

City of Danbury  
Danbury Water Department  
CT DPH Order – Weekly Report As of January 9, 2023

This weekly report and its contents are formatted in accordance with Order Requirement No. 16 of the Declaration and Order for the City of Danbury issued by CT DPH on October 14, 2022.

16. a. Information regarding Danbury's supply and demand is as follows:

- Reservoir elevations measured on 1-9-2023
  - East Lake = 679.99
  - Margerie = 624.19
  - West Lake = 610.70
  
- Usable storage capacity
  - Equals 2,609 million gallons
  - Equals 93.5 percent of full capacity
  
- Weekly reservoir withdrawals
  - Equals 5.83 million gallons per day (MGD) average
  
- Weekly precipitation (1/2/23 – 1/8/23)
  - Equals 1.2 inches
  
- Supply days left
  - Equals 395 days (based on usable storage divided by 6.6 MGD)
  
- See attached tables and graphs regarding
  - City of Danbury Reservoir Readings (capacity and days of supply)
  - Danbury - Total Reservoir Capacity (storage capacity)
  - Total of Water Stored in Reservoirs
  - Days of Water Storage Remaining
  - Danbury Precipitation Totals
  - Danbury Reservoir Withdrawals
  - Danbury Water System Demands

16. b. Information regarding daily diversion of Lake Kenosia

- For week ending 1-8-2023 average daily diversion equals 7.16 MGD
- See attached table for a summary of daily diversions.

16. c. Information regarding Danbury's conservation practices and the effect of such practices.

- Information regarding conservation practices is posted on the Danbury website.

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- The effect of such practices resulted in an average system demand of 5.04 MGD for January 2, 2023 – January 8, 2023.

16. d. The results of water quality monitoring required in paragraphs 6, 7 & 8 of the Order.

- Results of samples collected shall be provided once they are received.
- To date there has been no observed impact to raw water quality entering the West Lake Water Treatment Plant (WTP) or to treated water leaving the West Lake WTP.

16. e. Information about PFAS

- Information about Per and Polyfluoroalkyl Substances (PFAS) and PFAS health effects can be found on the State DPH website.
  - <https://portal.ct.gov/DPH/Environmental-Health/PFAS/PFAS>
- The State DPH has set Drinking Water Action Levels for four of the PFAS that are commonly found in humans and Connecticut’s Drinking Water. Action Levels have been set for PFOS, PFNA, PFOA and PFHxS.
- PFAS was sampled on 10-4-2022 and was found to be in Danbury’s drinking water. However, the levels detected are well below the State DPH Action Levels set for PFAS. PFAS results in comparison to DPH Action Levels are as follows:

PFAS Contaminant	Danbury Water Highest Level	State DPH Action Level	Date Tested	Action Level Exceedance
PFOS (ppt)	2.43	10	10/4/2022	No
PFNA (ppt)	Not Detected	12	10/4/2022	No
PFOA (ppt)	3.28	16	10/4/2022	No
PFHxS (ppt)	1.07	49	10/4/2022	No

ppt = parts per trillion

- DWD will continue to monitor PFAS levels vs State DPH Action Levels

16. f. & g. – Communication with Cornell Hills and Aquarion

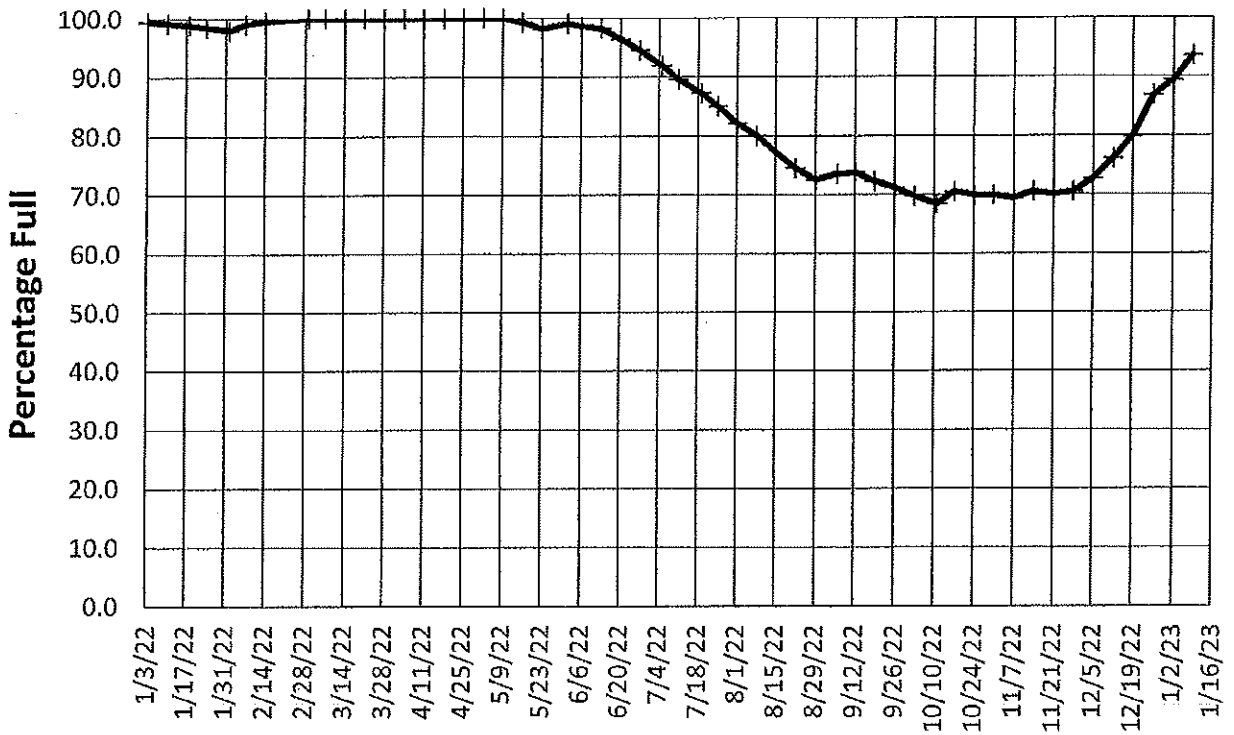
- Danbury has had discussions with both Cornell Hills and Aquarion regarding demand reduction efforts. Both Cornell Hills and Aquarion have issued mandatory bans on outdoor water use for all customers.

16. h. Communication materials for any business affected by the mandatory ban on outdoor water use are being developed and will be posted on the Public Utilities website.

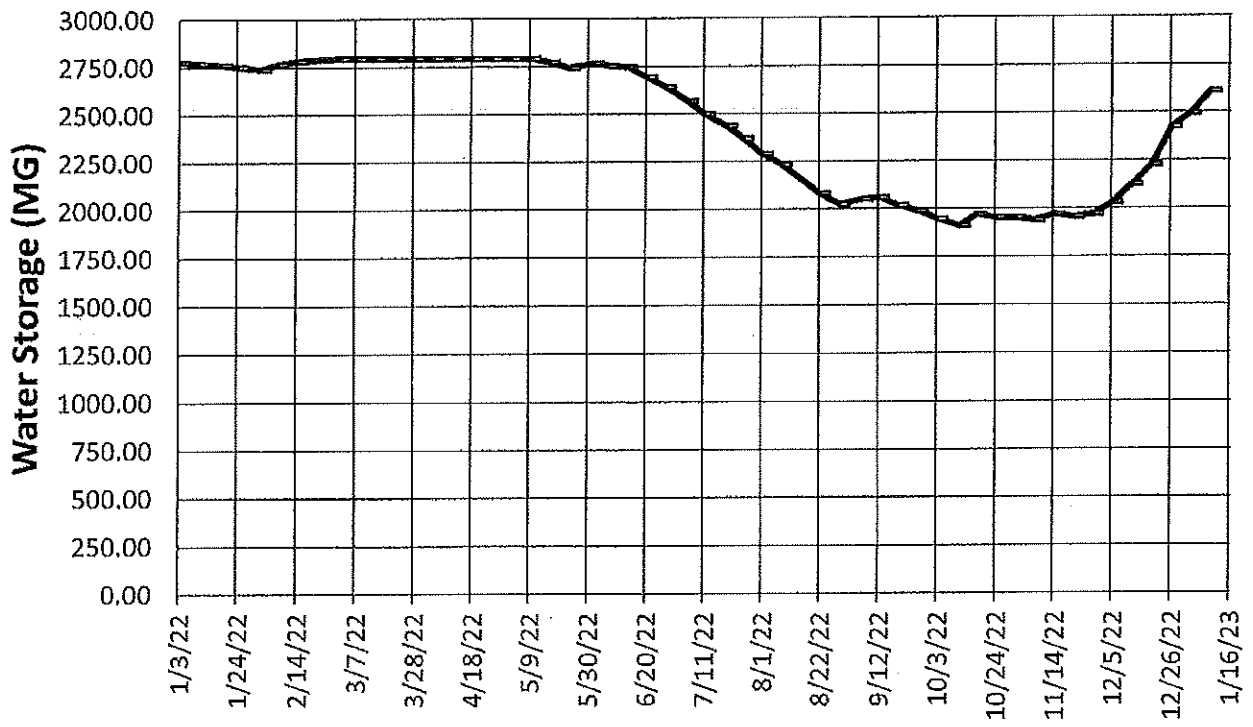
**City of Danbury Reservoir Readings**

Week of	East Lake		Margerie		West Lake		Composite		Days of Supply composite*
	% capacity	MG	% capacity	MG	% capacity	MG	% capacity	MG	
1/3/22	100.0	383.07	99.3	1143.87	99.4	1249.45	99.4	2776.38	421
1/10/22	100.0	383.07	98.5	1135.25	99.5	1250.24	99.2	2768.56	419
1/18/22	100.0	383.07	97.7	1125.77	99.7	1252.63	98.9	2761.47	418
1/24/22	100.0	383.07	97.2	1119.74	99.2	1247.05	98.5	2749.86	417
2/1/22	100.0	383.07	96.0	1105.95	99.2	1247.05	98.0	2736.07	415
2/7/22	100.0	383.07	97.5	1123.18	100.0	1256.62	99.0	2762.87	419
2/14/22	100.0	383.07	98.9	1139.56	100.0	1256.62	99.5	2779.24	421
3/1/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
3/7/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
3/14/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
3/21/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
3/28/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
4/4/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
4/11/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
4/18/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
4/25/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
5/2/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
5/9/22	100.0	383.07	100.0	1152.48	100.0	1256.62	100.0	2792.17	423
5/16/22	100.0	383.07	98.9	1139.56	99.5	1250.24	99.3	2772.87	420
5/23/22	100.0	383.07	99.0	1141.28	97.0	1218.37	98.2	2742.72	416
6/1/22	100.0	383.07	99.0	1141.28	98.9	1243.07	99.1	2767.42	419
6/6/22	100.0	383.07	98.1	1130.08	98.7	1240.68	98.6	2753.83	417
6/13/22	100.0	383.07	97.7	1125.77	98.2	1234.31	98.2	2743.14	416
6/20/22	100.0	383.07	95.0	1094.75	96.6	1214.38	96.4	2692.20	408
6/27/22	100.0	383.07	92.5	1066.31	94.7	1190.48	94.5	2639.86	400
7/5/22	99.7	381.95	90.0	1037.01	91.4	1148.25	91.9	2567.21	389
7/11/22	99.0	379.28	87.4	1006.84	88.5	1111.59	89.5	2497.71	378
7/19/22	99.0	379.28	84.6	975.20	85.9	1079.63	87.2	2434.11	369
7/25/22	98.7	378.16	82.1	946.44	83.3	1046.70	84.9	2371.30	359
8/1/22	92.6	354.72	80.8	931.65	79.8	1002.28	82.0	2288.66	347
8/8/22	86.6	331.85	80.7	930.01	77.4	973.18	80.0	2235.04	339
8/22/22	73.8	282.80	78.8	907.83	70.9	890.78	74.5	2081.41	315
8/29/22	68.5	262.59	77.9	897.97	68.7	863.04	72.5	2023.60	307
9/6/22	66.5	254.87	80.7	930.01	69.0	866.69	73.5	2051.57	311
9/12/22	63.8	244.38	81.7	941.51	69.5	873.26	73.7	2059.15	312
9/19/22	58.5	223.96	81.0	933.30	68.5	860.85	72.3	2018.11	306
9/26/22	53.6	205.29	80.6	929.19	68.0	854.28	71.2	1988.75	301
10/3/22	48.7	186.47	80.5	927.55	66.2	832.38	69.7	1946.39	295
10/11/22	47.9	183.52	79.0	910.29	65.0	817.04	68.4	1910.85	290
10/17/22	51.5	197.44	80.1	923.44	67.3	846.25	70.5	1967.13	298
10/24/22	52.3	200.23	78.5	904.54	67.3	846.25	69.9	1951.02	296
10/31/22	53.8	206.16	77.6	894.68	67.8	851.36	69.9	1952.20	296
11/7/2022	54.6	209.29	76.1	876.60	67.7	850.62	69.4	1936.52	293
11/14/2022	57.1	218.90	76.8	885.64	68.9	865.23	70.5	1969.78	298
11/21/2022	60.4	231.45	76.4	880.71	67.1	843.33	70.0	1955.50	296
11/28/2022	62.4	239.13	76.3	879.89	67.7	850.63	70.5	1969.65	298
12/5/2022	66.3	254.12	77.3	890.57	70.5	886.40	72.7	2031.09	308
12/12/2022	71.0	271.79	78.1	900.43	75.8	952.50	76.1	2124.73	322
12/19/2022	75.5	288.00	80.8	925.08	80.8	1015.30	79.8	2228.38	338
12/26/2022	86.1	329.73	83.8	966.16	89.7	1126.73	86.8	2422.62	367
1/2/2023	89.6	343.34	83.9	966.98	94.2	1183.31	89.3	2493.63	378
1/9/2023	95.3	364.99	85.7	987.88	100.0	1256.62	93.5	2609.49	395

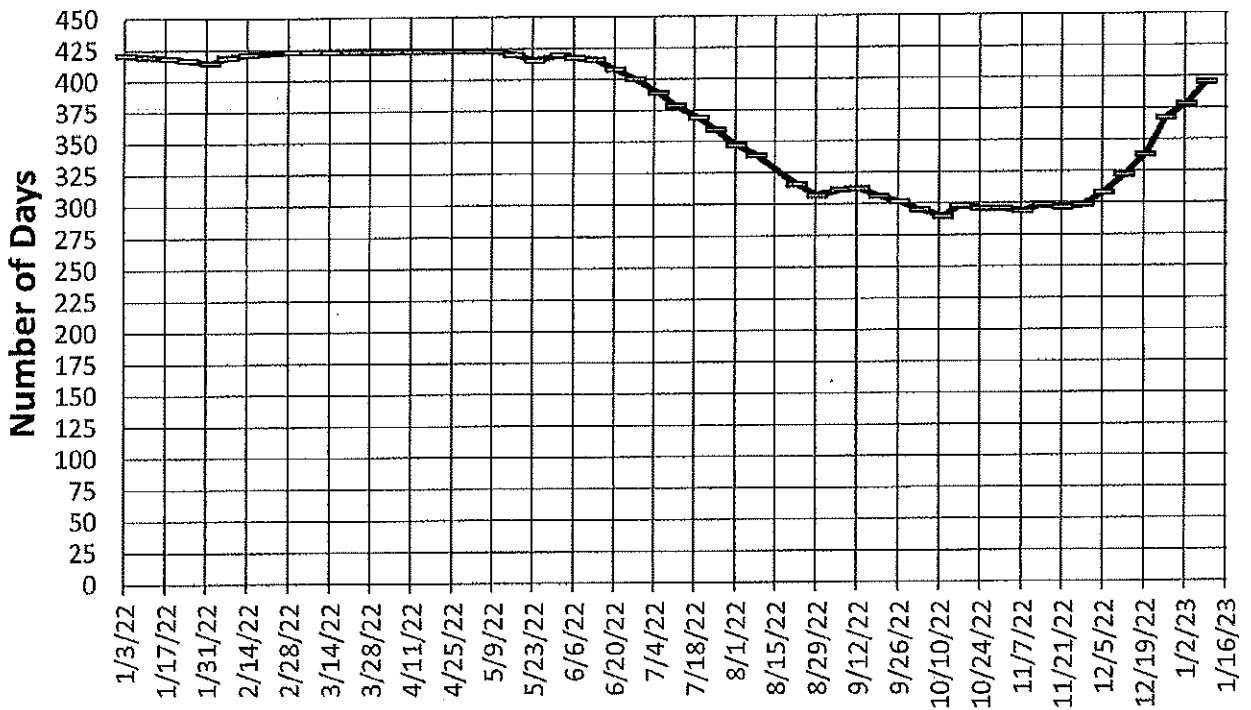
### Danbury - Total Reservoir Capacity thru 1/9/23



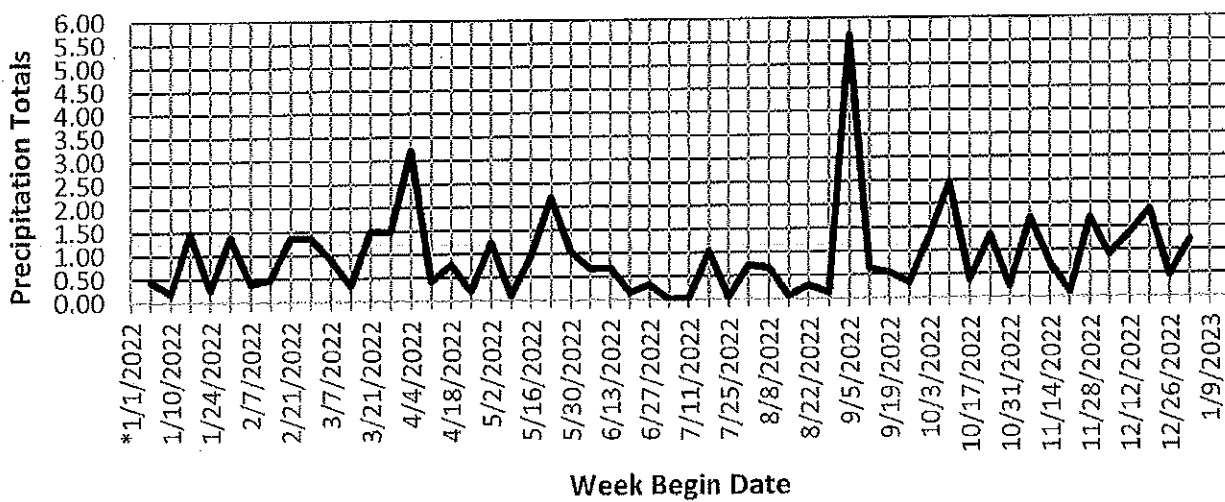
### Total of Water Stored in Reservoirs (million gallons - MG)



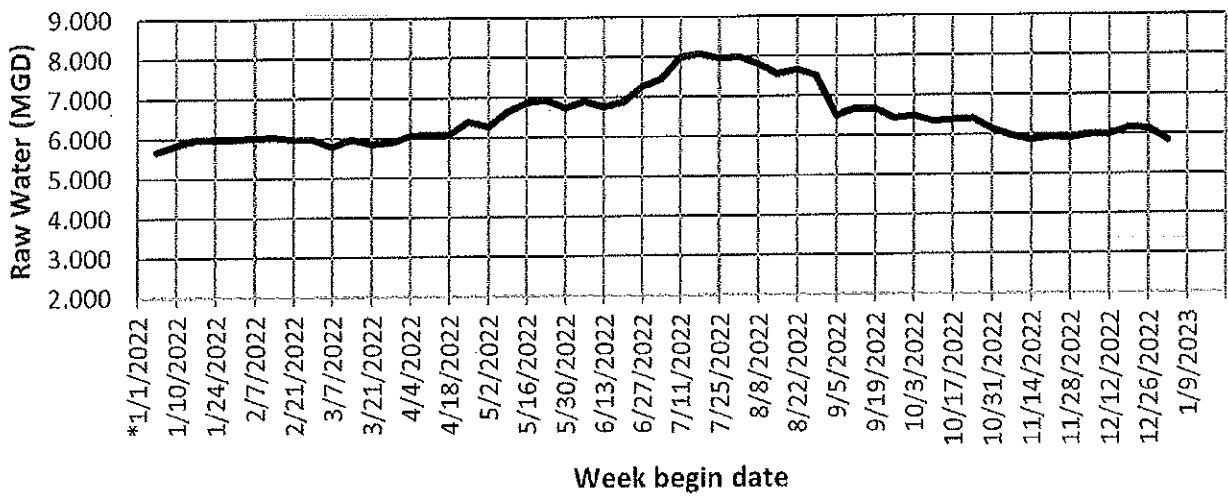
### Days of Water Storage Remaining (based on 6.6 MGD usage)



### Danbury Precipitation Totals weekly total

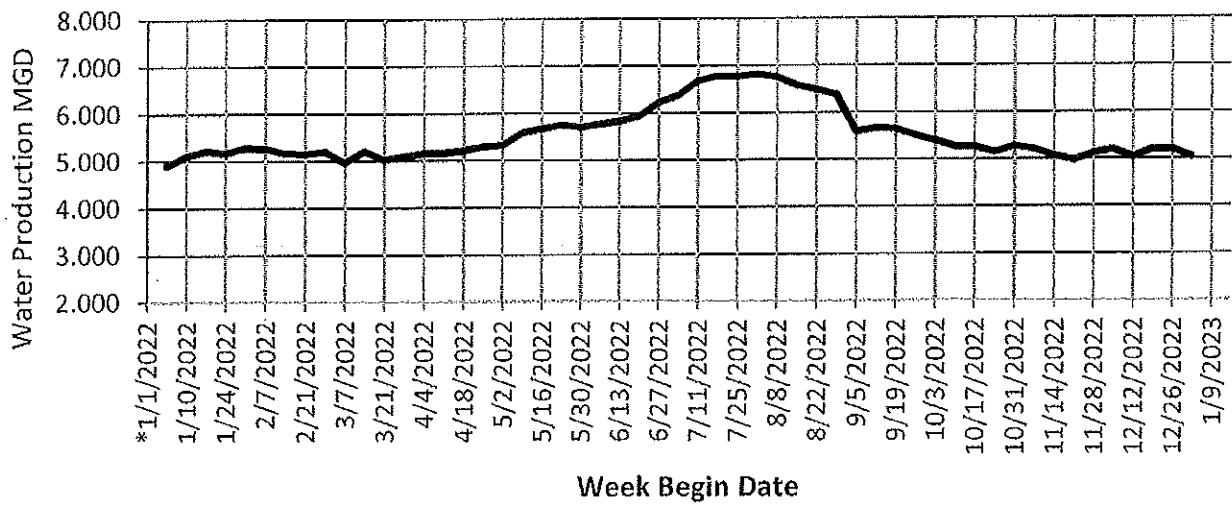


### Danbury Reservoir Withdrawals million gallons per day (MGD)





### Danbury Water System Demands million gallon produced per day (MGD)



**LAKE KENOSIA DAILY DIVERSION (gallons)**

<u>Day</u>	<u>Date</u>	<u>Totalizer</u>	<u>Daily Total</u>	<u>Weekly Total</u>	<u>Weekly Avg.</u>
	10/15/2022	236529900	0		
	10/16/2022	245465100	8,935,200		
Monday	10/17/2022	255020000	9,554,900		
	10/18/2022	257974000	2,954,000		
	10/19/2022	264741000	6,767,000		
	10/20/2022	270933700	6,192,700		
	10/21/2022	271960900	1,027,200		
	10/22/2022	273883500	1,922,600		
	10/23/2022	275825700	1,942,200	30,360,600	4,337,229
Monday	10/24/2022	277799900	1,974,200		
	10/25/2022	279812700	2,012,800		
	10/26/2022	283852800	4,040,100		
	10/27/2022	285854300	2,001,500		
	10/28/2022	288891700	3,037,400		
	10/29/2022	289946500	1,054,800		
	10/30/2022	291916300	1,969,800	16,090,600	2,298,657
Monday	10/31/2022	293927600	2,011,300		
	11/1/2022	296099300	2,171,700		
	11/2/2022	299172900	3,073,600		
	11/3/2022	302062600	2,889,700		
	11/4/2022	303078300	1,015,700		
	11/5/2022	304091000	1,012,700		
	11/6/2022	304091000	0	12,174,700	1,739,243
Monday	11/7/2022	304091000	0		
	11/8/2022	306138900	2,047,900		
	11/9/2022	308011800	1,872,900		
	11/10/2022	309002700	990,900		
	11/11/2022	309002700	0		
	11/12/2022	309019100	16,400		
	11/13/2022	312260900	3,241,800	8,169,900	1,167,129
Monday	11/14/2022	319277500	7,016,600		
	11/15/2022	319277500	0		
	11/16/2022	319277500	0		
	11/17/2022	319277500	0		
	11/18/2022	319277500	0		
	11/19/2022	319277500	0		
	11/20/2022	319277500	0	7,016,600	1,002,371
Monday	11/21/2022	319277500	0		
	11/22/2022	319277500	0		
	11/23/2022	319277500	0		
	11/24/2022	319277500	0		
	11/25/2022	319277500	0		
	11/26/2022	319277500	0		

**LAKE KENOSIA DAILY DIVERSION (gallons)**

<u>Day</u>	<u>Date</u>	<u>Totalizer</u>	<u>Daily Total</u>	<u>Weekly Total</u>	<u>Weekly Avg.</u>
	11/27/2022	319277500	0	0	0
Monday	11/28/2022	319277500	0		
	11/29/2022	319277500	0		
	11/30/2022	319277500	0		
	12/1/2022	320813200	1,535,700		
	12/2/2022	326727700	5,914,500		
	12/3/2022	332688800	5,961,100		
	12/4/2022	339234700	6,545,900	19,957,200	2,851,029
Monday	12/5/2022	345542500	6,307,800		
	12/6/2022	351715300	6,172,800		
	12/7/2022	358039000	6,323,700		
	12/8/2022	364137200	6,098,200		
	12/9/2022	370456100	6,318,900		
	12/10/2022	376661400	6,205,300		
	12/11/2022	383161200	6,499,800	43,926,500	6,275,214
Monday	12/12/2022	387403000	4,241,800		
	12/13/2022	390624500	3,221,500		
	12/14/2022	393961000	3,336,500		
	12/15/2022	397100700	3,139,700		
	12/16/2022	400288000	3,187,300		
	12/17/2022	406375800	6,087,800		
	12/18/2022	414720100	8,344,300	31,558,900	4,508,414
Monday	12/19/2022	422463900	7,743,800		
	12/20/2022	430340200	7,876,300		
	12/21/2022	435676300	5,336,100		
	12/22/2022	441012800	5,336,500		
	12/23/2022	446196400	5,183,600		
	12/24/2022	454656700	8,460,300		
	12/25/2022	463624200	8,967,500	48,904,100	6,986,300
Monday	12/26/2022	472159000	8,534,800		
	12/27/2022	480727000	8,568,000		
	12/28/2022	489388600	8,661,600		
	12/29/2022	495915200	6,526,600		
	12/30/2022	502145400	6,230,200		
	12/31/2022	506130400	3,985,000		
	1/1/2023	510428100	4,297,700	46,803,900	6,686,271
Monday	1/2/2023	515575000	5,146,900		
	1/3/2023	521531000	5,956,000		
	1/4/2023	526330000	4,799,000		
	1/5/2023	534941200	8,611,200		
	1/6/2023	543375700	8,434,500		
	1/7/2023	551947900	8,572,200		
	1/8/2023	560553200	8,605,300	50,125,100	7,160,729