FLEIS&VANDENBRINK
DESIGN. BUILD. OPERATE.

July 20, 2022

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

Re: Monitoring Report #302
June 1 – June 30, 2022

Dear Ms. Carver:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0048453, please find the enclosed Monitoring Report for the period of June 1 through June 30, 2022.

Should you have any questions or concerns regarding this report, please contact me at 269-993-7585.

Sincerely,

FLEIS & VANDENBRINK

Jim Brode, CPG
Senior Project Manager

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

4798 Campus Drive
Kalamazoo, MI 49008
P: 269.385.0011
F: 269.382.6972
www.fveng.com

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TABLE #1

UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: Jun-22

	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
Date	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
Wed-6/1/22	-		-	19,442	41	7.95	-		-	144,396	100	24.00	114	163,838
Thu-6/2/22	-		-	13,986	40	5.77	-		-	136,558	100	22.72	105	150,544
Fri-6/3/22	-		-	58,523	41	24.00	-		-	144,349	100	24.00	141	202,872
Sat-6/4/22	-		-	58,445	41	24.00	-		-	144,338	100	24.00	141	202,783
Sun-6/5/22	-		-	60,383	42	24.00	-		-	144,316	100	24.00	142	204,699
Mon-6/6/22	-		-	23,102	50	7.73	-		-	56,670	100	9.47	55	79,772
Tue-6/7/22	-		-	-		-	-		-	44,324	100	7.37	31	44,324
Wed-6/8/22	-		-	41,183	50	13.65	43,508	49	14.65	144,290	100	24.00	159	228,981
Thu-6/9/22	-	0	0.02	72,469	50	24.00	70,689	49	23.83	144,319	100	24.00	200	287,477
Fri-6/10/22	-		-	71,258	49	24.00	72,391	50	24.00	144,322	100	24.00	200	287,971
Sat-6/11/22	-		-	71,499	50	24.00	72,408	50	24.00	144,372	100	24.00	200	288,279
Sun-6/12/22	-		-	70,834	49	24.00	72,395	50	24.00	144,369	100	24.00	200	287,598
Mon-6/13/22	-		-	71,429	50	24.00	72,436	50	24.00	137,636	100	22.88	195	281,501
Tue-6/14/22	-		-	71,866	50	24.00	72,393	50	24.00	144,356	100	24.00	200	288,615
Wed-6/15/22	-		-	71,845	50	24.00	72,422	50	24.00	144,455	100	24.00	201	288,722
Thu-6/16/22	-		-	71,531	50	24.00	71,805	50	24.00	144,442	100	24.00	200	287,778
Fri-6/17/22	-		-	71,254	49	24.00	72,426	50	24.00	144,403	100	24.00	200	288,083
Sat-6/18/22	-		-	71,454	50	24.00	72,431	50	24.00	144,331	100	24.00	200	288,216
Sun-6/19/22	-		-	71,699	50	24.00	72,413	50	24.00	144,326	100	24.00	200	288,438
Mon-6/20/22	-		-	71,908	50	24.00	72,446	50	24.00	144,367	100	24.00	201	288,721
Tue-6/21/22	-		-	22,601	50	7.53	19,657	50	6.62	144,446	100	24.00	130	186,704
Wed-6/22/22	-		-	-		-	-		-	144,469	100	24.00	100	144,469
Thu-6/23/22	-		-	-		-	-		-	144,373	100	24.00	100	144,373
Fri-6/24/22	-		-	56,794	50	19.03	60,666	50	20.42	144,409	100	24.00	182	261,869
Sat-6/25/22	-		-	71,575	50	24.00	72,455	50	24.00	144,421	100	24.00	200	288,451
Sun-6/26/22	-		-	72,439	50	24.00	59,444	41	24.00	144,383	100	24.00	192	276,266
Mon-6/27/22	-		-	47,110	33	24.00	50,631	35	24.00	144,361	100	24.00	168	242,102
Tue-6/28/22	-		-	36,546	25	24.00	50,237	35	24.00	144,351	100	24.00	161	231,134
Wed-6/29/22	-		-	36,800	26	24.00	50,092	35	24.00	144,391	100	24.00	161	231,283
Thu-6/30/22	-		-	36,758	26	24.00	50,065	35	24.00	144,354	100	24.00	161	231,177
	-		-	-		-	-		-	-		-		
TOTALS	**-**	**0**	**0.02**	**1,514,733**	**45**	**565.67**	**1,323,410**	**47**	**473.52**	**4,128,897**	**100**	**686.44**	**161**	**6,967,040**

TOTAL VOLUME EXTRACTED :	6,967,040 GALLONS
DAYS IN MONTH :	30 DAYS
MONTHLY AVERAGE FLOW RATE :	161.27 GPM

6/1/22 to 6/2/22 TW-9 was shut down for maintenance
6/6/22 to 6/8/22 TW-9 was shut down for maintenance
6/21/22 to 6/24/22 TW-9 was shut down for pond level management
6/1/22 to 6/8/22 TW-5 was shut down for maintenance
6/21/22 to 6/24/22 TW-5 was shut down for pond level management
6/2/22 TW-21 was shut down due to internet interruption
6/6/22 to 6/7/22 TW-21 was shut down for maintenance
6/13/22 TW-21 was shut down for maintenance

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TABLE #2

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Jun-22

Date	LB-1 Gallons	GPM	Run Hrs.	LB-4 Gallons	GPM	Run Hrs.	Daily Flow GPM	Daily Total Gallons
Wed-6/1/22	-		-	144,188	100	24.00	100	144,188
Thu-6/2/22	-		-	144,179	100	24.00	100	144,179
Fri-6/3/22	-		-	144,186	100	24.00	100	144,186
Sat-6/4/22	-		-	144,186	100	24.00	100	144,186
Sun-6/5/22	-		-	144,195	100	24.00	100	144,195
Mon-6/6/22	-		-	56,816	100	9.45	39	56,816
Tue-6/7/22	-		-	-		-	0	-
Wed-6/8/22	-		-	85,483	100	14.21	59	85,483
Thu-6/9/22	-		-	144,186	100	24.00	100	144,186
Fri-6/10/22	-		-	144,265	100	24.00	100	144,265
Sat-6/11/22	-		-	144,178	100	24.00	100	144,178
Sun-6/12/22	-		-	144,182	100	24.00	100	144,182
Mon-6/13/22	-		-	39,104	100	6.50	27	39,104
Tue-6/14/22	-		-	-		-	0	-
Wed-6/15/22	-		-	-		-	0	-
Thu-6/16/22	-		-	-		-	0	-
Fri-6/17/22	-		-	76,280	100	12.70	53	76,280
Sat-6/18/22	-		-	144,212	100	24.00	100	144,212
Sun-6/19/22	-		-	144,264	100	24.00	100	144,264
Mon-6/20/22	-		-	144,246	100	24.00	100	144,246
Tue-6/21/22	-		-	144,203	100	24.00	100	144,203
Wed-6/22/22	-		-	144,190	100	24.00	100	144,190
Thu-6/23/22	-		-	144,235	100	24.00	100	144,235
Fri-6/24/22	-		-	144,196	100	24.00	100	144,196
Sat-6/25/22	-		-	144,221	100	24.00	100	144,221
Sun-6/26/22	-		-	144,208	100	24.00	100	144,208
Mon-6/27/22	-		-	144,181	100	24.00	100	144,181
Tue-6/28/22	-		-	144,192	100	24.00	100	144,192
Wed-6/29/22	-		-	144,201	100	24.00	100	144,201
Thu-6/30/22	-		-	144,192	100	24.00	100	144,192
	-		-	-		-		
TOTALS	**-**		**-**	**3,430,169**	**100**	**570.86**	**79**	**3,430,169**

TOTAL VOLUME EXTRACTED :	**3,430,169**	**GALLONS**
DAYS IN MONTH :	**30**	**DAYS**
MONTHLY AVERAGE FLOW RATE :	**79.40**	**GPM**

6/6/22 to 6/8/22 LB-4 was shut down for maintenance
6/13/22 to 6/17/22 LB-4 was shut down for maintenance

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TABLE #3

CORE AREA EXTRACTION DATA

Month of: Jun-22

Core Area Well Extraction

Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			TW-24			TW-25			Daily Flow	Daily 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.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-6/1/22	-		-	-		-	-		-	56,894	40	24.00	-		-	43,350	30	24.00	16,538	11	24.00	-		-	81	116,782
Thu-6/2/22	-		-	-		-	-		-	56,845	39	24.00	-		-	43,220	30	24.00	14,175	10	24.00	-		-	79	114,240
Fri-6/3/22	-		-	-		-	-		-	56,792	39	24.00	-		-	43,187	30	24.00	14,171	10	24.00	-		-	79	114,150
Sat-6/4/22	-		-	-		-	-		-	56,721	39	24.00	-		-	43,134	30	24.00	14,121	10	24.00	-		-	79	113,976
Sun-6/5/22	-		-	-		-	-		-	58,114	40	24.00	-		-	43,119	30	24.00	14,232	10	24.00	-		-	80	115,465
Mon-6/6/22	-		-	-		-	-		-	18,508	40	7.73	-		-	13,861	30	7.70	4,606	10	7.72	-		-	26	36,975
Tue-6/7/22	-		-	-		-	-		-	11,094	25	7.37	-		-	11,203	25	7.37	-		-	-		-	15	22,297
Wed-6/8/22	-		-	27,638	27	16.92	-		-	37,044	26	24.00	-		-	36,541	25	24.00	4,263	10	7.43	-		-	73	105,486
Thu-6/9/22	-		-	39,378	27	24.00	-		-	37,031	26	24.00	-		-	36,428	25	24.00	13,768	10	24.00	-		-	88	126,605
Fri-6/10/22	-		-	39,463	27	24.00	-		-	36,841	26	24.00	-		-	36,248	25	24.00	13,724	10	24.00	-		-	88	126,276
Sat-6/11/22	-		-	39,411	27	24.00	-		-	36,070	25	24.00	-		-	35,980	25	24.00	13,778	10	24.00	-		-	87	125,239
Sun-6/12/22	-		-	39,404	27	24.00	-		-	36,079	25	24.00	-		-	36,017	25	24.00	13,781	10	24.00	-		-	87	125,281
Mon-6/13/22	-		-	39,386	27	24.00	-		-	36,123	25	24.00	-		-	36,014	25	24.00	13,706	10	24.00	-		-	87	125,229
Tue-6/14/22	-		-	39,255	27	24.00	-		-	36,802	26	24.00	-		-	36,004	25	24.00	13,725	10	24.00	-		-	87	125,786
Wed-6/15/22	1,150	50	0.38	39,041	27	24.00	951	45	0.35	36,764	26	24.00	-		-	36,147	25	24.00	13,771	10	24.00	-		-	89	127,824
Thu-6/16/22	-		-	38,908	27	24.00	-		-	36,832	26	24.00	-		-	36,344	25	24.00	13,795	10	24.00	-		-	87	125,879
Fri-6/17/22	-		-	39,042	27	24.00	-		-	36,762	26	24.00	-		-	36,294	25	24.00	13,752	10	24.00	-		-	87	125,850
Sat-6/18/22	-		-	39,058	27	24.00	-		-	36,716	25	24.00	-		-	36,273	25	24.00	13,593	9	24.00	-		-	87	125,640
Sun-6/19/22	-		-	39,032	27	24.00	-		-	36,734	26	24.00	-		-	36,315	25	24.00	13,659	9	24.00	-		-	87	125,740
Mon-6/20/22	-		-	38,985	27	24.00	-		-	36,758	26	24.00	-		-	36,316	25	24.00	13,820	10	24.00	-		-	87	125,879
Tue-6/21/22	-		-	38,883	27	24.00	-		-	11,546	26	7.53	-		-	36,296	25	24.00	13,960	10	24.00	-		-	70	100,685
Wed-6/22/22	-		-	38,848	27	24.00	-		-	-		-	-		-	36,314	25	24.00	14,047	10	24.00	-		-	62	89,209
Thu-6/23/22	-		-	38,915	27	24.00	-		-	-		-	-		-	36,303	25	24.00	14,007	10	24.00	-		-	62	89,225
Fri-6/24/22	-		-	38,879	27	24.00	-		-	28,384	25	19.03	-		-	36,286	25	24.00	13,943	10	24.00	-		-	82	117,492
Sat-6/25/22	-		-	38,866	27	24.00	-		-	22,856	25	15.27	-		-	36,258	25	24.00	13,949	10	24.00	-		-	78	111,929
Sun-6/26/22	-		-	38,867	27	24.00	-		-	-		-	-		-	36,248	25	24.00	14,091	10	24.00	-		-	62	89,206
Mon-6/27/22	-		-	38,922	27	24.00	-		-	-		-	-		-	36,258	25	24.00	13,884	10	24.00	-		-	62	89,064
Tue-6/28/22	-		-	38,916	27	24.00	-		-	-		-	-		-	36,250	25	24.00	13,904	10	24.00	-		-	62	89,070
Wed-6/29/22	-		-	38,902	27	24.00	-		-	-		-	-		-	36,228	25	24.00	13,983	10	24.00	-		-	62	89,113
Thu-6/30/22	-		-	38,827	27	24.00	-		-	-		-	-		-	36,115	25	24.00	13,839	10	24.00	-		-	62	88,781
	-		-	-		-	-		-	-		-	-		-	-		-	-		-	-		-		-
TOTALS	**1,150**	**50**	**0.38**	**886,826**	**27**	**544.92**	**951**	**45**	**0.35**	**854,310**	**29**	**488.93**	**-**		**-**	**1,074,551**	**26**	**687.07**	**386,585**	**10**	**663.15**	**-**		**-**	**74**	**3,204,373**

TOTAL VOLUME EXTRACTED :	3,204,373	GALLONS
DAYS IN MONTH :	30	DAYS
MONTHLY AVERAGE FLOW RATE :	74.18	GPM

6/1/22 to 6/8/22 TW-2 was shut down for maintenance
6/6/22 to 6/7/22 TW-10 was shut down for maintenance
6/21/22 to 6/24/22 TW-10 was shut down for pond level management

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TABLE #4

MARSHY AREA EXTRACTION DATA

Month of: Jun-22

Marshy Well Extraction	PW-1			Daily Flow	Daily Total
Date	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-6/1/22	3,196	2	24.00	2	3,196
Thu-6/2/22	3,194	2	24.00	2	3,194
Fri-6/3/22	3,197	2	24.00	2	3,197
Sat-6/4/22	3,178	2	24.00	2	3,178
Sun-6/5/22	3,146	2	24.00	2	3,146
Mon-6/6/22	994	2	7.70	1	994
Tue-6/7/22	-		-		-
Wed-6/8/22	1,777	2	13.68	1	1,777
Thu-6/9/22	3,186	2	24.00	2	3,186
Fri-6/10/22	3,171	2	24.00	2	3,171
Sat-6/11/22	3,149	2	24.00	2	3,149
Sun-6/12/22	3,229	2	24.00	2	3,229
Mon-6/13/22	3,250	2	24.00	2	3,250
Tue-6/14/22	3,266	2	24.00	2	3,266
Wed-6/15/22	3,350	2	24.00	2	3,350
Thu-6/16/22	3,516	2	24.00	2	3,516
Fri-6/17/22	3,516	2	24.00	2	3,516
Sat-6/18/22	3,453	2	24.00	2	3,453
Sun-6/19/22	3,396	2	24.00	2	3,396
Mon-6/20/22	2,582	2	24.00	2	2,582
Tue-6/21/22	2,435	2	24.00	2	2,435
Wed-6/22/22	2,395	2	24.00	2	2,395
Thu-6/23/22	2,413	2	24.00	2	2,413
Fri-6/24/22	2,409	2	24.00	2	2,409
Sat-6/25/22	2,439	2	24.00	2	2,439
Sun-6/26/22	2,428	2	24.00	2	2,428
Mon-6/27/22	2,563	2	24.00	2	2,563
Tue-6/28/22	2,606	2	24.00	2	2,606
Wed-6/29/22	2,592	2	24.00	2	2,592
Thu-6/30/22	2,577	2	24.00	2	2,577
	-		-		-
TOTALS	**82,603**	**2**	**669.38**	**2**	**82,603**

TOTAL VOLUME EXTRACTED :	**82,603 GALLONS**
DAYS IN MONTH :	**30 DAYS**
MONTHLY AVERAGE FLOW RATE :	**1.91 GPM**

6/6/22 to 6/8/22 PW-1 was shut down for maintenance

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TABLE #5

SOUTHWEST AREA EXTRACTION DATA

Month of: Jun-22

SouthWest Well Extraction							Daily	Daily
	TW22			TW28			Flow	Total
Date	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Wed-6/1/22	-	0	-	36,104	25	24.00	25	36,104
Thu-6/2/22	-	0	-	36,052	25	24.00	25	36,052
Fri-6/3/22	-	0	-	36,013	25	24.00	25	36,013
Sat-6/4/22	-	0	-	35,944	25	24.00	25	35,944
Sun-6/5/22	-	0	-	36,035	25	24.00	25	36,035
Mon-6/6/22	-	0	-	11,568	25	7.70	25	11,568
Tue-6/7/22	-	0	-	10,979	25	7.35	25	10,979
Wed-6/8/22	-	0	-	35,910	25	24.00	25	35,910
Thu-6/9/22	-	0	-	35,929	25	24.00	25	35,929
Fri-6/10/22	-	0	-	35,989	25	24.00	25	35,989
Sat-6/11/22	-	0	-	36,135	25	24.00	25	36,135
Sun-6/12/22	-	0	-	35,929	25	24.00	25	35,929
Mon-6/13/22	-	0	-	36,142	25	24.00	25	36,142
Tue-6/14/22	-	0	-	36,140	25	24.00	25	36,140
Wed-6/15/22	-	0	-	29,585	21	24.00	21	29,585
Thu-6/16/22	-	0	-	35,960	25	24.00	25	35,960
Fri-6/17/22	-	0	-	35,911	25	24.00	25	35,911
Sat-6/18/22	-	0	-	35,873	25	24.00	25	35,873
Sun-6/19/22	-	0	-	35,872	25	24.00	25	35,872
Mon-6/20/22	1,847	2	14.88	36,115	25	24.00	27	37,962
Tue-6/21/22	2,863	2	24.00	36,143	25	24.00	27	39,006
Wed-6/22/22	2,826	2	24.00	36,163	25	24.00	27	38,989
Thu-6/23/22	2,868	2	24.00	36,146	25	24.00	27	39,014
Fri-6/24/22	3,026	2	24.00	36,071	25	24.00	27	39,097
Sat-6/25/22	2,752	2	24.00	36,119	25	24.00	27	38,871
Sun-6/26/22	2,726	2	24.00	36,125	25	24.00	27	38,851
Mon-6/27/22	2,734	2	24.00	36,117	25	24.00	27	38,851
Tue-6/28/22	2,739	2	24.00	36,094	25	24.00	27	38,833
Wed-6/29/22	2,739	2	24.00	36,076	25	24.00	27	38,815
Thu-6/30/22	2,732	2	24.00	36,070	25	24.00	27	38,802
	-	0	-	-	0	-	0	
TOTALS	**29,852**	**1**	**254.88**	**1,025,309**	**24**	**687.05**	**25**	**1,055,161**

TOTAL VOLUME EXTRACTED :	**1,055,161**	**GALLONS**
DAYS IN MONTH :	**30**	**DAYS**
MONTHLY AVERAGE FLOW RATE :	**24.43**	**GPM**

6/1/22 to 6/20/22 TW22 was shut down for maintenance
6/6/22 to 6/7/22 TW28 was shut down for maintenance

GelmanSciences

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: Jun-22

Date	TW-11 Gallons	GPM	Run Hrs.	TW-17 Gallons	GPM	Run Hrs.	TW-18 Gallons	GPM	Run Hrs.	TW-29 Gallons	GPM	Run Hrs.	TW-23 Gallons	GPM	Run Hrs.	Daily Flow GPM	Daily Total Gallons
Wed-6/1/22	-		-	72,216	50	24.00	147,003	102	24.00	72,092	50	24.00	72,082	50	24.00	252	363,393
Thu-6/2/22	-		-	75,702	53	24.00	139,078	102	22.70	65,520	50	21.83	65,625	50	21.83	240	345,925
Fri-6/3/22	-		-	86,620	60	24.00	147,046	102	24.00	71,819	50	24.00	72,100	50	24.00	262	377,585
Sat-6/4/22	-		-	86,612	60	24.00	147,041	102	24.00	71,848	50	24.00	72,107	50	24.00	262	377,608
Sun-6/5/22	-		-	86,606	60	24.00	146,972	102	24.00	71,873	50	24.00	72,117	50	24.00	262	377,568
Mon-6/6/22	-		-	28,035	60	7.78	52,372	102	8.55	28,332	50	9.45	28,436	50	9.45	95	137,175
Tue-6/7/22	-		-	-		-	45,249	102	7.38	-		-	-		-	31	45,249
Wed-6/8/22	-		-	523	58	0.15	147,010	102	24.00	41,418	50	13.76	41,437	50	13.76	160	230,388
Thu-6/9/22	-		-	-		-	147,011	102	24.00	71,070	50	23.68	71,417	50	23.75	201	289,498
Fri-6/10/22	-		-	-		-	147,017	102	24.00	71,995	50	24.00	72,112	50	24.00	202	291,124
Sat-6/11/22	-		-	-		-	147,055	102	24.00	71,921	50	24.00	72,127	50	24.00	202	291,103
Sun-6/12/22	-		-	-		-	147,070	102	24.00	71,862	50	24.00	72,184	50	24.00	202	291,116
Mon-6/13/22	-		-	35,606	60	9.85	147,121	102	24.00	83,757	58	24.00	83,998	58	24.00	243	350,482
Tue-6/14/22	-		-	86,663	60	24.00	147,132	102	24.00	100,784	70	24.00	100,863	70	24.00	302	435,442
Wed-6/15/22	-		-	86,667	60	24.00	147,249	102	24.00	100,634	70	24.00	100,763	70	24.00	302	435,313
Thu-6/16/22	-		-	86,581	60	24.00	147,285	102	24.00	100,763	70	24.00	100,792	70	24.00	302	435,421
Fri-6/17/22	-		-	86,576	60	24.00	147,294	102	24.00	85,302	59	24.00	85,395	59	24.00	281	404,567
Sat-6/18/22	-		-	86,618	60	24.00	147,275	102	24.00	72,013	50	24.00	72,155	50	24.00	263	378,061
Sun-6/19/22	-		-	86,589	60	24.00	147,289	102	24.00	71,985	50	24.00	72,150	50	24.00	263	378,013
Mon-6/20/22	-		-	86,625	60	24.00	147,309	102	24.00	40,083	50	13.36	103,415	72	24.00	262	377,432
Tue-6/21/22	-		-	27,240	60	7.55	147,373	102	24.00	-		-	144,022	100	24.00	221	318,635
Wed-6/22/22	-		-	-		-	147,446	102	24.00	-		-	144,053	100	24.00	202	291,499
Thu-6/23/22	-		-	-		-	147,449	102	24.00	-		-	144,133	100	24.00	202	291,582
Fri-6/24/22	-		-	68,687	60	19.03	147,502	102	24.00	37,685	50	12.55	106,370	74	24.00	250	360,244
Sat-6/25/22	-		-	86,607	60	24.00	147,497	102	24.00	72,010	50	24.00	72,037	50	24.00	263	378,151
Sun-6/26/22	-		-	86,664	60	24.00	147,391	102	24.00	71,997	50	24.00	72,074	50	24.00	263	378,126
Mon-6/27/22	-		-	86,723	60	24.00	147,446	102	24.00	115,277	80	24.00	28,634	50	9.51	263	378,080
Tue-6/28/22	-		-	86,709	60	24.00	147,480	102	24.00	144,026	100	24.00	-		-	263	378,215
Wed-6/29/22	-		-	86,580	60	24.00	147,480	102	24.00	144,030	100	24.00	-		-	263	378,090
Thu-6/30/22	-		-	86,615	60	24.00	147,531	102	24.00	143,421	100	23.88	-		-	262	377,567
	-		-	-		-	-		-	-		-	-		-		
TOTALS	**-**		**-**	**1,694,064**	**59**	**476.37**	**4,212,473**	**102**	**686.63**	**2,093,517**	**60**	**574.51**	**2,142,598**	**61**	**582.30**	**235**	**10,142,652**

TOTAL VOLUME EXTRACTED :	**10,142,652**	**GALLONS**
DAYS IN MONTH :	**30**	**DAYS**
MONTHLY AVERAGE FLOW RATE :	**234.78**	**GPM**

6/6/22 to 6/8/22 TW-17 was shut down for maintenance
6/8/22 to 6/13/22 TW-17 was shut down for maintenance
6/21/22 to 6/24/22 TW-17 was shut down for pond level management
6/2/22 TW-18 was shut down due to internet interuption
6/6/22 to 6/7/22 TW-18 was shut down for maintenance
6/2/22 TW-29 was shut down due to internet interuption
6/6/22 to 6/8/22 TW-29 was shut down for maintenance
6/20/22 to 6/24/22 TW-29 was shut down for maintenance
6/2/22 TW-23 was shut down due to internet interuption
6/6/22 to 6/8/22 TW-23 was shut down for maintenance
6/27 to 6/30 TW-23 was shut down for maintenance

Gelman Sciences

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
03/14/22	39
04/04/22	36
05/06/22	26
06/03/22	21

GelmanSciences

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-06-15-22-14:15-1	06/15/22	120
TW-1-06-15-22-13:30-1	06/15/22	58
TW-10-06-15-22-13:55-1	06/15/22	790
TW-20-06-01-22-07:45-1	06/01/22	590
TW-20-06-15-22-13:50-1	06/15/22	590
TW-24-06-15-22-14:05-1	06/15/22	1900
TW-25-06-15-22-13:45-1	06/15/22	3900
TW-3-06-15-22-13:35-1	06/15/22	40
LB-1-06-17-22-11:15-1	06/17/22	310
LB-4-06-17-22-14:50-1	06/17/22	380
TW-21-06-15-22-14:20-1	06/15/22	210
TW-5-06-15-22-13:05-1	06/15/22	660
TW-9-06-01-22-07:55-1	06/01/22	380
TW-9-06-15-22-13:10-1	06/15/22	470
TW-11-06-16-22-07:50-1	06/16/22	140
TW-17-06-15-22-13:40-1	06/15/22	56
TW-18-06-15-22-14:25-1	06/15/22	230

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TABLE #9

RED POND DATA

Month of: Jun-22

Date	Time	Notes	Red Pond Pond Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM
Wed-6/1/22	04:00:00.000		Y	4.6	-	24.00	575
Thu-6/2/22	04:00:00.000		Y	3.6	-	24.00	551
Fri-6/3/22	04:00:00.000		Y	3.5	-	24.00	610
Sat-6/4/22	04:00:00.000	(1)		3.3	-	24.00	609
Sun-6/5/22	04:00:00.000	(1)		3.2	-	24.00	612
Mon-6/6/22	04:00:00.000		Y	-	-	9.47	569
Tue-6/7/22	04:00:00.000		Y	1.6	-	7.37	278
Wed-6/8/22	04:00:00.000		Y	5.3	-	24.00	478
Thu-6/9/22	04:00:00.000		Y	5.3	-	24.00	616
Fri-6/10/22	04:00:00.000		Y	5.3	-	24.00	617
Sat-6/11/22	04:00:00.000	(1)		5.2	-	24.00	617
Sun-6/12/22	04:00:00.000	(1)		5.2	-	24.00	616
Mon-6/13/22	04:00:00.000		Y	4.6	-	24.00	580
Tue-6/14/22	04:00:00.000		Y	4.7	-	24.00	618
Wed-6/15/22	04:00:00.000		Y	4.6	-	24.00	614
Thu-6/16/22	04:00:00.000		Y	4.7	-	24.00	617
Fri-6/17/22	04:00:00.000		Y	5.3	-	24.00	649
Sat-6/18/22	04:00:00.000	(1)		6.1	-	24.00	677
Sun-6/19/22	04:00:00.000	(1)		6.8	-	24.00	678
Mon-6/20/22	04:00:00.000		Y	7.5	-	24.00	678
Tue-6/21/22	04:00:00.000		Y	6.2	-	24.00	550
Wed-6/22/22	04:00:00.000		Y	4.4	-	24.00	494
Thu-6/23/22	04:00:00.000		Y	2.5	-	24.00	494
Fri-6/24/22	04:00:00.000		Y	3.3	-	24.00	643
Sat-6/25/22	04:00:00.000	(1)		4.0	-	24.00	669
Sun-6/26/22	04:00:00.000	(1)		4.4	-	24.00	645
Mon-6/27/22	04:00:00.000		Y	4.4	-	24.00	621
Tue-6/28/22	04:00:00.000		Y	4.3	-	24.00	614
Wed-6/29/22	04:00:00.000		Y	4.3	-	24.00	614
Thu-6/30/22	04:00:00.000		Y	4.1	-	24.00	613
-			-	-	-	-	-
		TOTALS	-		-	**689**	

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.

Gelman Sciences

TABLE #10

RED POND CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
Red Pond-06-02-22-07:50-1	6/2/2022	360
Red Pond-06-03-22-07:45-1	6/3/2022	380
Red Pond-06-09-22-07:35-1	6/9/2022	390
Red Pond-06-10-22-07:40-1	6/10/2022	390
Red Pond-06-13-22-07:30-1	6/13/2022	410
Red Pond-06-14-22-07:40-1	6/14/2022	360
Red Pond-06-15-22-07:10-1	6/15/2022	390
Red Pond-06-16-22-07:45-1	6/16/2022	370
Red Pond-06-20-22-07:40-1	6/20/2022	370
Red Pond-06-27-22-09:30-1	6/27/2022	340

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

GelmanSciences

TABLE #11

OZONE OPERATION REPORT

Month of: Jun-22

			SYSTEM-1A		SYSTEM-1B		SYSTEM-2A		SYSTEM-2B	
			Flow	Run	Flow	Run	Flow	Run	Flow	Run
Date	Time	Notes	GPM	Hours	GPM	Hours	GPM	Hours	GPM	Hours
Wed-6/1/22	04:00:00.000		240	24.00	537	0.00	382	24.00	0	0.00
Thu-6/2/22	04:00:00.000		240	24.00	537	0.00	381	24.00	0	0.00
Fri-6/3/22	04:00:00.000		239	24.00	537	0.00	379	24.00	0	0.00
Sat-6/4/22	04:00:00.000	(1)	240	24.00	537	0.00	381	24.00	0	0.00
Sun-6/5/22	04:00:00.000	(1)	241	24.00	537	0.00	381	24.00	0	0.00
Mon-6/6/22	04:00:00.000		0	9.50	537	0.00	0	8.48	0	0.00
Tue-6/7/22	04:00:00.000		0	0.00	537	0.00	0	0.00	0	0.00
Wed-6/8/22	04:00:00.000		240	7.67	537	0.00	379	7.63	0	0.00
Thu-6/9/22	04:00:00.000		240	24.00	537	0.00	380	24.00	0	0.00
Fri-6/10/22	04:00:00.000		240	24.00	537	0.00	381	24.00	0	0.00
Sat-6/11/22	04:00:00.000	(1)	241	24.00	537	0.00	380	24.00	0	0.00
Sun-6/12/22	04:00:00.000	(1)	241	24.00	537	0.00	381	24.00	0	0.00
Mon-6/13/22	04:00:00.000		239	24.00	537	0.00	381	24.00	0	0.00
Tue-6/14/22	04:00:00.000		240	24.00	537	0.00	381	24.00	0	0.00
Wed-6/15/22	04:00:00.000		241	24.00	537	0.00	381	24.00	0	0.00
Thu-6/16/22	04:00:00.000		240	24.00	537	0.00	380	24.00	0	0.00
Fri-6/17/22	04:00:00.000		241	24.00	537	0.00	381	24.00	0	0.00
Sat-6/18/22	04:00:00.000	(1)	240	24.00	537	0.00	380	24.00	0	0.00
Sun-6/19/22	04:00:00.000	(1)	241	24.00	537	0.00	380	24.00	0	0.00
Mon-6/20/22	04:00:00.000		239	24.00	537	0.00	381	24.00	0	0.00
Tue-6/21/22	04:00:00.000		241	24.00	537	0.00	381	24.00	0	0.00
Wed-6/22/22	04:00:00.000		241	24.00	537	0.00	381	24.00	0	0.00
Thu-6/23/22	04:00:00.000		240	24.00	537	0.00	381	24.00	0	0.00
Fri-6/24/22	04:00:00.000		239	24.00	537	0.00	381	24.00	0	0.00
Sat-6/25/22	04:00:00.000	(1)	240	24.00	537	0.00	380	24.00	0	0.00
Sun-6/26/22	04:00:00.000	(1)	239	24.00	537	0.00	382	24.00	0	0.00
Mon-6/27/22	04:00:00.000		240	24.00	537	0.00	381	24.00	0	0.00
Tue-6/28/22	04:00:00.000		239	24.00	537	0.00	382	24.00	0	0.00
Wed-6/29/22	04:00:00.000		242	24.00	537	0.00	381	24.00	0	0.00
Thu-6/30/22	04:00:00.000		240	24.00	537	0.00	380	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.

6/6/22 to 6/8/22 System 1A was shut down for maintenance

GelmanSciences

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: **Jun-22**

			Green Pond															
			Pond					Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch	
Date	Time	Notes	Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours
Wed-6/1/22	04:00:00.000		Y	-	-						645	928,630	24.00	-	-	-	-	-	-
Thu-6/2/22	04:00:00.000		Y	-	-						645	928,290	24.00	-	-	-	-	-	-
Fri-6/3/22	04:00:00.000		Y	-	-						644	927,904	24.00	-	-	-	-	-	-
Sat-6/4/22	04:00:00.000	(1)		-	-						644	927,965	24.00	-	-	-	-	-	-
Sun-6/5/22	04:00:00.000	(1)		-	-						644	927,834	24.00	-	-	-	-	-	-
Mon-6/6/22	04:00:00.000		Y	-	-						641	352,528	9.17	-	-	-	-	-	-
Tue-6/7/22	04:00:00.000		Y	-	-							-	-	-	-	-	-	-	-
Wed-6/8/22	04:00:00.000		Y	-	-						584	266,137	7.60	-	-	-	-	-	-
Thu-6/9/22	04:00:00.000		Y	-	-						644	927,841	24.00	-	-	-	-	-	-
Fri-6/10/22	04:00:00.000		Y	-	-						644	927,580	24.00	-	-	-	-	-	-
Sat-6/11/22	04:00:00.000	(1)		-	-						644	927,720	24.00	-	-	-	-	-	-
Sun-6/12/22	04:00:00.000	(1)		-	-						644	927,658	24.00	-	-	-	-	-	-
Mon-6/13/22	04:00:00.000		Y	-	-						644	927,883	24.00	-	-	-	-	-	-
Tue-6/14/22	04:00:00.000		Y	-	-						645	928,302	24.00	-	-	-	-	-	-
Wed-6/15/22	04:00:00.000		Y	-	-						645	928,566	24.00	-	-	-	-	-	-
Thu-6/16/22	04:00:00.000		Y	-	-						645	928,772	24.00	-	-	-	-	-	-
Fri-6/17/22	04:00:00.000		Y	-	-						645	928,417	24.00	-	-	-	-	-	-
Sat-6/18/22	04:00:00.000	(1)		-	-						645	928,094	24.00	-	-	-	-	-	-
Sun-6/19/22	04:00:00.000	(1)		-	-						644	927,790	24.00	-	-	-	-	-	-
Mon-6/20/22	04:00:00.000		Y	-	-						644	927,850	24.00	-	-	-	-	-	-
Tue-6/21/22	04:00:00.000		Y	-	-						644	928,071	24.00	-	-	-	-	-	-
Wed-6/22/22	04:00:00.000		Y	-	-						645	928,627	24.00	-	-	-	-	-	-
Thu-6/23/22	04:00:00.000		Y	-	-						645	928,645	24.00	-	-	-	-	-	-
Fri-6/24/22	04:00:00.000		Y	-	-						645	928,437	24.00	-	-	-	-	-	-
Sat-6/25/22	04:00:00.000	(1)		-	-						645	928,659	24.00	-	-	-	-	-	-
Sun-6/26/22	04:00:00.000	(1)		-	-						645	928,644	24.00	-	-	-	-	-	-
Mon-6/27/22	04:00:00.000		Y	-	-						645	928,282	24.00	-	-	-	-	-	-
Tue-6/28/22	04:00:00.000		Y	-	-						645	928,510	24.00	-	-	-	-	-	-
Wed-6/29/22	04:00:00.000		Y	-	-						645	928,333	24.00	-	-	-	-	-	-
Thu-6/30/22	04:00:00.000		Y	-	-						645	928,604	24.00	-	-	-	-	-	-
-			Y	-	-							-	-	-	-	-	-	-	-
		TOTALS			-	-			-	-		**25,680,573**	**665**		-	-		-	-

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.

GelmanSciences

TABLE #13
Daily Discharge Monitoring Report

	(Daily)	(Annually)	(Annually)	(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**
6/1/2022	0.929	*G	*G	4.7		<50	<0.16	no	yes	6.8	6.8	6.0	34
6/2/2022	0.928			4.6	0.360	<50	<0.16	no	no	6.8	6.8	8.8	
6/3/2022	0.928				0.380	<50	<0.16	no	no	6.8	6.8		
6/4/2022	0.928												
6/5/2022	0.928			4.6								7.6	
6/6/2022	0.353					<50	<0.16	yes	yes	6.9	6.9		40
6/7/2022						<50	<0.16	no	no				
6/8/2022	0.266			5.0		<50	<0.16	no	yes			7.1	
6/9/2022	0.928			4.5	0.390	<50	<0.16	no	no	6.8	6.8	6.0	32
6/10/2022	0.928				0.390	<50	<0.16	no	no	6.8	6.8		
6/11/2022	0.928												
6/12/2022	0.928			5.2								8.9	
6/13/2022	0.928			5.4	0.410	<50	<0.16	yes	yes	6.8	6.8	8.2	50
6/14/2022	0.928			5.0	0.360	<50	<0.16	no	no	6.7	6.7	7.8	
6/15/2022	0.929			5.0	0.390	<50	<0.16	no	yes	6.7	6.7	9.6	34
6/16/2022	0.929			5.7	0.370	<50	<0.16	no	no	6.7	6.7	5.8	
6/17/2022	0.928					<50	<0.16	no	no	6.7	6.7		
6/18/2022	0.928												
6/19/2022	0.928			5.3								7.4	
6/20/2022	0.928			5.8	0.370	<50	<0.16	yes	yes	6.7	6.7	7.4	35
6/21/2022	0.928			5.3		<50	<0.16	no	no	6.8	6.8	7.6	
6/22/2022	0.929			5.7		<50	<0.16	no	yes	6.8	6.8	6.2	32
6/23/2022	0.929			5.1		<50	<0.16	no	no	6.8	6.8	8.0	
6/24/2022	0.928					<50	<0.16	no	no	6.8	6.8		
6/25/2022	0.929												
6/26/2022	0.929			4.7								9.6	
6/27/2022	0.928			4.4	0.340	<50	<0.16	yes	yes	6.8	6.8	9.4	34
6/28/2022	0.929			4.8		<50	<0.16	no	no	6.9	6.9	8.0	
6/29/2022	0.928			4.7		<50	<0.16	no	yes	6.7	6.7	8.0	40
6/30/2022	0.929			4.8		<50	<0.16	no	no	6.8	6.8	8.2	
Total Volume													
Discharged (mg)	**25.681**												
Monthly Avg	**0.886**			**5.0**								**7.8**	