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**UNIT D2 UPGRADIENT EXTRACTION DATA**

Month of: **Apr-13**

Date	TW-9			TW-5			TW-21			Daily Flow	Daily Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-4/1/13	36,018	25	24.00	76,497	53	24.00	93,537	65	24.00	143	206,052
Tue-4/2/13	35,876	25	24.00	76,445	53	24.00	93,511	65	24.00	143	205,832
Wed-4/3/13	35,777	25	24.00	76,354	53	24.00	93,503	65	24.00	143	205,634
Thu-4/4/13	35,905	25	24.00	76,411	53	24.00	93,415	65	23.98	143	205,731
Fri-4/5/13	35,562	25	24.00	77,112	54	24.00	88,017	61	24.00	139	200,691
Sat-4/6/13	35,632	25	24.00	77,717	54	24.00	86,364	60	24.00	139	199,713
Sun-4/7/13	36,017	25	24.00	77,656	54	24.00	86,444	60	24.00	139	200,117
Mon-4/8/13	35,926	25	24.00	77,676	54	24.00	86,304	60	24.00	139	199,906
Tue-4/9/13	36,070	25	24.00	77,648	54	24.00	86,453	60	24.00	139	200,171
Wed-4/10/13	36,108	25	24.00	77,611	54	24.00	86,033	60	23.93	139	199,752
Thu-4/11/13	36,140	25	24.00	77,556	54	24.00	86,369	60	24.00	139	200,065
Fri-4/12/13	36,084	25	24.00	77,617	54	24.00	86,088	60	23.98	139	199,789
Sat-4/13/13	35,950	25	24.00	77,640	54	24.00	86,397	60	24.00	139	199,987
Sun-4/14/13	35,908	25	24.00	77,610	54	24.00	85,784	60	23.87	138	199,302
Mon-4/15/13	26,687	25	17.85	56,923	53	17.88	32,818	60	9.13	81	116,428
Tue-4/16/13	27,997	25	18.58	74,648	52	24.00	30,846	54	9.49	93	133,491
Wed-4/17/13	29,132	25	19.33	48,983	48	16.95	36,647	50	12.20	80	114,762
Thu-4/18/13	36,230	25	24.00	66,169	46	24.00	72,061	50	24.00	121	174,460
Fri-4/19/13	36,199	25	24.00	66,118	46	24.00	66,090	46	24.00	117	168,407
Sat-4/20/13	36,346	25	24.00	66,183	46	24.00	64,584	45	24.00	116	167,113
Sun-4/21/13	36,214	25	24.00	72,145	50	24.00	64,749	45	24.00	120	173,108
Mon-4/22/13	36,197	25	24.00	72,360	50	24.00	64,818	45	24.00	120	173,375
Tue-4/23/13	36,245	25	24.00	72,350	50	24.00	70,049	49	24.00	124	178,644
Wed-4/24/13	36,245	25	24.00	72,235	50	24.00	71,973	50	24.00	125	180,453
Thu-4/25/13	36,357	25	24.00	72,222	50	24.00	72,007	50	24.00	125	180,586
Fri-4/26/13	35,911	25	24.00	72,206	50	24.00	71,990	50	24.00	125	180,107
Sat-4/27/13	36,270	25	24.00	72,319	50	24.00	72,091	50	24.00	125	180,680
Sun-4/28/13	36,200	25	24.00	72,409	50	24.00	71,872	50	23.95	125	180,481
Mon-4/29/13	36,198	25	24.00	72,371	50	24.00	72,143	50	24.00	125	180,712
Tue-4/30/13	36,210	25	24.00	72,262	50	24.00	66,453	46	24.00	121	174,925
<b>TOTALS</b>	<b>1,057,611</b>	<b>25</b>	<b>703.77</b>	<b>2,183,453</b>	<b>51</b>	<b>706.83</b>	<b>2,239,410</b>	<b>55</b>	<b>678.54</b>	<b>127</b>	<b>5,480,474</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>5,480,474 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>126.86 GPM</b>

04/15/13 - 04/17/13 - Extraction was shut down due to DTE power outages caused by storms in the area.

**UNIT D2 DOWNGRADIENT EXTRACTION DATA**

**Month of: Apr-13**

Date	LB-1			LB-3			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-4/1/13	84,267	59	24.00	57,474	40	24.00	98	141,741
Tue-4/2/13	84,673	59	23.98	57,620	40	23.98	99	142,293
Wed-4/3/13	84,969	59	24.00	57,689	40	24.00	99	142,658
Thu-4/4/13	84,959	59	24.00	57,446	40	24.00	99	142,405
Fri-4/5/13	84,727	59	24.00	57,473	40	24.00	99	142,200
Sat-4/6/13	84,707	59	24.00	57,493	40	24.00	99	142,200
Sun-4/7/13	84,749	59	24.00	57,580	40	24.00	99	142,329
Mon-4/8/13	84,700	59	24.00	57,461	40	24.00	99	142,161
Tue-4/9/13	84,396	59	23.98	57,313	40	23.98	98	141,709
Wed-4/10/13	84,746	59	24.00	57,914	40	24.00	99	142,660
Thu-4/11/13	84,752	59	24.00	57,765	40	24.00	99	142,517
Fri-4/12/13	84,814	59	24.00	57,666	40	24.00	99	142,480
Sat-4/13/13	84,589	59	24.00	57,585	40	24.00	99	142,174
Sun-4/14/13	84,388	59	24.00	57,632	40	24.00	99	142,020
Mon-4/15/13	36,551	59	10.40	25,004	40	10.40	43	61,555
Tue-4/16/13	55,852	60	15.40	37,664	41	15.40	65	93,516
Wed-4/17/13	60,301	59	17.12	41,093	40	17.12	70	101,394
Thu-4/18/13	84,764	59	24.00	57,823	40	24.00	99	142,587
Fri-4/19/13	85,033	59	24.00	57,774	40	24.00	99	142,807
Sat-4/20/13	84,411	59	24.00	57,615	40	23.98	99	142,026
Sun-4/21/13	84,186	58	24.00	57,577	40	24.00	98	141,763
Mon-4/22/13	84,537	59	23.98	57,842	40	24.00	99	142,379
Tue-4/23/13	84,751	59	24.00	57,776	40	24.00	99	142,527
Wed-4/24/13	84,784	59	24.00	57,699	40	24.00	99	142,483
Thu-4/25/13	84,566	59	24.00	57,712	40	24.00	99	142,278
Fri-4/26/13	84,455	59	24.00	57,794	40	24.00	99	142,249
Sat-4/27/13	84,657	59	24.00	57,903	40	23.98	99	142,560
Sun-4/28/13	85,015	59	24.00	57,800	40	24.00	99	142,815
Mon-4/29/13	84,949	59	23.98	57,714	40	24.00	99	142,663
Tue-4/30/13	84,735	59	24.00	57,611	40	24.00	99	142,346
<b>TOTALS</b>	<b>2,438,983</b>	<b>59</b>	<b>690.84</b>	<b>1,660,512</b>	<b>40</b>	<b>690.84</b>	<b>95</b>	<b>4,099,495</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>4,099,495 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>94.90 GPM</b>

04/15/13 - 04/17/13 - Extraction was shut down due to DTE power outages caused by storms in the area.

**CORE AREA EXTRACTION DATA**

Month of: **Apr-13**

Core Area Well Extraction							Daily	Daily
Date	TW-2 (Dolph)			TW-20			Flow	Total
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	GPM	Gallons
Mon-4/1/13	19,739	14	24.00	63,843	44	24.00	58	83,582
Tue-4/2/13	19,458	14	24.00	61,597	43	24.00	56	81,055
Wed-4/3/13	19,291	13	24.00	62,830	46	22.75	57	82,121
Thu-4/4/13	19,560	14	24.00	72,597	50	24.00	64	92,157
Fri-4/5/13	19,362	13	24.00	72,198	50	24.00	64	91,560
Sat-4/6/13	19,354	13	24.00	72,251	50	24.00	64	91,605
Sun-4/7/13	19,375	13	24.00	72,144	50	24.00	64	91,519
Mon-4/8/13	19,299	13	24.00	72,120	50	24.00	63	91,419
Tue-4/9/13	19,125	13	24.00	72,305	50	24.00	63	91,430
Wed-4/10/13	19,107	13	24.00	72,193	50	24.00	63	91,300
Thu-4/11/13	19,117	13	24.00	72,185	50	24.00	63	91,302
Fri-4/12/13	19,065	13	24.00	72,047	50	24.00	63	91,112
Sat-4/13/13	18,766	13	24.00	72,030	50	24.00	63	90,796
Sun-4/14/13	18,572	13	24.00	71,974	50	24.00	63	90,546
Mon-4/15/13	7,775	13	10.10	53,548	50	17.88	43	61,323
Tue-4/16/13	7,799	14	9.50	65,020	50	21.70	51	72,819
Wed-4/17/13	9,235	14	11.25	26,992	50	9.00	25	36,227
Thu-4/18/13	19,093	13	24.00	72,374	50	24.00	64	91,467
Fri-4/19/13	19,056	13	24.00	72,353	50	24.00	63	91,409
Sat-4/20/13	18,395	13	24.00	72,093	50	24.00	63	90,488
Sun-4/21/13	18,180	13	24.00	72,221	50	24.00	63	90,401
Mon-4/22/13	18,763	13	24.00	72,391	50	24.00	63	91,154
Tue-4/23/13	19,269	13	24.00	72,160	50	24.00	63	91,429
Wed-4/24/13	19,041	13	24.00	71,967	50	24.00	63	91,008
Thu-4/25/13	18,669	13	24.00	72,208	50	24.00	63	90,877
Fri-4/26/13	18,573	13	24.00	72,203	50	24.00	63	90,776
Sat-4/27/13	18,846	13	24.00	72,103	50	24.00	63	90,949
Sun-4/28/13	19,191	13	24.00	72,030	50	24.00	63	91,221
Mon-4/29/13	19,005	13	24.00	72,037	50	24.00	63	91,042
Tue-4/30/13	18,801	13	24.00	66,765	46	24.00	59	85,566
<b>TOTALS</b>	<b>538,881</b>	<b>13</b>	<b>678.85</b>	<b>2,060,779</b>	<b>49</b>	<b>695.33</b>	<b>60</b>	<b>2,599,660</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>2,599,660 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>60.18 GPM</b>

04/03/13 - TW-20 was shut down briefly for maintenance.

04/15/13 - 04/17/13 - Extraction was shut down due to DTE power outages caused by storms in the area.

**MARSHY AREA EXTRACTION DATA**

Month of: **Apr-13**

Marshy Well Extraction				Daily	Daily
Date	PW-1 Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-4/1/13	-		-		-
Tue-4/2/13	-		-		-
Wed-4/3/13	-		-		-
Thu-4/4/13	-		-		-
Fri-4/5/13	-		-		-
Sat-4/6/13	-		-		-
Sun-4/7/13	-		-		-
Mon-4/8/13	-		-		-
Tue-4/9/13	-		-		-
Wed-4/10/13	-		-		-
Thu-4/11/13	-		-		-
Fri-4/12/13	-		-		-
Sat-4/13/13	-		-		-
Sun-4/14/13	-		-		-
Mon-4/15/13	-		-		-
Tue-4/16/13	-		-		-
Wed-4/17/13	227	5	0.75	0	227
Thu-4/18/13	301	5	0.95	0	301
Fri-4/19/13	103		-	0	103
Sat-4/20/13	141		-	0	141
Sun-4/21/13	155		-	0	155
Mon-4/22/13	161		-	0	161
Tue-4/23/13	1,115	2	9.10	1	1,115
Wed-4/24/13	3,360	3	21.43	2	3,360
Thu-4/25/13	3,775	3	24.00	3	3,775
Fri-4/26/13	3,766	3	24.00	3	3,766
Sat-4/27/13	3,759	3	24.00	3	3,759
Sun-4/28/13	3,761	3	24.00	3	3,761
Mon-4/29/13	3,772	3	24.00	3	3,772
Tue-4/30/13	3,782	3	24.00	3	3,782
<b>TOTALS</b>	<b>28,178</b>	<b>3</b>	<b>176.23</b>	<b>1</b>	<b>28,178</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>28,178 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>0.65 GPM</b>

Marshy extraction was down periodically due to low water levels.

**SOUTHWEST AREA EXTRACTION DATA**

Month of: **Apr-13**

Date	ACTIVE WELLS			Daily	Daily
	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-4/1/13	24,176	17	24.00	17	24,176
Tue-4/2/13	24,153	17	24.00	17	24,153
Wed-4/3/13	23,829	17	24.00	17	23,829
Thu-4/4/13	22,032	15	24.00	15	22,032
Fri-4/5/13	21,735	15	24.00	15	21,735
Sat-4/6/13	21,809	15	24.00	15	21,809
Sun-4/7/13	21,777	15	24.00	15	21,777
Mon-4/8/13	21,662	15	24.00	15	21,662
Tue-4/9/13	21,456	15	24.00	15	21,456
Wed-4/10/13	21,392	15	24.00	15	21,392
Thu-4/11/13	21,336	15	24.00	15	21,336
Fri-4/12/13	21,275	15	24.00	15	21,275
Sat-4/13/13	21,001	15	24.00	15	21,001
Sun-4/14/13	20,831	14	24.00	14	20,831
Mon-4/15/13	8,581	14	9.93	6	8,581
Tue-4/16/13	3,905	36	1.82	3	3,905
Wed-4/17/13	22,744	36	10.60	16	22,744
Thu-4/18/13	57,181	40	24.00	40	57,181
Fri-4/19/13	58,416	41	24.00	41	58,416
Sat-4/20/13	59,173	41	24.00	41	59,173
Sun-4/21/13	59,601	41	24.00	41	59,601
Mon-4/22/13	60,222	42	24.00	42	60,222
Tue-4/23/13	60,447	42	24.00	42	60,447
Wed-4/24/13	60,643	42	24.00	42	60,643
Thu-4/25/13	52,125	36	24.00	36	52,125
Fri-4/26/13	47,255	33	24.00	33	47,255
Sat-4/27/13	47,488	33	24.00	33	47,488
Sun-4/28/13	47,683	33	24.00	33	47,683
Mon-4/29/13	48,054	33	24.00	33	48,054
Tue-4/30/13	48,146	33	24.00	33	48,146
<b>TOTALS</b>	<b>1,050,128</b>	<b>26</b>	<b>670.35</b>	<b>24</b>	<b>1,050,128</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>1,050,128 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>24.31 GPM</b>

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

04/15/13 - 04/17/13 - Extraction was shut down due to DTE power outages caused by storms in the area.

**UNIT "E" EXTRACTION DATA**

Month of: **Apr-13**

Date	TW-11			TW-18			TW-19			Daily	Daily
	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Gallons	GPM	Run Hrs.	Flow GPM	Total Gallons
Mon-4/1/13	47,034	33	24.00	219,156	152	24.00	144,101	100	24.00	285	410,291
Tue-4/2/13	47,090	33	24.00	223,166	155	24.00	144,100	100	24.00	288	414,356
Wed-4/3/13	47,122	33	24.00	241,025	167	24.00	144,097	100	24.00	300	432,244
Thu-4/4/13	47,192	33	24.00	240,696	167	23.98	144,097	100	24.00	300	431,985
Fri-4/5/13	47,168	33	24.00	224,961	156	24.00	144,092	100	24.00	289	416,221
Sat-4/6/13	47,042	33	24.00	219,166	152	24.00	144,101	100	24.00	285	410,309
Sun-4/7/13	46,964	33	24.00	219,152	152	24.00	144,093	100	24.00	285	410,209
Mon-4/8/13	46,907	33	24.00	219,175	152	24.00	144,092	100	24.00	285	410,174
Tue-4/9/13	46,946	33	24.00	219,174	152	24.00	144,090	100	24.00	285	410,210
Wed-4/10/13	47,003	33	24.00	218,292	152	23.93	143,456	100	23.90	284	408,751
Thu-4/11/13	46,847	33	24.00	219,188	152	24.00	144,087	100	24.00	285	410,122
Fri-4/12/13	46,814	33	24.00	218,650	152	23.98	144,089	100	24.00	284	409,553
Sat-4/13/13	46,848	33	24.00	219,173	152	24.00	144,086	100	24.00	285	410,107
Sun-4/14/13	46,829	33	24.00	217,925	152	23.87	143,471	100	23.90	283	408,225
Mon-4/15/13	34,134	32	17.88	90,642	152	9.95	56,172	100	9.40	126	180,948
Tue-4/16/13	44,400	31	24.00	108,567	152	11.90	62,635	100	10.40	150	215,602
Wed-4/17/13	30,564	30	16.95	82,109	152	9.00	115,377	100	19.20	158	228,050
Thu-4/18/13	43,224	30	24.00	219,103	152	24.00	144,091	100	24.00	282	406,418
Fri-4/19/13	43,367	30	24.00	213,465	148	24.00	144,084	100	24.00	278	400,916
Sat-4/20/13	43,284	30	24.00	211,864	147	24.00	144,081	100	24.00	277	399,229
Sun-4/21/13	43,290	30	24.00	211,656	147	24.00	144,073	100	24.00	277	399,019
Mon-4/22/13	43,341	30	24.00	211,942	147	24.00	144,082	100	24.00	277	399,365
Tue-4/23/13	43,382	30	24.00	216,993	151	24.00	144,075	100	24.00	281	404,450
Wed-4/24/13	43,483	30	24.00	219,242	152	24.00	144,078	100	24.00	283	406,803
Thu-4/25/13	43,509	30	24.00	219,228	152	24.00	144,083	100	24.00	283	406,820
Fri-4/26/13	43,637	30	24.00	219,234	152	24.00	144,080	100	24.00	283	406,951
Sat-4/27/13	43,570	30	24.00	219,269	152	24.00	144,082	100	24.00	283	406,921
Sun-4/28/13	43,485	30	24.00	218,968	152	23.95	144,086	100	24.00	282	406,539
Mon-4/29/13	43,494	30	24.00	208,745	145	24.00	144,079	100	24.00	275	396,318
Tue-4/30/13	43,488	30	24.00	204,659	142	24.00	144,082	100	24.00	272	392,229
<b>TOTALS</b>	<b>1,331,458</b>	<b>31</b>	<b>706.83</b>	<b>6,194,585</b>	<b>152</b>	<b>678.57</b>	<b>4,123,292</b>	<b>100</b>	<b>686.80</b>	<b>270</b>	<b>11,649,335</b>

<b>TOTAL VOLUME EXTRACTED :</b>	<b>11,649,335 GALLONS</b>
<b>DAYS IN MONTH :</b>	<b>30 DAYS</b>
<b>MONTHLY AVERAGE FLOW RATE :</b>	<b>269.66 GPM</b>

04/15/13 - 04/17/13 - Extraction was shut down due to DTE power outages caused by storms in the area.

**Little Lake Area System**

MW-53i	
Date	1,4-Dioxane ug/L
04/17/12	63
07/26/12	57
10/09/12	43
02/13/13	51
03/26/13	35

A2 Cleaning Supply Well	
Date	1,4-Dioxane ug/L
12/06/12	56
01/10/13	75
02/01/13	48
03/25/13	82
04/10/13	69



**TABLE #8**

**INDIVIDUAL PURGE WELL CONCENTRATIONS**

SAMPLE ID	Date Sampled	1,4-DIOXANE (ppb)
DOLPH-04-01-13-13:34-1	04/01/13	75
TW-20-04-01-13-13:45-1	04/01/13	860
LB-1-04-01-13-07:30-1	04/01/13	634
LB-3-04-01-13-07:31-1	04/01/13	416
TW-21-04-01-13-07:40-1	04/01/13	162
TW-5-04-01-13-13:13-1	04/01/13	978
TW-9-04-01-13-13:51-1	04/01/13	751
TW-11-04-01-13-13:16-1	04/01/13	226
TW-18-04-01-13-11:57-1	04/01/13	244
TW-19-04-01-13-07:32-1	04/01/13	906
PW-1-04-18-13-07:45-1	04/18/13	380
SW-COMB-04-01-13-13:37-1	04/01/13	556
TW-22-04-01-13-13:27-1	04/01/13	603
TW-8-04-01-13-14:16-1	04/01/13	484

RED POND DATA

Month of: Apr-13

Date	Time	Notes	Red Pond				
			Pond	Level	Aeration	Influent	Influent
			Visual Chk	Feet	Hours	Hours	GPM
Mon-4/1/13	3:05		Y	4.8	-	24.00	601
Tue-4/2/13	3:00		Y	4.6	-	24.00	603
Wed-4/3/13	3:00		Y	4.6	-	24.00	616
Thu-4/4/13	3:00		Y	4.8	-	24.00	621
Fri-4/5/13	3:00		Y	5.1	-	24.00	606
Sat-4/6/13	3:00	(1)		5.1	-	24.00	601
Sun-4/7/13	3:00	(1)		5.0	-	24.00	601
Mon-4/8/13	3:00		Y	5.1	-	24.00	601
Tue-4/9/13	3:00		Y	5.2	-	24.00	601
Wed-4/10/13	3:00		Y	5.1	-	24.00	600
Thu-4/11/13	3:00		Y	5.2	-	24.00	601
Fri-4/12/13	3:00		Y	5.3	-	24.00	600
Sat-4/13/13	3:00	(1)		5.3	-	24.00	600
Sun-4/14/13	3:00	(1)		5.2	-	24.00	598
Mon-4/15/13	3:00		Y	5.2	-	17.88	400
Tue-4/16/13	3:00		Y	6.0	-	24.00	361
Wed-4/17/13	3:00		Y	6.0	-	19.20	437
Thu-4/18/13	3:00		Y	5.4	-	24.00	606
Fri-4/19/13	3:00		Y	5.5	-	24.00	599
Sat-4/20/13	3:00	(1)		5.5	-	24.00	596
Sun-4/21/13	3:00	(1)		5.3	-	24.00	600
Mon-4/22/13	3:00		Y	5.3	-	24.00	602
Tue-4/23/13	3:00		Y	5.2	-	24.00	610
Wed-4/24/13	3:00		Y	5.4	-	24.00	614
Thu-4/25/13	3:00		Y	5.6	-	24.00	609
Fri-4/26/13	3:00		Y	5.6	-	24.00	605
Sat-4/27/13	3:00	(1)		5.6	-	24.00	606
Sun-4/28/13	3:00	(1)		5.6	-	24.00	606
Mon-4/29/13	3:00		Y	5.7	-	24.00	599
Tue-4/30/13	3:00		Y	5.6	-	24.00	588
<b>TOTALS</b>			-	-	-	709	

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

<b>SAMPLE ID</b>	<b>Date Sampled</b>	<b>1,4-DIOXANE (ppb)</b>
Red Pond-04-01-13-07:20-1	4/1/2013	482
Red Pond-04-08-13-07:20-1	4/8/2013	452
Red Pond-04-15-13-07:15-1	4/15/2013	453
Red Pond-04-22-13-07:30-1	4/22/2013	500
Red Pond-04-29-13-08:40-1	4/29/2013	530

OZONE OPERATION REPORT

Month of: Apr-13

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
Mon-4/1/13	3:07 AM		230	24.00	0	0.00	359	24.00	0	0.00
Tue-4/2/13	3:00 AM		230	24.00	0	0.00	359	24.00	0	0.00
Wed-4/3/13	3:00 AM		230	24.00	0	0.00	360	24.00	0	0.00
Thu-4/4/13	3:00 AM		230	24.00	0	0.00	362	24.00	0	0.00
Fri-4/5/13	3:00 AM		230	24.00	0	0.00	361	24.00	0	0.00
Sat-4/6/13	3:00 AM	(1)	230	24.00	0	0.00	360	24.00	0	0.00
Sun-4/7/13	3:00 AM	(1)	230	23.63	0	0.00	360	23.63	0	0.00
Mon-4/8/13	3:00 AM		230	23.78	0	0.00	360	23.77	0	0.00
Tue-4/9/13	3:00 AM		230	24.00	0	0.00	361	24.00	0	0.00
Wed-4/10/13	3:00 AM		230	24.00	0	0.00	360	24.00	0	0.00
Thu-4/11/13	3:00 AM		229	24.00	0	0.00	360	24.00	0	0.00
Fri-4/12/13	3:00 AM		229	24.00	0	0.00	362	24.00	0	0.00
Sat-4/13/13	3:00 AM	(1)	230	24.00	0	0.00	360	24.00	0	0.00
Sun-4/14/13	3:00 AM	(1)	230	24.00	0	0.00	361	24.00	0	0.00
Mon-4/15/13	3:00 AM		230	9.03	0	0.00	360	9.25	0	0.00
Tue-4/16/13	3:00 AM		0	11.48	0	0.00	0	11.38	0	0.00
Wed-4/17/13	3:00 AM		0	19.27	0	0.00	0	19.05	0	0.00
Thu-4/18/13	3:00 AM		229	24.00	0	0.00	361	24.00	0	0.00
Fri-4/19/13	3:00 AM		230	24.00	0	0.00	360	24.00	0	0.00
Sat-4/20/13	3:00 AM	(1)	230	24.00	0	0.00	360	24.00	0	0.00
Sun-4/21/13	3:00 AM	(1)	230	24.00	0	0.00	360	24.00	0	0.00
Mon-4/22/13	3:00 AM		230	24.00	0	0.00	360	24.00	0	0.00
Tue-4/23/13	3:00 AM		229	24.00	0	0.00	361	24.00	0	0.00
Wed-4/24/13	3:00 AM		230	24.00	0	0.00	359	24.00	0	0.00
Thu-4/25/13	3:00 AM		230	24.00	0	0.00	360	24.00	0	0.00
Fri-4/26/13	3:00 AM		230	24.00	0	0.00	360	24.00	0	0.00
Sat-4/27/13	3:00 AM	(1)	230	24.00	0	0.00	360	24.00	0	0.00
Sun-4/28/13	3:00 AM	(1)	230	24.00	0	0.00	360	24.00	0	0.00
Mon-4/29/13	3:00 AM		230	24.00	0	0.00	360	24.00	0	0.00
Tue-4/30/13	3:00 AM		229	23.88	0	0.00	360	23.78	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.

04/15/13 - 04/17/13 - Treatment was shut down due to DTE power outages caused by storms in the area.

TABLE #12

GREEN POND / DISCHARGE DATA

Month of: Apr-13

Date	Time	Notes	Green Pond																	
			Pond Visual Chk	Level Feet	Aeration Hours	Influent Hours	Influent GPM	Pond Discharge			Bypass Discharge			Recirc Thru UV to Pond			Recirc Thru UV to Disch			
									GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours	GPM	Gallons	Hours
Mon-4/1/13	3:05 AM		Y	-	-	-	-	-	-	-	-	616	886,559	24.00	-	-	-	-	-	-
Tue-4/2/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	886,233	24.00	-	-	-	-	-	-
Wed-4/3/13	3:00 AM		Y	-	-	-	-	-	-	-	-	616	886,593	24.00	-	-	-	-	-	-
Thu-4/4/13	3:00 AM		Y	-	-	-	-	-	-	-	-	616	886,884	24.00	-	-	-	-	-	-
Fri-4/5/13	3:00 AM		Y	-	-	-	-	-	-	-	-	616	887,138	24.00	-	-	-	-	-	-
Sat-4/6/13	3:00 AM	(1)		-	-	-	-	-	-	-	-	616	886,955	24.00	-	-	-	-	-	-
Sun-4/7/13	3:00 AM	(1)		-	-	-	-	-	-	-	-	615	871,533	23.60	-	-	-	-	-	-
Mon-4/8/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	876,955	23.75	-	-	-	-	-	-
Tue-4/9/13	3:00 AM		Y	-	-	-	-	-	-	-	-	616	886,877	24.00	-	-	-	-	-	-
Wed-4/10/13	3:00 AM		Y	-	-	-	-	-	-	-	-	616	886,537	24.00	-	-	-	-	-	-
Thu-4/11/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	885,915	24.00	-	-	-	-	-	-
Fri-4/12/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	886,075	24.00	-	-	-	-	-	-
Sat-4/13/13	3:00 AM	(1)		-	-	-	-	-	-	-	-	615	885,344	24.00	-	-	-	-	-	-
Sun-4/14/13	3:00 AM	(1)		-	-	-	-	-	-	-	-	615	886,028	24.00	-	-	-	-	-	-
Mon-4/15/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	342,411	9.28	-	-	-	-	-	-
Tue-4/16/13	3:00 AM		Y	-	-	-	-	-	-	-	-	610	419,900	11.47	-	-	-	-	-	-
Wed-4/17/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	701,102	19.00	-	-	-	-	-	-
Thu-4/18/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	885,438	24.00	-	-	-	-	-	-
Fri-4/19/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	885,037	24.00	-	-	-	-	-	-
Sat-4/20/13	3:00 AM	(1)		-	-	-	-	-	-	-	-	614	884,741	24.00	-	-	-	-	-	-
Sun-4/21/13	3:00 AM	(1)		-	-	-	-	-	-	-	-	615	885,217	24.00	-	-	-	-	-	-
Mon-4/22/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	885,354	24.00	-	-	-	-	-	-
Tue-4/23/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	885,455	24.00	-	-	-	-	-	-
Wed-4/24/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	884,941	24.00	-	-	-	-	-	-
Thu-4/25/13	3:00 AM		Y	-	-	-	-	-	-	-	-	614	884,723	24.00	-	-	-	-	-	-
Fri-4/26/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	885,084	24.00	-	-	-	-	-	-
Sat-4/27/13	3:00 AM	(1)		-	-	-	-	-	-	-	-	615	885,374	24.00	-	-	-	-	-	-
Sun-4/28/13	3:00 AM	(1)		-	-	-	-	-	-	-	-	615	885,196	24.00	-	-	-	-	-	-
Mon-4/29/13	3:00 AM		Y	-	-	-	-	-	-	-	-	615	885,260	24.00	-	-	-	-	-	-
Tue-4/30/13	3:00 AM		Y	-	-	-	-	-	-	-	-	609	877,603	24.00	-	-	-	-	-	-
<b>TOTALS</b>													25,348,462	687						

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)	(Influent - Red Pond)	(Effluent - Outfall)	(Effluent - Outfall)	(Weekly)	(2 x Week)	(4 x Week)	(5 X Week)	(2 X Week)
PARAMETER NAME	Flow	1,4-Dioxane	1,4-Dioxane	Hydrogen Peroxide (measured as TRO)	Outfall Observation	Equipment Inspection	pH	Bromate	Sodium Bisulfite Dose Rate
PARAMETER CODE	50050	82388	82388	00139	84130	46478	00400	99814	99798
MONITORING PT.	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE CODE	1	G	1	1	1	1	1	1	1
UNIT	MGD	mg/l	ug/l	ug/l	yes/no	yes/no	S.U.	ug/l	mg/l
4/1/2013	0.887	0.482	4	50	yes	yes	6.5	0	20
4/2/2013	0.886		4	50	no	no	6.6	0	
4/3/2013	0.887		5	50	no	no	6.6	0	
4/4/2013	0.887		5	100	no	yes	6.6	0	8
4/5/2013	0.887			50	no	no	6.6		
4/6/2013	0.887								
4/7/2013	0.872		4					0	
4/8/2013	0.877	0.452	3	50	yes	yes	6.5	0	26
4/9/2013	0.887		3	50	no	no	6.6	6	
4/10/2013	0.887		3	50	no	no	6.7	6	
4/11/2013	0.886		4	100	no	yes	6.6	0	30
4/12/2013	0.886			50	no	no	6.6		
4/13/2013	0.885								
4/14/2013	0.886		3					0	
4/15/2013	0.342	0.453	3	50	yes	yes	6.6	0	22
4/16/2013	0.420		5	100	no	no	6.7	0	
4/17/2013	0.701		5	0	no	no	6.6	0	
4/18/2013	0.885		4	0	no	yes	6.6	7	8
4/19/2013	0.885			0	no	no	6.6		
4/20/2013	0.885								
4/21/2013	0.885		3					0	
4/22/2013	0.885	0.500	4	50	yes	yes	6.6	0	10
4/23/2013	0.885		4	50	no	no	6.6	7	
4/24/2013	0.885		3	100	no	no	6.6	6	
4/25/2013	0.885		4	50	no	yes	6.6	0	14
4/26/2013	0.885			50	no	no	6.6		
4/27/2013	0.885								
4/28/2013	0.885		5					6	
4/29/2013	0.885	0.530	4	50	yes	yes	6.6	6	10
4/30/2013	0.878		3	0	no	no	6.7	5	
Discharged (mg)	25.348								
Monthly Avg			4					2	

Bromate: A zero value equals ND (less than 5 ppb)  
 Hydrogen Peroxide - A zero value equals ND (less than 50 ppb)