



Gelman Sciences, Inc. d/b/a  
Pall Life Sciences  
642 South Wagner Road  
Ann Arbor, MI 48103  
734.436.4025 phone  
734.436.4040 fax

April 9, 2020

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

**Re: Monitoring Report # 275  
March 1 – March 31, 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 March 1 through March 31, 2020.

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

Sincerely,

A handwritten signature in black ink, appearing to read "L. Gelb".

Lawrence J. Gelb  
Sr. Director Global EHS

cc: Dan Hamel, MDEQ  
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**

**TABLE #1**

**UNIT D2 UPGRADIENT EXTRACTION DATA**

Month of: **Mar-20**

Date	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
	HW-S Gallons	GPM	Run Hrs.	TW-9 Gallons	GPM	Run Hrs.	TW-5 Gallons	GPM	Run Hrs.	TW-21 Gallons	GPM	Run Hrs.	GPM	Gallons
Sun-3/1/20	-	-	-	-	-	-	-	-	-	86,434	60	24.00	60	86,434
Mon-3/2/20	-	-	-	-	-	-	-	-	-	86,509	60	24.00	60	86,509
Tue-3/3/20	-	-	-	-	-	-	-	-	-	86,465	60	24.00	60	86,465
Wed-3/4/20	-	-	-	-	-	-	-	-	-	86,468	60	24.00	60	86,468
Thu-3/5/20	-	-	-	-	-	-	-	-	-	86,466	60	24.00	60	86,466
Fri-3/6/20	-	-	-	-	-	-	-	-	-	86,428	60	24.00	60	86,428
Sat-3/7/20	-	-	-	-	-	-	-	-	-	86,451	60	24.00	60	86,451
Sun-3/8/20	-	-	-	-	-	-	-	-	-	82,947	60	23.00	58	82,947
Mon-3/9/20	-	-	-	-	-	-	-	-	-	86,505	60	24.00	60	86,505
Tue-3/10/20	-	-	-	-	-	-	-	-	-	86,523	60	24.00	60	86,523
Wed-3/11/20	-	-	-	-	-	-	-	-	-	86,459	60	24.00	60	86,459
Thu-3/12/20	-	-	-	-	-	-	-	-	-	86,506	60	24.00	60	86,506
Fri-3/13/20	-	-	-	-	-	-	-	-	-	86,493	60	24.00	60	86,493
Sat-3/14/20	-	-	-	-	-	-	-	-	-	86,432	60	24.00	60	86,432
Sun-3/15/20	-	-	-	-	-	-	-	-	-	86,463	60	24.00	60	86,463
Mon-3/16/20	-	-	-	-	-	-	-	-	-	86,456	60	24.00	60	86,456
Tue-3/17/20	-	-	-	-	-	-	-	-	-	86,478	60	24.00	60	86,478
Wed-3/18/20	-	-	-	-	-	-	-	-	-	86,453	60	24.00	60	86,453
Thu-3/19/20	-	-	-	-	-	-	-	-	-	86,472	60	24.00	60	86,472
Fri-3/20/20	-	-	-	-	-	-	-	-	-	86,515	60	24.00	60	86,515
Sat-3/21/20	-	-	-	-	-	-	-	-	-	86,432	60	24.00	60	86,432
Sun-3/22/20	-	-	-	-	-	-	-	-	-	86,415	60	24.00	60	86,415
Mon-3/23/20	-	-	-	-	-	-	-	-	-	30,510	64	8.00	21	30,510
Tue-3/24/20	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Wed-3/25/20	-	-	-	-	-	-	-	-	-	57,340	59	16.10	40	57,340
Thu-3/26/20	-	-	-	-	-	-	-	-	-	86,532	60	24.00	60	86,532
Fri-3/27/20	-	-	-	-	-	-	-	-	-	86,526	60	24.00	60	86,526
Sat-3/28/20	-	-	-	-	-	-	-	-	-	86,521	60	24.00	60	86,521
Sun-3/29/20	-	-	-	-	-	-	-	-	-	86,548	60	24.00	60	86,548
Mon-3/30/20	-	-	-	-	-	-	-	-	-	81,604	57	24.00	57	81,604
Tue-3/31/20	-	-	-	-	-	-	-	-	-	79,222	55	24.00	55	79,222.00
<b>TOTALS</b>	-	-	-	-	-	-	-	-	-	<b>2,493,573</b>	<b>60</b>	<b>695.10</b>	<b>56</b>	<b>2,493,573</b>

TOTAL VOLUME EXTRACTED :	2,493,573 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	55.86 GPM

3/23/20 - 3/25/20 - Treatment was shut down for maintenance.

**UNIT D2 DOWNGRADIENT EXTRACTION DATA**

Month of: **Mar-20**

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Sun-3/1/20	-	-	-	144,187	100	24.00	100	144,187
Mon-3/2/20	-	-	-	144,182	100	24.00	100	144,182
Tue-3/3/20	-	-	-	144,136	100	24.00	100	144,136
Wed-3/4/20	-	-	-	144,180	100	24.00	100	144,180
Thu-3/5/20	-	-	-	144,140	100	24.00	100	144,140
Fri-3/6/20	-	-	-	144,146	100	24.00	100	144,146
Sat-3/7/20	-	-	-	144,155	100	24.00	100	144,155
Sun-3/8/20	-	-	-	138,122	100	23.00	96	138,122
Mon-3/9/20	-	-	-	144,147	100	24.00	100	144,147
Tue-3/10/20	-	-	-	144,154	104	23.00	100	144,154
Wed-3/11/20	-	-	-	144,169	100	24.00	100	144,169
Thu-3/12/20	-	-	-	144,170	100	24.00	100	144,170
Fri-3/13/20	-	-	-	144,135	100	24.00	100	144,135
Sat-3/14/20	-	-	-	144,158	100	24.00	100	144,158
Sun-3/15/20	-	-	-	144,148	100	24.00	100	144,148
Mon-3/16/20	-	-	-	144,194	100	24.00	100	144,194
Tue-3/17/20	-	-	-	144,190	100	24.00	100	144,190
Wed-3/18/20	-	-	-	144,203	100	24.00	100	144,203
Thu-3/19/20	-	-	-	144,214	100	24.00	100	144,214
Fri-3/20/20	-	-	-	144,184	100	24.00	100	144,184
Sat-3/21/20	-	-	-	144,197	100	24.00	100	144,197
Sun-3/22/20	-	-	-	144,174	100	24.00	100	144,174
Mon-3/23/20	-	-	-	50,575	102	8.26	35	50,575
Tue-3/24/20	-	-	-	-	-	-	0	-
Wed-3/25/20	-	-	-	95,918	103	15.58	67	95,918
Thu-3/26/20	-	-	-	144,220	100	24.00	100	144,220
Fri-3/27/20	-	-	-	144,192	100	24.00	100	144,192
Sat-3/28/20	-	-	-	144,197	100	24.00	100	144,197
Sun-3/29/20	-	-	-	144,178	100	24.00	100	144,178
Mon-3/30/20	-	-	-	144,205	100	24.00	100	144,205
Tue-3/31/20	-	-	-	144,187	100	24.00	100	144,187
<b>TOTALS</b>	-	-	-	<b>4,177,357</b>	<b>100</b>	<b>693.84</b>	<b>94</b>	<b>4,177,357</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>4,177,357 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>93.58 GPM</b>

3/23/20 - 3/25/20 - Treatment was shut down for maintenance.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: Mar-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
Sun-3/1/20	-	-	-	19,318	13	24.00	-	-	-	-	-	-	-	-	35,750	25	24.00	38	55,068	
Mon-3/2/20	-	-	-	19,665	14	24.00	-	-	-	-	-	-	-	-	35,848	25	24.00	39	55,513	
Tue-3/3/20	-	-	-	20,040	14	24.00	-	-	-	-	-	-	-	-	36,005	25	24.00	39	56,045	
Wed-3/4/20	-	-	-	19,899	14	24.00	-	-	-	-	-	-	-	-	36,300	25	24.00	39	56,199	
Thu-3/5/20	-	-	-	19,992	14	24.00	-	-	-	-	-	-	-	-	36,272	25	24.00	39	56,264	
Fri-3/6/20	-	-	-	20,014	14	24.00	-	-	-	-	-	-	-	-	36,084	25	24.00	39	56,098	
Sat-3/7/20	-	-	-	19,926	14	24.00	-	-	-	-	-	-	-	-	35,808	25	24.00	39	55,734	
Sun-3/8/20	-	-	-	19,555	14	23.00	-	-	-	-	-	-	-	-	34,264	25	23.00	37	53,819	
Mon-3/9/20	-	-	-	20,407	14	24.00	-	-	-	-	-	-	-	-	35,754	25	24.00	39	56,161	
Tue-3/10/20	-	-	-	20,693	14	24.00	-	-	-	-	-	-	-	-	36,229	25	24.00	40	56,922	
Wed-3/11/20	-	-	-	20,796	14	24.00	-	-	-	-	-	-	-	-	36,231	25	24.00	40	57,027	
Thu-3/12/20	-	-	-	21,098	15	24.00	-	-	-	-	-	-	-	-	36,239	25	24.00	40	57,337	
Fri-3/13/20	-	-	-	20,982	15	24.00	-	-	-	-	-	-	-	-	36,125	25	24.00	40	57,107	
Sat-3/14/20	-	-	-	20,711	14	24.00	-	-	-	-	-	-	-	-	35,860	25	24.00	39	56,571	
Sun-3/15/20	-	-	-	20,743	14	24.00	-	-	-	-	-	-	-	-	35,868	25	24.00	39	56,611	
Mon-3/16/20	-	-	-	21,117	15	24.00	-	-	-	-	-	-	-	-	35,811	25	24.00	40	56,928	
Tue-3/17/20	-	-	-	21,258	15	24.00	-	-	-	-	-	-	-	-	35,859	25	24.00	40	57,117	
Wed-3/18/20	-	-	-	21,316	15	24.00	-	-	-	-	-	-	-	-	36,175	25	24.00	40	57,491	
Thu-3/19/20	-	-	-	21,551	15	24.00	-	-	-	-	-	-	-	-	35,941	25	24.00	40	57,492	
Fri-3/20/20	-	-	-	21,578	15	24.00	-	-	-	-	-	-	-	-	35,969	25	24.00	40	57,547	
Sat-3/21/20	-	-	-	21,120	15	24.00	-	-	-	-	-	-	-	-	36,188	25	24.00	40	57,308	
Sun-3/22/20	-	-	-	21,349	15	24.00	-	-	-	-	-	-	-	-	36,063	25	24.00	40	57,412	
Mon-3/23/20	-	-	-	6,739	15	7.42	-	-	-	-	-	-	-	-	11,131	25	7.42	12	17,870	
Tue-3/24/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wed-3/25/20	-	-	-	16,740	17	16.85	-	-	-	-	-	-	-	-	30,551	30	16.95	33	47,291	
Thu-3/26/20	-	-	-	24,988	17	24.00	-	-	-	-	-	-	-	-	43,308	30	24.00	47	68,296	
Fri-3/27/20	-	-	-	25,484	18	24.00	-	-	-	-	-	-	-	-	43,373	30	24.00	48	68,857	
Sat-3/28/20	-	-	-	26,409	18	24.00	-	-	-	-	-	-	-	-	42,908	30	24.00	48	69,317	
Sun-3/29/20	-	-	-	27,312	19	24.00	-	-	-	-	-	-	-	-	43,202	30	24.00	49	70,514	
Mon-3/30/20	-	-	-	27,517	19	24.00	-	-	-	-	-	-	-	-	43,403	30	24.00	49	70,920	
Tue-3/31/20	-	-	-	28,085	20	24.00	-	-	-	-	-	-	-	-	43,169	30	24.00	49	71,254	
<b>TOTALS</b>	-	-	-	<b>636,402</b>	<b>15</b>	<b>695.27</b>	-	-	-	-	-	-	-	-	<b>1,091,688</b>	<b>26</b>	<b>695.37</b>	<b>40</b>	<b>1,728,090</b>	

TOTAL VOLUME EXTRACTED :	1,728,090 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	38.71 GPM

3/23/20 - 3/25/20 - Treatment was shut down for maintenance.

**MARSHY AREA EXTRACTION DATA**

Month of: **Mar-20**

Marshy Well Extraction				Daily	Daily
Date	PW-1			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Sun-3/1/20	2,233	2	24.00	2	2,233
Mon-3/2/20	2,216	2	24.00	2	2,216
Tue-3/3/20	2,321	2	24.00	2	2,321
Wed-3/4/20	2,382	2	24.00	2	2,382
Thu-3/5/20	2,387	2	24.00	2	2,387
Fri-3/6/20	2,385	2	24.00	2	2,385
Sat-3/7/20	2,383	2	24.00	2	2,383
Sun-3/8/20	2,276	2	23.00	2	2,276
Mon-3/9/20	2,376	2	24.00	2	2,376
Tue-3/10/20	2,380	2	24.00	2	2,380
Wed-3/11/20	2,375	2	24.00	2	2,375
Thu-3/12/20	2,373	2	24.00	2	2,373
Fri-3/13/20	2,378	2	24.00	2	2,378
Sat-3/14/20	2,377	2	24.00	2	2,377
Sun-3/15/20	2,378	2	24.00	2	2,378
Mon-3/16/20	2,374	2	24.00	2	2,374
Tue-3/17/20	2,354	2	24.00	2	2,354
Wed-3/18/20	2,349	2	24.00	2	2,349
Thu-3/19/20	2,353	2	24.00	2	2,353
Fri-3/20/20	2,353	2	24.00	2	2,353
Sat-3/21/20	2,368	2	24.00	2	2,368
Sun-3/22/20	2,355	2	24.00	2	2,355
Mon-3/23/20	815	2	7.42	1	815
Tue-3/24/20	-	-	-	-	-
Wed-3/25/20	1,788	2	16.97	1	1,788
Thu-3/26/20	2,440	2	24.00	2	2,440
Fri-3/27/20	2,422	2	24.00	2	2,422
Sat-3/28/20	2,408	2	24.00	2	2,408
Sun-3/29/20	2,407	2	24.00	2	2,407
Mon-3/30/20	2,395	2	24.00	2	2,395
Tue-3/31/20	2,384	2	24.00	2	2,384
<b>TOTALS</b>	<b>68,785</b>	<b>2</b>	<b>695.38</b>	<b>2</b>	<b>68,785</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>68,785 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>1.54 GPM</b>

3/23/20 - 3/25/20 - Treatment was shut down for maintenance.

**SOUTHWEST AREA EXTRACTION DATA**

Month of: **Mar-20**

South West Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Sun-3/1/20	2,627	2	24.00	35,979	25	24.00	27	38,606
Mon-3/2/20	2,624	2	24.00	35,998	25	24.00	27	38,622
Tue-3/3/20	2,526	2	24.00	35,996	25	24.00	27	38,522
Wed-3/4/20	2,449	2	24.00	36,007	25	24.00	27	38,456
Thu-3/5/20	2,449	2	24.00	36,011	25	24.00	27	38,460
Fri-3/6/20	2,446	2	24.00	35,999	25	24.00	27	38,445
Sat-3/7/20	2,451	2	24.00	35,971	25	24.00	27	38,422
Sun-3/8/20	2,350	2	23.00	34,458	25	23.00	26	36,808
Mon-3/9/20	2,458	2	24.00	35,964	25	24.00	27	38,422
Tue-3/10/20	2,455	2	24.00	35,893	25	24.00	27	38,348
Wed-3/11/20	2,519	2	23.73	35,688	25	23.73	27	38,207
Thu-3/12/20	2,644	2	24.00	36,359	25	24.00	27	39,003
Fri-3/13/20	2,615	2	24.00	36,395	25	24.00	27	39,010
Sat-3/14/20	2,601	2	24.00	36,377	25	24.00	27	38,978
Sun-3/15/20	2,608	2	24.00	36,078	25	24.00	27	38,686
Mon-3/16/20	2,593	2	24.00	36,319	25	24.00	27	38,912
Tue-3/17/20	2,688	2	24.00	36,357	25	24.00	27	39,045
Wed-3/18/20	2,591	2	24.00	36,396	25	24.00	27	38,987
Thu-3/19/20	2,603	2	24.00	36,375	25	24.00	27	38,978
Fri-3/20/20	2,594	2	24.00	36,351	25	24.00	27	38,945
Sat-3/21/20	2,583	2	24.00	36,299	25	24.00	27	38,882
Sun-3/22/20	2,582	2	24.00	36,261	25	24.00	27	38,843
Mon-3/23/20	911	2	8.48	12,830	25	8.48	10	13,741
Tue-3/24/20	-	-	-	-	-	-	<2	-
Wed-3/25/20	2,007	2	15.90	24,049	25	15.90	18	26,056
Thu-3/26/20	2,967	2	24.00	36,321	25	24.00	27	39,288
Fri-3/27/20	2,955	2	24.00	36,319	25	24.00	27	39,274
Sat-3/28/20	1,304	2	10.62	16,047	25	10.62	12	17,351
Sun-3/29/20	-	-	-	-	-	-	<2	-
Mon-3/30/20	1,983	2	16.18	24,076	25	16.18	18	26,059
Tue-3/31/20	2,905	2	24.00	42,774	30	24.00	32	45,679
<b>TOTALS</b>	<b>71,088</b>	<b>2</b>	<b>649.92</b>	<b>985,947</b>	<b>25</b>	<b>649.92</b>	<b>25</b>	<b>1,057,035</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>1,057,035 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>31 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>23.68 GPM</b>

3/23/20 - 3/25/20 - Treatment was shut down for maintenance.  
 3/28/20 - 3/30/20 - TW-22 & TW-28 were shut down due to a DTE Energy power loss.

**TABLE #6**

**UNIT "E" EXTRACTION DATA**

Month of: Mar-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.		
Sun-3/1/20	-	-	-	-	-	-	216,051	150	24.00	57,562	40	24.00	86,667	60	24.00	250	360,280
Mon-3/2/20	-	-	-	-	-	-	216,068	150	24.00	57,515	40	24.00	86,706	60	24.00	250	360,289
Tue-3/3/20	-	-	-	-	-	-	216,074	150	24.00	57,587	40	24.00	86,630	60	24.00	250	360,291
Wed-3/4/20	-	-	-	-	-	-	216,066	150	24.00	57,532	40	24.00	86,718	60	24.00	250	360,316
Thu-3/5/20	-	-	-	-	-	-	227,441	158	24.00	57,583	40	24.00	86,685	60	24.00	258	371,709
Fri-3/6/20	-	-	-	-	-	-	230,472	160	24.00	57,482	40	24.00	86,723	60	24.00	260	374,677
Sat-3/7/20	-	-	-	-	-	-	230,470	160	24.00	57,505	40	24.00	86,720	60	24.00	260	374,695
Sun-3/8/20	-	-	-	-	-	-	220,862	160	23.00	55,507	39	24.00	83,031	60	23.00	250	359,400
Mon-3/9/20	-	-	-	-	-	-	230,444	160	24.00	57,111	40	24.00	86,691	60	24.00	260	374,246
Tue-3/10/20	-	-	-	-	-	-	230,460	160	24.00	57,487	40	24.00	86,681	60	24.00	260	374,628
Wed-3/11/20	-	-	-	-	-	-	220,159	153	24.00	57,482	40	24.00	86,638	60	24.00	253	364,279
Thu-3/12/20	-	-	-	-	-	-	216,061	150	24.00	57,527	40	24.00	86,637	60	24.00	250	360,225
Fri-3/13/20	-	-	-	-	-	-	216,046	150	24.00	57,465	40	24.00	86,559	60	24.00	250	360,070
Sat-3/14/20	-	-	-	-	-	-	216,047	150	24.00	57,515	40	24.00	86,714	60	24.00	250	360,276
Sun-3/15/20	-	-	-	-	-	-	216,023	150	24.00	57,553	40	24.00	86,677	60	24.00	250	360,253
Mon-3/16/20	-	-	-	-	-	-	216,045	150	24.00	57,581	40	24.00	86,705	60	24.00	250	360,331
Tue-3/17/20	-	-	-	-	-	-	216,036	150	24.00	57,570	40	24.00	86,631	60	24.00	250	360,237
Wed-3/18/20	-	-	-	-	-	-	216,048	150	24.00	57,578	40	24.00	86,644	60	24.00	250	360,270
Thu-3/19/20	-	-	-	-	-	-	216,028	150	24.00	57,588	40	24.00	86,595	60	24.00	250	360,211
Fri-3/20/20	-	-	-	-	-	-	216,050	150	24.00	57,541	40	24.00	86,587	60	24.00	250	360,178
Sat-3/21/20	-	-	-	-	-	-	216,051	150	24.00	57,507	40	24.00	86,599	60	24.00	250	360,157
Sun-3/22/20	-	-	-	-	-	-	216,033	150	24.00	57,525	40	24.00	86,670	60	24.00	250	360,228
Mon-3/23/20	-	-	-	-	-	-	76,269	159	8.00	20,148	14	24.00	30,312	61	8.25	88	126,729
Tue-3/24/20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Wed-3/25/20	-	-	-	-	-	-	143,134	148	16.17	38,196	27	24.00	57,496	62	15.56	166	238,826
Thu-3/26/20	-	-	-	-	-	-	216,093	150	24.00	57,579	40	24.00	86,623	60	24.00	250	360,295
Fri-3/27/20	-	-	-	-	-	-	216,068	150	24.00	57,450	40	24.00	86,677	60	24.00	250	360,195
Sat-3/28/20	-	-	-	-	-	-	216,072	150	24.00	57,525	40	24.00	86,607	60	24.00	250	360,204
Sun-3/29/20	-	-	-	-	-	-	216,052	150	24.00	57,544	40	24.00	86,617	60	24.00	250	360,213
Mon-3/30/20	-	-	-	-	-	-	216,077	150	24.00	57,493	40	24.00	86,594	60	24.00	250	360,164
Tue-3/31/20	-	-	-	-	-	-	216,077	150	24.00	57,471	40	24.00	86,592	60	24.00	250	360,140.00
<b>TOTALS</b>	-	-	-	-	-	-	<b>6,346,877</b>	<b>152</b>	<b>695.17</b>	<b>1,666,709</b>	<b>39</b>	<b>720.00</b>	<b>2,510,426</b>	<b>60</b>	<b>694.81</b>	<b>236</b>	<b>10,524,012</b>

TOTAL VOLUME EXTRACTED :	10,524,012 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	235.75 GPM

3/23/20 - 3/25/20 - Treatment was shut down for maintenance.



**TABLE #7**

**Little Lake Area System**

MW-53i	
Date	1,4-Dioxane ug/L
12/10/19	32
01/06/20	35
02/06/20	37
03/06/20	30

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
12/05/19	59
01/06/20	66
02/25/20	73
03/05/20	65

Date	Gallons Purged
3/5/2020	28,000

**TABLE #8**

**INDIVIDUAL PURGE WELL CONCENTRATIONS**

<b>SAMPLE ID</b>	<b>Date Sampled</b>	<b>1,4-DIOXANE (ppb)</b>
DOLPH-03-03-20-09:25-1	03/03/20	120
TW-20-03-03-20-09:30-1	03/03/20	840
LB-4-03-03-20-09:10-1	03/03/20	480
TW-21-03-03-20-09:15-1	03/03/20	290
TW-18-03-03-20-09:20-1	03/03/20	240
TW-19-03-03-20-09:00-1	03/03/20	590
TW-23-03-03-20-08:55-1	03/03/20	360
PW-1-03-03-20-09:23-1	03/03/20	710
TW-22-03-03-20-09:35-1	03/03/20	450
TW-28-03-03-20-09:40-1	03/03/20	740

**RED POND DATA**

**Month of: Mar-20**

Date	Time	Notes	Red Pond				
			Pond Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM
Sun-3/1/20	02:00:00.005	(1)		3.9	-	24.00	477
Mon-3/2/20	02:00:00.004		Y	3.9	-	24.00	477
Tue-3/3/20	02:00:00.003		Y	3.8	-	24.00	478
Wed-3/4/20	02:00:00.002		Y	3.8	-	24.00	478
Thu-3/5/20	02:00:00.001		Y	4.0	-	24.00	486
Fri-3/6/20	02:00:00.000		Y	4.2	-	24.00	488
Sat-3/7/20	02:00:00.001	(1)		4.2	-	24.00	487
Sun-3/8/20	02:00:00.002	(1)		4.3	-	23.00	488
Mon-3/9/20	02:00:00.003		Y	4.4	-	24.00	487
Tue-3/10/20	02:00:00.000		Y	4.5	-	24.00	488
Wed-3/11/20	02:00:00.005		Y	4.5	-	24.00	481
Thu-3/12/20	02:00:00.004		Y	4.4	-	24.00	479
Fri-3/13/20	02:00:00.003		Y	4.4	-	24.00	479
Sat-3/14/20	02:00:00.002	(1)		4.3	-	24.00	478
Sun-3/15/20	02:00:00.001	(1)		4.2	-	24.00	478
Mon-3/16/20	02:00:00.000		Y	4.1	-	24.00	479
Tue-3/17/20	02:00:00.001		Y	4.1	-	24.00	479
Wed-3/18/20	02:00:00.002		Y	4.0	-	24.00	479
Thu-3/19/20	02:00:00.003		Y	4.1	-	24.00	479
Fri-3/20/20	02:00:00.000		Y	4.0	-	24.00	479
Sat-3/21/20	02:00:00.005	(1)		4.0	-	24.00	479
Sun-3/22/20	02:00:00.004	(1)		3.9	-	24.00	479
Mon-3/23/20	02:00:00.003		Y	3.9	-	8.48	472
Tue-3/24/20	02:00:00.002		Y	4.3	-	-	-
Wed-3/25/20	02:00:00.001		Y	4.3	-	16.97	459
Thu-3/26/20	02:00:00.000		Y	4.4	-	24.00	487
Fri-3/27/20	02:00:00.001		Y	4.3	-	24.00	487
Sat-3/28/20	02:00:00.002	(1)		4.1	-	24.00	472
Sun-3/29/20	02:00:00.003	(1)		4.0	-	24.00	461
Mon-3/30/20	02:00:00.000		Y	4.4	-	24.00	476
Tue-3/31/20	02:00:00.005		Y	4.4	-	24.00	488
<b>TOTALS</b>			-	-	-	696	

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

<b>SAMPLE ID</b>	<b>Date Sampled</b>	<b>1,4-DIOXANE (ppb)</b>
Red Pond-03-02-20-08:00-1	3/2/2020	380
Red Pond-03-09-20-08:35-1	3/9/2020	340
Red Pond-03-16-20-08:00-1	3/16/2020	490
Red Pond-03-23-20-07:50-1	3/23/2020	390
Red Pond-03-30-20-08:30-1	3/30/2020	370

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

**OZONE OPERATION REPORT**

**Month of: Mar-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
Sun-3/1/20	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-3/2/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/3/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-3/4/20	12:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Thu-3/5/20	12:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Fri-3/6/20	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Sat-3/7/20	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-3/8/20	12:00:00.00	(1)	240	23.00	0	0.00	240	23.00	0	0.00
Mon-3/9/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/10/20	12:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Wed-3/11/20	12:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Thu-3/12/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-3/13/20	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Sat-3/14/20	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-3/15/20	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-3/16/20	12:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Tue-3/17/20	12:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Wed-3/18/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-3/19/20	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Fri-3/20/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-3/21/20	12:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Sun-3/22/20	12:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-3/23/20	12:00:00.00		240	8.37	0	0.00	240	8.37	0	0.00
Tue-3/24/20	12:00:00.00		0	0.00	0	0.00	0	0.00	0	0.00
Wed-3/25/20	12:00:00.00		239	14.95	0	0.00	240	14.95	0	0.00
Thu-3/26/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-3/27/20	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-3/28/20	12:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Sun-3/29/20	12:00:00.00	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Mon-3/30/20	12:00:00.00		240	24.00	0	0.00	240	20.82	0	0.00
Tue-3/31/20	12:00:00.00		241	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.

3/23/20 - 3/25/20 - Treatment was shut down for maintenance.

3/30/20 - System 2A was shut down briefly for maintenance.

**GREEN POND / DISCHARGE DATA**

Month of: **Mar-20**

Date	Time	Notes	Green Pond																
			Pond		Level	Aeration	Influent	Influent	Pond Discharge		Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Feet	Hours	Hours	GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	
Sun-3/1/20	12:00:00.00:	(1)		-	-						497	715,817	24.00	-	-	-	-	-	-
Mon-3/2/20	12:00:00.00:		Y	-	-						497	716,262	24.00	-	-	-	-	-	-
Tue-3/3/20	12:00:00.00:		Y	-	-						497	716,267	24.00	-	-	-	-	-	-
Wed-3/4/20	12:00:00.00:		Y	-	-						497	716,139	24.00	-	-	-	-	-	-
Thu-3/5/20	12:00:00.00:		Y	-	-						497	716,227	24.00	-	-	-	-	-	-
Fri-3/6/20	12:00:00.00:		Y	-	-						497	716,064	24.00	-	-	-	-	-	-
Sat-3/7/20	12:00:00.00:	(1)		-	-						497	715,803	24.00	-	-	-	-	-	-
Sun-3/8/20	12:00:00.00:	(1)		-	-						497	716,083	24.00	-	-	-	-	-	-
Mon-3/9/20	12:00:00.00:		Y	-	-						493	709,614	24.00	-	-	-	-	-	-
Tue-3/10/20	12:00:00.00:		Y	-	-						497	716,294	24.00	-	-	-	-	-	-
Wed-3/11/20	12:00:00.00:		Y	-	-						497	716,117	24.00	-	-	-	-	-	-
Thu-3/12/20	12:00:00.00:		Y	-	-						497	716,324	24.00	-	-	-	-	-	-
Fri-3/13/20	12:00:00.00:		Y	-	-						497	716,250	24.00	-	-	-	-	-	-
Sat-3/14/20	12:00:00.00:	(1)		-	-						497	715,930	24.00	-	-	-	-	-	-
Sun-3/15/20	12:00:00.00:	(1)		-	-						497	715,889	24.00	-	-	-	-	-	-
Mon-3/16/20	12:00:00.00:		Y	-	-						497	716,005	24.00	-	-	-	-	-	-
Tue-3/17/20	12:00:00.00:		Y	-	-						497	716,143	24.00	-	-	-	-	-	-
Wed-3/18/20	12:00:00.00:		Y	-	-						497	716,059	24.00	-	-	-	-	-	-
Thu-3/19/20	12:00:00.00:		Y	-	-						497	716,043	24.00	-	-	-	-	-	-
Fri-3/20/20	12:00:00.00:		Y	-	-						497	716,251	24.00	-	-	-	-	-	-
Sat-3/21/20	12:00:00.00:	(1)		-	-						497	715,781	24.00	-	-	-	-	-	-
Sun-3/22/20	12:00:00.00:	(1)		-	-						497	715,830	24.00	-	-	-	-	-	-
Mon-3/23/20	12:00:00.00:		Y	-	-						497	250,510	8.40	-	-	-	-	-	-
Tue-3/24/20	12:00:00.00:		Y	-	-									-	-	-	-	-	-
Wed-3/25/20	12:00:00.00:		Y	-	-						484	434,319	14.95	-	-	-	-	-	-
Thu-3/26/20	12:00:00.00:		Y	-	-						499	718,421	24.00	-	-	-	-	-	-
Fri-3/27/20	12:00:00.00:		Y	-	-						499	718,399	24.00	-	-	-	-	-	-
Sat-3/28/20	12:00:00.00:	(1)		-	-						499	718,392	24.00	-	-	-	-	-	-
Sun-3/29/20	12:00:00.00:	(1)		-	-						499	718,594	24.00	-	-	-	-	-	-
Mon-3/30/20	12:00:00.00:		Y	-	-						467	672,845	24.00	-	-	-	-	-	-
Tue-3/31/20	12:00:00.00:		Y	-	-						499	718,420	24.00	-	-	-	-	-	-
<b>TOTALS</b>				-	-							<b>20,697,093</b>	<b>695</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)	(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
3/1/2020	0.716	*G	*G	6								5.7	
3/2/2020	0.716			6.1	0.380	<50	<0.16	yes	yes	7.2	7.2	7.3	26
3/3/2020	0.716			5.6		<50	<0.16	no	no	7.1	7.1	6.4	
3/4/2020	0.716			5.9		<50	<0.16	no	yes	7.1	7.1	7.7	39
3/5/2020	0.716			5.8		<50	<0.16	no	no	7.2	7.2	5.6	
3/6/2020	0.716					<50	<0.16	no	no	6.9	6.9		
3/7/2020	0.716												
3/8/2020	0.716			4								<5	
3/9/2020	0.710			6	0.340	<50	<0.16	yes	yes	6.9	6.9	7.7	64
3/10/2020	0.716			6		<50	<0.16	no	no	7.0	7.0	8.8	
3/11/2020	0.716			6		<50	<0.16	no	yes	6.8	6.8	8.7	84
3/12/2020	0.716			6		<50	<0.16	no	no	6.8	6.8	8.2	
3/13/2020	0.716					<50	<0.16	no	no	6.8	6.8		
3/14/2020	0.716												
3/15/2020	0.716			6								8.8	
3/16/2020	0.716			5.1	0.490	<50	<0.16	yes	yes	6.9	6.9	8.8	94
3/17/2020	0.716			4.9		<50	<0.16	no	no	6.9	6.9	8.6	
3/18/2020	0.716			4.6		<50	<0.16	no	yes	6.9	6.9	8.7	80
3/19/2020	0.716			5.2		<50	<0.16	no	no	6.9	6.9	8	
3/20/2020	0.716					<50	<0.16	no	no	6.9	6.9		
3/21/2020	0.716												
3/22/2020	0.716			4.9								7.7	
3/23/2020	0.251				0.390	<50	<0.16	yes	yes	6.9	6.9		58
3/24/2020	0.000			5.0		<50	<0.16	no	no			9	
3/25/2020	0.434			4.2		<50	<0.16	no	yes	7.3	7.3	8.6	130
3/26/2020	0.718			4.2		<50	<0.16	no	no	6.9	6.9	8.5	
3/27/2020	0.718					<50	<0.16	no	no	6.7	6.7		
3/28/2020	0.718												
3/29/2020	0.719			4.7								8.6	
3/30/2020	0.673			4.5	0.370	<50	<0.16	yes	yes	6.9	6.9	8.1	102
3/31/2020	0.718			4.5		<50	<0.16	no	no	6.9	6.9	7.8	
<b>Discharged</b>	<b>20.697</b>												
<b>Monthly Avg</b>				<b>5.2</b>								<b>7.6</b>	

3/23/20 - Treatment was shut down for maintenance.