



October 20, 2020

Claire Dijak
Surface Water Quality Division
Michigan Department of EGLE
301 East Louis Glick Highway
Jackson, Michigan 49201

**Re: Monitoring Report # 281
September 1 – September 30, 2020**

Dear Ms. Dijak:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0048453, please find the enclosed Monitoring Report for the period of September 1 through September 30, 2020.

Should you have any questions or concerns regarding this report, please contact me at 269-993-7585.

Sincerely,

FLEIS & VANDENBRINK

A handwritten signature in blue ink, appearing to read "Jim Brode", is written over a light blue horizontal line.

Jim Brode, CPG
Senior Project Manager

cc: Dan Hamel, EGLE
Supervisor, Scio Twp.
City of Ann Arbor



EXTRACTION DATA

TABLE #1	-	UNIT "D2" UPGRADIENT EXTRACTION DATA
TABLE #2	-	UNIT "D2" DOWNGRADIENT EXTRACTION DATA
TABLE #3	-	CORE AREA EXTRACTION DATA
TABLE #4	-	MARSHY AREA EXTRACTION DATA
TABLE #5	-	SOUTHWEST AREA EXTRACTION DATA
TABLE #6	-	UNIT "E" EXTRACTION DATA
TABLE #7	-	LITTLE LAKE AREA SYSTEM DATA
TABLE #8	-	INDIVIDUAL PURGE WELL CONCENTRATIONS
TABLE #9	-	RED POND DATA
TABLE #10	-	RED POND CONCENTRATIONS

OZONE OPERATION DATA

TABLE #11	-	OZONE OPERATION REPORT
------------------	----------	-------------------------------

DISCHARGE DATA

TABLE #12	-	GREEN POND / DISCHARGE DATA
TABLE #13	-	DAILY DISCHARGE MONITORING REPORT

UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: Sep-20

Date	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
	HW-S	GPM	Run Hrs.	TW-9	GPM	Run Hrs.	TW-5	GPM	Run Hrs.	TW-21			GPM	Gallons
	Gallons									Gallons	Gallons	Gallons		
Tue-9/1/20	-	-	-	-	-	-	-	-	-	79,446	55	24.00	55	79,446
Wed-9/2/20	-	-	-	-	-	-	-	-	-	79,428	55	24.00	55	79,428
Thu-9/3/20	-	-	-	-	-	-	-	-	-	79,436	55	24.00	55	79,436
Fri-9/4/20	-	-	-	-	-	-	-	-	-	79,374	55	24.00	55	79,374
Sat-9/5/20	-	-	-	-	-	-	-	-	-	79,391	55	24.00	55	79,391
Sun-9/6/20	-	-	-	-	-	-	-	-	-	79,361	55	24.00	55	79,361
Mon-9/7/20	-	-	-	-	-	-	-	-	-	79,436	55	24.00	55	79,436
Tue-9/8/20	-	-	-	-	-	-	-	-	-	79,348	55	24.00	55	79,348
Wed-9/9/20	-	-	-	-	-	-	-	-	-	79,353	55	24.00	55	79,353
Thu-9/10/20	-	-	-	-	-	-	-	-	-	79,353	55	24.00	55	79,353
Fri-9/11/20	-	-	-	-	-	-	-	-	-	79,341	55	24.00	55	79,341
Sat-9/12/20	-	-	-	-	-	-	-	-	-	79,388	55	24.00	55	79,388
Sun-9/13/20	-	-	-	-	-	-	-	-	-	79,391	55	24.00	55	79,391
Mon-9/14/20	-	-	-	-	-	-	-	-	-	24,762	59	7.00	17	24,762
Tue-9/15/20	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Wed-9/16/20	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Thu-9/17/20	-	-	-	12,050	51	3.95	-	-	-	53,184	59	14.97	45	65,234
Fri-9/18/20	-	-	-	-	-	-	-	-	-	86,555	60	24.00	60	86,555
Sat-9/19/20	-	-	-	-	-	-	-	-	-	86,552	60	24.00	60	86,552
Sun-9/20/20	-	-	-	-	-	-	-	-	-	86,549	60	24.00	60	86,549
Mon-9/21/20	-	-	-	-	-	-	-	-	-	84,849	61	23.00	59	84,849
Tue-9/22/20	-	-	-	-	-	-	-	-	-	81,227	56	24.00	56	81,227
Wed-9/23/20	-	-	-	-	-	-	-	-	-	86,617	60	24.00	60	86,617
Thu-9/24/20	-	-	-	-	-	-	-	-	-	75,260	52	24.00	52	75,260
Fri-9/25/20	-	-	-	-	-	-	-	-	-	72,206	50	24.00	50	72,206
Sat-9/26/20	-	-	-	-	-	-	-	-	-	72,234	50	24.00	50	72,234
Sun-9/27/20	-	-	-	-	-	-	-	-	-	72,217	50	24.00	50	72,217
Mon-9/28/20	-	-	-	-	-	-	-	-	-	72,156	50	24.00	50	72,156
Tue-9/29/20	-	-	-	-	-	-	-	-	-	72,145	50	24.00	50	72,145
Wed-9/30/20	-	-	-	-	-	-	-	-	-	51,215	50	17.00	36	51,215
TOTALS	-	-	-	12,050	51	3.95	-	-	-	2,109,774	55	637.97	49	2,121,824

TOTAL VOLUME EXTRACTED :	2,121,824 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	49.12 GPM

9/14/20-9/17/20 - TW-21 was shut down for Red Pond cleaning, updates of the process control system, and booster pump maintenance.
 9/21/20 - TW-21 was shut down briefly for maintenance.
 9/30/20 - TW-21 was shut down due to communication loss caused by Comcast maintenance in the area.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Sep-20

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Tue-9/1/20	-	-	-	144,163	100	24.00	100	144,163
Wed-9/2/20	-	-	-	144,184	100	24.00	100	144,184
Thu-9/3/20	-	-	-	144,190	100	24.00	100	144,190
Fri-9/4/20	-	-	-	144,136	100	24.00	100	144,136
Sat-9/5/20	-	-	-	144,174	100	24.00	100	144,174
Sun-9/6/20	-	-	-	144,145	100	24.00	100	144,145
Mon-9/7/20	-	-	-	144,172	100	24.00	100	144,172
Tue-9/8/20	-	-	-	144,183	100	24.00	100	144,183
Wed-9/9/20	-	-	-	144,185	100	24.00	100	144,185
Thu-9/10/20	-	-	-	144,164	100	24.00	100	144,164
Fri-9/11/20	-	-	-	144,171	100	24.00	100	144,171
Sat-9/12/20	-	-	-	144,187	100	24.00	100	144,187
Sun-9/13/20	-	-	-	144,140	100	24.00	100	144,140
Mon-9/14/20	-	-	-	65,074	100	10.85	45	65,074
Tue-9/15/20	-	-	-	-	-	-	0	-
Wed-9/16/20	-	-	-	-	-	-	0	-
Thu-9/17/20	-	-	-	88,221	100	14.68	61	88,221
Fri-9/18/20	-	-	-	144,226	100	24.00	100	144,226
Sat-9/19/20	-	-	-	144,258	100	24.00	100	144,258
Sun-9/20/20	-	-	-	144,159	100	24.00	100	144,159
Mon-9/21/20	-	-	-	144,221	100	24.00	100	144,221
Tue-9/22/20	-	-	-	144,175	100	24.00	100	144,175
Wed-9/23/20	-	-	-	144,189	100	24.00	100	144,189
Thu-9/24/20	-	-	-	144,192	100	24.00	100	144,192
Fri-9/25/20	-	-	-	144,174	100	24.00	100	144,174
Sat-9/26/20	-	-	-	144,155	100	24.00	100	144,155
Sun-9/27/20	-	-	-	144,158	100	24.00	100	144,158
Mon-9/28/20	-	-	-	144,238	100	24.00	100	144,238
Tue-9/29/20	-	-	-	144,188	100	24.00	100	144,188
Wed-9/30/20	-	-	-	144,201	100	24.00	100	144,201
TOTALS	-	-	-	3,902,023	100	649.53	90	3,902,023

TOTAL VOLUME EXTRACTED :	3,902,023 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	90.32 GPM

9/14/20-9/17/20 - LB-4 was shut down for Red Pond cleaning, updates of the process control system, and booster pump maintenance.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: **Sep-20**

Core Area Well Extraction																		Daily	Daily	
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Tue-9/1/20	-	-	-	33,477	23	24.00	-	-	-	-	-	-	-	-	-	36,210	25	24.00	48	69,687
Wed-9/2/20	-	-	-	33,555	23	24.00	-	-	-	-	-	-	-	-	-	36,196	25	24.00	48	69,751
Thu-9/3/20	-	-	-	33,495	23	24.00	-	-	-	-	-	-	-	-	-	36,046	25	24.00	48	69,541
Fri-9/4/20	-	-	-	33,466	23	24.00	-	-	-	-	-	-	-	-	-	35,935	25	24.00	48	69,401
Sat-9/5/20	-	-	-	33,518	23	24.00	-	-	-	-	-	-	-	-	-	35,892	25	24.00	48	69,410
Sun-9/6/20	-	-	-	33,543	23	24.00	-	-	-	-	-	-	-	-	-	35,852	25	24.00	48	69,395
Mon-9/7/20	-	-	-	33,543	23	24.00	-	-	-	-	-	-	-	-	-	35,838	25	24.00	48	69,381
Tue-9/8/20	-	-	-	33,607	23	24.00	-	-	-	-	-	-	-	-	-	36,056	25	24.00	48	69,663
Wed-9/9/20	-	-	-	33,662	23	24.00	-	-	-	-	-	-	-	-	-	36,284	25	24.00	49	69,946
Thu-9/10/20	-	-	-	33,642	23	24.00	-	-	-	-	-	-	-	-	-	35,980	25	24.00	48	69,622
Fri-9/11/20	-	-	-	33,671	23	24.00	-	-	-	-	-	-	-	-	-	35,879	25	24.00	48	69,550
Sat-9/12/20	-	-	-	33,616	23	24.00	-	-	-	-	-	-	-	-	-	35,992	25	24.00	48	69,608
Sun-9/13/20	-	-	-	27,086	23	19.33	-	-	-	-	-	-	-	-	-	28,811	25	19.28	39	55,897
Mon-9/14/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tue-9/15/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wed-9/16/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thu-9/17/20	-	-	-	19,458	22	14.78	-	-	-	9,716	40	4.02	8,423	35	3.97	25,913	32	13.65	44	63,510
Fri-9/18/20	-	-	-	24,554	17	24.00	-	-	-	-	-	-	-	-	-	43,269	30	24.00	47	67,823
Sat-9/19/20	-	-	-	24,551	17	24.00	-	-	-	-	-	-	-	-	-	43,436	30	24.00	47	67,987
Sun-9/20/20	-	-	-	24,492	17	24.00	-	-	-	-	-	-	-	-	-	43,352	30	24.00	47	67,844
Mon-9/21/20	-	-	-	27,586	20	23.55	-	-	-	-	-	-	-	-	-	43,322	30	24.00	49	70,908
Tue-9/22/20	-	-	-	22,722	25	15.05	-	-	-	-	-	-	-	-	-	27,109	30	15.05	35	49,831
Wed-9/23/20	-	-	-	36,183	25	24.00	-	-	-	-	-	-	-	-	-	43,259	30	24.00	55	79,442
Thu-9/24/20	-	-	-	36,091	25	24.00	-	-	-	-	-	-	-	-	-	32,049	22	24.00	47	68,140
Fri-9/25/20	-	-	-	36,073	25	24.00	-	-	-	-	-	-	-	-	-	28,977	20	24.00	45	65,050
Sat-9/26/20	-	-	-	36,043	25	24.00	-	-	-	-	-	-	-	-	-	28,970	20	24.00	45	65,013
Sun-9/27/20	-	-	-	35,985	25	24.00	-	-	-	-	-	-	-	-	-	28,948	20	24.00	45	64,933
Mon-9/28/20	-	-	-	36,016	25	24.00	-	-	-	-	-	-	-	-	-	28,959	20	24.00	45	64,975
Tue-9/29/20	-	-	-	35,980	25	24.00	-	-	-	-	-	-	-	-	-	28,950	20	24.00	45	64,930
Wed-9/30/20	-	-	-	40,255	28	23.63	-	-	-	-	-	-	-	-	-	28,896	20	24.00	48	69,151
TOTALS	-	-	-	865,870	23	624.35	-	-	-	9,716	40	4.02	8,423	35	3.97	936,380	25	623.98	47	1,820,389

TOTAL VOLUME EXTRACTED :	1,820,389 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	42.14 GPM

9/13/20-9/17/20 - TW-2 (Dolph) and TW-20 were shut down for Red Pond cleaning, updates of the process control system, and booster pump maintenance.
 9/22/20 - TW-2 (Dolph) and TW-20 were shut down for system maintenance.

MARSHY AREA EXTRACTION DATA

Month of: **Sep-20**

Marshy Well Extraction				Daily	Daily
Date	PW-1 Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Tue-9/1/20	1,795	1	24.00	1	1,795
Wed-9/2/20	1,869	1	24.00	1	1,869
Thu-9/3/20	980	1	12.00	1	980
Fri-9/4/20	-	-	-	-	-
Sat-9/5/20	-	-	-	-	-
Sun-9/6/20	-	-	-	-	-
Mon-9/7/20	-	-	-	-	-
Tue-9/8/20	-	-	-	-	-
Wed-9/9/20	-	-	-	-	-
Thu-9/10/20	1,130	1	14.45	1	1,130
Fri-9/11/20	1,857	1	24.00	1	1,857
Sat-9/12/20	1,821	1	24.00	1	1,821
Sun-9/13/20	1,472	1	19.33	1	1,472
Mon-9/14/20	-	-	-	-	-
Tue-9/15/20	-	-	-	-	-
Wed-9/16/20	-	-	-	-	-
Thu-9/17/20	1,086	1	12.53	1	1,086
Fri-9/18/20	1,928	1	24.00	1	1,928
Sat-9/19/20	1,860	1	24.00	1	1,860
Sun-9/20/20	1,879	1	24.00	1	1,879
Mon-9/21/20	1,954	1	23.38	1	1,954
Tue-9/22/20	2,062	1	24.00	1	2,062
Wed-9/23/20	2,053	1	24.00	1	2,053
Thu-9/24/20	2,052	1	24.00	1	2,052
Fri-9/25/20	2,055	1	24.00	1	2,055
Sat-9/26/20	2,052	1	24.00	1	2,052
Sun-9/27/20	2,056	1	24.00	1	2,056
Mon-9/28/20	2,072	1	24.00	1	2,072
Tue-9/29/20	2,081	1	24.00	1	2,081
Wed-9/30/20	2,091	1	24.00	1	2,091
	-	-	-	-	-
TOTALS	38,205	1	465.70	1	38,205

TOTAL VOLUME EXTRACTED :	38,205 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	0.88 GPM

9/3/20-9/10/20 - PW-1 was shut down for pump maintenance.

9/13/20-9/17/20 - PW-1 was shut down for Red Pond cleaning, updates of the process control system, and booster pump maintenance.

SOUTHWEST AREA EXTRACTION DATA

Month of: **Sep-20**

SouthWest Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Tue-9/1/20	1,133	<1	24.00	35,861	25	24.00	26	36,994
Wed-9/2/20	1,124	<1	24.00	35,866	25	24.00	26	36,990
Thu-9/3/20	1,243	<1	23.93	36,029	25	24.00	26	37,272
Fri-9/4/20	1,207	<1	24.00	36,251	25	24.00	26	37,458
Sat-9/5/20	1,114	<1	24.00	36,260	25	24.00	26	37,374
Sun-9/6/20	1,110	<1	24.00	36,272	25	24.00	26	37,382
Mon-9/7/20	1,099	<1	24.00	36,312	25	24.00	26	37,411
Tue-9/8/20	1,090	<1	24.00	36,283	25	24.00	26	37,373
Wed-9/9/20	1,091	<1	24.00	36,255	25	24.00	26	37,346
Thu-9/10/20	1,269	<1	23.90	36,186	25	24.00	26	37,455
Fri-9/11/20	1,205	<1	24.00	36,168	25	24.00	26	37,373
Sat-9/12/20	1,112	<1	24.00	36,181	25	24.00	26	37,293
Sun-9/13/20	883	<1	19.33	29,074	25	19.33	21	29,957
Mon-9/14/20	-	-	-	-	-	-	<2	-
Tue-9/15/20	-	-	-	-	-	-	<2	-
Wed-9/16/20	-	-	-	-	-	-	<2	-
Thu-9/17/20	1,108	1	14.97	22,587	25	14.97	16	23,695
Fri-9/18/20	1,606	1	23.98	36,099	25	24.00	26	37,705
Sat-9/19/20	1,500	1	24.00	36,016	25	24.00	26	37,516
Sun-9/20/20	1,503	1	24.00	35,987	25	24.00	26	37,490
Mon-9/21/20	1,514	1	23.47	35,294	25	23.50	26	36,808
Tue-9/22/20	1,145	1	15.07	22,723	25	15.07	17	23,868
Wed-9/23/20	1,685	1	24.00	36,183	25	24.00	26	37,868
Thu-9/24/20	1,497	1	24.00	35,901	25	24.00	26	37,398
Fri-9/25/20	1,475	1	24.00	35,898	25	24.00	26	37,373
Sat-9/26/20	1,459	1	24.00	35,860	25	24.00	26	37,319
Sun-9/27/20	1,440	1	24.00	35,875	25	24.00	26	37,315
Mon-9/28/20	1,425	<1	24.00	35,893	25	24.00	26	37,318
Tue-9/29/20	1,414	<1	24.00	35,886	25	24.00	26	37,300
Wed-9/30/20	1,498	1	24.00	36,132	25	24.00	26	37,630
	-	-	-	-	-	-	-	-
TOTALS	34,949	1	624.65	939,332	25	624.87	25	974,281

TOTAL VOLUME EXTRACTED :	974,281 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	22.55 GPM

9/13/20-9/17/20 - TW-22 and TW-28 were shut down for Red Pond cleaning, updates of the process control system, and booster pump maintenance.
 9/22/20 - TW-22 and TW-28 were shut down for system maintenance.

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: Sep-20

Date	TW-11			TW-17			TW-18			TW-19			TW-23			Daily Flow GPM	Daily Total Gallons
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Tue-9/1/20	-	-	-	-	-	-	219,160	152	24.00	57,633	40	24.00	86,431	60	24.00	252	363,224
Wed-9/2/20	-	-	-	-	-	-	219,084	152	24.00	57,634	40	24.00	86,430	60	24.00	252	363,148
Thu-9/3/20	-	-	-	-	-	-	219,124	152	24.00	56,970	40	23.75	85,478	60	23.73	251	361,572
Fri-9/4/20	-	-	-	-	-	-	219,097	152	24.00	57,515	40	24.00	86,433	60	24.00	252	363,045
Sat-9/5/20	-	-	-	-	-	-	219,117	152	24.00	57,543	40	24.00	86,435	60	24.00	252	363,095
Sun-9/6/20	-	-	-	-	-	-	219,091	152	24.00	57,554	40	24.00	86,509	60	24.00	252	363,154
Mon-9/7/20	-	-	-	-	-	-	219,195	152	24.00	57,559	40	24.00	86,464	60	24.00	252	363,218
Tue-9/8/20	-	-	-	-	-	-	219,170	152	24.00	57,562	40	24.00	86,439	60	24.00	252	363,171
Wed-9/9/20	-	-	-	-	-	-	219,203	152	24.00	57,645	40	24.00	86,453	60	24.00	252	363,301
Thu-9/10/20	-	-	-	-	-	-	219,258	152	24.00	57,035	40	23.76	86,037	60	23.88	252	362,330
Fri-9/11/20	-	-	-	-	-	-	219,253	152	24.00	57,676	40	24.00	86,468	60	24.00	252	363,397
Sat-9/12/20	-	-	-	-	-	-	219,356	152	24.00	57,612	40	24.00	86,521	60	24.00	252	363,489
Sun-9/13/20	-	-	-	-	-	-	205,105	142	24.00	57,608	40	24.00	86,458	60	24.00	242	349,171
Mon-9/14/20	-	-	-	-	-	-	65,691	102	10.78	26,014	40	10.83	39,042	60	10.85	91	130,747
Tue-9/15/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Wed-9/16/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Thu-9/17/20	-	-	-	8,402	35	3.97	134,891	152	14.77	64,966	93	11.70	5,029	60	1.40	148	213,288
Fri-9/18/20	-	-	-	-	-	-	219,292	152	24.00	101,755	72	23.51	41,162	60	11.38	252	362,209
Sat-9/19/20	-	-	-	-	-	-	219,259	152	24.00	57,596	40	24.00	86,549	60	24.00	252	363,404
Sun-9/20/20	-	-	-	-	-	-	219,299	152	24.00	57,638	40	23.98	86,493	60	23.98	252	363,430
Mon-9/21/20	-	-	-	-	-	-	215,043	152	23.57	57,647	40	24.00	86,452	60	24.00	249	359,142
Tue-9/22/20	-	-	-	-	-	-	219,424	152	24.00	57,478	40	24.00	86,477	60	24.00	252	363,379
Wed-9/23/20	-	-	-	-	-	-	219,454	152	24.00	57,532	40	24.00	86,497	60	24.00	252	363,483
Thu-9/24/20	-	-	-	-	-	-	219,437	152	24.00	57,541	40	24.00	86,443	60	24.00	252	363,421
Fri-9/25/20	-	-	-	-	-	-	219,439	152	24.00	57,553	40	24.00	86,494	60	24.00	252	363,486
Sat-9/26/20	-	-	-	-	-	-	219,445	152	24.00	57,533	40	24.00	86,430	60	24.00	252	363,408
Sun-9/27/20	-	-	-	-	-	-	219,400	152	24.00	57,546	40	23.98	86,414	60	23.98	252	363,360
Mon-9/28/20	-	-	-	-	-	-	219,337	152	24.00	57,615	40	24.00	86,366	60	24.00	252	363,318
Tue-9/29/20	-	-	-	-	-	-	219,314	152	24.00	52,890	40	22.05	79,445	60	22.05	244	351,649
Wed-9/30/20	-	-	-	-	-	-	156,013	152	17.13	57,525	40	24.00	86,446	60	24.00	208	299,984
TOTALS	-	-	-	8,402	35	3.97	5,819,951	150	642.25	1,626,375	43	643.56	2,238,295	60	621.25	224	9,693,023

TOTAL VOLUME EXTRACTED :	9,693,023 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	224.38 GPM

9/14/20-9/17/20 - TW-18, TW-19, and TW-23 were shut down for Red Pond cleaning, updates of the process control system, and booster pump maintenance.
 9/18/20 - TW-23 was shut down for pump and motor replacement.
 9/29/20 - TW-19 and TW-22 were shut down due to communication loss caused by Comcast maintenance in the area.
 9/30/20 - TW-18 was shut down due to communication loss caused by Comcast maintenance in the area.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
06/01/20	54
07/08/20	25
08/04/20	23
09/01/20	38

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
06/04/20	61
07/08/20	57
08/04/20	52
09/01/20	57

Date	Gallons Purged
9/3/2020	28,000

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-09-03-20-12:00-1	09/03/20	150
DOLPH-09-18-20-09:28-1	09/18/20	140
TW-20-09-03-20-12:10-1	09/03/20	850
TW-20-09-18-20-09:15-1	09/18/20	880
LB-4-09-03-20-11:15-1	09/03/20	480
LB-4-09-18-20-09:25-1	09/18/20	500
TW-21-09-03-20-11:50-1	09/03/20	300
TW-21-09-18-20-10:15-1	09/18/20	280
TW-18-09-03-20-11:55-1	09/03/20	250
TW-18-09-18-20-10:20-1	09/18/20	250
TW-19-09-03-20-11:30-1	09/03/20	480
TW-19-09-18-20-09:20-1	09/18/20	540
TW-23-09-03-20-11:45-1	09/03/20	590
TW-23-09-18-20-14:30-1	09/18/20	420
PW-1-09-03-20-12:05-1	09/03/20	560
PW-1-09-18-20-09:30-1	09/18/20	500
TW-22-09-03-20-12:15-1	09/03/20	460
TW-22-09-18-20-09:20-1	09/18/20	400
TW-28-09-03-20-12:20-1	09/03/20	720
TW-28-09-18-20-09:23-1	09/18/20	720

RED POND DATA

Month of: **Sep-20**

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Tue-9/1/20	04:00:00.000		Y	3.7	-	24.00	483
Wed-9/2/20	04:00:00.000		Y	3.7	-	24.00	483
Thu-9/3/20	04:00:00.000		Y	3.9	-	24.00	481
Fri-9/4/20	04:00:00.000		Y	3.9	-	24.00	482
Sat-9/5/20	04:00:00.000	(1)		3.8	-	24.00	482
Sun-9/6/20	04:00:00.000	(1)		3.7	-	24.00	482
Mon-9/7/20	04:00:00.000		Y	3.7	-	24.00	482
Tue-9/8/20	04:00:00.000		Y	3.8	-	24.00	482
Wed-9/9/20	04:00:00.000		Y	3.8	-	24.00	482
Thu-9/10/20	04:00:00.000		Y	3.7	-	24.00	482
Fri-9/11/20	04:00:00.000		Y	3.8	-	24.00	483
Sat-9/12/20	04:00:00.000	(1)		3.7	-	24.00	483
Sun-9/13/20	04:00:00.000	(1)		3.1	-	24.00	458
Mon-9/14/20	04:00:00.000		Y	0.1	-	10.85	339
Tue-9/15/20	14:15:00.000		Y	-	-	-	-
Wed-9/16/20	12:30:00.000		Y	0.2	-	-	-
Thu-9/17/20	10:45:00.000		Y	2.4	-	14.97	507
Fri-9/18/20	09:00:00.000		Y	2.4	-	24.00	486
Sat-9/19/20	07:15:00.000	(1)		2.4	-	24.00	487
Sun-9/20/20	05:30:00.000	(1)		2.4	-	24.00	487
Mon-9/21/20	04:00:00.000		Y	3.3	-	24.00	485
Tue-9/22/20	04:00:00.000		Y	4.2	-	24.00	461
Wed-9/23/20	04:00:00.000		Y	4.9	-	24.00	496
Thu-9/24/20	04:00:00.000		Y	5.3	-	24.00	479
Fri-9/25/20	04:00:00.000		Y	5.2	-	24.00	475
Sat-9/26/20	04:00:00.000	(1)		5.1	-	24.00	475
Sun-9/27/20	04:00:00.000	(1)		4.9	-	24.00	475
Mon-9/28/20	04:00:00.000		Y	4.8	-	24.00	475
Tue-9/29/20	09:30:00.000		Y	3.8	-	24.00	467
Wed-9/30/20	07:45:00.000		Y	4.3	-	24.00	420
				-	-	-	-
TOTALS			-	-	-	650	-

Daily readings are collected by the Operator at various times of the day, resulting in varied readings and calculations.

(1) Manual readings were not taken due to weekend and/or holiday.

TABLE #10

RED POND CONCENTRATIONS

Concentrations of 1,4-Dioxane found in the Red Pond

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
Red Pond-09-08-20-08:45-1	9/8/2020	380
Red Pond-09-14-20-10:00-1	9/14/2020	370
Red Pond-09-18-20-10:25-1	9/18/2020	420
Red Pond-09-21-20-08:45-1	9/21/2020	380
Red Pond-09-23-20-10:00-1	9/23/2020	370
Red Pond-09-28-20-09:50-1	9/28/2020	380

Analyte value quantified from a dilution, reporting limit is raised to reflect dilution

OZONE OPERATION REPORT

Month of: Sep-20

Date	Time	Notes	SYSTEM-1A		SYSTEM-1B		SYSTEM-2A		SYSTEM-2B	
			Flow GPM	Run Hours	Flow GPM	Run Hours	Flow GPM	Run Hours	Flow GPM	Run Hours
Tue-9/1/20	04:00:00.000		240	24.00	0	0.00	239	24.00	0	0.00
Wed-9/2/20	04:00:00.000		241	24.00	0	0.00	240	24.00	0	0.00
Thu-9/3/20	04:00:00.000		240	24.00	0	0.00	240	24.00	0	0.00
Fri-9/4/20	04:00:00.000		240	24.00	0	0.00	240	24.00	0	0.00
Sat-9/5/20	04:00:00.000	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-9/6/20	04:00:00.000	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-9/7/20	04:00:00.000		241	24.00	0	0.00	240	24.00	0	0.00
Tue-9/8/20	04:00:00.000		240	24.00	0	0.00	240	24.00	0	0.00
Wed-9/9/20	04:00:00.000		241	24.00	0	0.00	239	24.00	0	0.00
Thu-9/10/20	04:00:00.000		241	24.00	0	0.00	240	24.00	0	0.00
Fri-9/11/20	04:00:00.000		241	23.87	0	0.00	240	23.83	0	0.00
Sat-9/12/20	04:00:00.000	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Sun-9/13/20	04:00:00.000	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-9/14/20	04:00:00.000		240	13.17	0	0.00	241	12.15	0	0.00
Tue-9/15/20	14:15:00.000		0	-	0	0.00	0	-	0	0.00
Wed-9/16/20	12:30:00.000		0	-	0	0.00	0	-	0	0.00
Thu-9/17/20	10:45:00.000		240	7.37	0	0.00	241	8.23	0	0.00
Fri-9/18/20	09:00:00.000		239	24.00	0	0.00	240	23.47	0	0.00
Sat-9/19/20	07:15:00.000	(1)	240	24.00	0	0.00	242	24.00	0	0.00
Sun-9/20/20	05:30:00.000	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-9/21/20	04:00:00.000		241	22.90	0	0.00	240	21.77	0	0.00
Tue-9/22/20	04:00:00.000		240	24.00	0	0.00	240	16.43	0	0.00
Wed-9/23/20	04:00:00.000		240	24.00	0	0.00	240	24.00	0	0.00
Thu-9/24/20	04:00:00.000		240	24.00	0	0.00	240	24.00	0	0.00
Fri-9/25/20	04:00:00.000		240	24.00	0	0.00	243	24.00	0	0.00
Sat-9/26/20	04:00:00.000	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Sun-9/27/20	04:00:00.000	(1)	241	24.00	0	0.00	243	23.98	0	0.00
Mon-9/28/20	04:00:00.000		240	24.00	0	0.00	244	24.00	0	0.00
Tue-9/29/20	09:30:00.000		240	24.00			243	24.00		
Wed-9/30/20	07:45:00.000		240	24.00			243	24.00		

Daily readings are collected by the Operator at various times of the day, resulting in varied readings and calculations.

(1) Manual readings were not taken due to weekend and/or holiday.

9/14/20-9/17/20 - Treatment was shut down for Red Pond cleaning, updates of the process control system, and booster pump maintenance.

9/21/20 - Treatment was shut down for system maintenance.

9/22/20 - System 2A was shut down for system maintenance.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: Sep-20

			Green Pond																	
Date	Time	Notes	Pond			Influent			Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours		
Tue-9/1/20	04:00:00.000		Y	-	-	-	-	-	-	498	716,803	24.00	-	-	-	-	-	-		
Wed-9/2/20	04:00:00.000		Y	-	-	-	-	-	-	498	716,811	24.00	-	-	-	-	-	-		
Thu-9/3/20	04:00:00.000		Y	-	-	-	-	-	-	498	716,795	24.00	-	-	-	-	-	-		
Fri-9/4/20	04:00:00.000		Y	-	-	-	-	-	-	498	716,782	24.00	-	-	-	-	-	-		
Sat-9/5/20	04:00:00.000	(1)		-	-	-	-	-	-	498	716,785	24.00	-	-	-	-	-	-		
Sun-9/6/20	04:00:00.000	(1)		-	-	-	-	-	-	498	716,722	24.00	-	-	-	-	-	-		
Mon-9/7/20	04:00:00.000		Y	-	-	-	-	-	-	498	716,704	24.00	-	-	-	-	-	-		
Tue-9/8/20	04:00:00.000		Y	-	-	-	-	-	-	498	716,547	24.00	-	-	-	-	-	-		
Wed-9/9/20	04:00:00.000		Y	-	-	-	-	-	-	498	716,424	24.00	-	-	-	-	-	-		
Thu-9/10/20	04:00:00.000		Y	-	-	-	-	-	-	497	716,398	24.00	-	-	-	-	-	-		
Fri-9/11/20	04:00:00.000		Y	-	-	-	-	-	-	490	705,746	24.00	-	-	-	-	-	-		
Sat-9/12/20	04:00:00.000	(1)		-	-	-	-	-	-	498	716,751	24.00	-	-	-	-	-	-		
Sun-9/13/20	04:00:00.000	(1)		-	-	-	-	-	-	498	717,209	24.00	-	-	-	-	-	-		
Mon-9/14/20	04:00:00.000		Y	-	-	-	-	-	-	476	375,408	13.13	-	-	-	-	-	-		
Tue-9/15/20	14:15:00.000		Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Wed-9/16/20	12:30:00.000		Y	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-		
Thu-9/17/20	10:45:00.000		Y	-	-	-	-	-	-	484	211,717	7.28	-	-	-	-	-	-		
Fri-9/18/20	09:00:00.000		Y	-	-	-	-	-	-	489	703,954	24.00	-	-	-	-	-	-		
Sat-9/19/20	07:15:00.000	(1)		-	-	-	-	-	-	497	715,426	24.00	-	-	-	-	-	-		
Sun-9/20/20	05:30:00.000	(1)		-	-	-	-	-	-	497	715,482	24.00	-	-	-	-	-	-		
Mon-9/21/20	04:00:00.000		Y	-	-	-	-	-	-	490	670,625	22.82	-	-	-	-	-	-		
Tue-9/22/20	04:00:00.000		Y	-	-	-	-	-	-	405	582,528	24.00	-	-	-	-	-	-		
Wed-9/23/20	04:00:00.000		Y	-	-	-	-	-	-	497	715,661	24.00	-	-	-	-	-	-		
Thu-9/24/20	04:00:00.000		Y	-	-	-	-	-	-	497	715,645	24.00	-	-	-	-	-	-		
Fri-9/25/20	04:00:00.000		Y	-	-	-	-	-	-	497	715,828	24.00	-	-	-	-	-	-		
Sat-9/26/20	04:00:00.000	(1)		-	-	-	-	-	-	497	715,849	24.00	-	-	-	-	-	-		
Sun-9/27/20	04:00:00.000	(1)		-	-	-	-	-	-	497	715,933	24.00	-	-	-	-	-	-		
Mon-9/28/20	04:00:00.000		Y	-	-	-	-	-	-	497	715,813	24.00	-	-	-	-	-	-		
Tue-9/29/20	09:30:00.000		Y	-	-	-	-	-	-	497	715,598	24.00	-	-	-	-	-	-		
Wed-9/30/20	07:45:00.000		Y	-	-	-	-	-	-	497	715,618	24.00	-	-	-	-	-	-		
			Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTALS												19,007.563	643							

Daily readings are collected by the Operator at various times of the day, resulting in varied readings and calculations.

(1) Manual readings were not taken due to weekend and/or holiday.

TABLE #13
Daily Discharge Monitoring Report

	(Daily)	Quarterly	(Effluent - Outfall)	(Influent - Red Pond)	(Effluent - Outfall)	(Effluent - Outfall)	(Weekly)	(2 x Week)	(4 x Week)	(4 x Week)	(5 X Week)	(2 X Week)	
PARAMETER NAME	Flow	Total Barium	Total Barium	1,4-Dioxane	1,4-Dioxane	Hydrogen Peroxide	Hydrogen Peroxide	Outfall Observation	Equipment Inspection	pH (Min. Daily)	pH (Max. Daily)	Bromate	Sodium Bisulfite Dose Rate
PARAMETER CODE	50050	1007	1007	82388	82388	00139	00139	84130	46478	00400	00400	99814	99798
MONITORING PT.	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE CODE	1	1	1	1	G	1	1	1	1	1	1	1	1
UNIT	MGD	ug/l	lbs/day	ug/l	mg/l	ug/l	lbs/day	yes/no	yes/no	S.U.	S.U.	ug/l	mg/l
9/1/2020	0.717	*G	*G	4.4		<50	<0.16	no	no	7.1	7.1	8.8	54
9/2/2020	0.717			3.8		<50	<0.16	no	yes	7.1	7.1	9.2	
9/3/2020	0.717			6.5		<50	<0.16	no	no	7.1	7.1	5.6	
9/4/2020	0.717					<50	<0.16	no	no	7.1	7.1		
9/5/2020	0.717												
9/6/2020	0.717												
9/7/2020	0.717			6.5								7.9	
9/8/2020	0.717			4.9	0.380	<50	<0.16	yes	yes	7.1	7.1	8.1	44
9/9/2020	0.716			5.7		<50	<0.16	no	no	7.1	7.1	5.1	
9/10/2020	0.716			6.0		<50	<0.16	no	yes	7.1	7.1	6.4	44
9/11/2020	0.706			5.2		<50	<0.16	no	no	7.0	7.0	7.1	
9/12/2020	0.717												
9/13/2020	0.717			5.2								7.1	
9/14/2020	0.375				0.370	<50	<0.16	yes	yes	7.1	7.1		66
9/15/2020	0.000					0	0	no	no				
9/16/2020	0.000					0	0	no	no				
9/17/2020	0.212			7.3		<50	<0.16	no	no			5.7	
9/18/2020	0.704				0.420	<50	<0.16	no	yes	7.1	7.1		58
9/19/2020	0.715												
9/20/2020	0.715			5.9								9.0	
9/21/2020	0.671			6.1	0.380	<50	<0.16	yes	yes	7.2	7.2	8.3	56
9/22/2020	0.583			5.4		<50	<0.16	no	no	7.1	7.1	7.0	
9/23/2020	0.716			6.0	0.370	<50	<0.16	no	yes	7.1	7.1	7.6	62
9/24/2020	0.716			4.7		<50	<0.16	no	no	7.1	7.1	8.0	
9/25/2020	0.716					<50	<0.16	no	no	7.1	7.1		
9/26/2020	0.716												
9/27/2020	0.716			5.5								7.1	
9/28/2020	0.716			4.9	0.380	<50	<0.16	yes	yes	7.1	7.1	7.6	38
9/29/2020	0.716			4.9		<50	<0.16	no	no	7.0	7.0	8.6	
9/30/2020	0.716			6.2		<50	<0.16	no	yes	7.1	7.1	8.3	36
Discharged	19.008												
Monthly Avg				5.5								7.5	