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November 7, 2019

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

**Re: Monitoring Report # 270
October 1 – October 31, 2019**

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 October 1 through October 31, 2019.

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

Sincerely,

A handwritten signature in cursive script that reads "Lawrence J. Gelb".

Lawrence J. Gelb
Sr. Director Global EHS

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



EXTRACTION DATA

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UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: **Oct-19**

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
Tue-10/1/19	-	-	-	-	-	-	-	-	-	86,712	60	24.00	60	86,712
Wed-10/2/19	979	98	0.17	3,821	49	1.30	-	-	-	86,629	60	24.00	63	91,429
Thu-10/3/19	-	-	-	-	-	-	-	-	-	86,614	60	24.00	60	86,614
Fri-10/4/19	-	-	-	-	-	-	-	-	-	86,605	60	24.00	60	86,605
Sat-10/5/19	-	-	-	-	-	-	-	-	-	86,600	60	24.00	60	86,600
Sun-10/6/19	-	-	-	-	-	-	-	-	-	86,652	60	24.00	60	86,652
Mon-10/7/19	-	-	-	-	-	-	-	-	-	86,632	60	24.00	60	86,632
Tue-10/8/19	-	-	-	-	-	-	-	-	-	86,617	60	24.00	60	86,617
Wed-10/9/19	-	-	-	-	-	-	-	-	-	86,621	60	24.00	60	86,621
Thu-10/10/19	-	-	-	-	-	-	-	-	-	86,646	60	24.00	60	86,646
Fri-10/11/19	-	-	-	-	-	-	-	-	-	86,651	60	24.00	60	86,651
Sat-10/12/19	-	-	-	-	-	-	-	-	-	86,558	60	24.00	60	86,558
Sun-10/13/19	-	-	-	-	-	-	-	-	-	86,572	60	24.00	60	86,572
Mon-10/14/19	-	-	-	-	-	-	-	-	-	86,545	60	24.00	60	86,545
Tue-10/15/19	-	-	-	-	-	-	-	-	-	86,585	60	24.00	60	86,585
Wed-10/16/19	-	-	-	-	-	-	-	-	-	86,579	60	24.00	60	86,579
Thu-10/17/19	-	-	-	-	-	-	-	-	-	86,563	60	24.00	60	86,563
Fri-10/18/19	-	-	-	-	-	-	-	-	-	86,529	60	24.00	60	86,529
Sat-10/19/19	-	-	-	-	-	-	-	-	-	86,567	60	24.00	60	86,567
Sun-10/20/19	-	-	-	-	-	-	-	-	-	86,607	60	24.00	60	86,607
Mon-10/21/19	-	-	-	-	-	-	-	-	-	86,583	60	24.00	60	86,583
Tue-10/22/19	-	-	-	-	-	-	-	-	-	86,550	60	24.00	60	86,550
Wed-10/23/19	-	-	-	-	-	-	-	-	-	58,026	57	17.00	40	58,026
Thu-10/24/19	-	-	-	-	-	-	-	-	-	72,138	50	24.00	50	72,138
Fri-10/25/19	-	-	-	-	-	-	-	-	-	72,081	50	24.00	50	72,081
Sat-10/26/19	-	-	-	-	-	-	-	-	-	72,068	50	24.00	50	72,068
Sun-10/27/19	-	-	-	-	-	-	-	-	-	72,123	50	24.00	50	72,123
Mon-10/28/19	-	-	-	-	-	-	-	-	-	72,138	50	24.00	50	72,138
Tue-10/29/19	-	-	-	-	-	-	-	-	-	78,477	54	24.00	54	78,477
Wed-10/30/19	-	-	-	-	-	-	-	-	-	84,698	61	23.00	59	84,698
Thu-10/31/19	-	-	-	-	-	-	-	-	-	84,002	59	23.72	58	84,002
TOTALS	979	98	0.17	3,821	49	1.30	-	-	-	2,570,968	58	735.72	58	2,575,768

TOTAL VOLUME EXTRACTED :	2,575,768 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	57.70 GPM

10/23/19 - Extraction and Treatment were down during communication upgrades.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: **Oct-19**

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Tue-10/1/19	-	-	-	144,178	100	24.00	100	144,178
Wed-10/2/19	-	-	-	144,189	100	24.00	100	144,189
Thu-10/3/19	-	-	-	144,196	100	24.00	100	144,196
Fri-10/4/19	-	-	-	144,208	100	24.00	100	144,208
Sat-10/5/19	-	-	-	144,231	100	24.00	100	144,231
Sun-10/6/19	-	-	-	144,212	100	24.00	100	144,212
Mon-10/7/19	-	-	-	144,174	100	24.00	100	144,174
Tue-10/8/19	-	-	-	144,180	100	24.00	100	144,180
Wed-10/9/19	-	-	-	144,208	100	24.00	100	144,208
Thu-10/10/19	-	-	-	144,176	100	24.00	100	144,176
Fri-10/11/19	-	-	-	144,193	100	24.00	100	144,193
Sat-10/12/19	-	-	-	144,237	100	24.00	100	144,237
Sun-10/13/19	-	-	-	144,183	100	24.00	100	144,183
Mon-10/14/19	-	-	-	144,198	100	24.00	100	144,198
Tue-10/15/19	-	-	-	144,185	100	24.00	100	144,185
Wed-10/16/19	-	-	-	144,208	100	24.00	100	144,208
Thu-10/17/19	-	-	-	144,211	100	24.00	100	144,211
Fri-10/18/19	-	-	-	144,205	100	24.00	100	144,205
Sat-10/19/19	-	-	-	144,217	100	24.00	100	144,217
Sun-10/20/19	-	-	-	144,185	100	24.00	100	144,185
Mon-10/21/19	-	-	-	144,153	100	24.00	100	144,153
Tue-10/22/19	-	-	-	144,204	100	24.00	100	144,204
Wed-10/23/19	-	-	-	105,636	100	17.58	73	105,636
Thu-10/24/19	-	-	-	144,193	100	24.00	100	144,193
Fri-10/25/19	-	-	-	144,215	100	24.00	100	144,215
Sat-10/26/19	-	-	-	144,212	100	24.00	100	144,212
Sun-10/27/19	-	-	-	144,175	100	24.00	100	144,175
Mon-10/28/19	-	-	-	144,197	100	24.00	100	144,197
Tue-10/29/19	-	-	-	144,179	100	24.00	100	144,179
Wed-10/30/19	-	-	-	142,095	100	23.66	99	142,095
Thu-10/31/19	-	-	-	142,079	100	23.65	99	142,079
TOTALS	-	-	-	4,427,312	100	736.89	99	4,427,312

TOTAL VOLUME EXTRACTED :	4,427,312 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	99.18 GPM

10/23/19 - Extraction and Treatment were down during communication upgrades.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: **Oct-19**

Core Area Well Extraction																			Daily	Daily
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			Flow GPM	Total Gallons
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Tue-10/1/19	-	-	-	17,950	12	24.00	-	-	-	-	-	-	-	-	-	28,935	20	24.00	33	46,885
Wed-10/2/19	1,889	51	0.62	20,713	14	24.00	3,547	96	0.62	3,526	45	1.30	2,110	27	1.32	28,866	20	24.00	42	60,651
Thu-10/3/19	-	-	-	17,868	12	24.00	-	-	-	-	-	-	-	-	-	28,884	20	24.00	32	46,752
Fri-10/4/19	-	-	-	17,853	12	24.00	-	-	-	-	-	-	-	-	-	28,829	20	24.00	32	46,682
Sat-10/5/19	-	-	-	17,905	12	24.00	-	-	-	-	-	-	-	-	-	28,791	20	24.00	32	46,696
Sun-10/6/19	-	-	-	17,941	12	24.00	-	-	-	-	-	-	-	-	-	28,811	20	23.98	32	46,752
Mon-10/7/19	-	-	-	12,884	12	17.45	-	-	-	-	-	-	-	-	-	28,805	20	24.00	29	41,689
Tue-10/8/19	-	-	-	17,260	12	24.00	-	-	-	-	-	-	-	-	-	28,844	20	24.00	32	46,104
Wed-10/9/19	-	-	-	17,331	15	19.78	-	-	-	-	-	-	-	-	-	28,758	20	24.00	32	46,089
Thu-10/10/19	-	-	-	26,575	19	23.35	-	-	-	-	-	-	-	-	-	28,816	20	24.00	38	55,391
Fri-10/11/19	-	-	-	27,401	19	23.60	-	-	-	-	-	-	-	-	-	28,810	20	24.00	39	56,211
Sat-10/12/19	-	-	-	27,267	19	24.00	-	-	-	-	-	-	-	-	-	28,668	20	24.00	39	55,935
Sun-10/13/19	-	-	-	27,260	19	24.00	-	-	-	-	-	-	-	-	-	28,725	20	24.00	39	55,985
Mon-10/14/19	-	-	-	27,226	19	24.00	-	-	-	-	-	-	-	-	-	28,807	20	24.00	39	56,035
Tue-10/15/19	-	-	-	27,243	19	24.00	-	-	-	-	-	-	-	-	-	28,827	20	24.00	39	56,070
Wed-10/16/19	-	-	-	29,949	21	24.00	-	-	-	-	-	-	-	-	-	28,772	20	24.00	41	58,721
Thu-10/17/19	-	-	-	30,314	21	23.72	-	-	-	-	-	-	-	-	-	28,881	20	24.00	41	59,195
Fri-10/18/19	-	-	-	30,309	21	24.00	-	-	-	-	-	-	-	-	-	28,823	20	24.00	41	59,132
Sat-10/19/19	-	-	-	30,825	21	24.00	-	-	-	-	-	-	-	-	-	28,861	20	24.00	41	59,686
Sun-10/20/19	-	-	-	30,953	21	24.00	-	-	-	-	-	-	-	-	-	28,726	20	24.00	41	59,679
Mon-10/21/19	-	-	-	31,120	22	24.00	-	-	-	-	-	-	-	-	-	28,810	20	24.00	42	59,930
Tue-10/22/19	-	-	-	31,250	22	24.00	-	-	-	-	-	-	-	-	-	28,876	20	24.00	42	60,126
Wed-10/23/19	-	-	-	22,485	21	17.43	-	-	-	-	-	-	-	-	-	20,974	20	17.47	30	43,459
Thu-10/24/19	-	-	-	31,267	22	24.00	-	-	-	-	-	-	-	-	-	28,902	20	24.00	42	60,169
Fri-10/25/19	-	-	-	31,431	22	24.00	-	-	-	-	-	-	-	-	-	28,755	20	24.00	42	60,186
Sat-10/26/19	-	-	-	31,989	22	24.00	-	-	-	-	-	-	-	-	-	28,722	20	24.00	42	60,711
Sun-10/27/19	-	-	-	32,209	22	24.00	-	-	-	-	-	-	-	-	-	28,791	20	24.00	42	61,000
Mon-10/28/19	-	-	-	31,789	22	24.00	-	-	-	-	-	-	-	-	-	28,722	20	24.00	42	60,511
Tue-10/29/19	261	52	0.08	31,668	22	24.00	-	0	0.02	-	-	-	-	-	-	28,868	20	24.00	42	60,797
Wed-10/30/19	-	-	-	31,066	22	24.00	-	-	-	-	-	-	-	-	-	28,758	20	24.00	42	59,824
Thu-10/31/19	-	-	-	30,999	22	23.58	-	-	-	-	-	-	-	-	-	28,869	20	24.00	42	59,868
TOTALS	2,150	52	0.70	810,300	19	724.92	3,547	48	0.63	3,526	45	1.30	2,110	27	1.32	885,286	20	737.45	38	1,706,919

TOTAL VOLUME EXTRACTED :	1,706,919 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	38.24 GPM

10/07/19 - Dolph was shut down for the removal of TW-12.

10/09/19 - Dolph was shut down briefly for maintenance.

10/23/19 - Extraction and Treatment were down during communication upgrades.

MARSHY AREA EXTRACTION DATA

Month of: Oct-19

Marshy Well Extraction				Daily	Daily
Date	PW-1			Flow	Total
	Gallons	GPM	Run Hrs.	GPM	Gallons
Tue-10/1/19	1,648	1	19.93	1	1,648
Wed-10/2/19	1,034	1	14.68	1	1,034
Thu-10/3/19	986	1	13.27	1	986
Fri-10/4/19	608	1	10.35	0	608
Sat-10/5/19	262	1	0.38	0	262
Sun-10/6/19	-	-	-	-	-
Mon-10/7/19	145	4	0.67	0	145
Tue-10/8/19	122	3	0.65	0	122
Wed-10/9/19	156	2	1.50	0	156
Thu-10/10/19	200	1	2.70	0	200
Fri-10/11/19	84	2	0.82	0	84
Sat-10/12/19	-	-	-	-	-
Sun-10/13/19	-	-	-	-	-
Mon-10/14/19	135	1	1.73	0	135
Tue-10/15/19	151	1	2.22	0	151
Wed-10/16/19	136	1	1.92	0	136
Thu-10/17/19	239	1	4.35	0	239
Fri-10/18/19	-	-	-	-	-
Sat-10/19/19	-	-	-	-	-
Sun-10/20/19	-	-	-	-	-
Mon-10/21/19	-	-	-	-	-
Tue-10/22/19	-	-	-	-	-
Wed-10/23/19	89	1	1.58	0	89
Thu-10/24/19	31	1	0.58	0	31
Fri-10/25/19	21	1	0.45	0	21
Sat-10/26/19	-	-	-	-	-
Sun-10/27/19	-	-	-	-	-
Mon-10/28/19	-	-	-	-	-
Tue-10/29/19	126	2	1.35	0	126
Wed-10/30/19	-	0	0.05	-	-
Thu-10/31/19	-	-	-	-	-
TOTALS	6,173	1	79.18	0	6,173

TOTAL VOLUME EXTRACTED :	6,173 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	0.14 GPM

PW-1 was shut down intermittently due to flow fluctuations
 10/23/19 - Extraction and Treatment were down during communication upgrades.

SOUTHWEST AREA EXTRACTION DATA

Month of: **Oct-19**

SouthWest Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Tue-10/1/19	2,925	2	24.00	35,880	25	24.00	27	38,805
Wed-10/2/19	2,624	2	24.00	35,867	25	24.00	27	38,491
Thu-10/3/19	2,432	2	24.00	35,978	25	24.00	27	38,410
Fri-10/4/19	2,453	2	24.00	35,929	25	24.00	27	38,382
Sat-10/5/19	2,594	2	24.00	35,908	25	24.00	27	38,502
Sun-10/6/19	2,869	2	24.00	35,892	25	24.00	27	38,761
Mon-10/7/19	2,860	2	24.00	35,890	25	24.00	27	38,750
Tue-10/8/19	2,854	2	24.00	35,880	25	24.00	27	38,734
Wed-10/9/19	2,858	2	24.00	35,865	25	24.00	27	38,723
Thu-10/10/19	2,852	2	24.00	35,816	25	24.00	27	38,668
Fri-10/11/19	2,847	2	24.00	35,819	25	24.00	27	38,666
Sat-10/12/19	2,874	2	24.00	35,866	25	24.00	27	38,740
Sun-10/13/19	2,871	2	24.00	35,890	25	24.00	27	38,761
Mon-10/14/19	2,857	2	24.00	35,907	25	24.00	27	38,764
Tue-10/15/19	2,787	2	24.00	35,945	25	24.00	27	38,732
Wed-10/16/19	2,771	2	24.00	35,966	25	24.00	27	38,737
Thu-10/17/19	2,740	2	24.00	35,877	25	24.00	27	38,617
Fri-10/18/19	2,675	2	24.00	35,909	25	24.00	27	38,584
Sat-10/19/19	2,553	2	24.00	35,913	25	24.00	27	38,466
Sun-10/20/19	2,566	2	24.00	35,906	25	24.00	27	38,472
Mon-10/21/19	2,822	2	24.00	35,867	25	24.00	27	38,689
Tue-10/22/19	2,795	2	24.00	35,902	25	24.00	27	38,697
Wed-10/23/19	1,887	2	17.50	26,301	25	17.48	20	28,188
Thu-10/24/19	2,815	2	24.00	36,165	25	24.00	27	38,980
Fri-10/25/19	2,915	2	24.00	36,126	25	24.00	27	39,041
Sat-10/26/19	2,887	2	24.00	36,143	25	24.00	27	39,030
Sun-10/27/19	2,874	2	24.00	35,768	25	24.00	27	38,642
Mon-10/28/19	2,856	2	24.00	35,842	25	24.00	27	38,698
Tue-10/29/19	2,866	2	23.98	35,761	25	23.98	27	38,627
Wed-10/30/19	2,873	2	24.00	35,803	25	24.00	27	38,676
Thu-10/31/19	2,839	2	24.00	40,318	28	24.00	30	43,157
TOTALS	85,291	2	737.48	1,107,899	25	737.47	27	1,193,190

TOTAL VOLUME EXTRACTED :	1,193,190 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	26.73 GPM

10/23/19 - Extraction and Treatment were down during communication upgrades.

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: **Oct-19**

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-10/1/19	-	-	-	-	-	-	240,759	167	24.00	40,132	31	21.27	99,264	69	24.00	264	380,155
Wed-10/2/19	-	-	-	3,942	50	1.32	240,815	167	24.00	44,986	31	24.00	99,252	69	24.00	270	388,995
Thu-10/3/19	-	-	-	-	-	-	241,020	167	24.00	17,780	31	9.47	99,297	69	24.00	249	358,097
Fri-10/4/19	-	-	-	-	-	-	240,980	167	24.00	29,632	31	16.10	99,322	69	24.00	257	369,934
Sat-10/5/19	-	-	-	-	-	-	240,950	167	24.00	44,092	31	24.00	99,257	69	24.00	267	384,299
Sun-10/6/19	-	-	-	-	-	-	240,789	167	23.98	44,296	31	24.00	99,335	69	24.00	267	384,420
Mon-10/7/19	-	-	-	-	-	-	241,160	167	24.00	44,363	31	24.00	99,348	69	24.00	267	384,871
Tue-10/8/19	-	-	-	-	-	-	241,141	167	24.00	44,410	31	24.00	99,256	69	24.00	267	384,807
Wed-10/9/19	-	-	-	-	-	-	238,023	165	24.00	44,414	31	24.00	99,326	69	24.00	265	381,763
Thu-10/10/19	-	-	-	-	-	-	233,949	162	24.00	44,427	31	24.00	99,294	69	24.00	262	377,670
Fri-10/11/19	-	-	-	-	-	-	233,781	162	24.00	44,443	31	24.00	99,274	69	24.00	262	377,498
Sat-10/12/19	-	-	-	-	-	-	233,871	162	24.00	44,499	31	24.00	99,377	69	24.00	262	377,747
Sun-10/13/19	-	-	-	-	-	-	233,934	162	24.00	44,502	31	24.00	99,249	69	24.00	262	377,685
Mon-10/14/19	-	-	-	-	-	-	233,850	162	24.00	44,506	31	24.00	99,243	69	24.00	262	377,599
Tue-10/15/19	-	-	-	-	-	-	233,882	162	24.00	44,547	31	24.00	99,293	69	24.00	262	377,722
Wed-10/16/19	-	-	-	-	-	-	233,815	162	24.00	44,574	31	24.00	99,257	69	24.00	262	377,646
Thu-10/17/19	-	-	-	-	-	-	233,854	162	24.00	44,582	31	24.00	99,222	69	24.00	262	377,658
Fri-10/18/19	-	-	-	-	-	-	233,666	162	24.00	44,598	31	24.00	99,371	69	24.00	262	377,635
Sat-10/19/19	-	-	-	-	-	-	233,631	162	24.00	44,608	31	24.00	99,377	69	24.00	262	377,616
Sun-10/20/19	-	-	-	-	-	-	233,677	162	24.00	44,604	31	24.00	99,317	69	24.00	262	377,598
Mon-10/21/19	-	-	-	-	-	-	233,642	162	24.00	44,597	31	24.00	99,250	69	24.00	262	377,489
Tue-10/22/19	-	-	-	-	-	-	233,716	162	24.00	44,633	31	24.00	99,317	69	24.00	262	377,666
Wed-10/23/19	-	-	-	-	-	-	164,671	157	17.48	32,653	31	17.58	72,633	69	17.55	187	269,957
Thu-10/24/19	-	-	-	-	-	-	219,199	152	24.00	44,016	31	24.00	99,253	69	24.00	252	362,468
Fri-10/25/19	-	-	-	-	-	-	219,157	152	24.00	43,976	31	24.00	99,236	69	24.00	252	362,369
Sat-10/26/19	-	-	-	-	-	-	219,153	152	24.00	44,064	31	24.00	99,318	69	24.00	252	362,535
Sun-10/27/19	-	-	-	-	-	-	219,154	152	24.00	44,454	31	24.00	99,383	69	24.00	252	362,991
Mon-10/28/19	-	-	-	-	-	-	216,031	150	24.00	44,511	31	24.00	99,262	69	24.00	250	359,804
Tue-10/29/19	-	-	-	-	-	-	222,844	155	24.00	44,517	31	24.00	99,306	69	24.00	255	366,667
Wed-10/30/19	-	-	-	-	-	-	222,045	157	23.53	43,762	31	23.50	97,194	69	23.47	252	363,001
Thu-10/31/19	-	-	-	-	-	-	231,263	165	23.35	42,546	31	22.93	94,873	69	22.90	256	368,682
TOTALS	-	-	-	3,942	50	1.32	7,138,422	162	736.35	1,317,724	31	710.85	3,044,956	69	735.92	258	11,505,044

TOTAL VOLUME EXTRACTED :	11,505,044 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	257.73 GPM

10/1/19, 10/3/19 - 10/4/19 - TW-19 was shut down due to DTE Energy power issues.
 10/23/19 - Extraction and Treatment was down during communication upgrades.
 10/31/19 - TW-19 and TW-23 were shut down briefly due to a DTE Energy power outage in the area.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
07/17/19	44
08/05/19	57
09/04/19	56
10/03/19	36

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
07/03/19	82
08/05/19	99
09/04/19	88
10/03/19	81

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-10-02-19-09:15-1	10/02/19	120
TW-1-10-02-19-10:16-1	10/02/19	38
TW-10-10-02-19-10:08-1	10/02/19	380
TW-14-10-02-19-10:03-1	10/02/19	17
TW-20-10-02-19-09:33-1	10/02/19	880
TW-3-10-02-19-10:24-1	10/02/19	39
LB-4-10-02-19-08:35-1	10/02/19	460
TW-21-10-02-19-08:55-1	10/02/19	210
TW-9-10-02-19-09:50-1	10/02/19	530
TW-17-10-02-19-10:06-1	10/02/19	330
TW-18-10-02-19-09:10-1	10/02/19	250
TW-19-10-02-19-08:10-1	10/02/19	590
TW-23-10-02-19-08:13-1	10/02/19	440
PW-1-10-02-19-09:23-1	10/02/19	630
TW-22-10-02-19-09:42-1	10/02/19	460
TW-28-10-02-19-09:38-1	10/02/19	630

RED POND DATA

Month of: **Oct-19**

			Red Pond				
Date	Time	Notes	Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Tue-10/1/19	04:00:00.000		Y	3.7	-	24.00	485
Wed-10/2/19	04:00:00.000		Y	4.0	-	24.00	503
Thu-10/3/19	04:00:00.000		Y	3.8	-	24.00	469
Fri-10/4/19	04:00:00.000		Y	3.7	-	24.00	477
Sat-10/5/19	04:00:00.000	(1)		3.7	-	24.00	487
Sun-10/6/19	04:00:00.000	(1)		3.8	-	24.00	487
Mon-10/7/19	04:00:00.000		Y	3.8	-	24.00	484
Tue-10/8/19	04:00:00.000		Y	3.8	-	24.00	487
Wed-10/9/19	04:00:00.000		Y	3.7	-	24.00	484
Thu-10/10/19	04:00:00.000		Y	3.8	-	24.00	488
Fri-10/11/19	04:00:00.000		Y	4.0	-	24.00	488
Sat-10/12/19	04:00:00.000	(1)		4.0	-	24.00	488
Sun-10/13/19	04:00:00.000	(1)		4.1	-	24.00	488
Mon-10/14/19	04:00:00.000		Y	4.1	-	24.00	488
Tue-10/15/19	04:00:00.000		Y	4.3	-	24.00	489
Wed-10/16/19	04:00:00.000		Y	4.3	-	24.00	490
Thu-10/17/19	04:00:00.000		Y	4.5	-	24.00	491
Fri-10/18/19	04:00:00.000		Y	4.5	-	24.00	490
Sat-10/19/19	04:00:00.000	(1)		4.6	-	24.00	491
Sun-10/20/19	04:00:00.000	(1)		4.6	-	24.00	491
Mon-10/21/19	04:00:00.000		Y	4.9	-	24.00	491
Tue-10/22/19	04:00:00.000		Y	5.0	-	24.00	491
Wed-10/23/19	04:00:00.000		Y	4.3	-	17.58	479
Thu-10/24/19	04:00:00.000		Y	4.1	-	24.00	471
Fri-10/25/19	04:00:00.000		Y	3.9	-	24.00	471
Sat-10/26/19	04:00:00.000	(1)		4.0	-	24.00	471
Sun-10/27/19	04:00:00.000	(1)		4.0	-	24.00	471
Mon-10/28/19	04:00:00.000		Y	3.9	-	24.00	469
Tue-10/29/19	04:00:00.000		Y	3.8	-	24.00	478
Wed-10/30/19	04:00:00.000		Y	3.7	-	24.00	478
Thu-10/31/19	04:00:00.000		Y	4.1	-	24.00	485
TOTALS			-	-	-	738	

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-10-07-19-08:50-1	10/7/2019	380
Red Pond-10-14-19-08:23-1	10/14/2019	340
Red Pond-10-21-19-09:07-1	10/21/2019	360
Red Pond-10-28-19-10:30-1	10/28/2019	360

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

OZONE OPERATION REPORT

Month of: **Oct-19**

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-10/1/19	14:00:00.00		239	23.85	0	0.00	240	23.87	0	0.00
Wed-10/2/19	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-10/3/19	14:00:00.00		239	24.00	0	0.00	241	24.00	0	0.00
Fri-10/4/19	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-10/5/19	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-10/6/19	14:00:00.00	(1)	240	24.00	0	0.00	241	24.00	0	0.00
Mon-10/7/19	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-10/8/19	14:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Wed-10/9/19	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-10/10/19	14:00:00.00		239	24.00	0	0.00	239	24.00	0	0.00
Fri-10/11/19	14:00:00.00		239	24.00	0	0.00	239	24.00	0	0.00
Sat-10/12/19	14:00:00.00	(1)	239	24.00	0	0.00	241	24.00	0	0.00
Sun-10/13/19	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Mon-10/14/19	14:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Tue-10/15/19	14:00:00.00		240	23.73	0	0.00	241	23.77	0	0.00
Wed-10/16/19	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-10/17/19	14:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Fri-10/18/19	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-10/19/19	14:00:00.00	(1)	239	24.00	0	0.00	239	24.00	0	0.00
Sun-10/20/19	14:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-10/21/19	14:00:00.00		239	23.52	0	0.00	240	23.48	0	0.00
Tue-10/22/19	14:00:00.00		240	24.00	0	0.00	238	24.00	0	0.00
Wed-10/23/19	14:00:00.00		239	19.75	0	0.00	240	19.78	0	0.00
Thu-10/24/19	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Fri-10/25/19	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Sat-10/26/19	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-10/27/19	14:00:00.00	(1)	240	23.03	0	0.00	240	23.23	0	0.00
Mon-10/28/19	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Tue-10/29/19	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-10/30/19	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-10/31/19	14:00:00.00		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.

10/23/19 - Extraction and Treatment were down during communication upgrades.

GREEN POND / DISCHARGE DATA

Month of: **Oct-19**

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		
Tue-10/1/19	14:00:00.00		Y	-	-				497	709,679	23.80	-	-	-	-	-	-			
Wed-10/2/19	14:00:00.00		Y	-	-				498	716,676	24.00	-	-	-	-	-	-			
Thu-10/3/19	14:00:00.00		Y	-	-				497	716,320	24.00	-	-	-	-	-	-			
Fri-10/4/19	14:00:00.00		Y	-	-				497	716,180	24.00	-	-	-	-	-	-			
Sat-10/5/19	14:00:00.00	(1)		-	-				497	716,133	24.00	-	-	-	-	-	-			
Sun-10/6/19	14:00:00.00	(1)		-	-				497	716,239	24.00	-	-	-	-	-	-			
Mon-10/7/19	14:00:00.00		Y	-	-				497	716,271	24.00	-	-	-	-	-	-			
Tue-10/8/19	14:00:00.00		Y	-	-				497	716,024	24.00	-	-	-	-	-	-			
Wed-10/9/19	14:00:00.00		Y	-	-				497	715,995	24.00	-	-	-	-	-	-			
Thu-10/10/19	14:00:00.00		Y	-	-				491	707,373	24.00	-	-	-	-	-	-			
Fri-10/11/19	14:00:00.00		Y	-	-				497	716,100	24.00	-	-	-	-	-	-			
Sat-10/12/19	14:00:00.00	(1)		-	-				497	715,866	24.00	-	-	-	-	-	-			
Sun-10/13/19	14:00:00.00	(1)		-	-				497	715,795	24.00	-	-	-	-	-	-			
Mon-10/14/19	14:00:00.00		Y	-	-				497	715,699	24.00	-	-	-	-	-	-			
Tue-10/15/19	14:00:00.00		Y	-	-				496	706,861	23.75	-	-	-	-	-	-			
Wed-10/16/19	14:00:00.00		Y	-	-				497	715,856	24.00	-	-	-	-	-	-			
Thu-10/17/19	14:00:00.00		Y	-	-				497	715,642	24.00	-	-	-	-	-	-			
Fri-10/18/19	14:00:00.00		Y	-	-				497	715,730	24.00	-	-	-	-	-	-			
Sat-10/19/19	14:00:00.00	(1)		-	-				497	715,835	24.00	-	-	-	-	-	-			
Sun-10/20/19	14:00:00.00	(1)		-	-				497	715,979	24.00	-	-	-	-	-	-			
Mon-10/21/19	14:00:00.00		Y	-	-				497	699,741	23.47	-	-	-	-	-	-			
Tue-10/22/19	14:00:00.00		Y	-	-				496	714,790	24.00	-	-	-	-	-	-			
Wed-10/23/19	14:00:00.00		Y	-	-				496	585,416	19.67	-	-	-	-	-	-			
Thu-10/24/19	14:00:00.00		Y	-	-				495	713,152	24.00	-	-	-	-	-	-			
Fri-10/25/19	14:00:00.00		Y	-	-				497	715,579	24.00	-	-	-	-	-	-			
Sat-10/26/19	14:00:00.00	(1)		-	-				497	715,521	24.00	-	-	-	-	-	-			
Sun-10/27/19	14:00:00.00	(1)		-	-				496	682,952	22.95	-	-	-	-	-	-			
Mon-10/28/19	14:00:00.00		Y	-	-				497	715,647	24.00	-	-	-	-	-	-			
Tue-10/29/19	14:00:00.00		Y	-	-				497	715,786	24.00	-	-	-	-	-	-			
Wed-10/30/19	14:00:00.00		Y	-	-				497	715,510	24.00	-	-	-	-	-	-			
Thu-10/31/19	14:00:00.00		Y	-	-				497	715,652	24.00	-	-	-	-	-	-			
TOTALS				-	-				-	21,985,999	738	-	-	-	-	-	-			

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
10/1/2019	0.710	*G	*G	5.6		<50	<0.16	no	no	6.8	6.8	6	20
10/2/2019	0.717			5.8		<50	<0.16	yes	yes	6.8	6.8	7.2	
10/3/2019	0.716			5.2		<50	<0.16	no	no	6.9	6.9	6	
10/4/2019	0.716					<50	<0.16	no	yes	6.9	6.9		25
10/5/2019	0.716												
10/6/2019	0.716			5.4								6.8	
10/7/2019	0.716			5.4	0.380	<50	<0.16	yes	yes	6.8	6.8	5.6	35
10/8/2019	0.716			5.1		<50	<0.16	no	no	6.8	6.8	5.6	
10/9/2019	0.716			5		<50	<0.16	no	yes	6.8	6.8	6.1	
10/10/2019	0.707			5.9		<50	<0.16	no	no	6.8	6.8	6.1	
10/11/2019	0.716					<50	<0.16	no	no	6.7	6.7		45
10/12/2019	0.716												
10/13/2019	0.716			7								5.5	
10/14/2019	0.716			7	0.340	<50	<0.16	yes	yes	6.7	6.7	7.7	45
10/15/2019	0.707			6		<50	<0.16	no	no	6.8	6.8	6.6	
10/16/2019	0.716			4		<50	<0.16	no	yes	6.8	6.8	6	
10/17/2019	0.716			6		<50	<0.16	no	no	6.8	6.8	6.4	
10/18/2019	0.716					<50	<0.16	no	no	6.9	6.9		40
10/19/2019	0.716												
10/20/2019	0.716			5								6	
10/21/2019	0.700			5	0.360	<50	<0.16	yes	yes	6.8	6.8	6	30
10/22/2019	0.715			<1		<50	<0.16	no	no	6.8	6.8	7.5	
10/23/2019	0.585			<1		<50	<0.16	no	yes	6.8	6.8	6.6	
10/24/2019	0.713			5		<50	<0.16	no	no	6.8	6.8	6.2	
10/25/2019	0.716					<50	<0.16	no	no	6.8	6.8		40
10/26/2019	0.716												
10/27/2019	0.683			5.9								5.9	
10/28/2019	0.716			6.2	0.360	<50	<0.16	yes	yes	6.6	6.6	5.7	35
10/29/2019	0.716			6.4		<50	<0.16	no	no	6.7	6.7	5.9	
10/30/2019	0.716			6.6		<50	<0.16	no	yes	6.7	6.7	7.3	
10/31/2019	0.716			5.8		<50	<0.16	no	no	6.8	6.8	6.6	45
Discharged (mg)	21.986												
Monthly Avg				5.2								6.3	