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January 8, 2020

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

**Re: Monitoring Report # 272
December 1 – December 31, 2019**

part 201, dioxin, dioxane,
rrd, remediation

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 December 1 through December 31, 2019.

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



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TABLE #1

UNIT D2 UPGRADIENT EXTRACTION DATA

Month of: Dec-19

Date	Horizontal Well Extraction			TW-9			TW-5			TW-21			Daily Flow	Daily Total
	HW-S	GPM	Run Hrs.	TW-9	GPM	Run Hrs.	TW-5	GPM	Run Hrs.	TW-21	GPM	Run Hrs.	GPM	Gallons
	Gallons			Gallons			Gallons			Gallons				
Sun-12/1/19	-	-	-	-	-	-	-	-	-	86,458	60	24.00	60	86,458
Mon-12/2/19	-	-	-	-	-	-	-	-	-	90,029	63	24.00	63	90,029
Tue-12/3/19	-	-	-	-	-	-	-	-	-	86,435	60	24.00	60	86,435
Wed-12/4/19	-	-	-	-	-	-	-	-	-	86,429	60	24.00	60	86,429
Thu-12/5/19	-	-	-	-	-	-	-	-	-	86,433	60	24.00	60	86,433
Fri-12/6/19	-	-	-	-	-	-	-	-	-	86,432	60	24.00	60	86,432
Sat-12/7/19	-	-	-	-	-	-	-	-	-	86,408	60	24.00	60	86,408
Sun-12/8/19	-	-	-	-	-	-	-	-	-	86,418	60	24.00	60	86,418
Mon-12/9/19	-	-	-	-	-	-	-	-	-	86,440	60	24.00	60	86,440
Tue-12/10/19	-	-	-	-	-	-	-	-	-	86,408	60	24.00	60	86,408
Wed-12/11/19	-	-	-	-	-	-	-	-	-	86,343	60	24.00	60	86,343
Thu-12/12/19	-	-	-	-	-	-	-	-	-	86,367	60	24.00	60	86,367
Fri-12/13/19	-	-	-	-	-	-	-	-	-	86,422	60	24.00	60	86,422
Sat-12/14/19	-	-	-	-	-	-	-	-	-	86,428	60	24.00	60	86,428
Sun-12/15/19	-	-	-	-	-	-	-	-	-	86,415	60	24.00	60	86,415
Mon-12/16/19	-	-	-	-	-	-	-	-	-	86,406	60	24.00	60	86,406
Tue-12/17/19	-	-	-	-	-	-	-	-	-	86,403	60	24.00	60	86,403
Wed-12/18/19	-	-	-	-	-	-	-	-	-	86,379	60	24.00	60	86,379
Thu-12/19/19	-	-	-	-	-	-	-	-	-	86,391	60	24.00	60	86,391
Fri-12/20/19	-	-	-	-	-	-	-	-	-	86,424	60	24.00	60	86,424
Sat-12/21/19	-	-	-	-	-	-	-	-	-	86,480	60	24.00	60	86,480
Sun-12/22/19	-	-	-	-	-	-	-	-	-	86,496	60	24.00	60	86,496
Mon-12/23/19	-	-	-	-	-	-	-	-	-	86,515	60	24.00	60	86,515
Tue-12/24/19	-	-	-	-	-	-	-	-	-	86,457	60	24.00	60	86,457
Wed-12/25/19	-	-	-	-	-	-	-	-	-	86,472	60	24.00	60	86,472
Thu-12/26/19	-	-	-	-	-	-	-	-	-	86,535	60	24.00	60	86,535
Fri-12/27/19	-	-	-	-	-	-	-	-	-	86,489	60	24.00	60	86,489
Sat-12/28/19	-	-	-	-	-	-	-	-	-	86,449	60	24.00	60	86,449
Sun-12/29/19	-	-	-	-	-	-	-	-	-	86,490	60	24.00	60	86,490
Mon-12/30/19	-	-	-	-	-	-	-	-	-	86,510	60	24.00	60	86,510
Tue-12/31/19	-	-	-	-	-	-	-	-	-	86,467	60	24.00	60	86,467
TOTALS	-	-	-	-	-	-	-	-	-	2,683,228	60	744.00	60	2,683,228

TOTAL VOLUME EXTRACTED :	2,683,228 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	60.11 GPM

UNIT D2 DOWNGRADIENT EXTRACTION DATA

Month of: Dec-19

Date	LB-1			LB-4			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Sun-12/1/19	-	-	-	144,179	100	24.00	100	144,179
Mon-12/2/19	-	-	-	144,200	100	24.00	100	144,200
Tue-12/3/19	-	-	-	144,228	100	24.00	100	144,228
Wed-12/4/19	-	-	-	143,821	100	24.00	100	143,821
Thu-12/5/19	-	-	-	144,187	100	24.00	100	144,187
Fri-12/6/19	-	-	-	144,215	100	24.00	100	144,215
Sat-12/7/19	-	-	-	144,214	100	24.00	100	144,214
Sun-12/8/19	-	-	-	144,191	100	24.00	100	144,191
Mon-12/9/19	-	-	-	144,167	100	24.00	100	144,167
Tue-12/10/19	-	-	-	144,199	100	24.00	100	144,199
Wed-12/11/19	-	-	-	144,191	100	24.00	100	144,191
Thu-12/12/19	-	-	-	144,196	100	24.00	100	144,196
Fri-12/13/19	-	-	-	144,183	100	24.00	100	144,183
Sat-12/14/19	-	-	-	144,180	100	24.00	100	144,180
Sun-12/15/19	-	-	-	144,159	100	24.00	100	144,159
Mon-12/16/19	-	-	-	144,186	100	24.00	100	144,186
Tue-12/17/19	-	-	-	144,218	100	24.00	100	144,218
Wed-12/18/19	-	-	-	144,203	100	24.00	100	144,203
Thu-12/19/19	-	-	-	144,191	100	24.00	100	144,191
Fri-12/20/19	-	-	-	144,207	100	24.00	100	144,207
Sat-12/21/19	-	-	-	144,214	100	24.00	100	144,214
Sun-12/22/19	-	-	-	144,212	100	24.00	100	144,212
Mon-12/23/19	-	-	-	144,182	100	24.00	100	144,182
Tue-12/24/19	-	-	-	144,212	100	24.00	100	144,212
Wed-12/25/19	-	-	-	144,207	100	24.00	100	144,207
Thu-12/26/19	-	-	-	144,197	100	24.00	100	144,197
Fri-12/27/19	-	-	-	144,205	100	24.00	100	144,205
Sat-12/28/19	-	-	-	144,221	100	24.00	100	144,221
Sun-12/29/19	-	-	-	144,182	100	24.00	100	144,182
Mon-12/30/19	-	-	-	144,172	100	24.00	100	144,172
Tue-12/31/19	-	-	-	144,198	100	24.00	100	144,198
TOTALS	-	-	-	4,469,717	100	744.00	100	4,469,717

TOTAL VOLUME EXTRACTED :	4,469,717 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	100.13 GPM

TABLE #3

CORE AREA EXTRACTION DATA

Month of: **Dec-19**

Core Area Well Extraction																		Daily	Daily	
Date	TW-1			TW-2 (Dolph)			TW-3			TW-10			TW-14			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Sun-12/1/19	-	-	-	21,511	15	24.00	-	-	-	-	-	-	-	-	-	25,689	36	12.02	33	47,200
Mon-12/2/19	-	-	-	20,796	14	24.00	-	-	-	-	-	-	-	-	-	25,040	34	12.15	32	45,836
Tue-12/3/19	-	-	-	20,317	14	24.00	-	-	-	-	-	-	-	-	-	22,498	19	19.38	30	42,815
Wed-12/4/19	-	-	-	20,587	14	24.00	-	-	-	-	-	-	-	-	-	21,575	15	24.00	29	42,162
Thu-12/5/19	-	-	-	20,208	14	24.00	-	-	-	-	-	-	-	-	-	21,635	15	24.00	29	41,843
Fri-12/6/19	-	-	-	19,986	14	24.00	-	-	-	-	-	-	-	-	-	21,682	15	24.00	29	41,668
Sat-12/7/19	-	-	-	19,781	14	24.00	-	-	-	-	-	-	-	-	-	21,642	15	24.00	29	41,423
Sun-12/8/19	-	-	-	20,123	14	24.00	-	-	-	-	-	-	-	-	-	21,620	15	24.00	29	41,743
Mon-12/9/19	-	-	-	20,350	14	24.00	-	-	-	-	-	-	-	-	-	21,664	15	24.00	29	42,014
Tue-12/10/19	-	-	-	19,771	14	24.00	-	-	-	-	-	-	-	-	-	21,645	15	24.00	29	41,416
Wed-12/11/19	-	-	-	19,411	13	24.00	-	-	-	-	-	-	-	-	-	21,637	15	24.00	29	41,048
Thu-12/12/19	-	-	-	19,432	13	24.00	-	-	-	-	-	-	-	-	-	21,640	15	24.00	29	41,072
Fri-12/13/19	-	-	-	19,734	14	24.00	-	-	-	-	-	-	-	-	-	21,647	15	24.00	29	41,381
Sat-12/14/19	-	-	-	19,858	14	24.00	-	-	-	-	-	-	-	-	-	21,584	15	24.00	29	41,442
Sun-12/15/19	-	-	-	19,328	13	24.00	-	-	-	-	-	-	-	-	-	21,699	15	24.00	28	41,027
Mon-12/16/19	-	-	-	19,210	13	24.00	-	-	-	-	-	-	-	-	-	21,641	15	24.00	28	40,851
Tue-12/17/19	-	-	-	19,256	13	24.00	-	-	-	-	-	-	-	-	-	21,665	15	24.00	28	40,921
Wed-12/18/19	-	-	-	18,952	13	24.00	-	-	-	-	-	-	-	-	-	21,616	15	24.00	28	40,568
Thu-12/19/19	-	-	-	18,740	13	24.00	-	-	-	-	-	-	-	-	-	21,637	15	24.00	28	40,377
Fri-12/20/19	-	-	-	18,485	13	24.00	-	-	-	-	-	-	-	-	-	21,629	15	24.00	28	40,114
Sat-12/21/19	-	-	-	18,532	13	24.00	-	-	-	-	-	-	-	-	-	21,638	15	24.00	28	40,170
Sun-12/22/19	-	-	-	18,529	13	24.00	-	-	-	-	-	-	-	-	-	21,630	15	24.00	28	40,159
Mon-12/23/19	-	-	-	18,482	13	24.00	-	-	-	-	-	-	-	-	-	21,636	15	24.00	28	40,118
Tue-12/24/19	-	-	-	18,286	13	24.00	-	-	-	-	-	-	-	-	-	21,643	15	24.00	28	39,929
Wed-12/25/19	-	-	-	18,277	13	24.00	-	-	-	-	-	-	-	-	-	21,669	15	24.00	28	39,946
Thu-12/26/19	-	-	-	18,064	13	24.00	-	-	-	-	-	-	-	-	-	21,651	15	24.00	28	39,715
Fri-12/27/19	-	-	-	17,787	12	24.00	-	-	-	-	-	-	-	-	-	21,652	15	24.00	27	39,439
Sat-12/28/19	-	-	-	17,622	12	24.00	-	-	-	-	-	-	-	-	-	21,632	15	24.00	27	39,254
Sun-12/29/19	-	-	-	17,874	12	24.00	-	-	-	-	-	-	-	-	-	21,644	15	24.00	27	39,518
Mon-12/30/19	-	-	-	17,896	12	24.00	-	-	-	-	-	-	-	-	-	21,686	15	24.00	27	39,582
Tue-12/31/19	-	-	-	17,489	12	24.00	-	-	-	-	-	-	-	-	-	21,664	15	24.00	27	39,153
TOTALS	-	-	-	594,674	13	744.00	-	-	-	-	-	-	-	-	-	679,230	16	715.55	29	1,273,904

TOTAL VOLUME EXTRACTED :	1,273,904 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	28.54 GPM

12/1/19 - 12/3/19 - TW-20 was shut down intermittently for maintenance.

MARSHY AREA EXTRACTION DATA

Month of: Dec-19

Marshy Well Extraction				Daily Flow	Daily Total
Date	PW-1 Gallons	GPM	Run Hrs.	GPM	Gallons
Sun-12/1/19	2,195	2	24.00	2	2,195
Mon-12/2/19	2,209	2	24.00	2	2,209
Tue-12/3/19	2,202	2	24.00	2	2,202
Wed-12/4/19	2,199	2	24.00	2	2,199
Thu-12/5/19	2,202	2	24.00	2	2,202
Fri-12/6/19	2,209	2	24.00	2	2,209
Sat-12/7/19	2,212	2	24.00	2	2,212
Sun-12/8/19	2,213	2	24.00	2	2,213
Mon-12/9/19	2,198	2	24.00	2	2,198
Tue-12/10/19	2,208	2	24.00	2	2,208
Wed-12/11/19	2,230	2	24.00	2	2,230
Thu-12/12/19	2,232	2	24.00	2	2,232
Fri-12/13/19	2,226	2	24.00	2	2,226
Sat-12/14/19	2,221	2	24.00	2	2,221
Sun-12/15/19	2,227	2	24.00	2	2,227
Mon-12/16/19	2,222	2	24.00	2	2,222
Tue-12/17/19	2,239	2	24.00	2	2,239
Wed-12/18/19	2,246	2	24.00	2	2,246
Thu-12/19/19	2,249	2	24.00	2	2,249
Fri-12/20/19	2,250	2	24.00	2	2,250
Sat-12/21/19	2,241	2	24.00	2	2,241
Sun-12/22/19	2,235	2	24.00	2	2,235
Mon-12/23/19	2,234	2	24.00	2	2,234
Tue-12/24/19	2,248	2	24.00	2	2,248
Wed-12/25/19	2,244	2	24.00	2	2,244
Thu-12/26/19	2,242	2	24.00	2	2,242
Fri-12/27/19	2,239	2	24.00	2	2,239
Sat-12/28/19	2,244	2	24.00	2	2,244
Sun-12/29/19	2,239	2	24.00	2	2,239
Mon-12/30/19	2,253	2	24.00	2	2,253
Tue-12/31/19	2,266	2	24.00	2	2,266
TOTALS	69,074	2	744.00	2	69,074

TOTAL VOLUME EXTRACTED :	69,074 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	1.55 GPM

SOUTHWEST AREA EXTRACTION DATA

Month of: Dec-19

SouthWest Well Extraction							Daily	Daily
Date	TW22			TW28			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Sun-12/1/19	739	<1	24.00	33,206	23	24.00	24	33,945
Mon-12/2/19	770	<1	24.00	32,441	23	24.00	23	33,211
Tue-12/3/19	1,177	<1	24.00	30,239	21	24.00	22	31,416
Wed-12/4/19	1,614	1	24.00	28,784	20	24.00	21	30,398
Thu-12/5/19	1,507	1	24.00	29,069	20	24.00	21	30,576
Fri-12/6/19	1,494	1	24.00	29,073	20	24.00	21	30,567
Sat-12/7/19	1,468	1	24.00	29,013	20	24.00	21	30,481
Sun-12/8/19	1,481	1	24.00	29,036	20	24.00	21	30,517
Mon-12/9/19	1,495	1	24.00	29,015	20	24.00	21	30,510
Tue-12/10/19	1,467	1	24.00	29,018	20	24.00	21	30,485
Wed-12/11/19	1,446	1	24.00	29,057	20	24.00	21	30,503
Thu-12/12/19	1,398	<1	24.00	28,912	20	24.00	21	30,310
Fri-12/13/19	1,237	<1	24.00	28,706	20	24.00	21	29,943
Sat-12/14/19	1,196	<1	24.00	28,754	20	24.00	21	29,950
Sun-12/15/19	1,153	<1	24.00	28,766	20	24.00	21	29,919
Mon-12/16/19	1,148	<1	24.00	28,793	20	24.00	21	29,941
Tue-12/17/19	1,146	<1	24.00	28,888	20	24.00	21	30,034
Wed-12/18/19	1,124	<1	24.00	28,792	20	24.00	21	29,916
Thu-12/19/19	608	<1	24.00	28,827	20	24.00	20	29,435
Fri-12/20/19	13	<1	24.00	28,922	20	24.00	20	28,935
Sat-12/21/19	13	<1	24.00	28,874	20	24.00	20	28,887
Sun-12/22/19	12	<1	24.00	28,908	20	24.00	20	28,920
Mon-12/23/19	12	<1	24.00	28,936	20	24.00	20	28,948
Tue-12/24/19	13	<1	24.00	29,001	20	24.00	20	29,014
Wed-12/25/19	13	<1	24.00	29,073	20	24.00	20	29,086
Thu-12/26/19	14	<1	24.00	29,026	20	24.00	20	29,040
Fri-12/27/19	14	<1	24.00	28,879	20	24.00	20	28,893
Sat-12/28/19	14	<1	24.00	28,687	20	24.00	20	28,701
Sun-12/29/19	11	<1	24.00	28,930	20	24.00	20	28,941
Mon-12/30/19	19	<1	24.00	28,701	20	24.00	20	28,720
Tue-12/31/19	9	<1	24.00	34,182	24	24.00	24	34,191
TOTALS	23,825	1	744.00	910,508	20	744.00	21	934,333

TOTAL VOLUME EXTRACTED :	934,333 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	20.93 GPM

TABLE #6

UNIT "E" EXTRACTION DATA

Month of: Dec-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.		
Sun-12/1/19	-	-	-	-	-	-	241,291	168	24.00	44,700	31	24.00	100,999	70	24.00	269	386,990
Mon-12/2/19	-	-	-	-	-	-	240,998	167	24.00	44,686	31	24.00	101,025	70	24.00	269	386,709
Tue-12/3/19	-	-	-	-	-	-	240,851	167	24.00	44,599	31	23.95	101,022	70	23.95	268	386,472
Wed-12/4/19	-	-	-	-	-	-	240,930	167	24.00	43,925	31	23.71	99,580	70	23.66	267	384,435
Thu-12/5/19	-	-	-	-	-	-	241,376	168	24.00	44,359	31	24.00	100,890	70	24.00	268	386,625
Fri-12/6/19	-	-	-	-	-	-	241,063	168	23.97	44,314	31	24.00	100,868	70	24.00	268	386,245
Sat-12/7/19	-	-	-	-	-	-	241,335	168	24.00	44,318	31	24.00	100,891	70	24.00	268	386,544
Sun-12/8/19	-	-	-	-	-	-	240,728	167	24.00	44,300	31	24.00	101,001	70	24.00	268	386,029
Mon-12/9/19	-	-	-	-	-	-	241,443	168	24.00	44,285	31	24.00	101,122	70	24.00	269	386,850
Tue-12/10/19	-	-	-	-	-	-	227,590	159	23.92	44,318	31	24.00	101,216	70	24.00	259	373,124
Wed-12/11/19	-	-	-	36,676	37	16.45	201,769	140	23.98	44,322	31	24.00	101,001	70	24.00	267	383,768
Thu-12/12/19	-	-	-	71,949	50	24.00	173,835	121	23.95	44,561	31	23.95	100,846	70	23.95	272	391,191
Fri-12/13/19	-	-	-	79,300	55	24.00	168,419	117	24.00	44,529	31	23.96	101,214	70	23.95	273	393,462
Sat-12/14/19	-	-	-	79,330	55	24.00	168,233	117	23.97	44,463	31	24.00	100,951	70	24.00	273	392,977
Sun-12/15/19	-	-	-	79,275	55	24.00	168,370	117	23.98	44,550	31	24.00	100,899	70	24.00	273	393,094
Mon-12/16/19	-	-	-	79,283	55	24.00	168,435	117	24.00	44,561	31	24.00	100,958	70	24.00	273	393,237
Tue-12/17/19	-	-	-	79,338	55	24.00	168,417	117	24.00	44,548	31	24.00	100,877	70	24.00	273	393,180
Wed-12/18/19	-	-	-	79,383	55	24.00	168,386	117	24.00	44,543	31	24.00	101,057	70	24.00	273	393,369
Thu-12/19/19	-	-	-	79,353	55	24.00	168,377	117	24.00	44,573	31	24.00	100,937	70	24.00	273	393,240
Fri-12/20/19	-	-	-	79,367	55	24.00	168,400	117	24.00	44,566	31	24.00	100,818	70	24.00	273	393,151
Sat-12/21/19	-	-	-	79,404	55	24.00	168,398	117	24.00	44,561	31	24.00	101,181	70	24.00	273	393,544
Sun-12/22/19	-	-	-	79,388	55	24.00	168,438	117	24.00	44,553	31	24.00	101,001	70	24.00	273	393,380
Mon-12/23/19	-	-	-	79,389	55	24.00	168,438	117	24.00	44,429	31	23.98	101,069	70	23.98	273	393,325
Tue-12/24/19	-	-	-	79,397	55	24.00	168,362	117	23.98	44,389	31	24.00	100,815	70	24.00	273	392,963
Wed-12/25/19	-	-	-	79,405	55	24.00	168,436	117	24.00	44,403	31	24.00	100,909	70	24.00	273	393,153
Thu-12/26/19	-	-	-	79,412	55	24.00	168,464	117	23.98	44,377	31	24.00	100,903	70	24.00	273	393,156
Fri-12/27/19	-	-	-	79,383	55	24.00	168,472	117	24.00	44,348	31	24.00	100,948	70	24.00	273	393,151
Sat-12/28/19	-	-	-	79,362	55	24.00	168,396	117	24.00	44,381	31	24.00	101,259	70	24.00	273	393,398
Sun-12/29/19	-	-	-	79,423	55	24.00	168,430	117	24.00	44,495	31	24.00	100,799	70	24.00	273	393,147
Mon-12/30/19	-	-	-	96,084	67	24.00	149,969	104	23.98	44,526	31	24.00	100,381	70	24.00	272	390,960
Tue-12/31/19	-	-	-	101,120	70	24.00	126,170	89	23.53	44,521	31	24.00	99,949	69	24.00	258	371,760
TOTALS	-	-	-	1,655,021	55	496.45	5,912,219	133	743.25	1,378,003	31	743.55	3,127,386	70	743.49	270	12,072,629

TOTAL VOLUME EXTRACTED :	12,072,629 GALLONS
DAYS IN MONTH :	31 DAYS
MONTHLY AVERAGE FLOW RATE :	270.44 GPM

12/1/19 - 12/11/19 - TW-17 was turned on to make up flow lost by TW-18

TABLE #7

Little Lake Area System

MW-53i	
Date	1,4-Dioxane ug/L
09/04/19	56
10/03/19	36
11/01/19	43
12/10/19	32

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
09/04/19	88
10/03/19	81
11/01/19	82
12/05/19	59

Date	Gallons Purged
12/5/2019	28,000

TABLE #8

INDIVIDUAL PURGE WELL CONCENTRATIONS

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-12-04-19-09:28-1	12/04/19	130
TW-20-12-04-19-09:30-1	12/04/19	880
LB-4-12-04-19-09:09-1	12/04/19	480
TW-21-12-04-19-09:16-1	12/04/19	260
TW-17-12-11-19-12:00-1	12/11/19	200
TW-18-12-04-19-09:19-1	12/04/19	240
TW-19-12-04-19-08:34-1	12/04/19	550
TW-23-12-04-19-08:35-1	12/04/19	440
PW-1-12-04-19-09:26-1	12/04/19	830
TW-22-12-04-19-09:38-1	12/04/19	440
TW-28-12-04-19-09:35-1	12/04/19	710

RED POND DATA

Month of: Dec-19

Date	Time	Notes	Red Pond				
			Pond Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM
Sun-12/1/19	09:30:00.000	(1)		4.2	-	24.00	487
Mon-12/2/19	07:45:00.000		Y	4.2	-	24.00	488
Tue-12/3/19	06:00:00.000		Y	4.1	-	24.00	482
Wed-12/4/19	04:15:00.000		Y	4.0	-	24.00	479
Thu-12/5/19	02:30:00.000		Y	4.2	-	24.00	480
Fri-12/6/19	02:00:00.000		Y	4.2	-	24.00	480
Sat-12/7/19	02:00:00.000	(1)		4.1	-	24.00	480
Sun-12/8/19	02:00:00.000	(1)		4.0	-	24.00	480
Mon-12/9/19	02:00:00.000		Y	4.0	-	24.00	481
Tue-12/10/19	02:00:00.000		Y	3.8	-	24.00	471
Wed-12/11/19	02:00:00.000		Y	3.8	-	24.00	478
Thu-12/12/19	02:00:00.000		Y	3.8	-	24.00	483
Fri-12/13/19	02:00:00.000		Y	3.8	-	24.00	484
Sat-12/14/19	02:00:00.000	(1)		3.8	-	24.00	484
Sun-12/15/19	02:00:00.000	(1)		3.8	-	24.00	484
Mon-12/16/19	02:00:00.000		Y	3.8	-	24.00	484
Tue-12/17/19	02:00:00.000		Y	3.8	-	24.00	484
Wed-12/18/19	02:00:00.000		Y	3.8	-	24.00	484
Thu-12/19/19	02:00:00.000		Y	3.8	-	24.00	483
Fri-12/20/19	02:00:00.000		Y	3.7	-	24.00	483
Sat-12/21/19	02:00:00.000	(1)		3.7	-	24.00	483
Sun-12/22/19	02:00:00.000	(1)		3.7	-	24.00	483
Mon-12/23/19	02:00:00.000		Y	3.7	-	24.00	483
Tue-12/24/19	02:00:00.000		Y	3.6	-	24.00	483
Wed-12/25/19	02:00:00.000		Y	3.6	-	24.00	483
Thu-12/26/19	02:00:00.000		Y	3.8	-	24.00	483
Fri-12/27/19	02:00:00.000		Y	3.7	-	24.00	482
Sat-12/28/19	02:00:00.000	(1)		3.7	-	24.00	482
Sun-12/29/19	02:00:00.000	(1)		3.8	-	24.00	482
Mon-12/30/19	02:00:00.000		Y	3.8	-	24.00	481
Tue-12/31/19	02:00:00.000		Y	3.8	-	24.00	471
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-12-02-19-08:05-1	12/2/2019	340
Red Pond-12-09-19-08:04-1	12/9/2019	390
Red Pond-12-16-19-08:21-1	12/16/2019	380
Red Pond-12-23-19-07:59-1	12/23/2019	340
Red Pond-12-30-19-08:01-1	12/30/2019	380

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

OZONE OPERATION REPORT

Month of: Dec-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
Sun-12/1/19	19:30:00.00	(1)	239	24.00	0	0.00	241	24.00	0	0.00
Mon-12/2/19	17:45:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Tue-12/3/19	16:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Wed-12/4/19	14:15:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Thu-12/5/19	12:30:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-12/6/19	12:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Sat-12/7/19	12:00:00.00	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Sun-12/8/19	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Mon-12/9/19	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-12/10/19	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Wed-12/11/19	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-12/12/19	12:00:00.00		240	23.83	0	0.00	239	23.83	0	0.00
Fri-12/13/19	12:00:00.00		240	24.00	0	0.00	239	24.00	0	0.00
Sat-12/14/19	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-12/15/19	12:00:00.00	(1)	240	24.00	0	0.00	239	24.00	0	0.00
Mon-12/16/19	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-12/17/19	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Wed-12/18/19	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Thu-12/19/19	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Fri-12/20/19	12:00:00.00		240	24.00	0	0.00	241	24.00	0	0.00
Sat-12/21/19	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-12/22/19	12:00:00.00	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Mon-12/23/19	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Tue-12/24/19	12:00:00.00		239	24.00	0	0.00	241	24.00	0	0.00
Wed-12/25/19	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Thu-12/26/19	12:00:00.00		240	23.53	0	0.00	240	23.55	0	0.00
Fri-12/27/19	12:00:00.00		240	24.00	0	0.00	240	24.00	0	0.00
Sat-12/28/19	12:00:00.00	(1)	240	24.00	0	0.00	240	24.00	0	0.00
Sun-12/29/19	12:00:00.00	(1)	239	24.00	0	0.00	240	24.00	0	0.00
Mon-12/30/19	12:00:00.00		239	24.00	0	0.00	240	24.00	0	0.00
Tue-12/31/19	12:00:00.00		240	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.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: **Dec-19**

			Green Pond															
Date	Time	Notes	Pond	Level	Aeration	Influent	Influent	Pond Discharge		Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch		
			Visual Chk	Feet	Hours	Hours	GPM	GPM	Gallons	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours
Sun-12/1/19	19:30:00.00	(1)		-	-					497	715,656	24.00	-	-	-	-	-	-
Mon-12/2/19	19:30:00.00		Y	-	-					497	715,561	24.00	-	-	-	-	-	-
Tue-12/3/19	17:45:00.00		Y	-	-					497	715,506	24.00	-	-	-	-	-	-
Wed-12/4/19	16:00:00.00		Y	-	-					497	715,600	24.00	-	-	-	-	-	-
Thu-12/5/19	14:15:00.00		Y	-	-					497	715,835	24.00	-	-	-	-	-	-
Fri-12/6/19	12:30:00.00		Y	-	-					497	716,257	24.00	-	-	-	-	-	-
Sat-12/7/19	12:00:00.00	(1)		-	-					497	715,528	24.00	-	-	-	-	-	-
Sun-12/8/19	12:00:00.00	(1)		-	-					497	715,591	24.00	-	-	-	-	-	-
Mon-12/9/19	12:00:00.00		Y	-	-					497	715,949	24.00	-	-	-	-	-	-
Tue-12/10/19	12:00:00.00		Y	-	-					497	715,668	24.00	-	-	-	-	-	-
Wed-12/11/19	12:00:00.00		Y	-	-					497	715,255	24.00	-	-	-	-	-	-
Thu-12/12/19	12:00:00.00		Y	-	-					495	707,327	23.80	-	-	-	-	-	-
Fri-12/13/19	12:00:00.00		Y	-	-					496	714,822	24.00	-	-	-	-	-	-
Sat-12/14/19	12:00:00.00	(1)		-	-					497	715,087	24.00	-	-	-	-	-	-
Sun-12/15/19	12:00:00.00	(1)		-	-					496	714,926	24.00	-	-	-	-	-	-
Mon-12/16/19	12:00:00.00		Y	-	-					496	714,859	24.00	-	-	-	-	-	-
Tue-12/17/19	12:00:00.00		Y	-	-					496	714,863	24.00	-	-	-	-	-	-
Wed-12/18/19	12:00:00.00		Y	-	-					496	714,538	24.00	-	-	-	-	-	-
Thu-12/19/19	12:00:00.00		Y	-	-					496	714,444	24.00	-	-	-	-	-	-
Fri-12/20/19	12:00:00.00		Y	-	-					496	714,434	24.00	-	-	-	-	-	-
Sat-12/21/19	12:00:00.00	(1)		-	-					496	714,656	24.00	-	-	-	-	-	-
Sun-12/22/19	12:00:00.00	(1)		-	-					496	714,728	24.00	-	-	-	-	-	-
Mon-12/23/19	12:00:00.00		Y	-	-					496	714,910	24.00	-	-	-	-	-	-
Tue-12/24/19	12:00:00.00		Y	-	-					496	714,815	24.00	-	-	-	-	-	-
Wed-12/25/19	12:00:00.00		Y	-	-					497	714,973	24.00	-	-	-	-	-	-
Thu-12/26/19	12:00:00.00		Y	-	-					496	699,428	23.52	-	-	-	-	-	-
Fri-12/27/19	12:00:00.00		Y	-	-					497	715,483	24.00	-	-	-	-	-	-
Sat-12/28/19	12:00:00.00	(1)		-	-					497	715,300	24.00	-	-	-	-	-	-
Sun-12/29/19	12:00:00.00	(1)		-	-					497	715,406	24.00	-	-	-	-	-	-
Mon-12/30/19	12:00:00.00		Y	-	-					497	715,357	24.00	-	-	-	-	-	-
Tue-12/31/19	12:00:00.00		Y	-	-					496	714,949	24.00	-	-	-	-	-	-
TOTALS				-	-					-	22,147,711	743	-	-	-	-	-	-

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)	(Weekly)	(Weekly)	(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
12/1/2019	0.716	*G	*G	5								7.5	
12/2/2019	0.716			5	0.340	<50	<0.16	yes	yes	6.6	6.6	6.2	25
12/3/2019	0.715			5.5		<50	<0.16	no	no	6.6	6.6	6.6	
12/4/2019	0.716			4.8		<50	<0.16	no	yes	6.7	6.7	7.4	20
12/5/2019	0.716			5.8		<50	<0.16	no	no	6.7	6.7	7.1	
12/6/2019	0.716					<50	<0.16	no	no	6.7	6.7		
12/7/2019	0.716												
12/8/2019	0.716			5.1								7.7	
12/9/2019	0.716			4.9	0.390	<50	<0.16	yes	yes	6.6	6.6	8.6	15
12/10/2019	0.716			4		<50	<0.16	no	no	6.7	6.7	8.6	
12/11/2019	0.715			5		<50	<0.16	no	yes	6.6	6.6	8.4	20
12/12/2019	0.707			5		<50	<0.16	no	no	6.6	6.6	8	
12/13/2019	0.715					<50	<0.16	no	no	6.8	6.8		
12/14/2019	0.715												
12/15/2019	0.715			5								7.1	
12/16/2019	0.715			5	0.380	<50	<0.16	yes	yes	6.7	6.7	7.6	29
12/17/2019	0.715			6		<50	<0.16	no	no	6.9	6.9	8.2	
12/18/2019	0.715			5		<50	<0.16	no	yes	6.8	6.8	6.6	20
12/19/2019	0.714			5		<50	<0.16	no	no	6.6	6.6	8	
12/20/2019	0.714					<50	<0.16	no	no	6.9	6.9		
12/21/2019	0.715												
12/22/2019	0.715			5								7.5	
12/23/2019	0.715			6	0.340	<50	<0.16	yes	yes	7.0	7.0	7.5	22
12/24/2019	0.715			5		<50	<0.16	no	no	6.8	6.8	6.1	
12/25/2019	0.715			5								7.6	
12/26/2019	0.699			5		<50	<0.16	no	yes	6.6	6.6	7.1	34
12/27/2019	0.715					<50	<0.16	no	no	6.6	6.6		
12/28/2019	0.715												
12/29/2019	0.715			5								7.6	
12/30/2019	0.715			5	0.380	<50	<0.16	yes	yes	6.6	6.6	8.1	32
12/31/2019	0.715			5		<50	<0.16	no	no	6.6	6.6	7.6	
Discharged	22.147												
Monthly Avg				5.1								7.5	

12/25/19 - Holiday