



January 7th, 2022

Matthew Goodreau
City of Chandler Wastewater Quality Division, Mail Stop 396
PO Box 4008
Chandler, AZ 85244-4008

SUBJECT: 2nd Half 2021 Self-Monitoring Report – July – December 2021 Period
Intel Corporation - Ocotillo Campus (IUP #9)

Dear Mr. Goodreau:

Intel Corporation operates its Ocotillo Campus at 4500 S. Dobson Rd. in Chandler, AZ and holds Industrial User Permit (IUP) #9 issued by the City of Chandler for wastewater discharges. This letter provides certification of Intel Ocotillo's data, the final component of Intel's Significant Industrial User Self-Monitoring Report, as required by IUP #9 Condition III.A.3, for the second half of 2021.

The permit establishes seven Acid Waste Neutralization system (AWN) compliance points:

- IWD-1 is the Fab 12 AWN, formerly called RO-100
- IWD-2 is the Fab 12 Slurry Liquid Waste Neutralization system (SLW)
- IWD-6 is the Fab 32 AWN
- IWD-8 is the Fab 22 AWN
- IWD-10 is the Plated Acid Waste Neutralization system (PAWN)
- IWD-11 is the F42 AWN A train
- IWD-12 is the F42 AWN B train

The permit establishes three outfall compliance points:

- IWD-3 is the East Sewer Outfall (ESO)
- IWD-4 is the North Sewer Outfall (NSO)
- IWD-9 is the Main Sewer Outfall (MSO)

The following records have already been approved and submitted, and thus are not attached to this report:

- Analytical Data:
 - Summary tables for the compliance sampling and analyses conducted during the period.
- Laboratory reports:
 - Outfall Local Limits: T.A. Job 550-168236-1 (8/3/2021)
 - Federal TTO IWD 1, 2, 6, & 8: T.A. Job 550-168221-1 (8/3/2021)
 - Federal TTO IWD 10, 11, & 12: T.A. Job 550-168234-1 (8/3/2021)

The following records are attached to this report.

- pH records:
 - Summary graphs from the Facilities Monitoring System for IWD-9 (MSO)
- Flow records:
 - Summary tables from the Facilities Monitoring System for IWD-3, IWD-4, and IWD-9

Laboratory reports that have been submitted separately to the City of Chandler include the following:

- July TN & COD: TA 550-166576-1 (7/7/2021)

- August TN & COD: TA 550-168113-1 (8/2/2021)
- September TN & COD: TA 550-170273-1 (9/8/2021)
- October TN & COD: TA 550-171603-1 (10/4/2021)
- November TN & COD: TA 550-173408-1 (11/1/2021)
- December TN & COD: TA 550-175268-1 (12/6/2021)

The attached data is indicative that Intel Corporation complied with its discharge limits.

Please call or email Klaudja Taragjini at (480) 859-8451 or klaudja.taragjini@intel.com if you have any questions. Please include mail stop OC4-005 on any postal correspondence.

"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."

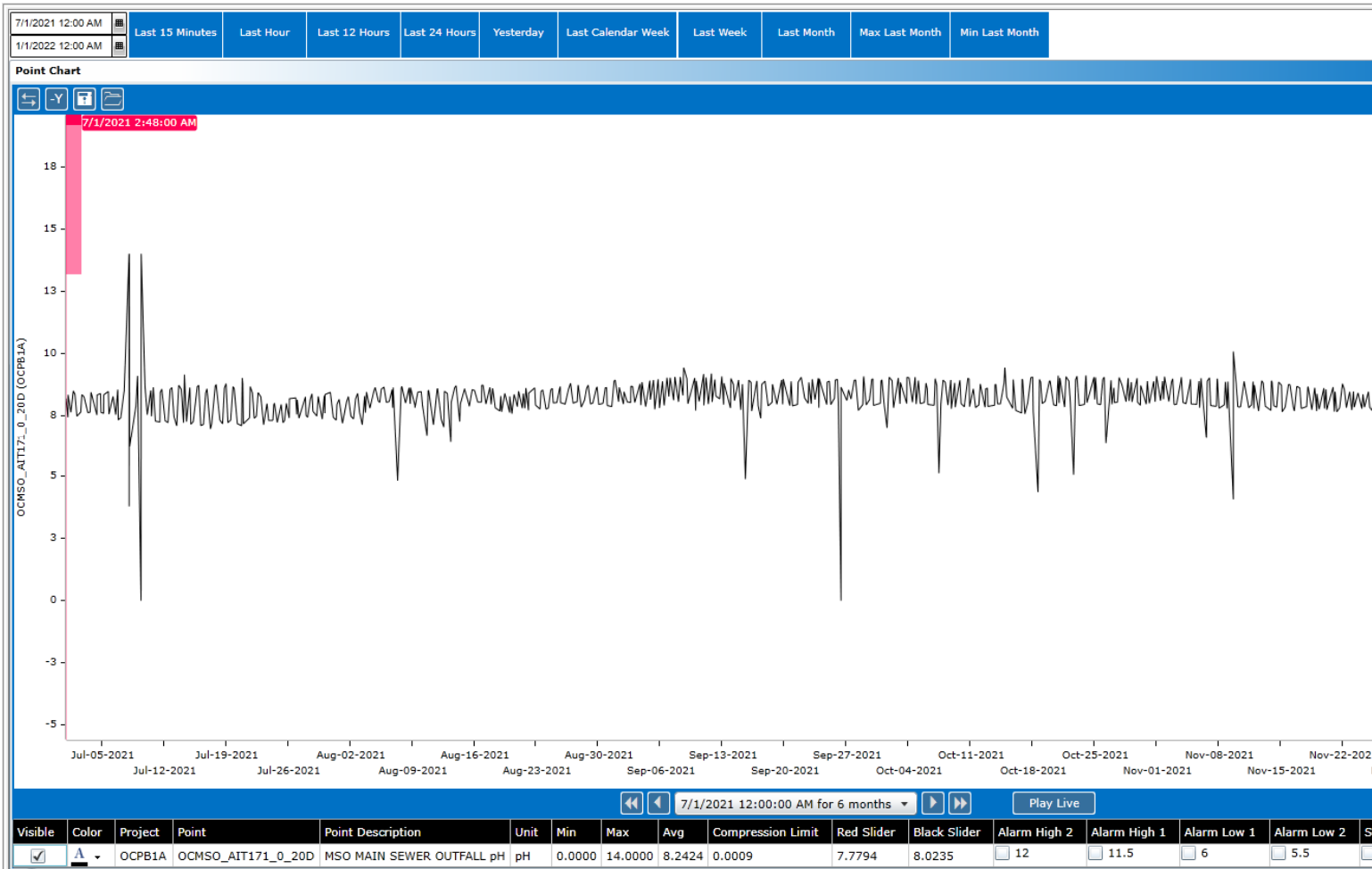
On behalf of Intel Corporation,

INTEL CORPORATION
Sean Aldrich
Corporate Services Ocotillo Site EHS Manager

Monthly SMR Results Summary

7/7/2021	July 2021 Monthly Self-Monitoring Report				8/2/2021	August 2021 Monthly Self-Monitoring Report			
Sample Location		Parameter (mg/L)		Flow (MGD)	Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD				TN	COD	
IWD-3	ESO	11	200	0.55	IWD-3	ESO	7.3	75	0.39
IWD-4	NSO	17	240	0.00413	IWD-4	NSO	18	78	0.00335
IWD-9	MSO	2.4	85	9.21	IWD-9	MSO	4.2	60	8.18
Combined Outfalls Conc.		2.9	92	9.76	Combined Outfalls Conc.		4.3	61	8.57
<i>Daily Max. Discharge Limit</i>		46.2	443	10.4	<i>Daily Max. Discharge Limit</i>		46.2	443	13.5
9/8/2021	September 2021 Monthly Self-Monitoring Report				10/4/2021	October 2021 Monthly Self-Monitoring Report			
Sample Location		Parameter (mg/L)		Flow (MGD)	Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD				TN	COD	
IWD-3	ESO	4.1	89	0.33	IWD-3	ESO	9.3	160	0.22
IWD-4	NSO	1.9	ND	0.03	IWD-4	NSO	9.0	110	0.02
IWD-9	MSO	4.5	35	7.59	IWD-9	MSO	4.7	26	7.80
Combined Outfalls Conc.		4.5	37	7.95	Combined Outfalls Conc.		4.8	30	8.04
<i>Daily Max. Discharge Limit</i>		46.2	443	13.5	<i>Daily Max. Discharge Limit</i>		46.2	443	13.5
11/1/2021	November 2021 Monthly Self-Monitoring Report				12/6/2021	December 2021 Monthly Self-Monitoring Report			
Sample Location		Parameter (mg/L)		Flow (MGD)	Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD				TN	COD	
IWD-3	ESO	10	170	0.32	IWD-3	ESO	15	180	0.22
IWD-4	NSO	9.6	90	0.02	IWD-4	NSO	9.3	75	0.01
IWD-9	MSO	5.5	72	7.89	IWD-9	MSO	4.9	48	8.07
Combined Outfalls Conc.		5.7	76	8.23	Combined Outfalls Conc.		5.2	52	8.30
<i>Daily Max. Discharge Limit</i>		46.2	443	13.5	<i>Daily Max. Discharge Limit</i>		46.2	443	13.5

H2 2021 pH Summary graphs IWD-9 (MSO) pH 1 vs Timestamp



*The above graph shows the MSO pH monitoring from 7/1/2021 to 12/31/2021. On the dates of 7/9, 8/7, 9/15, 10/7, 11/9, and 12/9, the above pH probe was calibrated. The pH probes at the MSO cannot be placed into hold mode during calibrations, so the calibrations are shown in the graph above as sharp dips. Intel has service records of these calibrations.

H2 2021 Flow Summary Tables

July 2021 Flow Summary				
Day	NSO	ESO	MSO	Site Total
7/1/2021	0.01	0.61	10.63	11.24
7/2/2021	0.01	0.62	10.72	11.34
7/3/2021	0.01	0.60	10.76	11.36
7/4/2021	0.01	0.65	10.83	11.49
7/5/2021	0.01	0.63	10.76	11.40
7/6/2021	0.00	0.57	10.54	11.11
7/7/2021	0.00	0.55	9.21	9.76
7/8/2021	0.00	0.35	8.11	8.46
7/9/2021	0.00	0.33	8.21	8.54
7/10/2021	0.00	0.31	8.32	8.64
7/11/2021	0.00	0.30	8.01	8.32
7/12/2021	0.00	0.31	7.99	8.30
7/13/2021	0.00	0.31	8.20	8.52
7/14/2021	0.01	0.33	8.53	8.87
7/15/2021	0.00	0.30	8.13	8.44
7/16/2021	0.01	0.44	8.36	8.81
7/17/2021	0.01	0.41	8.16	8.58
7/18/2021	0.01	0.38	7.99	8.37
7/19/2021	0.00	0.35	8.22	8.57
7/20/2021	0.01	0.45	8.12	8.57
7/21/2021	0.01	0.42	8.41	8.84
7/22/2021	0.01	0.42	8.54	8.97
7/23/2021	0.01	0.34	9.17	9.52
7/24/2021	0.01	0.33	9.01	9.35
7/25/2021	0.00	0.33	8.79	9.12
7/26/2021	0.01	0.39	8.42	8.81
7/27/2021	0.00	0.37	8.67	9.04
7/28/2021	0.00	0.34	8.55	8.88
7/29/2021	0.00	0.32	8.14	8.46
7/30/2021	0.00	0.36	8.47	8.83
7/31/2021	0.01	0.35	8.54	8.89
Maximum	0.01	0.65	10.83	11.49
Average	0.01	0.41	8.86	9.27

August 2021 Flow Summary				
Day	NSO	ESO	MSO	Site Total
8/1/2021	0.00	0.37	8.15	8.52
8/2/2021	0.00	0.39	8.18	8.57
8/3/2021	0.00	0.36	8.12	8.48
8/4/2021	0.00	0.38	8.03	8.41
8/5/2021	0.00	0.42	8.01	8.43
8/6/2021	0.00	0.35	7.93	8.29
8/7/2021	0.00	0.36	7.92	8.28
8/8/2021	0.00	0.37	7.91	8.29
8/9/2021	0.00	0.35	8.21	8.57
8/10/2021	0.01	0.36	8.63	8.99
8/11/2021	0.01	0.38	8.48	8.86
8/12/2021	0.00	0.36	8.09	8.45
8/13/2021	0.00	0.39	7.90	8.29
8/14/2021	0.00	0.33	8.25	8.58
8/15/2021	0.00	0.34	8.11	8.46
8/16/2021	0.01	0.35	8.03	8.38
8/17/2021	0.01	0.30	8.07	8.39
8/18/2021	0.02	0.32	8.12	8.46
8/19/2021	0.02	0.32	7.97	8.31
8/20/2021	0.02	0.40	8.40	8.83
8/21/2021	0.02	0.34	8.39	8.76
8/22/2021	0.02	0.31	8.34	8.67
8/23/2021	0.02	0.32	8.17	8.51
8/24/2021	0.02	0.33	8.71	9.07
8/25/2021	0.03	0.35	8.42	8.80
8/26/2021	0.02	0.36	7.90	8.29
8/27/2021	0.02	0.38	8.05	8.45
8/28/2021	0.02	0.37	8.06	8.45
8/29/2021	0.02	0.37	7.82	8.21
8/30/2021	0.02	0.36	7.79	8.17
8/31/2021	0.02	0.33	8.43	8.78
Maximum	0.03	0.42	8.71	9.07
Average	0.01	0.35	8.15	8.52

September 2021 Flow Summary				
Day	NSO	ESO	MSO	Site Total
9/1/2021	0.04	0.34	8.63	9.02
9/2/2021	0.07	0.38	9.13	9.58
9/3/2021	0.05	0.35	8.46	8.85
9/4/2021	0.03	0.35	7.91	8.29
9/5/2021	0.03	0.34	7.70	8.06
9/6/2021	0.03	0.36	7.88	8.26
9/7/2021	0.03	0.33	8.00	8.37
9/8/2021	0.03	0.33	7.59	7.95
9/9/2021	0.03	0.32	8.00	8.35
9/10/2021	0.03	0.28	7.95	8.26
9/11/2021	0.03	0.33	7.92	8.28
9/12/2021	0.02	0.29	8.00	8.32
9/13/2021	0.03	0.29	8.36	8.68
9/14/2021	0.03	0.31	8.22	8.56
9/15/2021	0.02	0.36	7.93	8.32
9/16/2021	0.02	0.42	7.80	8.25
9/17/2021	0.03	0.33	8.86	9.21
9/18/2021	0.03	0.32	7.92	8.27
9/19/2021	0.03	0.28	7.91	8.22
9/20/2021	0.02	0.26	7.66	7.94
9/21/2021	0.02	0.29	7.21	7.52
9/22/2021	0.03	0.27	7.92	8.22
9/23/2021	0.03	0.26	7.80	8.09
9/24/2021	0.02	0.23	7.89	8.14
9/25/2021	0.02	0.25	7.87	8.14
9/26/2021	0.03	0.21	8.21	8.44
9/27/2021	0.02	0.24	7.96	8.22
9/28/2021	0.02	0.24	7.92	8.18
9/29/2021	0.02	0.22	7.72	7.96
9/30/2021	0.03	0.20	8.21	8.44
Maximum	0.07	0.42	9.13	9.58
Average	0.03	0.30	8.02	8.35

October 2021 Flow Summary				
Day	NSO	ESO	MSO	Site Total
10/1/2021	0.02	0.21	7.97	8.20
10/2/2021	0.02	0.20	7.80	8.02
10/3/2021	0.02	0.22	7.79	8.03
10/4/2021	0.02	0.22	7.80	8.04
10/5/2021	0.03	0.25	8.28	8.56
10/6/2021	0.02	0.23	8.01	8.27
10/7/2021	0.02	0.23	7.71	7.96
10/8/2021	0.02	0.20	7.87	8.09
10/9/2021	0.02	0.19	8.29	8.50
10/10/2021	0.02	0.15	7.88	8.05
10/11/2021	0.02	0.18	7.62	7.82
10/12/2021	0.02	0.15	8.05	8.22
10/13/2021	0.04	0.17	8.91	9.12
10/14/2021	0.02	0.17	8.09	8.28
10/15/2021	0.02	0.17	7.96	8.15
10/16/2021	0.01	0.19	7.66	7.86
10/17/2021	0.02	0.20	7.54	7.76
10/18/2021	0.02	0.29	7.83	8.14
10/19/2021	0.02	0.32	7.80	8.14
10/20/2021	0.01	0.34	7.65	8.01
10/21/2021	0.02	0.36	7.60	7.97
10/22/2021	0.02	0.34	7.78	8.14
10/23/2021	0.01	0.35	7.51	7.88
10/24/2021	0.02	0.36	7.72	8.10
10/25/2021	0.01	0.37	7.48	7.87
10/26/2021	0.02	0.42	8.09	8.53
10/27/2021	0.01	0.34	7.70	8.05
10/28/2021	0.02	0.37	8.14	8.53
10/29/2021	0.02	0.29	8.02	8.33
10/30/2021	0.01	0.30	7.52	7.84
10/31/2021	0.02	0.33	7.76	8.11
Maximum	0.04	0.42	8.91	9.12
Average	0.02	0.26	7.87	8.15

November 2021 Flow Summary				
Day	NSO	ESO	MSO	Site Total
11/1/2021	0.02	0.32	7.89	8.23
11/2/2021	0.01	0.34	7.73	8.08
11/3/2021	0.02	0.45	7.75	8.22
11/4/2021	0.02	0.37	7.86	8.25
11/5/2021	0.01	0.32	7.79	8.13
11/6/2021	0.02	0.29	7.83	8.13
11/7/2021	0.02	0.28	7.60	7.89
11/8/2021	0.01	0.31	7.68	8.00
11/9/2021	0.02	0.31	8.01	8.33
11/10/2021	0.02	0.44	8.00	8.46
11/11/2021	0.02	0.44	7.94	8.40
11/12/2021	0.02	0.42	7.87	8.31
11/13/2021	0.02	0.56	7.73	8.31
11/14/2021	0.02	0.31	7.75	8.08
11/15/2021	0.02	0.45	7.63	8.10
11/16/2021	0.03	0.40	8.30	8.73
11/17/2021	0.02	0.38	8.42	8.81
11/18/2021	0.02	0.21	8.29	8.52
11/19/2021	0.02	0.15	8.20	8.36
11/20/2021	0.02	0.14	8.18	8.33
11/21/2021	0.02	0.16	8.01	8.19
11/22/2021	0.02	0.17	8.18	8.37
11/23/2021	0.02	0.20	8.31	8.53
11/24/2021	0.02	0.22	8.25	8.49
11/25/2021	0.01	0.19	7.54	7.75
11/26/2021	0.02	0.19	7.80	8.01
11/27/2021	0.01	0.21	7.77	7.99
11/28/2021	0.01	0.21	7.66	7.88
11/29/2021	0.02	0.24	7.97	8.23
11/30/2021	0.01	0.27	7.85	8.13
Maximum	0.03	0.56	8.42	8.81
Average	0.02	0.30	7.93	8.24

December 2021 Flow Summary				
Day	NSO	ESO	MSO	Site Total
12/1/2021	0.02	0.21	7.94	8.17
12/2/2021	0.02	0.22	7.81	8.05
12/3/2021	0.02	0.19	8.13	8.34
12/4/2021	0.02	0.18	7.98	8.18
12/5/2021	0.02	0.19	7.99	8.20
12/6/2021	0.01	0.22	8.07	8.30
12/7/2021	0.01	0.24	8.10	8.36
12/8/2021	0.02	0.25	8.45	8.72
12/9/2021	0.02	0.27	8.08	8.36
12/10/2021	0.02	0.21	8.38	8.61
12/11/2021	0.01	0.18	8.08	8.27
12/12/2021	0.02	0.19	7.86	8.06
12/13/2021	0.01	0.21	8.08	8.30
12/14/2021	0.02	0.42	8.41	8.85
12/15/2021	0.01	0.39	8.23	8.63
12/16/2021	0.01	0.12	8.44	8.57
12/17/2021	0.01	0.17	8.23	8.41
12/18/2021	0.01	0.20	8.06	8.28
12/19/2021	0.01	0.18	7.67	7.85
12/20/2021	0.01	0.17	8.03	8.21
12/21/2021	0.02	0.19	7.97	8.18
12/22/2021	0.01	0.21	7.79	8.01
12/23/2021	0.01	0.21	7.73	7.96
12/24/2021	0.02	0.16	8.33	8.51
12/25/2021	0.02	0.18	8.01	8.20
12/26/2021	0.01	0.20	7.85	8.06
12/27/2021	0.01	0.30	7.95	8.27
12/28/2021	0.01	0.32	7.99	8.33
12/29/2021	0.01	0.36	8.12	8.50
12/30/2021	0.01	0.38	7.97	8.36
12/31/2021	0.02	0.39	8.29	8.70
Maximum	0.02	0.42	8.45	8.85
Average	0.02	0.24	8.07	8.32