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JACKSON DISTRICT OFFICE

April 5, 2018

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

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

Re: **Monitoring Report # 251**
March 1 – March 31, 2018

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 March 1 through March 31, 2018.

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

Sincerely,

Lawrence J. Gelb
Sr. Director Global EHS

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



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EXTRACTION DATA

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UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: Mar-18

Date	TW-21			Daily Flow	Daily Total
	TW-21			GPM	Gallons
	Gallons	GPM	Run Hrs.		
Thu-3/1/18	79,050	55	24.00	55	79,050
Fri-3/2/18	79,169	55	24.00	55	79,169
Sat-3/3/18	79,124	55	24.00	55	79,124
Sun-3/4/18	79,098	55	24.00	55	79,098
Mon-3/5/18	79,107	55	24.00	55	79,107
Tue-3/6/18	79,130	55	24.00	55	79,130
Wed-3/7/18	79,109	55	24.00	55	79,109
Thu-3/8/18	79,154	55	24.00	55	79,154
Fri-3/9/18	79,119	55	24.00	55	79,119
Sat-3/10/18	79,077	55	24.00	55	79,077
Sun-3/11/18	79,107	55	24.00	55	79,107
Mon-3/12/18	84,655	59	24.00	59	84,655
Tue-3/13/18	86,349	60	24.00	60	86,349
Wed-3/14/18	86,346	60	24.00	60	86,346
Thu-3/15/18	86,344	60	24.00	60	86,344
Fri-3/16/18	86,317	60	24.00	60	86,317
Sat-3/17/18	86,362	60	24.00	60	86,362
Sun-3/18/18	86,365	60	24.00	60	86,365
Mon-3/19/18	86,383	60	24.00	60	86,383
Tue-3/20/18	86,336	60	24.00	60	86,336
Wed-3/21/18	86,350	60	24.00	60	86,350
Thu-3/22/18	86,386	60	24.00	60	86,386
Fri-3/23/18	86,388	60	24.00	60	86,388
Sat-3/24/18	86,331	60	24.00	60	86,331
Sun-3/25/18	86,327	60	24.00	60	86,327
Mon-3/26/18	86,360	60	24.00	60	86,360
Tue-3/27/18	86,334	60	24.00	60	86,334
Wed-3/28/18	86,374	60	24.00	60	86,374
Thu-3/29/18	83,274	58	24.00	58	83,274
Fri-3/30/18	79,189	55	24.00	55	79,189
Sat-3/31/18	79,219	55	24.00	55	79,219
TOTALS	2,578,233	58	744.00	58	2,578,233

TOTAL VOLUME EXTRACTED :	2,578,233 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	57.76 GPM

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Mar-18

Date	LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Thu-3/1/18	144,186	100	24.00	100	144,186
Fri-3/2/18	75,087	100	12.50	52	75,087
Sat-3/3/18	144,251	100	24.00	100	144,251
Sun-3/4/18	144,227	100	24.00	100	144,227
Mon-3/5/18	144,239	100	24.00	100	144,239
Tue-3/6/18	144,224	100	24.00	100	144,224
Wed-3/7/18	137,955	100	22.96	96	137,955
Thu-3/8/18	126,506	100	21.06	88	126,506
Fri-3/9/18	144,215	100	24.00	100	144,215
Sat-3/10/18	144,203	100	24.00	100	144,203
Sun-3/11/18	141,828	100	23.63	98	141,828
Mon-3/12/18	144,235	100	24.00	100	144,235
Tue-3/13/18	144,214	100	24.00	100	144,214
Wed-3/14/18	144,227	100	24.00	100	144,227
Thu-3/15/18	144,241	100	24.00	100	144,241
Fri-3/16/18	144,203	100	24.00	100	144,203
Sat-3/17/18	144,186	100	24.00	100	144,186
Sun-3/18/18	144,229	100	24.00	100	144,229
Mon-3/19/18	144,170	100	24.00	100	144,170
Tue-3/20/18	144,226	100	24.00	100	144,226
Wed-3/21/18	141,492	100	23.56	98	141,492
Thu-3/22/18	144,244	100	24.00	100	144,244
Fri-3/23/18	144,286	100	24.00	100	144,286
Sat-3/24/18	144,266	100	24.00	100	144,266
Sun-3/25/18	144,168	100	24.00	100	144,168
Mon-3/26/18	144,172	100	24.00	100	144,172
Tue-3/27/18	144,243	100	24.00	100	144,243
Wed-3/28/18	144,267	100	24.00	100	144,267
Thu-3/29/18	144,272	100	24.00	100	144,272
Fri-3/30/18	144,166	100	24.00	100	144,166
Sat-3/31/18	144,202	100	24.00	100	144,202
TOTALS	4,372,630	100	727.71	98	4,372,630

TOTAL VOLUME EXTRACTED :	4,372,630 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	97.95 GPM

3/2/18 - LB-4 was shut down due to a DTE Energy power loss in the area.
 3/7/18 - 3/8/18 - LB-4 was shut down briefly for maintenance.

CORE AREA EXTRACTION DATA

Month of: **Mar-18**

Core Area Well Extraction										Daily	Daily
Date	TW-2 (Dolph)			TW-14			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Thu-3/1/18	40,132	28	24.00	-	-	-	43,209	30	24.00	58	83,341
Fri-3/2/18	38,379	27	24.00	46,599	73	10.65	43,361	30	24.00	89	128,339
Sat-3/3/18	29,469	20	24.00	-	-	-	43,511	30	24.00	51	72,980
Sun-3/4/18	29,329	20	24.00	-	-	-	43,173	30	24.00	50	72,502
Mon-3/5/18	33,722	23	24.00	-	-	-	43,034	30	24.00	53	76,756
Tue-3/6/18	36,787	26	24.00	-	-	-	43,023	30	24.00	55	79,810
Wed-3/7/18	35,218	24	24.00	-	-	-	43,011	30	24.00	54	78,229
Thu-3/8/18	23,522	16	24.00	12,208	61	3.33	42,871	30	24.00	55	78,601
Fri-3/9/18	32,718	23	24.00	-	-	-	43,308	30	24.00	53	76,026
Sat-3/10/18	29,726	21	24.00	-	-	-	43,194	30	24.00	51	72,920
Sun-3/11/18	26,466	18	24.00	-	-	-	43,070	30	24.00	48	69,536
Mon-3/12/18	26,605	18	24.00	-	-	-	43,107	30	24.00	48	69,712
Tue-3/13/18	26,367	18	24.00	-	-	-	43,443	30	24.00	48	69,810
Wed-3/14/18	24,034	17	24.00	-	-	-	43,243	30	24.00	47	67,277
Thu-3/15/18	33,642	23	24.00	-	-	-	43,373	30	24.00	53	77,015
Fri-3/16/18	24,176	17	24.00	-	-	-	42,994	30	24.00	47	67,170
Sat-3/17/18	28,211	20	24.00	-	-	-	43,081	30	24.00	50	71,292
Sun-3/18/18	33,502	23	24.00	-	-	-	43,239	30	24.00	53	76,741
Mon-3/19/18	35,399	25	24.00	-	-	-	43,153	30	24.00	55	78,552
Tue-3/20/18	30,739	21	24.00	-	-	-	42,805	30	24.00	51	73,544
Wed-3/21/18	35,333	25	24.00	-	-	-	43,052	30	24.00	54	78,385
Thu-3/22/18	35,135	24	24.00	-	-	-	43,508	30	24.00	55	78,643
Fri-3/23/18	33,812	23	24.00	-	-	-	43,476	30	24.00	54	77,288
Sat-3/24/18	32,346	22	24.00	-	-	-	43,388	30	24.00	53	75,734
Sun-3/25/18	29,810	21	24.00	-	-	-	43,355	30	24.00	51	73,165
Mon-3/26/18	35,186	24	24.00	-	-	-	43,302	30	24.00	55	78,488
Tue-3/27/18	36,149	25	24.00	-	-	-	43,236	30	24.00	55	79,385
Wed-3/28/18	36,697	25	24.00	-	-	-	43,280	30	24.00	56	79,977
Thu-3/29/18	37,086	26	24.00	-	-	-	43,366	30	24.00	56	80,452
Fri-3/30/18	37,274	26	24.00	-	-	-	43,248	30	24.00	56	80,522
Sat-3/31/18	37,355	26	24.00	-	-	-	42,943	30	24.00	56	80,298
TOTALS	1,004,326	22	744.00	58,807	67	13.98	1,339,357	30	744.00	54	2,402,490

TOTAL VOLUME EXTRACTED :	2,402,490 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	53.82 GPM

MARSHY AREA EXTRACTION DATA

Month of: **Mar-18**

Marshy Well Extraction				Daily	Daily
Date	PW-1			Flow	Total
	Gallons	GPM	Run Hrs.		
Thu-3/1/18	2,581	2	24.00	2	2,581
Fri-3/2/18	2,330	2	24.00	2	2,330
Sat-3/3/18	2,304	2	24.00	2	2,304
Sun-3/4/18	2,342	2	24.00	2	2,342
Mon-3/5/18	2,368	2	24.00	2	2,368
Tue-3/6/18	2,422	2	24.00	2	2,422
Wed-3/7/18	2,488	2	24.00	2	2,488
Thu-3/8/18	2,539	2	24.00	2	2,539
Fri-3/9/18	2,632	2	24.00	2	2,632
Sat-3/10/18	2,772	2	24.00	2	2,772
Sun-3/11/18	2,792	2	24.00	2	2,792
Mon-3/12/18	2,807	2	24.00	2	2,807
Tue-3/13/18	2,829	2	24.00	2	2,829
Wed-3/14/18	2,885	2	24.00	2	2,885
Thu-3/15/18	2,892	2	24.00	2	2,892
Fri-3/16/18	3,068	2	24.00	2	3,068
Sat-3/17/18	3,103	2	24.00	2	3,103
Sun-3/18/18	3,077	2	24.00	2	3,077
Mon-3/19/18	3,106	2	24.00	2	3,106
Tue-3/20/18	3,110	2	24.00	2	3,110
Wed-3/21/18	3,114	2	24.00	2	3,114
Thu-3/22/18	3,104	2	24.00	2	3,104
Fri-3/23/18	3,105	2	24.00	2	3,105
Sat-3/24/18	3,110	2	24.00	2	3,110
Sun-3/25/18	3,120	2	24.00	2	3,120
Mon-3/26/18	3,183	2	24.00	2	3,183
Tue-3/27/18	3,185	2	24.00	2	3,185
Wed-3/28/18	3,271	2	24.00	2	3,271
Thu-3/29/18	3,291	2	24.00	2	3,291
Fri-3/30/18	3,349	2	24.00	2	3,349
Sat-3/31/18	3,362	2	24.00	2	3,362
TOTALS	89,641	2	744.00	2	89,641

TOTAL VOLUME EXTRACTED :	89,641 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	2.01 GPM

SOUTHWEST AREA EXTRACTION DATA

Month of: Mar-18

SouthWest Well Extraction				Daily	Daily
Date	ACTIVE WELLS			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Thu-3/1/18	25,980	18	24.00	18	25,980
Fri-3/2/18	25,514	18	24.00	18	25,514
Sat-3/3/18	25,372	18	24.00	18	25,372
Sun-3/4/18	25,369	18	24.00	18	25,369
Mon-3/5/18	25,398	18	24.00	18	25,398
Tue-3/6/18	25,413	18	24.00	18	25,413
Wed-3/7/18	25,287	18	24.00	18	25,287
Thu-3/8/18	25,107	17	24.00	17	25,107
Fri-3/9/18	24,921	17	24.00	17	24,921
Sat-3/10/18	24,699	17	24.00	17	24,699
Sun-3/11/18	24,556	17	24.00	17	24,556
Mon-3/12/18	24,523	17	24.00	17	24,523
Tue-3/13/18	24,334	17	24.00	17	24,334
Wed-3/14/18	24,223	17	24.00	17	24,223
Thu-3/15/18	24,075	17	24.00	17	24,075
Fri-3/16/18	23,780	17	24.00	17	23,780
Sat-3/17/18	23,728	16	24.00	16	23,728
Sun-3/18/18	23,479	16	24.00	16	23,479
Mon-3/19/18	23,273	16	24.00	16	23,273
Tue-3/20/18	23,199	16	24.00	16	23,199
Wed-3/21/18	22,953	16	24.00	16	22,953
Thu-3/22/18	22,621	16	24.00	16	22,621
Fri-3/23/18	22,409	16	24.00	16	22,409
Sat-3/24/18	22,222	15	24.00	15	22,222
Sun-3/25/18	21,950	15	24.00	15	21,950
Mon-3/26/18	21,835	15	24.00	15	21,835
Tue-3/27/18	21,821	15	24.00	15	21,821
Wed-3/28/18	21,577	15	24.00	15	21,577
Thu-3/29/18	21,448	15	24.00	15	21,448
Fri-3/30/18	21,074	15	24.00	15	21,074
Sat-3/31/18	20,947	15	24.00	15	20,947
TOTALS	733,087	16	744.00	16	733,087

TOTAL VOLUME EXTRACTED :	733,087 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	16.42 GPM

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

UNIT "E" EXTRACTION DATA

Month of: Mar-18

Date	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.		
Thu-3/1/18	-	-	-	226,696	157	24.00	44,423	31	24.00	99,339	69	24.00	257	370,458
Fri-3/2/18	47,855	75	10.63	226,699	157	24.00	23,211	31	12.60	52,156	69	12.60	243	349,921
Sat-3/3/18	-	-	-	226,758	157	24.00	44,220	31	24.00	99,314	69	24.00	257	370,292
Sun-3/4/18	-	-	-	226,766	157	24.00	44,279	31	24.00	99,306	69	24.00	257	370,351
Mon-3/5/18	-	-	-	226,720	157	24.00	44,287	31	24.00	99,472	69	24.00	257	370,479
Tue-3/6/18	-	-	-	226,766	157	24.00	43,886	31	23.80	98,651	69	23.80	256	369,303
Wed-3/7/18	-	-	-	226,726	157	24.00	40,635	31	22.00	95,124	69	22.90	252	362,485
Thu-3/8/18	14,950	75	3.32	226,780	157	24.00	38,514	31	21.00	87,162	69	21.00	255	367,406
Fri-3/9/18	-	-	-	226,760	157	24.00	43,801	30	24.00	99,536	69	24.00	257	370,097
Sat-3/10/18	-	-	-	226,694	157	24.00	43,818	30	24.00	99,413	69	24.00	257	369,925
Sun-3/11/18	-	-	-	226,733	157	24.00	42,969	31	23.40	96,703	69	23.40	254	366,405
Mon-3/12/18	-	-	-	231,976	161	24.00	44,814	31	24.00	99,342	69	24.00	261	376,132
Tue-3/13/18	-	-	-	233,921	162	24.00	44,813	31	24.00	99,493	69	24.00	263	378,227
Wed-3/14/18	-	-	-	237,338	165	24.00	44,797	31	24.00	99,423	69	24.00	265	381,558
Thu-3/15/18	-	-	-	241,231	168	24.00	44,778	31	24.00	99,390	69	24.00	268	385,399
Fri-3/16/18	-	-	-	241,133	167	24.00	44,753	31	24.00	99,423	69	24.00	268	385,309
Sat-3/17/18	-	-	-	241,195	167	24.00	44,720	31	24.00	99,337	69	24.00	268	385,252
Sun-3/18/18	-	-	-	236,212	164	24.00	44,658	31	24.00	99,260	69	24.00	264	380,130
Mon-3/19/18	-	-	-	233,893	162	24.00	44,632	31	24.00	99,368	69	24.00	262	377,893
Tue-3/20/18	-	-	-	230,520	160	24.00	44,561	31	24.00	99,249	69	24.00	260	374,330
Wed-3/21/18	-	-	-	226,642	157	24.00	42,877	31	23.30	96,455	69	23.30	254	365,974
Thu-3/22/18	-	-	-	226,611	157	24.00	44,029	31	24.00	99,269	69	24.00	257	369,909
Fri-3/23/18	-	-	-	226,598	157	24.00	43,905	30	24.00	99,320	69	24.00	257	369,823
Sat-3/24/18	-	-	-	226,572	157	24.00	43,888	30	24.00	99,309	69	24.00	257	369,769
Sun-3/25/18	-	-	-	226,580	157	24.00	43,931	31	24.00	99,378	69	24.00	257	369,889
Mon-3/26/18	-	-	-	231,872	161	24.00	43,900	30	24.00	99,347	69	24.00	260	375,119
Tue-3/27/18	-	-	-	233,823	162	24.00	43,887	30	24.00	99,441	69	24.00	262	377,151
Wed-3/28/18	-	-	-	230,925	160	24.00	43,851	30	24.00	99,389	69	24.00	260	374,165
Thu-3/29/18	-	-	-	226,581	157	24.00	43,837	30	24.00	99,325	69	24.00	257	369,743
Fri-3/30/18	-	-	-	226,436	157	24.00	43,803	30	24.00	99,320	69	24.00	257	369,559
Sat-3/31/18	-	-	-	226,487	157	24.00	43,797	30	24.00	99,478	69	24.00	257	369,762
TOTALS	62,805	75	13.95	7,130,644	160	744.00	1,338,274	31	726.10	3,010,492	69	727.00	259	11,542,215

TOTAL VOLUME EXTRACTED :	11,542,215 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	258.56 GPM

3/2/18 - TW-19 and TW-23 were shut down due to a DTE Energy power loss in the area.
 3/7/18-3/8/18 - TW-19 & TW-23 were shut down briefly for maintenance.

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
12/20/17	40
01/08/18	35
02/06/18	30
03/07/18	32

A2 Cleaning Supply	
Date	1,4-Dioxane ug/L
12/21/17	84
01/09/18	87
02/13/18	69
03/08/18	82

Date	Gallons Purged
3/8/2018	28,000

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-03-06-18-10:42-1	03/06/18	98
TW-14-03-08-18-12:37-1	03/08/18	56
TW-20-03-06-18-10:33-1	03/06/18	880
LB-4-03-06-18-11:02-1	03/06/18	430
TW-21-03-06-18-10:56-1	03/06/18	400
TW-17-03-08-18-12:40-1	03/08/18	150
TW-18-03-06-18-10:53-1	03/06/18	250
TW-19-03-06-18-11:08-1	03/06/18	520
TW-23-03-06-18-11:27-1	03/06/18	690
PW-1-03-06-18-10:39-1	03/06/18	840
TW-22-03-06-18-11:43-1	03/06/18	390
TW-8-03-06-18-11:38-1	03/06/18	650

RED POND DATA

Month of: Mar-18

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Thu-3/1/18	3:05		Y	5.4	-	24.00	490
Fri-3/2/18	3:00		Y	5.6	-	24.00	459
Sat-3/3/18	3:00	(1)		5.2	-	24.00	482
Sun-3/4/18	3:00	(1)		5.1	-	24.00	482
Mon-3/5/18	3:00		Y	5.0	-	24.00	485
Tue-3/6/18	3:00		Y	4.9	-	24.00	486
Wed-3/7/18	3:00		Y	4.9	-	24.00	476
Thu-3/8/18	3:00		Y	4.7	-	24.00	472
Fri-3/9/18	3:00		Y	4.7	-	24.00	484
Sat-3/10/18	3:00	(1)		4.6	-	24.00	482
Sun-3/11/18	3:00	(1)		4.5	-	24.00	475
Mon-3/12/18	3:00		Y	4.2	-	24.00	488
Tue-3/13/18	3:00		Y	4.2	-	24.00	490
Wed-3/14/18	3:00		Y	4.6	-	24.00	491
Thu-3/15/18	3:00		Y	4.6	-	24.00	500
Fri-3/16/18	3:00		Y	4.7	-	24.00	493
Sat-3/17/18	3:00	(1)		4.8	-	24.00	496
Sun-3/18/18	3:00	(1)		4.9	-	24.00	496
Mon-3/19/18	3:00		Y	5.0	-	24.00	495
Tue-3/20/18	3:00		Y	5.0	-	24.00	489
Wed-3/21/18	3:00		Y	4.9	-	24.00	485
Thu-3/22/18	3:00		Y	4.9	-	24.00	490
Fri-3/23/18	3:00		Y	4.9	-	24.00	488
Sat-3/24/18	3:00	(1)		4.9	-	24.00	487
Sun-3/25/18	3:00	(1)		4.8	-	24.00	485
Mon-3/26/18	3:00		Y	4.7	-	24.00	492
Tue-3/27/18	3:00		Y	4.8	-	24.00	495
Wed-3/28/18	3:00		Y	5.0	-	24.00	493
Thu-3/29/18	3:00		Y	5.1	-	24.00	488
Fri-3/30/18	3:00		Y	5.2	-	24.00	485
Sat-3/31/18	3:00	(1)		5.1	-	24.00	485
TOTALS			-	-	-	744	

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-03-05-18-06:10-1	3/5/2018	390
Red Pond-03-12-18-08:38-1	3/12/2018	370
Red Pond-03-19-18-10:00-1	3/19/2018	370
Red Pond-03-26-18-08:34-1	3/26/2018	360

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

OZONE OPERATION REPORT

Month of: Mar-18

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
Thu-3/1/18	3:07 AM		240	23.87	0	0.00	240	23.88	0	0.00
Fri-3/2/18	3:00 AM		240	23.88	0	0.00	240	23.87	0	0.00
Sat-3/3/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-3/4/18	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Mon-3/5/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/6/18	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Wed-3/7/18	3:00 AM		240	24.00	0	0.00	241	24.00	0	0.00
Thu-3/8/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-3/9/18	3:00 AM		239	24.00	0	0.00	240	24.00	0	0.00
Sat-3/10/18	3:00 AM	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-3/11/18	3:00 AM	(1)	240	24.00	0	0.00	242	24.00	0	0.00
Mon-3/12/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/13/18	3:00 AM		240	22.88	0	0.00	241	22.88	0	0.00
Wed-3/14/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-3/15/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-3/16/18	3:00 AM		240	23.87	0	0.00	241	23.88	0	0.00
Sat-3/17/18	3:00 AM	(1)	239	24.00	0	0.00	241	24.00	0	0.00
Sun-3/18/18	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Mon-3/19/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/20/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Wed-3/21/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Thu-3/22/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-3/23/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Sat-3/24/18	3:00 AM	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Sun-3/25/18	3:00 AM	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Mon-3/26/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Tue-3/27/18	3:00 AM		240	23.82	0	0.00	241	23.82	0	0.00
Wed-3/28/18	3:00 AM		239	23.72	0	0.00	241	23.72	0	0.00
Thu-3/29/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Fri-3/30/18	3:00 AM		240	24.00	0	0.00	240	24.00	0	0.00
Sat-3/31/18	3:00 AM	(1)	239	24.00	0	0.00	241	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.

3/13/18 - Treatment was shut down briefly for maintenance.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: **Mar-18**

Date	Time	Notes	Green Pond																		
			Pond			Aeration		Influent		Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Level Feet	Influent Hours	Influent GPM	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours			
Thu-3/1/18	3:05 AM		Y	-	-						492	707,992	24.00	-	-	-	-	-	-		
Fri-3/2/18	3:00 AM		Y	-	-						492	707,910	24.00	-	-	-	-	-	-		
Sat-3/3/18	3:00 AM	(1)		-	-						496	713,944	24.00	-	-	-	-	-	-		
Sun-3/4/18	3:00 AM	(1)		-	-						496	713,959	24.00	-	-	-	-	-	-		
Mon-3/5/18	3:00 AM		Y	-	-						496	714,059	24.00	-	-	-	-	-	-		
Tue-3/6/18	3:00 AM		Y	-	-						496	714,196	24.00	-	-	-	-	-	-		
Wed-3/7/18	3:00 AM		Y	-	-						496	714,243	24.00	-	-	-	-	-	-		
Thu-3/8/18	3:00 AM		Y	-	-						496	714,485	24.00	-	-	-	-	-	-		
Fri-3/9/18	3:00 AM		Y	-	-						496	714,296	24.00	-	-	-	-	-	-		
Sat-3/10/18	3:00 AM	(1)		-	-						496	714,266	24.00	-	-	-	-	-	-		
Sun-3/11/18	3:00 AM	(1)		-	-						496	714,483	24.00	-	-	-	-	-	-		
Mon-3/12/18	3:00 AM		Y	-	-						496	714,415	24.00	-	-	-	-	-	-		
Tue-3/13/18	3:00 AM		Y	-	-						496	678,637	22.82	-	-	-	-	-	-		
Wed-3/14/18	3:00 AM		Y	-	-						496	714,540	24.00	-	-	-	-	-	-		
Thu-3/15/18	3:00 AM		Y	-	-						496	714,418	24.00	-	-	-	-	-	-		
Fri-3/16/18	3:00 AM		Y	-	-						492	708,531	24.00	-	-	-	-	-	-		
Sat-3/17/18	3:00 AM	(1)		-	-						496	714,788	24.00	-	-	-	-	-	-		
Sun-3/18/18	3:00 AM	(1)		-	-						496	714,824	24.00	-	-	-	-	-	-		
Mon-3/19/18	3:00 AM		Y	-	-						496	714,782	24.00	-	-	-	-	-	-		
Tue-3/20/18	3:00 AM		Y	-	-						496	714,689	24.00	-	-	-	-	-	-		
Wed-3/21/18	3:00 AM		Y	-	-						496	714,525	24.00	-	-	-	-	-	-		
Thu-3/22/18	3:00 AM		Y	-	-						496	714,660	24.00	-	-	-	-	-	-		
Fri-3/23/18	3:00 AM		Y	-	-						496	714,740	24.00	-	-	-	-	-	-		
Sat-3/24/18	3:00 AM	(1)		-	-						496	714,713	24.00	-	-	-	-	-	-		
Sun-3/25/18	3:00 AM	(1)		-	-						496	714,580	24.00	-	-	-	-	-	-		
Mon-3/26/18	3:00 AM		Y	-	-						496	714,951	24.00	-	-	-	-	-	-		
Tue-3/27/18	3:00 AM		Y	-	-						496	707,095	23.75	-	-	-	-	-	-		
Wed-3/28/18	3:00 AM		Y	-	-						496	703,231	23.63	-	-	-	-	-	-		
Thu-3/29/18	3:00 AM		Y	-	-						496	714,621	24.00	-	-	-	-	-	-		
Fri-3/30/18	3:00 AM		Y	-	-						496	714,365	24.00	-	-	-	-	-	-		
Sat-3/31/18	3:00 AM	(1)		-	-						496	714,317	24.00	-	-	-	-	-	-		
TOTALS												22,075,255	742								

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 end/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
3/1/2018	0.708	*G	*G	5.7		<50	<0.16	yes	yes	6.6	6.6	7.4	55
3/2/2018	0.708					<50	<0.16	no	no	6.9	6.9		
3/3/2018	0.714												
3/4/2018	0.714			6.0								5.9	
3/5/2018	0.714			6.5	0.390	<50	<0.16	yes	yes	6.8	6.8	7.7	50
3/6/2018	0.714			5.8		<50	<0.16	no	no	6.8	6.8	7.4	
3/7/2018	0.714			5.9		<50	<0.16	no	no	6.7	6.7	7.5	
3/8/2018	0.714			6.2		<50	<0.16	no	yes	6.8	6.8	7.8	35
3/9/2018	0.714					<50	<0.16	no	no	6.8	6.8		
3/10/2018	0.714												
3/11/2018	0.714			6.2								7.4	
3/12/2018	0.714			5.9	0.370	<50	<0.16	yes	yes	6.7	6.7	6.9	48
3/13/2018	0.679			6.0		<50	<0.16	no	no	6.6	6.6	6.3	
3/14/2018	0.715			5.6		<50	<0.16	no	no	6.7	6.7	6.7	
3/15/2018	0.714			5.6		<50	<0.16	no	yes	6.7	6.7	6.9	35
3/16/2018	0.709					<50	<0.16	no	no	6.7	6.7		
3/17/2018	0.715												
3/18/2018	0.715			5.9								7.0	
3/19/2018	0.715			6.1	0.370	<50	<0.16	yes	yes	6.7	6.7	7.0	52
3/20/2018	0.715			6.4		<50	<0.16	no	no	6.7	6.7	6.3	
3/21/2018	0.715			6.4		<50	<0.16	no	no	6.8	6.8	6.6	
3/22/2018	0.715			5.7		<50	<0.16	no	yes	6.9	6.9	7.3	60
3/23/2018	0.715					<50	<0.16	no	no	7.6	7.6		
3/24/2018	0.715												
3/25/2018	0.715			5.8								7.4	
3/26/2018	0.715			5.8	0.360	<50	<0.16	yes	yes	6.7	6.7	7.5	42
3/27/2018	0.707			5.6		<50	<0.16	no	no	6.8	6.8	7.9	
3/28/2018	0.703			5.0		<50	<0.16	no	no	6.9	6.9	7.8	
3/29/2018	0.715			4.6		<50	<0.16	no	yes	6.8	6.8	7.5	35
3/30/2018	0.714							no	no				
3/31/2018	0.714												
Discharged (mg)	22.075												
Monthly Avg				5.8								7.2	