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December 12, 2017

Jeff Surfus  
Surface Water Quality Division  
Michigan Department of Environmental Quality  
301 East Louis Glick Highway  
Jackson, Michigan 49201

**Re: Monitoring Report # 247  
November 1 – November 30, 2017**

Dear Mr. Surfus:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0048453, please find the enclosed Monitoring Report for the period of November 1 through November 30, 2017.

Should you have any questions or concerns regarding this report, please contact me at 386-562-0176.

Sincerely,

A handwritten signature in blue ink that reads "Lawrence J. Gelb".

Lawrence J. Gelb  
Sr. Director Global EHS

cc: Dan Hamel, MDEQ  
Supervisor, Scio Twp.  
Matthew Naud, City of Ann Arbor

**EXTRACTION DATA**

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**UNIT D2 UPGRADIENT EXTRACTION DATA**

**Month of: Nov-17**

Date	TW-21			Daily Flow	Daily Total
	TW-21			GPM	Gallons
	Gallons	GPM	Run Hrs.		
Wed-11/1/17	86,315	60	24.00	60	86,315
Thu-11/2/17	86,379	60	24.00	60	86,379
Fri-11/3/17	86,352	60	24.00	60	86,352
Sat-11/4/17	86,366	60	24.00	60	86,366
Sun-11/5/17	86,432	60	24.00	60	86,432
Mon-11/6/17	86,341	60	24.00	60	86,341
Tue-11/7/17	86,358	60	24.00	60	86,358
Wed-11/8/17	81,923	57	24.00	57	81,923
Thu-11/9/17	79,161	55	24.00	55	79,161
Fri-11/10/17	79,107	55	24.00	55	79,107
Sat-11/11/17	79,145	55	24.00	55	79,145
Sun-11/12/17	79,163	55	24.00	55	79,163
Mon-11/13/17	82,286	57	24.00	57	82,286
Tue-11/14/17	86,382	60	24.00	60	86,382
Wed-11/15/17	86,319	60	24.00	60	86,319
Thu-11/16/17	86,333	60	24.00	60	86,333
Fri-11/17/17	86,364	60	24.00	60	86,364
Sat-11/18/17	86,404	60	24.00	60	86,404
Sun-11/19/17	86,373	60	24.00	60	86,373
Mon-11/20/17	86,412	60	24.00	60	86,412
Tue-11/21/17	44,538	57	12.93	31	44,538
Wed-11/22/17	79,212	55	24.00	55	79,212
Thu-11/23/17	79,206	55	24.00	55	79,206
Fri-11/24/17	79,246	55	24.00	55	79,246
Sat-11/25/17	79,279	55	24.00	55	79,279
Sun-11/26/17	79,216	55	24.00	55	79,216
Mon-11/27/17	84,155	58	24.00	58	84,155
Tue-11/28/17	86,434	60	24.00	60	86,434
Wed-11/29/17	86,387	60	24.00	60	86,387
Thu-11/30/17	86,348	60	24.00	60	86,348
<b>TOTALS</b>	<b>2,473,936</b>	<b>58</b>	<b>708.93</b>	<b>57</b>	<b>2,473,936</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>2,473,936 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>57.27 GPM</b>

11/21/17 - TW-21 was shut down for maintenance.



Life Sciences

TABLE #2

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Nov-17

Date	LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Wed-11/1/17	144,188	100	24.00	100	144,188
Thu-11/2/17	144,184	100	24.00	100	144,184
Fri-11/3/17	144,238	100	24.00	100	144,238
Sat-11/4/17	133,989	100	22.31	93	133,989
Sun-11/5/17	144,192	100	24.00	100	144,192
Mon-11/6/17	144,219	100	24.00	100	144,219
Tue-11/7/17	144,207	100	24.00	100	144,207
Wed-11/8/17	144,233	100	24.00	100	144,233
Thu-11/9/17	144,199	100	24.00	100	144,199
Fri-11/10/17	144,212	100	24.00	100	144,212
Sat-11/11/17	144,199	100	24.00	100	144,199
Sun-11/12/17	144,162	100	24.00	100	144,162
Mon-11/13/17	144,128	100	24.00	100	144,128
Tue-11/14/17	144,167	100	24.00	100	144,167
Wed-11/15/17	144,205	100	24.00	100	144,205
Thu-11/16/17	144,206	100	24.00	100	144,206
Fri-11/17/17	144,184	100	24.00	100	144,184
Sat-11/18/17	144,201	100	24.00	100	144,201
Sun-11/19/17	144,189	100	24.00	100	144,189
Mon-11/20/17	144,197	100	24.00	100	144,197
Tue-11/21/17	90,904	100	15.13	63	90,904
Wed-11/22/17	137,803	100	22.93	96	137,803
Thu-11/23/17	144,247	100	24.00	100	144,247
Fri-11/24/17	144,174	100	24.00	100	144,174
Sat-11/25/17	144,189	100	24.00	100	144,189
Sun-11/26/17	144,215	100	24.00	100	144,215
Mon-11/27/17	144,183	100	24.00	100	144,183
Tue-11/28/17	144,216	100	24.00	100	144,216
Wed-11/29/17	144,227	100	24.00	100	144,227
Thu-11/30/17	144,213	100	24.00	100	144,213
<b>TOTALS</b>	<b>4,256,070</b>	<b>100</b>	<b>708.37</b>	<b>99</b>	<b>4,256,070</b>

TOTAL VOLUME EXTRACTED :	4,256,070 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	98.52 GPM

11/04/17 - LB-4 was shut down briefly due to a DTE Energy power loss in the area.  
 11/21/17 - 11/22/17 - LB-4 was shut down for maintenance.

**CORE AREA EXTRACTION DATA**

Month of: **Nov-17**

Core Area Well Extraction							Daily	Daily
Date	TW-2 (Dolph)			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-11/1/17	29,384	20	24.00	42,936	30	24.00	50	72,320
Thu-11/2/17	29,411	20	24.00	42,914	30	24.00	50	72,325
Fri-11/3/17	29,394	20	24.00	42,876	30	24.00	50	72,270
Sat-11/4/17	29,395	20	24.00	42,983	30	24.00	50	72,378
Sun-11/5/17	29,391	20	24.00	43,265	30	24.00	50	72,656
Mon-11/6/17	29,362	20	24.00	43,451	30	24.00	51	72,813
Tue-11/7/17	29,399	20	24.00	43,732	30	24.00	51	73,131
Wed-11/8/17	28,721	20	24.00	43,664	30	24.00	50	72,385
Thu-11/9/17	28,694	20	24.00	43,652	30	24.00	50	72,346
Fri-11/10/17	27,826	19	24.00	43,558	30	24.00	50	71,384
Sat-11/11/17	26,636	18	24.00	43,457	30	24.00	49	70,093
Sun-11/12/17	26,938	19	24.00	43,408	30	24.00	49	70,346
Mon-11/13/17	27,104	19	24.00	43,348	30	24.00	49	70,452
Tue-11/14/17	27,227	19	24.00	43,294	30	24.00	49	70,521
Wed-11/15/17	27,342	19	24.00	43,097	30	24.00	49	70,439
Thu-11/16/17	27,429	19	24.00	43,190	30	24.00	49	70,619
Fri-11/17/17	27,536	19	24.00	43,046	30	23.98	49	70,582
Sat-11/18/17	27,553	19	24.00	43,073	30	24.00	49	70,626
Sun-11/19/17	27,187	19	24.00	43,395	30	24.00	49	70,582
Mon-11/20/17	25,602	18	24.00	43,068	30	24.00	48	68,670
Tue-11/21/17	25,882	18	24.00	23,175	30	12.90	34	49,057
Wed-11/22/17	25,611	18	24.00	43,055	30	24.00	48	68,666
Thu-11/23/17	24,160	17	24.00	42,951	30	24.00	47	67,111
Fri-11/24/17	24,562	17	24.00	43,469	30	24.00	47	68,031
Sat-11/25/17	24,880	17	24.00	43,527	30	24.00	48	68,407
Sun-11/26/17	24,592	17	24.00	43,466	30	24.00	47	68,058
Mon-11/27/17	24,738	17	24.00	43,564	30	24.00	47	68,302
Tue-11/28/17	24,999	17	24.00	43,522	30	24.00	48	68,521
Wed-11/29/17	25,165	17	24.00	43,481	30	24.00	48	68,646
Thu-11/30/17	25,316	18	24.00	43,334	30	24.00	48	68,650
<b>TOTALS</b>	<b>811,436</b>	<b>19</b>	<b>720.00</b>	<b>1,278,951</b>	<b>30</b>	<b>708.88</b>	<b>48</b>	<b>2,090,387</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>2,090,387 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>48.39 GPM</b>

11/21/17 - TW-20 was shut down for maintenance.

**MARSHY AREA EXTRACTION DATA**

**Month of: Nov-17**

Marshy Well Extraction				Daily Flow	Daily Total
Date	PW-1 Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-11/1/17	3,348	2	24.00	2	3,348
Thu-11/2/17	3,292	2	24.00	2	3,292
Fri-11/3/17	3,320	2	24.00	2	3,320
Sat-11/4/17	3,299	2	24.00	2	3,299
Sun-11/5/17	3,265	2	24.00	2	3,265
Mon-11/6/17	3,264	2	24.00	2	3,264
Tue-11/7/17	3,263	2	24.00	2	3,263
Wed-11/8/17	3,274	2	24.00	2	3,274
Thu-11/9/17	3,287	2	24.00	2	3,287
Fri-11/10/17	3,318	2	24.00	2	3,318
Sat-11/11/17	3,333	2	24.00	2	3,333
Sun-11/12/17	3,329	2	24.00	2	3,329
Mon-11/13/17	3,336	2	24.00	2	3,336
Tue-11/14/17	3,346	2	24.00	2	3,346
Wed-11/15/17	3,392	2	24.00	2	3,392
Thu-11/16/17	3,400	2	24.00	2	3,400
Fri-11/17/17	3,424	2	24.00	2	3,424
Sat-11/18/17	3,413	2	24.00	2	3,413
Sun-11/19/17	3,460	2	24.00	2	3,460
Mon-11/20/17	3,477	2	24.00	2	3,477
Tue-11/21/17	1,897	3	12.47	1	1,897
Wed-11/22/17	3,560	2	24.00	2	3,560
Thu-11/23/17	3,614	3	24.00	3	3,614
Fri-11/24/17	3,639	3	24.00	3	3,639
Sat-11/25/17	3,597	2	24.00	2	3,597
Sun-11/26/17	3,607	3	24.00	3	3,607
Mon-11/27/17	3,612	3	24.00	3	3,612
Tue-11/28/17	3,640	3	24.00	3	3,640
Wed-11/29/17	3,641	3	24.00	3	3,641
Thu-11/30/17	3,641	3	24.00	3	3,641
<b>TOTALS</b>	<b>101,288</b>	<b>2</b>	<b>708.47</b>	<b>2</b>	<b>101,288</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>101,288 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>2.34 GPM</b>

11/21/17 - PW-1 was shut down for maintenance.

**SOUTHWEST AREA EXTRACTION DATA**

Month of: **Nov-17**

SouthWest Well Extraction				Daily	Daily
Date	ACTIVE WELLS			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-11/1/17	29,345	20	24.00	20	29,345
Thu-11/2/17	29,398	20	24.00	20	29,398
Fri-11/3/17	29,428	20	24.00	20	29,428
Sat-11/4/17	29,511	20	24.00	20	29,511
Sun-11/5/17	29,541	21	24.00	21	29,541
Mon-11/6/17	29,563	21	24.00	21	29,563
Tue-11/7/17	29,607	21	24.00	21	29,607
Wed-11/8/17	29,652	21	24.00	21	29,652
Thu-11/9/17	29,688	21	24.00	21	29,688
Fri-11/10/17	29,691	21	24.00	21	29,691
Sat-11/11/17	29,731	21	24.00	21	29,731
Sun-11/12/17	29,745	21	24.00	21	29,745
Mon-11/13/17	29,770	21	24.00	21	29,770
Tue-11/14/17	29,791	21	24.00	21	29,791
Wed-11/15/17	29,831	21	24.00	21	29,831
Thu-11/16/17	29,805	21	24.00	21	29,805
Fri-11/17/17	29,819	21	24.00	21	29,819
Sat-11/18/17	29,828	21	24.00	21	29,828
Sun-11/19/17	29,798	21	24.00	21	29,798
Mon-11/20/17	29,825	21	24.00	21	29,825
Tue-11/21/17	15,638	21	12.48	11	15,638
Wed-11/22/17	30,356	21	24.00	21	30,356
Thu-11/23/17	30,441	21	24.00	21	30,441
Fri-11/24/17	30,455	21	24.00	21	30,455
Sat-11/25/17	30,397	21	24.00	21	30,397
Sun-11/26/17	30,366	21	24.00	21	30,366
Mon-11/27/17	30,388	21	24.00	21	30,388
Tue-11/28/17	30,370	21	24.00	21	30,370
Wed-11/29/17	30,346	21	24.00	21	30,346
Thu-11/30/17	30,356	21	24.00	21	30,356
<b>TOTALS</b>	<b>882,480</b>	<b>21</b>	<b>708.48</b>	<b>20</b>	<b>882,480</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>882,480 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>20.43 GPM</b>

Note: ACTIVE WELLS = TW-8, TW-22

11/21/17 - Southwest extraction was shut down for maintenance.

**UNIT "E" EXTRACTION DATA**

**Month of: Nov-17**

Date	TW-18			TW-19			TW-23			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Wed-11/1/17	226,655	157	24.00	45,614	32	24.00	99,332	69	24.00	258	371,601
Thu-11/2/17	226,675	157	24.00	45,232	31	24.00	99,324	69	24.00	258	371,231
Fri-11/3/17	226,628	157	24.00	44,871	31	24.00	99,274	69	24.00	257	370,773
Sat-11/4/17	227,996	158	24.00	41,302	31	22.30	91,970	69	22.20	251	361,268
Sun-11/5/17	233,912	162	24.00	44,262	31	24.00	99,270	69	24.00	262	377,444
Mon-11/6/17	233,920	162	24.00	44,258	31	24.00	99,238	69	24.00	262	377,416
Tue-11/7/17	229,633	159	24.00	44,278	31	24.00	99,381	69	24.00	259	373,292
Wed-11/8/17	226,653	157	24.00	44,286	31	24.00	99,455	69	24.00	257	370,394
Thu-11/9/17	226,695	157	24.00	44,315	31	24.00	99,457	69	24.00	257	370,467
Fri-11/10/17	226,696	157	24.00	44,208	31	24.00	99,349	69	24.00	257	370,253
Sat-11/11/17	226,708	157	24.00	43,931	31	24.00	99,405	69	24.00	257	370,044
Sun-11/12/17	226,715	157	24.00	44,095	31	24.00	99,380	69	24.00	257	370,190
Mon-11/13/17	226,726	157	24.00	44,118	31	24.00	99,342	69	24.00	257	370,186
Tue-11/14/17	226,687	157	24.00	44,100	31	24.00	99,318	69	24.00	257	370,105
Wed-11/15/17	226,746	157	24.00	44,122	31	24.00	99,357	69	24.00	257	370,225
Thu-11/16/17	226,720	157	24.00	44,109	31	24.00	99,266	69	24.00	257	370,095
Fri-11/17/17	226,720	158	23.98	44,113	31	24.00	99,316	69	24.00	257	370,149
Sat-11/18/17	226,728	157	24.00	44,182	31	24.00	99,342	69	24.00	257	370,252
Sun-11/19/17	226,773	157	24.00	44,148	31	24.00	99,251	69	24.00	257	370,172
Mon-11/20/17	226,788	157	24.00	44,163	31	24.00	99,238	69	24.00	257	370,189
Tue-11/21/17	122,160	157	12.93	28,052	31	15.10	62,528	69	15.10	148	212,740
Wed-11/22/17	226,691	157	24.00	42,106	31	22.90	94,809	69	22.90	253	363,606
Thu-11/23/17	226,713	157	24.00	43,899	30	24.00	99,309	69	24.00	257	369,921
Fri-11/24/17	226,723	157	24.00	43,941	31	24.00	99,283	69	24.00	257	369,947
Sat-11/25/17	226,764	157	24.00	43,927	31	24.00	99,272	69	24.00	257	369,963
Sun-11/26/17	226,738	157	24.00	43,920	31	24.00	99,338	69	24.00	257	369,996
Mon-11/27/17	231,413	161	24.00	43,936	31	24.00	99,477	69	24.00	260	374,826
Tue-11/28/17	234,070	163	24.00	43,934	31	24.00	99,405	69	24.00	262	377,409
Wed-11/29/17	234,077	163	24.00	43,913	30	24.00	99,320	69	24.00	262	377,310
Thu-11/30/17	234,086	163	24.00	43,941	31	24.00	99,346	69	24.00	262	377,373
<b>TOTALS</b>	<b>6,742,209</b>	<b>158</b>	<b>708.92</b>	<b>1,305,276</b>	<b>31</b>	<b>708.30</b>	<b>2,931,352</b>	<b>69</b>	<b>708.20</b>	<b>254</b>	<b>10,978,837</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>10,978,837 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>254.14 GPM</b>

11/04/17 - TW-19 & TW-23 were shut down briefly due to a DTE Energy power loss in the area.  
 11/21/17 - TW-18, TW-19, and TW-23 were shut down for maintenance.  
 11/22/17 - TW-19 and TW-23 were shut down briefly for maintenance.



**TABLE #7**

**Little Lake Area System**

MW-53i	
Date	1,4-Dioxane ug/L
08/02/17	53
09/07/17	140*
10/03/17	43
11/13/17	37

A2 Cleaning Supply	
Date	1,4-Dioxane ug/L
08/10/17	78
09/11/17	90
10/03/17	84
11/13/17	75

\*confirmed

**TABLE #8**

**INDIVIDUAL PURGE WELL CONCENTRATIONS**

<b>SAMPLE ID</b>	<b>Date Sampled</b>	<b>1,4-DIOXANE (ppb)</b>
DOLPH-11-06-17-11:35-1	11/06/17	100
TW-20-11-06-17-11:45-1	11/06/17	810
LB-4-11-06-17-08:32-1	11/06/17	410
TW-21-11-06-17-08:50-1	11/06/17	190
TW-18-11-06-17-11:28-1	11/06/17	260
TW-19-11-06-17-11:05-1	11/06/17	700
TW-23-11-06-17-11:06-1	11/06/17	500
PW-1-11-06-17-11:39-1	11/06/17	830
TW-22-11-06-17-11:55-1	11/06/17	420
TW-8-11-06-17-11:57-1	11/06/17	690

RED POND DATA

Month of: Nov-17

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Wed-11/1/17	3:05		Y	4.6	-	24.00	491
Thu-11/2/17	3:00		Y	4.7	-	24.00	491
Fri-11/3/17	3:00		Y	4.7	-	24.00	491
Sat-11/4/17	3:00	(1)		4.8	-	24.00	477
Sun-11/5/17	3:00	(1)		4.7	-	24.00	496
Mon-11/6/17	3:00		Y	4.8	-	24.00	496
Tue-11/7/17	3:00		Y	4.8	-	24.00	493
Wed-11/8/17	3:00		Y	5.0	-	24.00	487
Thu-11/9/17	3:00		Y	5.0	-	24.00	486
Fri-11/10/17	3:00		Y	4.9	-	24.00	485
Sat-11/11/17	3:00	(1)		4.8	-	24.00	484
Sun-11/12/17	3:00	(1)		4.7	-	24.00	484
Mon-11/13/17	3:00		Y	4.7	-	24.00	486
Tue-11/14/17	3:00		Y	4.6	-	24.00	489
Wed-11/15/17	3:00		Y	4.6	-	24.00	489
Thu-11/16/17	3:00		Y	4.8	-	24.00	489
Fri-11/17/17	3:00		Y	4.8	-	24.00	489
Sat-11/18/17	3:00	(1)		4.9	-	24.00	489
Sun-11/19/17	3:00	(1)		5.0	-	24.00	489
Mon-11/20/17	3:00		Y	5.0	-	24.00	488
Tue-11/21/17	3:00		Y	5.0	-	24.00	288
Wed-11/22/17	3:00		Y	5.3	-	24.00	474
Thu-11/23/17	3:00		Y	5.0	-	24.00	482
Fri-11/24/17	3:00		Y	4.9	-	24.00	483
Sat-11/25/17	3:00	(1)		4.8	-	24.00	483
Sun-11/26/17	3:00	(1)		4.7	-	24.00	483
Mon-11/27/17	3:00		Y	4.6	-	24.00	490
Tue-11/28/17	3:00		Y	4.6	-	24.00	493
Wed-11/29/17	3:00		Y	4.6	-	24.00	493
Thu-11/30/17	3:00		Y	4.6	-	24.00	493
<b>TOTALS</b>			-	-	-	720	

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-11-06-17-07:50-1	11/6/2017	380
Red Pond-11-13-17-07:00-1	11/13/2017	430
Red Pond-11-20-17-06:45-1	11/20/2017	370
Red Pond-11-27-17-08:20-1	11/27/2017	380

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

OZONE OPERATION REPORT

Month of: Nov-17

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
Wed-11/1/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-11/2/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-11/3/17	3:00 AM		239	23.88	0	0.00	241	23.90	0	0.00
Sat-11/4/17	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-11/5/17	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-11/6/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-11/7/17	3:00 AM		240	23.10	0	0.00	240	24.00	0	0.00
Wed-11/8/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-11/9/17	3:00 AM		241	24.00	0	0.00	240	24.00	0	0.00
Fri-11/10/17	3:00 AM		240	23.75	0	0.00	240	24.00	0	0.00
Sat-11/11/17	3:00 AM	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Sun-11/12/17	3:00 AM	(1)	240	23.87	0	0.00	240	24.00	0	0.00
Mon-11/13/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-11/14/17	3:00 AM		240	23.88	0	0.00	241	24.00	0	0.00
Wed-11/15/17	3:00 AM		240	23.30	0	0.00	240	24.00	0	0.00
Thu-11/16/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-11/17/17	3:00 AM		240	23.88	0	0.00	240	23.88	0	0.00
Sat-11/18/17	3:00 AM	(1)	240	23.92	0	0.00	240	23.90	0	0.00
Sun-11/19/17	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-11/20/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-11/21/17	3:00 AM		240	12.98	0	0.00	240	12.88	0	0.00
Wed-11/22/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-11/23/17	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Fri-11/24/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Sat-11/25/17	3:00 AM	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Sun-11/26/17	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Mon-11/27/17	3:00 AM		239	24.00	0	0.00	240	24.00	0	0.00
Tue-11/28/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-11/29/17	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-11/30/17	3:00 AM		239	24.00	0	0.00	240	24.00	0	0.00

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.

11/21/17 - Treatment was shut down for maintenance.

**TABLE #12**

**GREEN POND / DISCHARGE DATA**

Month of: **Nov-17**

Date	Time	Notes	Green Pond																	
			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	Pond Discharge GPM	Pond Discharge Gallons	Bypass Discharge GPM	Bypass Discharge Gallons	Bypass Discharge Hours	Recirc Thru UV to Pond GPM	Recirc Thru UV to Pond Gallons	Recirc Thru UV to Pond Hours	Recirc Thru UV to Disch GPM	Recirc Thru UV to Disch Gallons	Recirc Thru UV to Disch Hours		
Wed-11/1/17	3:05 AM		Y	-	-				496	714,312	24.00	-	-	-	-	-	-			
Thu-11/2/17	3:00 AM		Y	-	-				496	714,644	24.00	-	-	-	-	-	-			
Fri-11/3/17	3:00 AM		Y	-	-				492	708,486	24.00	-	-	-	-	-	-			
Sat-11/4/17	3:00 AM	(1)		-	-				496	714,360	24.00	-	-	-	-	-	-			
Sun-11/5/17	3:00 AM	(1)		-	-				496	714,801	24.00	-	-	-	-	-	-			
Mon-11/6/17	3:00 AM		Y	-	-				496	714,362	24.00	-	-	-	-	-	-			
Tue-11/7/17	3:00 AM		Y	-	-				484	697,414	24.00	-	-	-	-	-	-			
Wed-11/8/17	3:00 AM		Y	-	-				496	714,113	24.00	-	-	-	-	-	-			
Thu-11/9/17	3:00 AM		Y	-	-				496	713,994	24.00	-	-	-	-	-	-			
Fri-11/10/17	3:00 AM		Y	-	-				491	707,556	24.00	-	-	-	-	-	-			
Sat-11/11/17	3:00 AM	(1)		-	-				495	713,366	24.00	-	-	-	-	-	-			
Sun-11/12/17	3:00 AM	(1)		-	-				493	709,670	24.00	-	-	-	-	-	-			
Mon-11/13/17	3:00 AM		Y	-	-				496	713,676	24.00	-	-	-	-	-	-			
Tue-11/14/17	3:00 AM		Y	-	-				493	710,235	24.00	-	-	-	-	-	-			
Wed-11/15/17	3:00 AM		Y	-	-				487	701,846	24.00	-	-	-	-	-	-			
Thu-11/16/17	3:00 AM		Y	-	-				495	713,442	24.00	-	-	-	-	-	-			
Fri-11/17/17	3:00 AM		Y	-	-				491	707,634	24.00	-	-	-	-	-	-			
Sat-11/18/17	3:00 AM	(1)		-	-				493	709,344	24.00	-	-	-	-	-	-			
Sun-11/19/17	3:00 AM	(1)		-	-				495	713,292	24.00	-	-	-	-	-	-			
Mon-11/20/17	3:00 AM		Y	-	-				495	713,331	24.00	-	-	-	-	-	-			
Tue-11/21/17	3:00 AM		Y	-	-				494	382,048	12.90	-	-	-	-	-	-			
Wed-11/22/17	3:00 AM		Y	-	-				495	713,401	24.00	-	-	-	-	-	-			
Thu-11/23/17	3:00 AM		Y	-	-				496	713,628	24.00	-	-	-	-	-	-			
Fri-11/24/17	3:00 AM		Y	-	-				496	713,926	24.00	-	-	-	-	-	-			
Sat-11/25/17	3:00 AM	(1)		-	-				496	714,044	24.00	-	-	-	-	-	-			
Sun-11/26/17	3:00 AM	(1)		-	-				496	713,817	24.00	-	-	-	-	-	-			
Mon-11/27/17	3:00 AM		Y	-	-				496	714,120	24.00	-	-	-	-	-	-			
Tue-11/28/17	3:00 AM		Y	-	-				496	714,252	24.00	-	-	-	-	-	-			
Wed-11/29/17	3:00 AM		Y	-	-				496	714,146	24.00	-	-	-	-	-	-			
Thu-11/30/17	3:00 AM		Y	-	-				496	714,040	24.00	-	-	-	-	-	-			
<b>TOTALS</b>										<b>21,027,300</b>	<b>709</b>									

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)	(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 (measured as TRO)	Outfall Observation	Equipment Inspection	pH (Min. Daily)	pH (Max. Daily)	Bromate	Sodium Bisulfite Dose Rate
PARAMETER CODE	50050	1007	1007	82388	82388	00139	84130	46478	00400	00400	99814	99798
MONITORING PT.	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
UNIT	MGD	ug/l	lbs/day	ug/l	mg/l	ug/l	yes/no	yes/no	S.U.	S.U.	ug/l	mg/l
11/1/2017	0.714	*G	*G	7.1		<100	no	no	6.6	6.6	5.6	
11/2/2017	0.715			6.2		<100	no	yes	6.6	6.6	5.0	35
11/3/2017	0.708					<100	no	no	6.7	6.7		
11/4/2017	0.714											
11/5/2017	0.715			6.2							7.4	
11/6/2017	0.714			6.4	0.380	<100	yes	yes	6.6	6.6	5.4	35
11/7/2017	0.697			6		<100	no	no	6.7	6.7	8.3	
11/8/2017	0.714			5.6		<100	no	no	6.7	6.7	8.6	
11/9/2017	0.714			5.9		<100	no	yes	6.7	6.7	9.2	35
11/10/2017	0.708					<100	no	no	6.7	6.7		
11/11/2017	0.713											
11/12/2017	0.710			5.9							8.0	
11/13/2017	0.714			5.8	0.430	<100	yes	yes	6.7	6.7	7.6	30
11/14/2017	0.710			5.8		<100	no	no	6.6	6.6	8.7	
11/15/2017	0.702			6.1		<100	no	no	6.5	6.5	9.4	
11/16/2017	0.713			6.1		<100	no	yes	6.6	6.6	8.0	65
11/17/2017	0.708					<100	no	no	6.6	6.6		
11/18/2017	0.709											
11/19/2017	0.713			6							7.6	
11/20/2017	0.713			6.9	0.370	<100	yes	yes	6.6	6.6	6.5	56
11/21/2017	0.382			6.6		<100	no	no	6.7	6.7	8.6	
11/22/2017	0.713			6.2		<100	no	yes	6.6	6.6	7.8	60
11/23/2017	0.714			6.6							8.3	
11/24/2017	0.714											
11/25/2017	0.714											
11/26/2017	0.714			6.8							7.5	
11/27/2017	0.714			6.7	0.380	<100	yes	yes	6.6	6.6	7.1	42
11/28/2017	0.714			6.7		<100	no	no	6.6	6.6	7.3	
11/29/2017	0.714			6.7		<100	no	no	6.6	6.6	7.3	
11/30/2017	0.714			6.4		<100	no	yes	6.6	6.6	6.8	50
<b>Discharged (mg)</b>	<b>21.027</b>											
<b>Monthly Avg</b>				<b>6.3</b>							<b>7.5</b>	