: 2501 NW 229th Ave Monitoring Period: July 1, 2017 to June, 30, 2018
Facility City, Zip: Hillsboro 97124 Select DEQ or Agent: ☐ DEQ ☒ Clean Water Services
Geo-Region: ☐ Columbia Slough ☐ Columbia River ☐ Portland Harbor ☒ Regional ☐ City of Portland ☐ City of Eugene
2nd Geo-Region ☐ Columbia Slough ☐ Columbia River ☐ Portland Harbor ☐ Regional
Primary SIC Code: 3674 Secondary SIC Code(s): 2813

Monitoring Information

Number of discharge point(s): 7 Number of monitoring location(s): 4
If different, you certify that the facility has established either: 1) the area has no exposure of stormwater to industrial activities, or 2) the effluent is substantially similar to effluent(s) monitored and the same BMPs are implemented and

Monitoring Waiver(s) If yes list date on DEQ or Agent approval letter.

DMR Submittal Checklist

Please check all applicable documents are included with you DMR submittal:

☒ Original Signature ☒ Laboratory Reports ☒ Chain of Custody ☒ QA/QC form Lab ☒ pH field sheets

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or 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 fine and imprisonment for knowing violations (40 CFR 122.22(d)).

Signature: *Stephanie Shanley*

Date: 7-25-18

Printed Name: Stephanie Shanley

Legally Authorized Representative

Title: Oregon Environmental Manager

Email: stephanie.b.shanley@intel.com

Telephone : 503-613-5950



For official use only:

Legal Name: Intel - Ronler Acres Campus

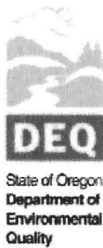
DEQ File No: 112761

Instructions: This report must be completed for each monitoring year, July 1 to June 30, and submitted to the appropriate DEQ regional or agent office annually by July 31st. The report must contain the results of all stormwater monitoring conducted during the year. Sample for the pollutants at monitoring location(s) specified in your SWPCP and use the monitoring location(s) number from your SWPCP. You must include the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and chain of custody.

Regional Benchmarks

Monitoring Location(s)	Sample Date	pH	Total Suspended Solids	Total Oil & Grease	Total Copper	Total Lead	Total Zinc	E. coli *
		s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	counts/ 100 ml
RAMP-1	11/04/17	7.20	30.0	ND (4.95)	0.0027	0.0014	0.045	
RAMP-1	12/02/17	6.80	ND (5.00)	ND (4.85)	0.0015	0.0004	0.072	
RAMP-1	03/08/18	7.10	10.0	ND (4.76)	0.0017	0.0005	0.064	
RAMP-1	04/28/18	6.90	11.0	ND (4.76)	0.0014	0.0006	0.014	
Geometric Mean			10	2	0.002	0.001	0.04	
RAMP-2	11/05/17	7.50	262.0	ND (4.95)	0.0183	0.0070	0.872	
RAMP-2	12/02/17	6.60	117.0	ND (4.90)	0.0075	0.0024	0.432	
RAMP-2	03/13/18	7.20	13.0	ND (4.72)	0.0038	0.0009	0.267	
RAMP-2	04/28/18	7.20	20.0	ND (4.85)	0.0042	0.0009	0.247	
Geometric Mean			53	2	0.007	0.002	0.40	
RAMP-3	11/04/17	7.30	ND (5.00)	ND (4.81)	0.0016	0.0005	0.400	
RAMP-3	12/02/17	6.90	12.0	ND (4.85)	0.0034	0.0010	1.020	
RAMP-3	12/19/17	6.70	47.0	ND (4.81)	0.0074	0.0027	1.420	
RAMP-3	03/08/18	7.90	33.0	ND (4.72)	0.0069	0.0020	1.010	
RAMP-3	04/28/18	6.80	21.0	ND (4.76)	0.0094	0.0022	1.390	
Geometric Mean			16	2	0.005	0.001	0.96	
RAMP-4	11/15/17	7.30	72.0	ND (4.76)	0.0098	0.0015	0.035	
RAMP-4	12/02/17	7.00	7.0	ND (5.00)	0.0015	ND (0.0002)	0.007	
RAMP-4	03/13/18	6.50	6.0	ND (4.72)	0.0011	ND (0.0002)	0.008	
RAMP-4	NS	NS	NS	NS	NS	NS	NS	
Geometric Mean			14	2	0.003	0.000	0.01	
Regional Benchmarks		5.5-9.0	100	10	0.020	0.015	0.090	406

* E. coli is only required for landfills and sewage treatment plants.



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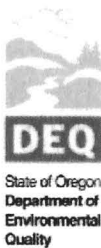
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Sector-Specific Benchmarks (see permit assignment letter for identification of required parameters)

Monitoring Location(s)	Sample Date	Iron, Total	Aluminum, Total	Nitrate + Nitrite Nitrogen	COD	BOD ₅	Ammonia	Phosphorus, Total	Arsenic, Total	Cadmium, Total
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMP-4	11/15/17	12.60	3.660	0.290						
RAMP-4	12/02/17	1.14	0.331	0.200						
RAMP-4	03/13/18	0.50	0.187	0.040						
RAMP-4	NS	NS	NS	NS						
Geometric Mean		1.9	0.61	0.13						
Geometric Mean										
Geometric Mean										
Geometric Mean										
Sector-Specific Benchmark		1.0	0.75	0.68	120	30	2.14	2.0	0.34	0.001



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Impairment Pollutants and Reference Concentrations (see permit assignment letter for identification of required parameters)

Monitoring Location(s)	Sample Date	Aldrin	Ammonia	Arsenic, Total Recoverable	BOD ₅	Cadmium, Dissolved	Chlordane	Chlorpyrifos	Chromium III, Dissolved	Copper, Dissolved
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RAMP-1	12/02/17				ND (3.55)					
RAMP-1	03/08/18				ND (2.73)					
Geometric Mean					2					
RAMP-2	12/02/17				ND (3.55)					
RAMP-2	03/13/18				2.5					
Geometric Mean					2					
RAMP-3	12/19/17				2.6					
RAMP-3	03/08/18				3.0					
Geometric Mean					3					
RAMP-4	12/02/17				ND (3.55)					
RAMP-4	03/13/18				ND (2.29)					
Geometric Mean					1					
Impairment Ref. Concentration		0.003	1.0	0.34	30	See Letter	0.0024	0.000083	See Letter	See Letter