



January 11th, 2023

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

RECEIVED

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SUBJECT: 2nd Half 2023 Self-Monitoring Report – July – December 2023 Period
Intel Corporation - Ocotillo Campus (IUP #9) **By Wastewater Quality**

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 2023.

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 Fab 42 A AWN
- IWD-12 is the Fab 42 B AWN

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 submitted (report dated November 30, 2023) 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 (MSO, ESO, NSO): Eurofins Job 550-210318-1 (11/22/2023)
 - Federal TTO: Eurofins Job 550-210031-1 (11/13/2023)

The following records are attached in this report:

- pH records:
 - Summary graph 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: Eurofins Job 550-204222-1 (7/13/2023)

"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 ensure 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 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."

Sincerely,

A handwritten signature in black ink, appearing to read 'Sean Aldrich', with a long horizontal flourish extending to the right.

Sean Aldrich

Corporate Services Ocotillo Site EHS Manager

H2 2023 Monthly SMR Results Summary

7/5/2023		July 2023 Monthly Self-Monitoring Report		
Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD	
IWD-3	ESO	10.0	260	0.26
IWD-4	NSO	4.2	75	0.008
IWD-9	MSO	3.8	20	5.16
Combined Outfalls Conc.		4.1	31	5.43
<i>Daily Max. Discharge Limit</i>		46.2	443	13.5

8/7/2023		August 2023 Monthly Self-Monitoring Report		
Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD	
IWD-3	ESO	10.0	75	0.32
IWD-4	NSO	8.4	39	0.004
IWD-9	MSO	6.0	57	5.31
Combined Outfalls Conc.		6.2	58	5.63
<i>Daily Max. Discharge Limit</i>		46.2	443	13.5

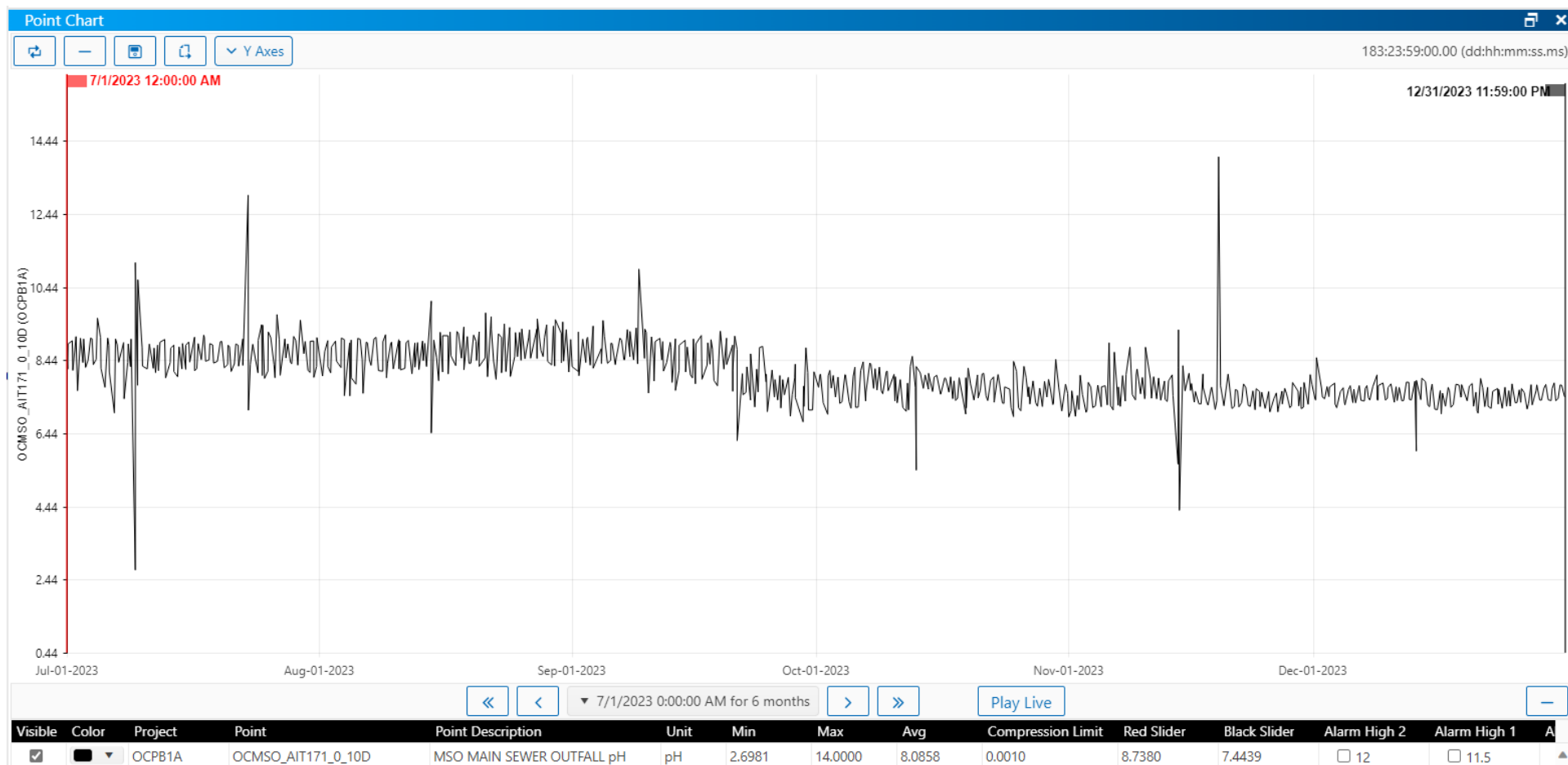
9/6/2023		September 2023 Monthly Self-Monitoring Report		
Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD	
IWD-3	ESO	9.6	180	0.30
IWD-4	NSO	14.0	110	0.003
IWD-9	MSO	9.0	46	5.64
Combined Outfalls Conc.		9.0	53	5.94
<i>Daily Max. Discharge Limit</i>		46.2	443	13.5

10/4/2023		October 2023 Monthly Self-Monitoring Report		
Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD	
IWD-3	ESO	25.0	160	0.20
IWD-4	NSO	9.7	130	0.005
IWD-9	MSO	2.9	61	6.10
Combined Outfalls Conc.		3.6	64	6.31
<i>Daily Max. Discharge Limit</i>		46.2	443	13.5

11/6/2023		November 2023 Monthly Self-Monitoring Report		
Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD	
IWD-3	ESO	15.0	190	0.21
IWD-4	NSO	1.6	30	0.005
IWD-9	MSO	4.1	52	5.82
Combined Outfalls Conc.		4.5	57	6.03
<i>Daily Max. Discharge Limit</i>		46.2	443	13.5

12/4/2023		December 2023 Monthly Self-Monitoring Report		
Sample Location		Parameter (mg/L)		Flow (MGD)
		TN	COD	
IWD-3	ESO	10.0	190	0.22
IWD-4	NSO	3.2	70	0.005
IWD-9	MSO	2.1	47	6.49
Combined Outfalls Conc.		2.4	52	6.71
<i>Daily Max. Discharge Limit</i>		46.2	443	13.5

H2 2023 pH Summary Graph IWD-9 (MSO) pH 1 vs Timestamp



*The above graph shows the MSO pH probe monitoring from 7/1/2023 to 12/31/2023. On the dates of 7/9 and 11/14, the above pH probe was calibrated. On 7/23, and 11/19 the pH sensor was replaced and/or recalibrated due to issues and inaccurate readings. A redundant, secondary pH probe showed the pH to be within permit limits during instances of inaccurate readings on the primary probe; Intel has records for each of these events. The pH probes at the MSO cannot be placed into hold mode during calibrations, so the calibrations are shown in the graph above as the sharp dips and/or spikes. Intel has service records of each of these maintenance activities.

H2 2023 Flow Summary Tables – all flows in MGD

July 2023 Flow Summary				
Day	NSO	ESO	MSO	Site Total
7/1/2023	0.0083	0.24	5.27	5.52
7/2/2023	0.0082	0.24	4.98	5.23
7/3/2023	0.0079	0.25	5.03	5.29
7/4/2023	0.0082	0.25	5.05	5.31
7/5/2023	0.0082	0.26	5.16	5.43
7/6/2023	0.0079	0.27	5.40	5.68
7/7/2023	0.0079	0.25	5.51	5.76
7/8/2023	0.0080	0.27	5.13	5.41
7/9/2023	0.0078	0.27	5.03	5.31
7/10/2023	0.0074	0.40	5.31	5.72
7/11/2023	0.0064	0.37	5.88	6.25
7/12/2023	0.0064	0.22	4.94	5.17
7/13/2023	0.0058	0.29	5.20	5.50
7/14/2023	0.0067	0.26	5.53	5.80
7/15/2023	0.0059	0.27	5.10	5.38
7/16/2023	0.0058	0.24	4.82	5.07
7/17/2023	0.0059	0.29	6.21	6.51
7/18/2023	0.0060	0.27	7.11	7.39
7/19/2023	0.0059	0.30	6.91	7.22
7/20/2023	0.0055	0.28	6.78	7.07
7/21/2023	0.0056	0.31	7.13	7.45
7/22/2023	0.0049	0.29	6.93	7.23
7/23/2023	0.0049	0.27	7.21	7.48
7/24/2023	0.0048	0.29	4.63	4.93
7/25/2023	0.0115	0.33	5.77	6.11
7/26/2023	0.0050	0.31	4.73	5.05
7/27/2023	0.0050	0.30	5.24	5.54
7/28/2023	0.0047	0.32	5.43	5.76
7/29/2023	0.0046	0.31	5.17	5.48
7/30/2023	0.0046	0.31	5.40	5.71
7/31/2023	0.0046	0.31	4.96	5.28
Maximum	0.012	0.40	7.21	7.48
Average	0.006	0.29	5.58	5.87

August 2023 Flow Summary				
Day	NSO	ESO	MSO	Site Total
8/1/2023	0.0043	0.31	5.92	6.23
8/2/2023	0.0050	0.29	5.66	5.96
8/3/2023	0.0050	0.28	4.94	5.23
8/4/2023	0.0049	0.27	5.50	5.77
8/5/2023	0.0049	0.25	5.32	5.58
8/6/2023	0.0043	0.28	5.33	5.62
8/7/2023	0.0036	0.32	5.31	5.63
8/8/2023	0.0037	0.31	5.48	5.79
8/9/2023	0.0036	0.30	5.56	5.86
8/10/2023	0.0039	0.28	5.42	5.71
8/11/2023	0.0038	0.32	5.30	5.62
8/12/2023	0.0038	0.27	5.25	5.52
8/13/2023	0.0038	0.26	5.18	5.44
8/14/2023	0.0039	0.28	5.49	5.77
8/15/2023	0.0034	0.29	5.15	5.45
8/16/2023	0.0029	0.31	5.25	5.56
8/17/2023	0.0028	0.32	5.50	5.82
8/18/2023	0.0030	0.30	5.20	5.50
8/19/2023	0.0036	0.28	5.55	5.83
8/20/2023	0.0037	0.31	5.44	5.75
8/21/2023	0.0039	0.29	5.52	5.81
8/22/2023	0.0038	0.29	5.84	6.13
8/23/2023	0.0036	0.28	5.05	5.34
8/24/2023	0.0031	0.30	4.89	5.19
8/25/2023	0.0028	0.31	5.23	5.55
8/26/2023	0.0025	0.31	5.38	5.69
8/27/2023	0.0023	0.33	5.17	5.50
8/28/2023	0.0019	0.31	5.28	5.59
8/29/2023	0.0019	0.30	4.99	5.30
8/30/2023	0.0020	0.31	4.96	5.27
8/31/2023	0.0023	0.35	5.34	5.69
Maximum	0.005	0.35	5.92	6.23
Average	0.0035	0.30	5.34	5.64

September 2023 Flow Summary				
Day	NSO	ESO	MSO	Site Total
9/1/2023	0.0036	0.29	5.84	6.13
9/2/2023	0.0033	0.32	5.74	6.06
9/3/2023	0.0031	0.28	5.34	5.63
9/4/2023	0.0030	0.28	5.25	5.53
9/5/2023	0.0031	0.27	5.33	5.60
9/6/2023	0.0001	0.30	5.64	5.94
9/7/2023	0.0001	0.33	5.34	5.67
9/8/2023	0.0001	0.30	4.95	5.25
9/9/2023	0.0020	0.32	4.95	5.27
9/10/2023	0.0019	0.30	4.88	5.19
9/11/2023	0.0021	0.28	4.93	5.22
9/12/2023	0.0024	0.33	5.39	5.72
9/13/2023	0.0029	0.32	5.27	5.59
9/14/2023	0.0027	0.31	5.30	5.61
9/15/2023	0.0026	0.27	5.17	5.44
9/16/2023	0.0025	0.28	5.06	5.34
9/17/2023	0.0023	0.27	4.94	5.21
9/18/2023	0.0024	0.27	4.77	5.05
9/19/2023	0.0025	0.23	4.89	5.12
9/20/2023	0.0026	0.23	4.54	4.77
9/21/2023	0.0026	0.27	4.65	4.92
9/22/2023	0.0026	0.22	5.16	5.38
9/23/2023	0.0024	0.25	4.93	5.18
9/24/2023	0.0023	0.23	5.10	5.34
9/25/2023	0.0061	0.25	4.95	5.20
9/26/2023	0.0072	0.25	5.19	5.44
9/27/2023	0.0072	0.25	5.86	6.11
9/28/2023	0.0071	0.26	6.82	7.09
9/29/2023	0.0071	0.24	6.59	6.83
9/30/2023	0.0066	0.23	6.19	6.42
Maximum	0.007	0.33	6.82	7.09
Average	0.003	0.27	5.30	5.58

October 2023 Flow Summary				
Day	NSO	ESO	MSO	Site Total
10/1/2023	0.0047	0.21	6.19	6.40
10/2/2023	0.0046	0.25	6.29	6.55
10/3/2023	0.0046	0.20	6.10	6.31
10/4/2023	0.0046	0.20	6.10	6.31
10/5/2023	0.0053	0.25	6.14	6.40
10/6/2023	0.0062	0.22	5.82	6.05
10/7/2023	0.0066	0.21	5.89	6.10
10/8/2023	0.0071	0.25	6.11	6.36
10/9/2023	0.0073	0.24	5.81	6.05
10/10/2023	0.0075	0.26	6.09	6.36
10/11/2023	0.0066	0.24	6.14	6.38
10/12/2023	0.0066	0.26	6.36	6.63
10/13/2023	0.0066	0.22	6.13	6.35
10/14/2023	0.0051	0.21	6.39	6.60
10/15/2023	0.0050	0.23	6.15	6.38
10/16/2023	0.0060	0.23	6.10	6.34
10/17/2023	0.0067	0.25	5.87	6.12
10/18/2023	0.0082	0.25	6.01	6.27
10/19/2023	0.0160	0.26	6.23	6.50
10/20/2023	0.0064	0.26	5.04	5.31
10/21/2023	0.0064	0.22	6.22	6.45
10/22/2023	0.0065	0.19	5.25	5.45
10/23/2023	0.0063	0.22	5.64	5.87
10/24/2023	0.0049	0.25	6.00	6.25
10/25/2023	0.0047	0.24	6.79	7.03
10/26/2023	0.0045	0.24	6.16	6.41
10/27/2023	0.0045	0.24	6.07	6.32
10/28/2023	0.0046	0.24	6.26	6.50
10/29/2023	0.0047	0.21	6.27	6.48
10/30/2023	0.0046	0.19	6.24	6.43
10/31/2023	0.0046	0.18	6.28	6.47
Maximum	0.016	0.26	6.79	7.03
Average	0.006	0.23	6.07	6.30

November 2023 Flow Summary				
Day	NSO	ESO	MSO	Site Total
11/1/2023	0.0046	0.19	5.64	5.84
11/2/2023	0.0045	0.18	6.09	6.27
11/3/2023	0.0045	0.19	6.24	6.44
11/4/2023	0.0045	0.20	6.12	6.33
11/5/2023	0.0045	0.22	5.91	6.14
11/6/2023	0.0045	0.21	5.82	6.03
11/7/2023	0.0044	0.23	6.90	7.13
11/8/2023	0.0044	0.24	8.02	8.27
11/9/2023	0.0045	0.22	8.41	8.64
11/10/2023	0.0046	0.20	8.61	8.81
11/11/2023	0.0046	0.21	8.66	8.88
11/12/2023	0.0045	0.21	8.66	8.88
11/13/2023	0.0045	0.23	8.46	8.69
11/14/2023	0.0044	0.24	8.41	8.66
11/15/2023	0.0045	0.27	8.30	8.57
11/16/2023	0.0045	0.27	8.71	8.98
11/17/2023	0.0046	0.27	8.67	8.94
11/18/2023	0.0047	0.26	8.51	8.78
11/19/2023	0.0050	0.21	8.46	8.68
11/20/2023	0.0050	0.24	7.52	7.76
11/21/2023	0.0048	0.21	6.36	6.58
11/22/2023	0.0050	0.21	6.43	6.65
11/23/2023	0.0051	0.21	6.40	6.61
11/24/2023	0.0051	0.20	6.18	6.38
11/25/2023	0.0050	0.21	6.32	6.54
11/26/2023	0.0051	0.19	6.36	6.56
11/27/2023	0.0049	0.20	6.00	6.21
11/28/2023	0.0047	0.23	6.34	6.58
11/29/2023	0.0048	0.24	6.55	6.80
11/30/2023	0.0050	0.23	6.36	6.60
Maximum	0.01	0.27	8.71	8.98
Average	0.00	0.22	7.18	7.41

December 2023 Flow Summary				
Day	NSO	ESO	MSO	Site Total
12/1/2023	0.0050	0.22	6.72	6.95
12/2/2023	0.0051	0.23	6.58	6.82
12/3/2023	0.0052	0.21	6.28	6.50
12/4/2023	0.0052	0.22	6.49	6.71
12/5/2023	0.0050	0.20	6.50	6.71
12/6/2023	0.0048	0.20	6.55	6.76
12/7/2023	0.0048	0.20	6.63	6.84
12/8/2023	0.0049	0.18	6.76	6.95
12/9/2023	0.0051	0.17	6.76	6.94
12/10/2023	0.0050	0.17	6.55	6.73
12/11/2023	0.0052	0.17	6.64	6.82
12/12/2023	0.0051	0.18	6.85	7.04
12/13/2023	0.0051	0.19	6.89	7.08
12/14/2023	0.0052	0.20	6.61	6.82
12/15/2023	0.0050	0.18	6.78	6.97
12/16/2023	0.0048	0.20	6.52	6.73
12/17/2023	0.0048	0.20	6.32	6.52
12/18/2023	0.0049	0.18	6.37	6.55
12/19/2023	0.0048	0.19	6.47	6.66
12/20/2023	0.0047	0.23	6.41	6.64
12/21/2023	0.0047	0.19	6.42	6.62
12/22/2023	0.0050	0.31	6.76	7.07
12/23/2023	0.0052	0.37	6.53	6.91
12/24/2023	0.0055	0.36	6.31	6.67
12/25/2023	0.0054	0.36	6.42	6.79
12/26/2023	0.0055	0.36	6.45	6.81
12/27/2023	0.0056	0.23	6.59	6.82
12/28/2023	0.0055	0.14	6.51	6.65
12/29/2023	0.0054	0.14	6.59	6.73
12/30/2023	0.0051	0.17	6.45	6.63
12/31/2023	0.0052	0.19	6.63	6.82
Maximum	0.006	0.37	6.89	7.08
Average	0.005	0.22	6.56	6.78