

May 8, 2020

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

**Re: Monitoring Report # 276
April 1 – April 30, 2020**

Dear Ms. Dijak:

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

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.
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: **Apr-20**

Date	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-4/1/20	-	-	-	-	-	-	-	-	-	79,257	55	24.00	55	79,257
Thu-4/2/20	354	177	0.03	4,505	51	1.47	-	-	-	79,290	55	24.00	58	84,149
Fri-4/3/20	-	-	-	-	-	-	-	-	-	79,304	55	24.00	55	79,304
Sat-4/4/20	-	-	-	-	-	-	-	-	-	79,281	55	24.00	55	79,281
Sun-4/5/20	-	-	-	-	-	-	-	-	-	79,228	55	24.00	55	79,228
Mon-4/6/20	-	-	-	-	-	-	-	-	-	79,275	55	24.00	55	79,275
Tue-4/7/20	-	-	-	-	-	-	-	-	-	75,179	54	23.00	52	75,179
Wed-4/8/20	-	-	-	-	-	-	-	-	-	56,585	49	19.12	39	56,585
Thu-4/9/20	-	-	-	-	-	-	-	-	-	72,033	50	24.00	50	72,033
Fri-4/10/20	-	-	-	-	-	-	-	-	-	71,991	50	24.00	50	71,991
Sat-4/11/20	-	-	-	-	-	-	-	-	-	72,057	50	24.00	50	72,057
Sun-4/12/20	-	-	-	-	-	-	-	-	-	72,081	50	24.00	50	72,081
Mon-4/13/20	-	-	-	-	-	-	-	-	-	72,055	50	24.00	50	72,055
Tue-4/14/20	-	-	-	-	-	-	-	-	-	71,986	50	24.00	50	71,986
Wed-4/15/20	-	-	-	-	-	-	-	-	-	71,975	50	24.00	50	71,975
Thu-4/16/20	-	-	-	-	-	-	-	-	-	72,001	50	24.00	50	72,001
Fri-4/17/20	-	-	-	-	-	-	-	-	-	71,991	50	24.00	50	71,991
Sat-4/18/20	-	-	-	-	-	-	-	-	-	72,052	50	24.00	50	72,052
Sun-4/19/20	-	-	-	-	-	-	-	-	-	72,055	50	24.00	50	72,055
Mon-4/20/20	-	-	-	-	-	-	-	-	-	72,052	50	24.00	50	72,052
Tue-4/21/20	-	-	-	-	-	-	-	-	-	72,038	50	24.00	50	72,038
Wed-4/22/20	-	-	-	-	-	-	-	-	-	67,247	56	20.00	47	67,247
Thu-4/23/20	-	-	-	-	-	-	-	-	-	79,262	55	24.00	55	79,262
Fri-4/24/20	-	-	-	-	-	-	-	-	-	79,351	55	24.00	55	79,351
Sat-4/25/20	-	-	-	-	-	-	-	-	-	79,320	55	24.00	55	79,320
Sun-4/26/20	-	-	-	-	-	-	-	-	-	79,341	55	24.00	55	79,341
Mon-4/27/20	-	-	-	-	-	-	-	-	-	79,350	55	24.00	55	79,350
Tue-4/28/20	-	-	-	-	-	-	-	-	-	79,413	55	24.00	55	79,413
Wed-4/29/20	-	-	-	-	-	-	-	-	-	79,367	55	24.00	55	79,367
Thu-4/30/20	-	-	-	-	-	-	-	-	-	73,555	51	24.00	51	73,555
TOTALS	354	177	0.03	4,505	51	1.47	-	-	-	2,239,972	53	710.12	52	2,244,831

TOTAL VOLUME EXTRACTED :	2,244,831 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	51.96 GPM

4/7/20 - 4/8/20 - Extraction and Treatment were shut down due to a DTE Energy power outage.
 4/22/20 - TW-21 was shut down briefly for a DTE Energy power outage.

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: **Apr-20**

Date	LB-1			LB-4			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-4/1/20	-	-	-	144,156	100	24.00	100	144,156
Thu-4/2/20	-	-	-	144,122	100	24.00	100	144,122
Fri-4/3/20	-	-	-	143,971	100	23.96	100	143,971
Sat-4/4/20	-	-	-	144,204	100	24.00	100	144,204
Sun-4/5/20	-	-	-	144,169	100	24.00	100	144,169
Mon-4/6/20	-	-	-	144,170	100	24.00	100	144,170
Tue-4/7/20	-	-	-	140,737	100	23.43	98	140,737
Wed-4/8/20	-	-	-	112,833	100	18.78	78	112,833
Thu-4/9/20	-	-	-	144,172	100	24.00	100	144,172
Fri-4/10/20	-	-	-	144,205	100	24.00	100	144,205
Sat-4/11/20	-	-	-	144,195	100	24.00	100	144,195
Sun-4/12/20	-	-	-	144,167	100	24.00	100	144,167
Mon-4/13/20	-	-	-	144,193	100	24.00	100	144,193
Tue-4/14/20	-	-	-	144,185	100	24.00	100	144,185
Wed-4/15/20	-	-	-	144,171	100	24.00	100	144,171
Thu-4/16/20	-	-	-	144,196	100	24.00	100	144,196
Fri-4/17/20	-	-	-	144,191	100	24.00	100	144,191
Sat-4/18/20	-	-	-	144,131	100	24.00	100	144,131
Sun-4/19/20	-	-	-	144,134	100	24.00	100	144,134
Mon-4/20/20	-	-	-	144,160	100	24.00	100	144,160
Tue-4/21/20	-	-	-	144,178	100	24.00	100	144,178
Wed-4/22/20	-	-	-	144,203	100	24.00	100	144,203
Thu-4/23/20	-	-	-	144,166	100	24.00	100	144,166
Fri-4/24/20	-	-	-	144,174	100	24.00	100	144,174
Sat-4/25/20	-	-	-	144,154	100	24.00	100	144,154
Sun-4/26/20	-	-	-	144,156	100	24.00	100	144,156
Mon-4/27/20	-	-	-	144,190	100	24.00	100	144,190
Tue-4/28/20	-	-	-	144,217	100	24.00	100	144,217
Wed-4/29/20	-	-	-	144,165	100	24.00	100	144,165
Thu-4/30/20	-	-	-	144,160	100	24.00	100	144,160
TOTALS	-	-	-	4,290,225	100	714.17	99	4,290,225

TOTAL VOLUME EXTRACTED :	4,290,225 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	99.31 GPM

4/7/20 - 4/8/20 - Extraction and Treatment were shut down due to a DTE Energy power outage.

TABLE #3

CORE AREA EXTRACTION DATA

Month of: **Apr-20**

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.		
Wed-4/1/20	-	-	-	28,577	20	24.00	-	-	-	-	-	-	-	-	-	43,020	30	24.00	50	71,597
Thu-4/2/20	5,478	60	1.53	28,930	20	24.00	4,159	40	1.72	3,404	39	1.45	3,060	35	1.45	43,204	30	24.00	61	88,235
Fri-4/3/20	-	-	-	28,114	20	22.95	-	-	-	-	-	-	-	-	-	41,274	30	22.95	48	69,388
Sat-4/4/20	-	-	-	29,782	21	24.00	-	-	-	-	-	-	-	-	-	43,120	30	24.00	51	72,902
Sun-4/5/20	-	-	-	29,931	21	24.00	-	-	-	-	-	-	-	-	-	43,129	30	24.00	51	73,060
Mon-4/6/20	-	-	-	30,248	21	24.00	-	-	-	-	-	-	-	-	-	43,119	30	24.00	51	73,367
Tue-4/7/20	-	-	-	29,270	21	22.77	-	-	-	-	-	-	-	-	-	31,858	24	22.48	42	61,128
Wed-4/8/20	-	-	-	19,038	17	18.82	-	-	-	-	-	-	-	-	-	22,519	20	18.65	29	41,557
Thu-4/9/20	-	-	-	24,547	17	24.00	-	-	-	-	-	-	-	-	-	28,874	20	24.00	37	53,421
Fri-4/10/20	-	-	-	24,659	17	24.00	-	-	-	-	-	-	-	-	-	28,862	20	24.00	37	53,521
Sat-4/11/20	-	-	-	24,718	17	24.00	-	-	-	-	-	-	-	-	-	28,815	20	24.00	37	53,533
Sun-4/12/20	-	-	-	24,618	17	24.00	-	-	-	-	-	-	-	-	-	28,749	20	24.00	37	53,367
Mon-4/13/20	-	-	-	24,708	17	24.00	-	-	-	-	-	-	-	-	-	28,783	20	24.00	37	53,491
Tue-4/14/20	-	-	-	24,784	17	24.00	-	-	-	-	-	-	-	-	-	28,712	20	24.00	37	53,496
Wed-4/15/20	-	-	-	24,856	17	24.00	-	-	-	-	-	-	-	-	-	28,829	20	24.00	37	53,685
Thu-4/16/20	-	-	-	24,862	17	24.00	-	-	-	-	-	-	-	-	-	28,794	20	24.00	37	53,656
Fri-4/17/20	-	-	-	24,930	17	24.00	-	-	-	-	-	-	-	-	-	28,704	20	24.00	37	53,634
Sat-4/18/20	-	-	-	25,037	17	24.00	-	-	-	-	-	-	-	-	-	28,965	20	24.00	38	54,002
Sun-4/19/20	-	-	-	24,674	17	24.00	-	-	-	-	-	-	-	-	-	28,847	20	23.98	37	53,521
Mon-4/20/20	-	-	-	24,822	17	24.00	-	-	-	-	-	-	-	-	-	40,458	28	24.00	45	65,280
Tue-4/21/20	-	-	-	25,375	18	24.00	-	-	-	-	-	-	-	-	-	43,559	30	24.00	48	68,934
Wed-4/22/20	-	-	-	25,511	18	24.00	-	-	-	-	-	-	-	-	-	43,198	30	24.00	48	68,709
Thu-4/23/20	-	-	-	25,684	18	24.00	-	-	-	-	-	-	-	-	-	43,593	30	24.00	48	69,277
Fri-4/24/20	-	-	-	25,778	18	24.00	-	-	-	-	-	-	-	-	-	43,591	30	24.00	48	69,369
Sat-4/25/20	-	-	-	25,657	18	24.00	-	-	-	-	-	-	-	-	-	43,491	30	24.00	48	69,148
Sun-4/26/20	-	-	-	25,587	18	24.00	-	-	-	-	-	-	-	-	-	43,454	30	23.98	48	69,041
Mon-4/27/20	-	-	-	25,710	18	24.00	-	-	-	-	-	-	-	-	-	43,440	30	24.00	48	69,150
Tue-4/28/20	-	-	-	26,370	18	24.00	-	-	-	-	-	-	-	-	-	43,524	30	24.00	49	69,894
Wed-4/29/20	-	-	-	27,522	19	24.00	-	-	-	-	-	-	-	-	-	43,504	30	24.00	49	71,026
Thu-4/30/20	-	-	-	27,400	19	24.00	-	-	-	-	-	-	-	-	-	43,406	30	24.00	49	70,806
TOTALS	5,478	60	1.53	781,699	18	712.53	4,159	40	1.72	3,404	39	1.45	3,060	35	1.45	1,103,395	26	712.05	44	1,901,195

TOTAL VOLUME EXTRACTED :	1,901,195 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	44.01 GPM

4/3/20 - Dolph & TW-20 were shut down briefly for maintenance.
 4/7/20 - 4/8/20 - Extraction and Treatment were shut down due to a DTE Energy power outage.

MARSHY AREA EXTRACTION DATA

Month of: Apr-20

Marshy Well Extraction				Daily Flow	Daily Total
Date	PW-1 Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-4/1/20	2,374	2	24.00	2	2,374
Thu-4/2/20	2,369	2	24.00	2	2,369
Fri-4/3/20	2,257	2	22.95	2	2,257
Sat-4/4/20	2,354	2	24.00	2	2,354
Sun-4/5/20	2,349	2	24.00	2	2,349
Mon-4/6/20	2,339	2	24.00	2	2,339
Tue-4/7/20	2,212	2	22.77	2	2,212
Wed-4/8/20	1,916	2	18.83	1	1,916
Thu-4/9/20	2,426	2	24.00	2	2,426
Fri-4/10/20	2,430	2	24.00	2	2,430
Sat-4/11/20	2,410	2	24.00	2	2,410
Sun-4/12/20	2,399	2	24.00	2	2,399
Mon-4/13/20	2,398	2	24.00	2	2,398
Tue-4/14/20	2,403	2	24.00	2	2,403
Wed-4/15/20	2,401	2	24.00	2	2,401
Thu-4/16/20	2,401	2	24.00	2	2,401
Fri-4/17/20	2,396	2	24.00	2	2,396
Sat-4/18/20	2,394	2	24.00	2	2,394
Sun-4/19/20	2,390	2	24.00	2	2,390
Mon-4/20/20	2,394	2	24.00	2	2,394
Tue-4/21/20	2,409	2	24.00	2	2,409
Wed-4/22/20	2,387	2	24.00	2	2,387
Thu-4/23/20	2,379	2	24.00	2	2,379
Fri-4/24/20	2,376	2	24.00	2	2,376
Sat-4/25/20	2,373	2	24.00	2	2,373
Sun-4/26/20	2,373	2	24.00	2	2,373
Mon-4/27/20	2,368	2	24.00	2	2,368
Tue-4/28/20	2,361	2	24.00	2	2,361
Wed-4/29/20	2,353	2	24.00	2	2,353
Thu-4/30/20	2,351	2	24.00	2	2,351
TOTALS	70,742	2	712.55	2	70,742

TOTAL VOLUME EXTRACTED :	70,742 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	1.64 GPM

4/3/20 - PW-1 was down briefly for maintenance.

4/7/20 - 4/8/20 - Extraction and Treatment were shut down due to a DTE Energy power outage.

SOUTHWEST AREA EXTRACTION DATA

Month of: **Apr-20**

SouthWest Well Extraction							Daily Flow GPM	Daily Total Gallons
Date	TW22			TW28				
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.		
Wed-4/1/20	2,897	2	24.00	35,762	25	24.00	27	38,659
Thu-4/2/20	2,860	2	24.00	35,747	25	24.00	27	38,607
Fri-4/3/20	2,813	2	24.00	35,827	25	24.00	27	38,640
Sat-4/4/20	2,770	2	24.00	35,822	25	24.00	27	38,592
Sun-4/5/20	2,750	2	24.00	35,796	25	24.00	27	38,546
Mon-4/6/20	2,745	2	24.00	35,795	25	24.00	27	38,540
Tue-4/7/20	2,568	2	22.48	33,543	25	22.48	25	36,111
Wed-4/8/20	2,337	2	18.82	28,325	25	18.82	21	30,662
Thu-4/9/20	2,950	2	24.00	36,227	25	24.00	27	39,177
Fri-4/10/20	2,943	2	24.00	36,255	25	24.00	27	39,198
Sat-4/11/20	2,938	2	24.00	36,223	25	24.00	27	39,161
Sun-4/12/20	2,937	2	24.00	36,191	25	24.00	27	39,128
Mon-4/13/20	2,925	2	24.00	36,208	25	24.00	27	39,133
Tue-4/14/20	2,912	2	24.00	36,161	25	24.00	27	39,073
Wed-4/15/20	2,911	2	24.00	36,175	25	24.00	27	39,086
Thu-4/16/20	2,900	2	24.00	36,136	25	24.00	27	39,036
Fri-4/17/20	2,874	2	24.00	36,153	25	24.00	27	39,027
Sat-4/18/20	2,863	2	24.00	36,181	25	24.00	27	39,044
Sun-4/19/20	2,852	2	24.00	36,178	25	24.00	27	39,030
Mon-4/20/20	2,849	2	24.00	36,209	25	24.00	27	39,058
Tue-4/21/20	2,823	2	24.00	36,201	25	24.00	27	39,024
Wed-4/22/20	2,788	2	24.00	36,237	25	24.00	27	39,025
Thu-4/23/20	2,796	2	24.00	36,279	25	24.00	27	39,075
Fri-4/24/20	2,788	2	24.00	36,283	25	24.00	27	39,071
Sat-4/25/20	2,782	2	24.00	36,251	25	24.00	27	39,033
Sun-4/26/20	2,777	2	24.00	36,239	25	24.00	27	39,016
Mon-4/27/20	2,763	2	24.00	36,249	25	24.00	27	39,012
Tue-4/28/20	2,760	2	24.00	36,242	25	24.00	27	39,002
Wed-4/29/20	2,761	2	24.00	35,935	25	24.00	27	38,696
Thu-4/30/20	2,735	2	24.00	35,733	25	24.00	27	38,468
TOTALS	84,367	2	713.30	1,072,563	25	713.30	27	1,156,930

TOTAL VOLUME EXTRACTED :	1,156,930 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	26.78 GPM

4/7/20 - 4/8/20 - Extraction and Treatment were shut down due to a DTE Energy power outage.

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: Apr-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.		
Wed-4/1/20	-	-	-	-	-	-	218,658	152	24.00	57,535	40	24.00	86,586	60	24.00	252	362,779
Thu-4/2/20	-	-	-	3,056	35	1.45	218,684	152	24.00	57,555	40	24.00	86,566	60	24.00	254	365,861
Fri-4/3/20	-	-	-	-	-	-	209,119	152	22.95	57,565	40	24.00	86,561	60	24.00	245	353,245
Sat-4/4/20	-	-	-	-	-	-	218,678	152	24.00	57,473	40	23.96	86,442	60	23.96	252	362,593
Sun-4/5/20	-	-	-	-	-	-	218,651	152	24.00	57,550	40	24.00	86,597	60	24.00	252	362,798
Mon-4/6/20	-	-	-	-	-	-	218,639	152	24.00	57,587	40	24.00	86,604	60	24.00	252	362,830
Tue-4/7/20	-	-	-	-	-	-	207,378	152	22.75	56,134	40	23.40	84,405	60	23.40	242	347,917
Wed-4/8/20	-	-	-	-	-	-	171,369	152	18.82	45,043	40	18.76	67,726	60	18.76	197	284,138
Thu-4/9/20	-	-	-	-	-	-	218,609	152	24.00	57,653	40	24.00	86,564	60	24.00	252	362,826
Fri-4/10/20	-	-	-	-	-	-	218,574	152	24.00	57,653	40	24.00	86,560	60	24.00	252	362,787
Sat-4/11/20	-	-	-	-	-	-	218,568	152	24.00	57,588	40	24.00	86,566	60	24.00	252	362,722
Sun-4/12/20	-	-	-	-	-	-	218,524	152	24.00	57,527	40	24.00	86,605	60	24.00	252	362,656
Mon-4/13/20	-	-	-	-	-	-	218,508	152	24.00	57,579	40	24.00	86,543	60	24.00	252	362,630
Tue-4/14/20	-	-	-	-	-	-	218,451	152	24.00	57,638	40	24.00	86,559	60	24.00	252	362,648
Wed-4/15/20	-	-	-	-	-	-	218,408	152	24.00	57,588	40	24.00	86,630	60	24.00	252	362,626
Thu-4/16/20	-	-	-	-	-	-	218,363	152	24.00	57,607	40	24.00	86,530	60	24.00	252	362,500
Fri-4/17/20	-	-	-	-	-	-	218,351	152	24.00	57,641	40	24.00	86,613	60	24.00	252	362,605
Sat-4/18/20	-	-	-	-	-	-	218,378	152	24.00	57,600	40	24.00	86,600	60	24.00	252	362,578
Sun-4/19/20	-	-	-	-	-	-	218,356	152	23.98	57,598	40	24.00	86,573	60	24.00	252	362,527
Mon-4/20/20	-	-	-	-	-	-	218,370	152	24.00	57,520	40	24.00	86,624	60	24.00	252	362,514
Tue-4/21/20	-	-	-	-	-	-	218,341	152	24.00	57,523	40	24.00	86,567	60	24.00	252	362,431
Wed-4/22/20	-	-	-	-	-	-	198,150	161	20.53	57,551	40	24.00	86,543	60	24.00	238	342,244
Thu-4/23/20	-	-	-	-	-	-	232,879	162	24.00	57,573	40	24.00	86,608	60	24.00	262	377,060
Fri-4/24/20	-	-	-	-	-	-	232,934	162	24.00	57,550	40	24.00	86,610	60	24.00	262	377,094
Sat-4/25/20	-	-	-	-	-	-	232,926	162	24.00	57,528	40	24.00	86,604	60	24.00	262	377,058
Sun-4/26/20	-	-	-	-	-	-	232,920	162	23.98	57,516	40	24.00	86,600	60	24.00	262	377,036
Mon-4/27/20	-	-	-	-	-	-	232,918	162	24.00	57,494	40	24.00	86,655	60	24.00	262	377,067
Tue-4/28/20	-	-	-	-	-	-	232,953	162	24.00	57,449	40	24.00	86,558	60	24.00	262	376,960
Wed-4/29/20	-	-	-	-	-	-	232,961	162	24.00	57,619	40	24.00	86,540	60	24.00	262	377,120
Thu-4/30/20	-	-	-	-	-	-	221,415	154	24.00	57,592	40	24.00	86,560	60	24.00	254	365,567
TOTALS	-	-	-	3,056	35	1.45	6,571,033	154	709.02	1,713,029	40	714.12	2,576,299	60	714.12	251	10,863,417

TOTAL VOLUME EXTRACTED :	10,863,417 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	261.47 GPM

4/3/20 - TW-18 was shut down briefly for maintenance.
 4/7/20 - 4/8/20 - Extraction and Treatment were shut down due to a DTE Energy power outage.
 4/22/20 - TW-18 was shut down briefly for a DTE Energy power outage.

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
01/06/20	35
02/06/20	37
03/06/20	30
04/06/20	34

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
01/06/20	66
02/25/20	73
03/05/20	65
04/06/20	61

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-04-02-20-10:05-1	04/02/20	110
TW-1-04-02-20-10:30-1	04/02/20	40
TW-10-04-02-20-10:25-1	04/02/20	340
TW-14-04-02-20-10:50-1	04/02/20	34
TW-20-04-02-20-10:10-1	04/02/20	840
TW-3-04-02-20-10:35-1	04/02/20	43
LB-4-04-02-20-09:45-1	04/02/20	420
TW-21-04-02-20-09:50-1	04/02/20	290
TW-9-04-02-20-10:40-1	04/02/20	430
TW-17-04-02-20-10:45-1	04/02/20	210
TW-18-04-02-20-09:55-1	04/02/20	240
TW-19-04-02-20-09:35-1	04/02/20	510
TW-23-04-02-20-09:40-1	04/02/20	330
PW-1-04-02-20-10:00-1	04/02/20	580
TW-22-04-02-20-10:15-1	04/02/20	400
TW-28-04-02-20-10:20-1	04/02/20	660

RED POND DATA

Month of: Apr-20

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Wed-4/1/20	15:45:00.000		Y	4.9	-	24.00	485
Thu-4/2/20	14:00:00.000		Y	4.9	-	24.00	502
Fri-4/3/20	12:15:00.000		Y	4.9	-	24.00	477
Sat-4/4/20	10:30:00.000	(1)		5.0	-	24.00	486
Sun-4/5/20	08:45:00.000	(1)		5.0	-	24.00	486
Mon-4/6/20	07:00:00.000		Y	5.0	-	24.00	486
Tue-4/7/20	05:15:00.000		Y	5.2	-	23.43	472
Wed-4/8/20	04:00:00.000		Y	5.1	-	19.12	460
Thu-4/9/20	04:00:00.000		Y	4.9	-	24.00	468
Fri-4/10/20	04:00:00.000		Y	4.8	-	24.00	468
Sat-4/11/20	04:00:00.000	(1)		4.5	-	24.00	468
Sun-4/12/20	04:00:00.000	(1)		4.2	-	24.00	468
Mon-4/13/20	04:00:00.000		Y	4.1	-	24.00	468
Tue-4/14/20	04:00:00.000		Y	3.9	-	24.00	468
Wed-4/15/20	04:00:00.000		Y	4.1	-	24.00	468
Thu-4/16/20	04:00:00.000		Y	3.9	-	24.00	468
Fri-4/17/20	04:00:00.000		Y	3.7	-	24.00	468
Sat-4/18/20	04:00:00.000	(1)		3.4	-	24.00	468
Sun-4/19/20	04:00:00.000	(1)		3.2	-	24.00	468
Mon-4/20/20	04:00:00.000		Y	3.0	-	24.00	476
Tue-4/21/20	04:00:00.000		Y	2.6	-	24.00	478
Wed-4/22/20	04:00:00.000		Y	2.7	-	24.00	461
Thu-4/23/20	04:00:00.000		Y	3.1	-	24.00	494
Fri-4/24/20	04:00:00.000		Y	3.2	-	24.00	494
Sat-4/25/20	04:00:00.000	(1)		3.3	-	24.00	494
Sun-4/26/20	04:00:00.000	(1)		3.4	-	24.00	494
Mon-4/27/20	04:00:00.000		Y	3.5	-	24.00	494
Tue-4/28/20	04:00:00.000		Y	4.7	-	24.00	494
Wed-4/29/20	04:00:00.000		Y	4.8	-	24.00	495
Thu-4/30/20	04:00:00.000		Y	4.8	-	24.00	483
TOTALS			-	-	-	715	

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-04-06-20-08:20-1	4/6/2020	360
Red Pond-04-13-20-08:20-1	4/13/2020	360
Red Pond-04-20-20-08:30-1	4/20/2020	340
Red Pond-04-27-20-06:42-1	4/27/2020	380

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

OZONE OPERATION REPORT

Month of: Apr-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
Wed-4/1/20	5:45:00.00		240	24.00	0	0.00	241	22.10	0	0.00
Thu-4/2/20	4:00:00.00		240	24.00	0	0.00	238	24.00	0	0.00
Fri-4/3/20	2:15:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Sat-4/4/20	0:30:00.00	(1)	240	24.00	0	0.00	242	23.82	0	0.00
Sun-4/5/20	18:45:00.00	(1)	240	24.00	0	0.00	237	24.00	0	0.00
Mon-4/6/20	17:00:00.00		240	23.88	0	0.00	241	23.88	0	0.00
Tue-4/7/20	15:15:00.00		0	22.43	0	0.00	0	21.42	0	0.00
Wed-4/8/20	14:00:00.00		240	18.63	0	0.00	241	19.67	0	0.00
Thu-4/9/20	14:00:00.00		241	24.00	0	0.00	240	23.93	0	0.00
Fri-4/10/20	14:00:00.00		241	24.00	0	0.00	237	24.00	0	0.00
Sat-4/11/20	14:00:00.00	(1)	240	24.00	0	0.00	238	24.00	0	0.00
Sun-4/12/20	14:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-4/13/20	14:00:00.00		240	24.00	0	0.00	240	23.80	0	0.00
Tue-4/14/20	14:00:00.00		241	24.00	0	0.00	241	24.00	0	0.00
Wed-4/15/20	14:00:00.00		240	22.82	0	0.00	237	22.90	0	0.00
Thu-4/16/20	14:00:00.00		241	24.00	0	0.00	238	24.00	0	0.00
Fri-4/17/20	14:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Sat-4/18/20	14:00:00.00	(1)	241	24.00	0	0.00	240	24.00	0	0.00
Sun-4/19/20	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-4/20/20	14:00:00.00		241	24.00	0	0.00	238	24.00	0	0.00
Tue-4/21/20	14:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Wed-4/22/20	14:00:00.00		241	23.87	0	0.00	240	23.88	0	0.00
Thu-4/23/20	14:00:00.00		241	23.13	0	0.00	238	23.13	0	0.00
Fri-4/24/20	14:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-4/25/20	14:00:00.00	(1)	241	24.00	0	0.00	241	24.00	0	0.00
Sun-4/26/20	14:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-4/27/20	14:00:00.00		241	24.00	0	0.00	239	24.00	0	0.00
Tue-4/28/20	14:00:00.00		241	23.93	0	0.00	240	16.83	0	0.00
Wed-4/29/20	14:00:00.00		241	24.00	0	0.00	242	24.00	0	0.00
Thu-4/30/20	14:00:00.00		242	24.00	0	0.00	242	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.

- 4/1/20 - System 2A was shut down briefly for maintenance
- 4/7/20 - 4/8/20 - Extraction and Treatment were shut down due to a DTE Energy power outage.
- 4/15/20 - Treatment was shut down briefly for maintenance.
- 4/28/20 - System 2A was shut down for maintenance.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: **Apr-20**

			Green Pond																	
Date	Time	Notes	Pond			Influent			Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Level Feet	Aeration Hours	Hours	GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours		
Wed-4/1/20	15:45:00.00		Y	-	-	-	-	-	-	476	685,239	24.00	-	-	-	-	-	-		
Thu-4/2/20	14:00:00.00		Y	-	-	-	-	-	-	497	716,151	24.00	-	-	-	-	-	-		
Fri-4/3/20	12:15:00.00		Y	-	-	-	-	-	-	497	716,293	24.00	-	-	-	-	-	-		
Sat-4/4/20	10:30:00.00	(1)		-	-	-	-	-	-	493	709,870	24.00	-	-	-	-	-	-		
Sun-4/5/20	18:45:00.00	(1)		-	-	-	-	-	-	497	716,170	24.00	-	-	-	-	-	-		
Mon-4/6/20	17:00:00.00		Y	-	-	-	-	-	-	492	708,609	24.00	-	-	-	-	-	-		
Tue-4/7/20	15:15:00.00		Y	-	-	-	-	-	-	494	664,998	22.45	-	-	-	-	-	-		
Wed-4/8/20	14:00:00.00		Y	-	-	-	-	-	-	494	555,391	18.75	-	-	-	-	-	-		
Thu-4/9/20	14:00:00.00		Y	-	-	-	-	-	-	495	712,671	24.00	-	-	-	-	-	-		
Fri-4/10/20	14:00:00.00		Y	-	-	-	-	-	-	497	716,050	24.00	-	-	-	-	-	-		
Sat-4/11/20	14:00:00.00	(1)		-	-	-	-	-	-	497	716,078	24.00	-	-	-	-	-	-		
Sun-4/12/20	14:00:00.00	(1)		-	-	-	-	-	-	497	716,375	24.00	-	-	-	-	-	-		
Mon-4/13/20	14:00:00.00		Y	-	-	-	-	-	-	493	710,216	24.00	-	-	-	-	-	-		
Tue-4/14/20	14:00:00.00		Y	-	-	-	-	-	-	497	716,042	24.00	-	-	-	-	-	-		
Wed-4/15/20	14:00:00.00		Y	-	-	-	-	-	-	495	666,953	22.45	-	-	-	-	-	-		
Thu-4/16/20	14:00:00.00		Y	-	-	-	-	-	-	497	715,871	24.00	-	-	-	-	-	-		
Fri-4/17/20	14:00:00.00		Y	-	-	-	-	-	-	497	715,555	24.00	-	-	-	-	-	-		
Sat-4/18/20	14:00:00.00	(1)		-	-	-	-	-	-	497	715,789	24.00	-	-	-	-	-	-		
Sun-4/19/20	14:00:00.00	(1)		-	-	-	-	-	-	497	716,204	24.00	-	-	-	-	-	-		
Mon-4/20/20	14:00:00.00		Y	-	-	-	-	-	-	497	716,334	24.00	-	-	-	-	-	-		
Tue-4/21/20	14:00:00.00		Y	-	-	-	-	-	-	497	716,160	24.00	-	-	-	-	-	-		
Wed-4/22/20	14:00:00.00		Y	-	-	-	-	-	-	496	708,491	23.80	-	-	-	-	-	-		
Thu-4/23/20	14:00:00.00		Y	-	-	-	-	-	-	496	685,632	23.05	-	-	-	-	-	-		
Fri-4/24/20	14:00:00.00		Y	-	-	-	-	-	-	497	715,502	24.00	-	-	-	-	-	-		
Sat-4/25/20	14:00:00.00	(1)		-	-	-	-	-	-	497	715,499	24.00	-	-	-	-	-	-		
Sun-4/26/20	14:00:00.00	(1)		-	-	-	-	-	-	497	715,446	24.00	-	-	-	-	-	-		
Mon-4/27/20	14:00:00.00		Y	-	-	-	-	-	-	497	715,611	24.00	-	-	-	-	-	-		
Tue-4/28/20	14:00:00.00		Y	-	-	-	-	-	-	419	602,995	24.00	-	-	-	-	-	-		
Wed-4/29/20	14:00:00.00		Y	-	-	-	-	-	-	497	716,087	24.00	-	-	-	-	-	-		
Thu-4/30/20	14:00:00.00		Y	-	-	-	-	-	-	497	715,996	24.00	-	-	-	-	-	-		
TOTALS											21,014,278	711								

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
4/1/2020	0.685			5		<50	<0.16	yes	yes	6.7	6.7	8.7	106
4/2/2020	0.716			4.9		<50	<0.16	no	no	7.1	7.1	7.4	
4/3/2020	0.716					<50	<0.16	no	yes	7.0	7.0		40
4/4/2020	0.710												
4/5/2020	0.716			5.3								7.4	
4/6/2020	0.709			5	0.360	<50	<0.16	yes	yes	7.1	7.1	7.4	36
4/7/2020	0.665			5.9		<50	<0.16	no	no	7.1	7.1	6.8	
4/8/2020	0.555			5.6		<50	<0.16	no	yes	7.1	7.1	7.8	30
4/9/2020	0.713			4.5		<50	<0.16	no	no	7.2	7.2	7.2	
4/10/2020	0.716					<50	<0.16	no	no	7.1	7.1		
4/11/2020	0.716												
4/12/2020	0.716			4.4								7.5	
4/13/2020	0.710			20.0	0.360	<50	<0.16	yes	yes	7.1	7.1	7.3	40
4/14/2020	0.716			4.4		<50	<0.16	no	no	7.1	7.1	7.5	
4/15/2020	0.667			4.3		<50	<0.16	no	yes	7.1	7.1	7.2	28
4/16/2020	0.716			4.8		<50	<0.16	no	no	7.1	7.1	7.7	
4/17/2020	0.716					<50	<0.16	no	no	7.2	7.2		
4/18/2020	0.716												
4/19/2020	0.716	230	1.344	5.0								8.4	
4/20/2020	0.716			4.0	0.340	<50	<0.16	yes	yes	7.3	7.3	8	30
4/21/2020	0.716			5.0		<50	<0.16	no	no	7.2	7.2	8.4	
4/22/2020	0.708			4.0		<50	<0.16	no	yes	7.2	7.2	9.2	36
4/23/2020	0.686			4.0		<50	<0.16	no	no	7.4	7.4	8.2	
4/24/2020	0.716					<50	<0.16	no	no	7.2	7.2		
4/25/2020	0.715												
4/26/2020	0.715			4.4								7.9	
4/27/2020	0.716			4.0	0.380	<50	<0.16	yes	yes	7.3	7.3	7.9	56
4/28/2020	0.603			4.7		<50	<0.16	no	no	7.0	7.0	8.3	
4/29/2020	0.716			4.8		<50	<0.16	no	yes	7.1	7.1	8.4	54
4/30/2020	0.716			4.8		<50	<0.16	no	no	7.1	7.1	8.2	
Discharged (mg)	21.014												
Monthly Avg				5.4								7.6	