



**PROJECT 7 WATER AUTHORITY**

**2024**

**ANNUAL WATER QUALITY REPORT**

**ADAM TURNER – Manager**  
**FRED WALDMAN – ORC**  
**Tessa Scharf – Office Manager**

**BOARD OF DIRECTORS**

**JAKE FOREMAN - Chairman**  
**RANDY MEAKER- Secretary/Treasurer**  
**VICKI RIPP – Vice President**  
**KEVIN CARLSON - Director**  
**JOHN MCCOLLUM - Director**  
**DAVID BRIES- Director**

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## PROJECT 7 - WATER PURCHASE RECORD - GALLONS

2023	CITY OF MONTROSE	CITY OF DELTA	TRI-COUNTY	MENOKEN	CHIPETA	TOWN OF OLATHE	TOTALS PROJECT 7
JAN	48,937,000	25,636,000	53,401,000	8,928,000	10,258,000	4,574,000	151,734,000
FEB	44,030,000	23,511,000	50,344,000	8,879,000	8,076,000	3,554,000	138,394,000
MAR	44,586,000	24,205,000	53,452,000	9,140,000	8,448,000	3,750,000	143,581,000
APR	63,015,000	36,635,000	60,444,000	12,658,000	9,433,000	4,888,000	187,073,000
MAY	135,238,000	58,844,000	85,690,000	15,207,000	12,217,000	7,217,000	314,413,000
JUN	164,612,000	61,615,000	92,765,000	17,996,000	15,472,000	8,979,000	361,439,000
JUL	223,713,000	79,997,000	133,837,000	22,472,000	21,221,000	11,543,000	492,783,000
AUG	188,352,000	65,047,000	114,157,000	17,537,000	17,526,000	10,327,000	412,946,000
SEP	163,604,000	58,670,000	96,612,000	16,490,000	15,181,000	8,709,000	359,266,000
OCT	89,276,000	37,736,000	71,787,000	13,080,000	12,189,000	5,419,000	229,487,000
NOV	49,529,000	23,606,000	52,264,000	8,146,000	9,459,000	3,923,000	146,927,000
DEC	46,783,000	22,979,000	51,604,000	11,411,000	9,469,000	3,518,000	145,764,000
<b>TOTAL</b>	<b>1,261,675,000</b>	<b>518,481,000</b>	<b>916,357,000</b>	<b>161,944,000</b>	<b>148,949,000</b>	<b>76,401,000</b>	<b>3,083,807,000</b>
<b>ACRE FT.</b>	<b>3,872.08</b>	<b>1,591.22</b>	<b>2,812.30</b>	<b>497.01</b>	<b>457.12</b>	<b>234.47</b>	<b>9,464.20</b>
<b>% OF USE</b>	<b>40.91%</b>	<b>16.81%</b>	<b>29.72%</b>	<b>5.25%</b>	<b>4.83%</b>	<b>2.48%</b>	<b>100.00%</b>
<b>No. of Taps (approx)</b>	<b>8,526</b>	<b>3,690</b>	<b>7,857</b>	<b>1,367</b>	<b>1,770</b>	<b>633</b>	<b>23,843</b>

2024	CITY OF MONTROSE	CITY OF DELTA	TRI-COUNTY	MENOKEN	CHIPETA	TOWN OF OLATHE	TOTALS PROJECT 7
JAN	49,458,000	25,414,000	54,909,000	10,014,000	7,753,000	4,068,000	151,616,000
FEB	45,486,000	21,909,000	48,621,000	10,032,000	7,928,000	3,281,000	137,257,000
MAR	51,753,000	25,223,000	56,050,000	13,020,000	8,671,000	3,765,000	158,482,000
APR	89,165,000	44,245,000	69,378,000	13,848,000	13,197,000	5,656,000	235,489,000
MAY	136,192,000	56,494,000	85,771,000	15,481,000	15,851,000	7,031,000	316,820,000
JUN	178,319,000	66,036,000	115,517,000	19,289,000	19,097,000	8,300,000	406,558,000
JUL	195,999,000	69,312,000	121,637,000	21,234,000	20,639,000	10,068,000	438,889,000
AUG	166,125,000	61,506,000	108,051,000	18,306,000	17,413,000	8,549,000	379,950,000
SEP	143,015,000	53,726,000	87,932,000	16,152,000	15,318,000	7,825,000	323,968,000
OCT	99,552,000	44,452,000	72,573,000	12,177,000	13,394,000	6,182,000	248,330,000
NOV	45,111,000	27,257,000	56,897,000	11,979,000	8,949,000	4,052,000	154,245,000
DEC	45,493,000	26,231,000	57,079,000	10,779,000	9,946,000	3,748,000	153,276,000
<b>TOTAL</b>	<b>1,245,668,000</b>	<b>521,805,000</b>	<b>934,415,000</b>	<b>172,311,000</b>	<b>158,156,000</b>	<b>72,525,000</b>	<b>3,104,880,000</b>
<b>ACRE FT.</b>	<b>3,822.96</b>	<b>1,601.42</b>	<b>2,867.72</b>	<b>528.82</b>	<b>485.38</b>	<b>222.58</b>	<b>9,528.88</b>
<b>% OF USE</b>	<b>40.12%</b>	<b>16.81%</b>	<b>30.10%</b>	<b>5.55%</b>	<b>5.09%</b>	<b>2.34%</b>	<b>100.00%</b>
<b>No. of Taps (approx)</b>	<b>8,936</b>	<b>3,704</b>	<b>8,199</b>	<b>1,380</b>	<b>1,813</b>	<b>634</b>	<b>24,666</b>

## 2024 Water Quality Composite

Analyte	Matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
Total Alkalinity (mg/L)	Raw	64	65	62	65	64	57	56	56	58	60	70	78	63
Total Alkalinity (mg/L)	Finished	77	78	76	76	75	68	68	67	70	71	83	92	75
Total Hardness (mg/L)	Raw	140	142	138	124	119	107	107	107	107	112	159	204	130
Total Hardness (mg/L)	Finished	140	141	136	123	119	106	107	105	107	111	160	205	130
Calcium Hardness (mg/L)	Finished	101	103	98	89	85	79	79	79	79	80	117	147	95
Magnesium Hardness (mg/L)	Finished	39	38	38	34	34	27	28	26	28	31	43	58	35
pH	Raw	8.22	8.19	8.07	8.05	8.07	8.00	8.00	7.98	8.01	8.10	7.90	8.06	8.06
pH	Finished	7.51	7.36	7.20	7.17	7.20	7.14	7.21	7.20	7.22	7.26	7.25	7.28	7.25
Turb (NTU)	Raw	7.9	7.5	11.4	10.8	11.7	13.2	22.0	16.4	12.5	8.3	10.5	9.6	11.8
Turb (NTU)	Clarifier	1.00	0.76	0.73	0.92	0.75	0.62	0.62	0.50	0.48	0.50	0.72	0.96	0.71
Turb (NTU)	Finished	0.051	0.044	0.043	0.042	0.048	0.048	0.052	0.048	0.048	0.046	0.049	0.058	0.048
Chlorine residual -free (mg/L)	Finished (DCB eff)	2.09	2.03	2.14	2.06	1.91	1.90	1.91	1.95	1.90	1.91	2.14	2.14	2.01
Chlorine residual -total (mg/L)	Finished/Storage	2.07	2.03	2.11	1.94	1.84	1.77	1.82	1.83	1.80	1.81	1.96	1.98	1.91
Monochloramine (mg/L)	Finished/Storage	1.45	1.35	1.31	1.43	1.40	1.36	1.48	1.46	1.35	1.41	1.46	1.42	1.41
Free Ammonia (as N) (mg/L)	Finished/Storage	0.01	0.05	0.06	0.03	0.03	0.01	0.01	0.01	0.05	0.05	0.03	0.02	0.03
% of residual as Monochloramine	Finished/Storage	70%	67%	62%	74%	76%	77%	81%	80%	75%	78%	74%	72%	74%
Total Ammonia (mg/L)	Finished/Storage	0.36	0.38	0.31	0.36	0.31	0.36	0.34	0.35	0.32	0.33	0.34	0.33	0.34
Color (color units)	Raw	83	85	114	108	98	129	195	155	114	76	110	97	114
Total Dissolved Solids (mg/L)	Raw	135	128	133	115	110	98	95	99	101	102	140	199	121
Total Dissolved Solids (mg/L)	Finished	139	132	139	120	114	102	103	103	101	106	145	203	126
Iron (mg/L)	Raw	0.18	0.07	0.43	0.11	0.17	-	0.17	0.36	0.14	0.28	BDL	0.05	0.20
Iron (mg/L)	Finished/Storage	0.03	BDL	0.01	0.04	0.02	BDL	BDL	0.02	BDL	BDL	BDL	BDL	0.02
Copper (ug/L)	Raw	10	11	31	BDL	12	24	2	32	3	49	8	5	17
Copper (ug/L)	Finished/Storage	10	12	21	11	10	13	1	15	5	12	13	11	11
Phosphorus (mg/L)	Raw	0.05	0.07	0.05	0.05	0.05	0.08	0.11	0.28	0.08	0.08	0.04	0.08	0.09
Phosphorus (mg/L)	Finished/Storage	0.02	0.04	0.04	0.05	0.03	0.04	0.07	0.04	BDL	0.02	BDL	BDL	0.04
Sulfate (mg/L)	Raw	65	50	58	36	21	18	17	24	18	20	46	78	38
Sulfate (mg/L)	Finished/Storage	55	63	63	50	33	37	33	41	36	34	59	70	48
Fluoride (mg/L)	Finished/Storage	0.28	0.25	0.26	0.24	0.18	0.22	0.17	0.26	0.19	0.36	0.26	0.29	0.25
Langlier Index (10 Sample Avg.)	Distribution System	-1.69			-1.41			-1.53			-1.43			-1.51

# Inorganics

Sample Date: 4/24/2023

Ute Water Laboratory

Analyte	[Conc.]	Method
ANTIMONY	< 1 ug/L	EPA 3113B
ARSENIC	< 1 ug/L	EPA 3113B
BARIUM	44.5 ug/L	EPA 3113B
BERYLLIUM	0 ug/L	EPA 3113B
CADMIUM	0 ug/L	EPA 3113B
CHROMIUM	< 1 ug/L	EPA 3113B
FLUORIDE	< 0.2 mg/L	EPA 300.0
MERCURY	0 ug/L	EPA 200.9
NICKEL	< 1 ug/L	EPA 3113B
NITRATE	< 0.2 mg/L	EPA 300.0
SELENIUM	< 1 ug/L	EPA 3113B
SODIUM	< 10 mg/L	EPA 3113B
THALLIUM	0 ug/L	EPA 200.9

Sample Date: 2/7/2024

Ute Water Laboratory

Analyte	[Conc.]	Method
NITRATE	0 mg/L	EPA 300

# Volatile Organic Compounds

Sample Date: 2/7/2024

Ute Water Laboratory

Analyte	[Conc.]	Method
VINYL CHLORIDE	0 ug/L	524.3
1,1-DICHLOROETHYLENE	0 ug/L	524.3
DICHLOROMETHANE	0 ug/L	524.3
CIS-1,2-DICHLOROETHYLENE	0 ug/L	524.3
TRANS-1,2-DICHLOROETHYLENE	0 ug/L	524.3
1,1,1-TRICHLOROETHANE	0 ug/L	524.3
CARBON TETRACHLORIDE	0 ug/L	524.3
BENZENE	< 0.5 ug/L	524.3
1,2-DICHLOROETHANE	0 ug/L	524.3
TRICHLOROETHYLENE	0 ug/L	524.3
1,2-DICHLOROPROPANE	0 ug/L	524.3
TOLUENE	0 ug/L	524.3
1,1,2-TRICHLOROETHANE	0 ug/L	524.3
TETRACHLOROETHYLENE	0 ug/L	524.3
CHLOROBENZENE	0 ug/L	524.3
ETHYLBENZENE	0 ug/L	524.3
XYLENES - TOTAL	0 ug/L	524.3
STYRENE	0 ug/L	524.3
P-DICHLOROBENZENE	0 ug/L	524.3
O-DICHLOROBENZENE	0 ug/L	524.3
1,2,4-TRICHLOROBENZENE	0 ug/L	524.3

## Report of Analysis

Client Sample ID:	EP01	Date Sampled:	08/05/24
Lab Sample ID:	DA66145-1	Date Received:	08/06/24
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 505 EPA 505		
Project:	PWSID CO0143621 Project 7 Water Association		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GEH57362.D	1	08/12/24 19:25	MB	08/12/24 10:45	OP26193	GEH2189
Run #2							

Run #	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

### Primary Drinking Water Pesticide/PCB List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
309-00-2	Aldrin	ND		0.010	0.0070	ug/l	
5103-71-9	alpha-Chlordane	ND		0.020	0.010	ug/l	
5103-74-2	gamma-Chlordane	ND		0.020	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.20	0.010	0.0060	ug/l	
12789-03-6	Chlordane	ND	2.0	0.20	0.10	ug/l	
60-57-1	Dieldrin	ND		0.010	0.0060	ug/l	
72-20-8	Endrin	ND	2.0	0.010	0.0080	ug/l	
76-44-8	Heptachlor <sup>a</sup>	ND	0.40	0.020	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.20	0.020	0.010	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.020	0.010	ug/l	
77-47-4	Hexachlorocyclopentadiene	0.10	50	0.040	0.039	ug/l	
72-43-5	Methoxychlor	ND	40	0.020	0.010	ug/l	
8001-35-2	Toxaphene	ND	3.0	1.0	0.50	ug/l	
12674-11-2	Aroclor 1016 <sup>a</sup>	ND	0.50	0.080	0.075	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.10	0.080	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.10	0.080	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.10	0.080	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.10	0.050	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.10	0.050	ug/l	
11096-82-5	Aroclor 1260 <sup>a</sup>	ND	0.50	0.10	0.050	ug/l	
1336-36-3	Total PCBs	ND	0.50	0.10	0.080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	113%		70-140%
877-09-8	Tetrachloro-m-xylene	102%		70-140%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 MCL = Maximum Contamination Level (40 CFR 141)      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: 001		
Lab Sample ID: DA64523-1		Date Sampled: 05/21/24
Matrix: DW - Drinking Water		Date Received: 05/22/24
Method: EPA 505 EPA 505		Percent Solids: n/a
Project: PWSID CO0143621 Project 7 Water Association		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GEH56738.D	1	05/29/24 02:11	MB	05/28/24 20:00	OP25765	GEH2160
Run #2							

Run #	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

### Primary Drinking Water Pesticide/PCB List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
309-00-2	Aldrin	ND		0.010	0.0070	ug/l	
5103-71-9	alpha-Chlordane	ND		0.020	0.010	ug/l	
5103-74-2	gamma-Chlordane	ND		0.020	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.20	0.010	0.0060	ug/l	
12789-03-6	Chlordane	ND	2.0	0.20	0.10	ug/l	
60-57-1	Dieldrin	ND		0.010	0.0060	ug/l	
72-20-8	Endrin	ND	2.0	0.010	0.0080	ug/l	
76-44-8	Heptachlor	ND	0.40	0.020	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.20	0.020	0.010	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.020	0.010	ug/l	
77-47-4	Hexachlorocyclopentadiene	0.087	50	0.040	0.039	ug/l	
72-43-5	Methoxychlor	ND	40	0.020	0.010	ug/l	
8001-35-2	Toxaphene	ND	3.0	1.0	0.50	ug/l	
12674-11-2	Aroclor 1016	ND	0.50	0.080	0.075	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.10	0.080	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.10	0.080	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.10	0.080	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.10	0.050	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.10	0.050	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.10	0.050	ug/l	
1336-36-3	Total PCBs	ND	0.50	0.10	0.080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	133%		70-140%

ND = Not detected      MDL = Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound



### 2024 Disinfection Byproducts and TOC removal

Sample Date	Raw Alk	Raw TOC	Fin TOC	TOC removal compliance ratio	Montrose (2)		Tri County (2)		Delta		Menoken		Chipeta		Olathe		P7 System THMs	P7 System HAAs
					THM	HAA	THM	HAA	THM	HAA	THM	HAA	THM	HAA	THM	HAA		
1/9/24	76	3.7	2.8	0.95														
2/7/24	76	3.6	2.4	1.28	18.6	29.6	33.3	19.4	38.4	30.1	41.0	21.8	36.0	27.9	37.9	36.1	32.1	27.4
3/11/24	82	2.8	1.9	1.21														
4/9/24	72	3.2	2.1	1.43														
5/8/24	80	3.0	2.3	0.86	37.7	47.2	36.6	27.2	28.7	47.0	44.6	9.4	42.3	44.1	44.2	47.5	38.5	37.1
6/12/24	72	3.4	2.5	1.07														
7/8/24	70	4.1	3.2	0.84														
8/6/24	68	3.3	2.5	1.03	49.1	28.4	39.2	15.9	49.0	31.7	47.7	12.6	45.2	25.7	46.7	28.4	45.7	23.4
9/9/24	68	3.2	2.4	0.95														
10/7/24	76	3.2	2.6	0.75														
11/4/24	76	3.3	2.3	1.23	42.5	38.7	32.8	16.8	42.9	25.2	39.0	7.6	29.9	41.9	42.0	32.5	38.1	27.3
12/10/24	94	3.1	2.5	0.81														
<b>Avg.</b>	<b>76</b>	<b>3.32</b>	<b>2.47</b>	<b>1.03</b>	<b>37.0</b>	<b>35.9</b>	<b>35.5</b>	<b>19.8</b>	<b>39.7</b>	<b>33.5</b>	<b>43.1</b>	<b>9.8</b>	<b>38.4</b>	<b>34.9</b>	<b>42.7</b>	<b>36.1</b>	<b>38.6</b>	<b>28.8</b>

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Colorado Department  
of Public Health  
and Environment

## Radionuclides Certified Laboratory Report Form

WQCD – Drinking Water CAS

Submit Online at <http://www.wqcdcompliance.com/login>

Revision 4/13/2015

# RAD

Section I (Supplied or Completed by Public Water System)				Section II (Supplied or Completed by Certified Laboratory)					
Public Water System Information				Certified Laboratory Information					
PWS ID: CO0143621				Laboratory ID: CO00008					
System Name: Project 7 Water Authority				Laboratory Name: Hazen Research Inc.					
Contact Person: Fred Waldman		Phone #: 970 249 5935		Contact Person: Scott Heideman		Phone #: 970-279-4501			
Comments:		Do Samples Need to be Composited <b>BY THE LAB</b> ? <input type="checkbox"/>		Comments:					
Section III (Supplied or Completed by Public Water System)									
Sample Date: 7/31/17		Collector: FW		Facility ID (On Schedule): 001		Sample Pt ID (On Schedule): 001			
Section IV Radionuclides (Supplied or Completed by Certified Laboratory)									
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result	
8/1/17	8/23/17	H12817-001	Gross Alpha Including Uranium (4002)	12587-46-1	SM7110B	N/A	1.2	0.8	
	8/4/17		Combined Uranium (4006)	7440-61-1	EPA 200.8	30 ug/L	0.00020	0.00092	
	8/28/17		Radium -226 (4020)	13982-63-3	SM-7500-Ra B	N/A	0.1	0.0	
	9/5/17		Radium -228 (4030)	15262-20-1	0.5	N/A	.8	0.5	
			Gross Beta (4100)	12587-47-2			50 pCi/L*		
			Total Dissolved Solids (1930)			EPA 160.3	N/A		188
*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.									
Section V Calculated Values									
N/A			Gross Alpha Excluding Uranium (4000)	Calculated Value		15 pCi/L	N/A	0.0	
			Combined Radium {-226 & -228} (4010)	Calculated Value		5 pCi/L	N/A	0.5	

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than sign (<) may also be used

ug/L: Micrograms per Liter

pCi/L: Picocuries per Liter

MCL: Maximum Contaminant Level

## 2023 Lead/Copper sampling results

Date	Address	Lead (ug/L)	Copper (ug/L)
7/18/2023	707 Nuvue St	BDL	94.0
7/18/2023	1470 E. 7th Street	1.3	42.5
7/25/2023	1438 906 Rd	2.9	368.3
7/25/2023	2111 Cty Rd 22	0.4	354.4
7/25/2023	3247 1600 Rd	3.4	50.6
7/25/2023	67283 Las Vegas	0.3	383.8
7/25/2023	70400 E Hwy 50	1.2	55.6
7/25/2023	10760 5880 Rd	1.3	52.7
7/25/2023	14037 G Rd	0.5	648.5
7/20/2023	121 N. Wilson Ave	0.9	201.3
7/13/2023	62143 Hwy 90	1.2	199.4
7/18/2023	1304 Kent	1.2	269.6
7/19/2023	1316 Kent	0.5	188.4
7/19/2023	145 West S 1st	0.5	96.4
7/14/2023	1675 E Niagara	1.6	73.0
7/14/2023	2750 Cimarron Street	BDL	617.9
7/18/2023	701 Willow Wood lane	9.5	82.2
7/18/2023	1908 Court Way	0.6	1833.3
7/14/2023	2820 Star Ridge	0.6	219.2
7/13/2023	1228 Sherwood	1.2	172.1
8/1/2023	735 S. Park Ave.	1.2	272.4
7/13/2023	61081 Falcon Rd	0.2	15.9
7/13/2023	10762 6300 rd.	0.7	123.8
8/1/2023	1234 Kent	0.3	64.0
7/13/2023	1397 Birch	2.4	587.4
7/18/2023	1962 Columbine Ct.	1.0	102.7
7/18/2023	1405 Pioneer Rd	0.8	148.8
7/13/2023	16874 6300 Rd	0.8	260.6
7/14/2023	1553 Pennsylvania St	0.3	26.2
7/25/2023	3753 2175 Rd	BDL	6.6

Avg.	1.4	253.7
Max.	9.5	1833.3
90th Percentile	2.5	-

PROCESS CONTROL 2024 TOTALS

Raw Water	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVG
Raw Influent/mgd	4.758	4.825	4.988	7.809	10.4	13.317	14.094	12.214	10.757	7.949	4.987	4.948	8.421
Raw pH	8.2	8.2	8.07	8.1	8.0	8.0	8.0	8	8.0	8.1	8.0	8.1	8.1
Raw Turb	7.56	7.47	11.4	10.8	12	13	21.3	16.4	13	8.33	10.48	9.61	12
Raw Alk	77	78	79	76	75	68	67	67	70	71	83	91	75
Raw Hard	113	140	142	124	119	107	107	107	107	112	159	204	128
<b>Clarifier #2-Lg</b>													
Clar Turb				1.1	0.8	0.62	0.6	0.5	0.5	0.5			0.7
Floc-Speed "New"				3.4	2.86	3.5	4.76	4.4	3.9	3.72			3.79
Blow-Off				4	11	15	16	15	13	10			12
Slurry				31.1	29	31	35	39	38	37			34
<b>Clarifier #1-Sm</b>													
Clar Turb	0.9	0.76	0.73	0.7						0.47	0.72	0.97	0.8
Floc-Speed "New"	4.25	4.65	5.26	4.9						5.80	4.67	5.16	4.96
Blow-Off	7	11	11	11.2						5	9	6	9
Slurry	24	27	27	23						29.3	26	26	26
<b>Finished Water</b>													
Finish pH	7.5	7.4	7.2	7.2	7.2	7.1	7.2	7.2	7.2	7.3	7.3	7.3	7.3
Finish Turb	0.05	0.044	0.043	0.04	0.048	0.048	0.053	0.05	0.05	0.05	0.05	0.06	0.05
Finish Alk	64	66	66	64	64	57	56	56	58	60	71	79	63
Finish Hard	140	141	140	123	119	106	107	105	107		160	204	132
Cl2r	2.09	2.03	2.14	2.07	1.91	1.89	1.91	1.95	1.90	1.91	2.14	2.14	2.01
Temp	5	4	5.9	8.2	11	14	16	16	15	12	7.5	4	10
<b>Chemical Dosage</b>													
Alum Conc	33	32	32	30	28	28	28	28	28	28	29	30	30
Floc Aid 8170	0.023	0.024	0.024	0.039	0.055	0.070	0.072	0.062	0.055	0.041	0.026	0.028	0.043
<b>Chemical Usage</b>													
Ammonia Sulfate lbs/day	80	79	81	131	147	197	207	180	144	116	78	77	126
Ammonia Sulfate lbs/mo	2,485	2,290	2,516	3,916	4,566	5,904	6,418	5,586	4,320	3,605	2,343	2,371	3,860
Ammonia Sulfate lbs/yr													46,320
Cl2 lbs/day	164	157	162	248	315	412	442	401	346	258	167	160	269
Cl2 lbs/mo	5,070	4,540	5,035	7,440	9,780	12,350	13,690	12,440	10,390	7,990	5,007	4,960	8,224
Cl2 lbs/yr													98,692
Alum Gal/day	270	266	279	387	494	639	667	574	502	380	254	258	414
Alum Gal/mo	8,369	7,702	8,644	11,609	15,309	19,174	20,689	17,714	16,072	11,779	7,620	8,012	12,724
Alum Gal/yr													152,693
Back Wash	3,452	2,596	1,826	2,923	6,140	8,433	6,010	3,697	3,309	2,334	2,117	2,750	3,799
<b>Chemical Cost</b>													
Alum Day	\$ 413.05	\$ 406.35	\$ 426.60	\$ 592.06	\$ 755.57	\$ 977.87	\$ 1,021.00	\$ 874.27	\$ 768.67	\$ 581.35	\$ 374.09	\$ 395.43	\$ 632.19
Alum Month	\$ 12,805	\$ 11,784	\$ 13,225	\$ 17,762	\$ 23,423	\$ 29,336	\$ 31,654	\$ 27,102	\$ 23,060	\$ 18,022	\$ 11,223	\$ 12,258	\$ 19,305
Alum Year													231,654
Ammonia Sulfate Day	\$ 54.51	\$ 53.70	\$ 55.19	\$ 88.76	\$ 100.16	\$ 133.82	\$ 140.78	\$ 122.53	\$ 97.92	\$ 79.08	\$ 53.11	\$ 52.01	\$ 85.96
Ammonia Sulfate Month	\$ 1,690	\$ 1,557	\$ 1,711	\$ 2,663	\$ 3,105	\$ 4,015	\$ 4,364	\$ 3,798	\$ 2,938	\$ 2,451	\$ 1,593	\$ 1,612	\$ 2,625
Ammonia Sulfate Year													31,497
Floc Aid Day	\$ 6.72	\$ 7.00	\$ 7.51	\$ 19.38	\$ 35.07	\$ 57.34	\$ 61.03	\$ 46.93	\$ 36.06	\$ 20.94	\$ 7.91	\$ 8.28	\$ 26.18
Floc Aid Month	\$ 208	\$ 203	\$ 233	\$ 582	\$ 1,087	\$ 1,720	\$ 1,892	\$ 1,455	\$ 1,082	\$ 649	\$ 237	\$ 257	\$ 800
Floc Aid Year													9,605
Cl2 Day	\$ 242.05	\$ 231.70	\$ 240.38	\$ 367.04	\$ 466.92	\$ 609.27	\$ 653.59	\$ 593.91	\$ 512.57	\$ 381.46	\$ 246.67	\$ 236.80	\$ 398.53
Cl2 Month	\$ 7,504	\$ 6,719	\$ 7,452	\$ 11,011	\$ 14,474	\$ 18,278	\$ 20,261	\$ 18,411	\$ 15,377	\$ 11,825	\$ 7,400	\$ 7,341	\$ 12,171
Cl2 Year													146,053
Coag Cost/MG	\$ 88.28	\$ 85.90	\$ 86.96	\$ 78.69	\$ 75.84	\$ 77.63	\$ 76.79	\$ 75.24	\$ 74.91	\$ 75.94	\$ 76.70	\$ 81.75	\$ 79.55
Coag Cost/mo	\$ 13,013	\$ 11,987	\$ 13,458	\$ 18,344	\$ 24,510	\$ 31,056	\$ 33,546	\$ 28,557	\$ 24,142	\$ 18,671	\$ 11,460	\$ 12,515	\$ 20,105
Coag Cost/yr													241,259
Chem Cost per MGD	\$ 150.75	\$ 145.20	\$ 146.26	\$ 137.58	\$ 130.64	\$ 133.52	\$ 133.23	\$ 133.95	\$ 131.92	\$ 134.48	\$ 132.67	\$ 140.18	\$ 137.53
Cost per 1,000 Gal	\$ 0.151	\$ 0.145	\$ 0.146	\$ 0.138	\$ 0.130	\$ 0.134	\$ 0.133	\$ 0.134	\$ 0.131	\$ 0.134	\$ 0.133	\$ 0.140	\$ 0.137
<b>Total Chem Cost/Day</b>	\$ 716.33	\$ 698.74	\$ 729.70	\$1,067.00	\$1,358.00	\$ 1,778.00	\$ 1,877.00	\$1,638.00	\$1,415.23	\$1,063.00	\$ 681.77	\$ 692.52	\$ 1,142.94
<b>Total Chem Cost/Mo</b>	\$ 22,206	\$ 20,263	\$ 22,621	\$ 32,017	\$ 42,089	\$ 53,349	\$ 58,172	\$ 50,767	\$ 42,457	\$ 32,948	\$ 20,453	\$ 21,468	\$ 34,901
<b>Total Chem Cost/yr</b>													Total YTD \$ 418,810

**PROCESS CONTROL YEAR END AVERAGES AND TOTALS 2018-2024**

	2018	2019	2020	2021	2022	2023	2024	7 YEAR AVERAGE
<b>Raw Water</b>								
Raw Influent/mgd	8.804	7.815	9.211	8.709	8.572	8.586	8.420	8.588
Raw pH	8.1	8.1	8.1	8.1	8.2	8.2	8.7	8.2
Raw Turb	14	17	12	12	13	14	11.8	13
Raw Alk	77	83	81	92	90	82	75	83
Raw Hard	124	123	123	131	136	128	131	128
<b>Clarifier #2-Lg</b>								
Clar Turb	0.6	0.9	0.6	0.5	0.5	0.8	0.7	0.7
Floc-Speed New	3.38	3.79	3.59	4.06	4.40	3.82	3.79	3.83
Blow-Off Min/Day	14	14	13	12	11	16	12	13
Slurry	28	28	26	32	29	24	34	29
<b>Clarifier #1-Sm</b>								
Clar Turb	0.8	0.9	0.7	0.6	0.6	0.8	0.76	0.7
Floc-Speed	41	43	41					42
Floc-Speed New	5.27	5.45	5.31	5.08	4.97	5.31	4.96	5.19
Blow-Off Min/Day	9	9	8	6	8	10	9	8
Slurry	26	28	26	28	25	24	26	26
<b>Finished Water</b>								
Finish pH	7.3	6.5	7.1	7.3	7.3	7.4	7.3	7.2
Finish Turb	0.05	0.11	0.05	0.05	0.05	0.05	0.048	0.06
Finish Alk	67	69	69	79	78	71	63	71
Finish Hard	124	123	123	154	134	128	132	131
Cl2r	2.04	2.04	2.07	2.02	2.00	2.02	2.01	2.03
Temp	11	9	9	10	10	8	9.7	10
<b>Chemical Dosage</b>								
Alum Conc	31	34	31	30	30	31	30	31
Floc Aid	0.037	0.038	0.083	0.044	0.043	0.040	0.043	0.047
<b>Chemical Usage</b>								
Ammonia Sulfate lbs/day	160.0	137.0	156.0	153.0	138.0	131.0	126.0	143.0
Ammonia Sulfate lbs/mo	4,871	4,177	4,756	4,655	4,185	4,015	3,326	4,284
Ammonia Sulfate lbs/yr	58,450	50,128	57,070	55,860	50,216	48,174	39,908	51,401
Cl2 lbs/day	241	239	262	242	250	257	269	251
Cl2 lbs/mo	7,363	7,291	8,003	7,382	7,622	7,843	7,085	7,513
Cl2 lbs/yr	88,360	87,490	96,030	88,585	91,460	94,110	85,016	90,150
Alum Gal/day	438	434	450	416	420	443	414	431
Alum Gal/mo	13,347	13,219	13,752	12,700	12,748	13,497	12,641	13,129
Alum Gal/yr	160,162	158,632	165,027	152,399	152,971	161,969	151,693	157,550
Back Wash Mg/Month	6.209	5.39	7.354	5.455	5.44	4.667	3.799	5.473
<b>Chemical Cost</b>								
Alum Day	\$ 376.05	\$ 417.73	\$ 445.83	\$ 412.70	\$ 440.19	\$ 577.48	\$ 632.19	\$ 471.74
Alum Month	\$ 11,471	\$ 12,744	\$ 13,629	\$ 12,430	\$ 13,425	\$ 17,615	\$ 19,305	\$ 14,374
Alum Year	\$ 137,655	\$ 152,923	\$ 163,550	\$ 149,163	\$ 161,097	\$ 211,337	\$ 231,654	\$ 172,483
Ammonia Sulfate Day	\$ 45.03	\$ 41.05	\$ 46.69	\$ 40.57	\$ 54.20	\$ 69.10	\$ 89.44	\$ 55.15
Ammonia Sulfate Month	\$ 1,372	\$ 1,250	\$ 1,427	\$ 1,397	\$ 1,652	\$ 2,108	\$ 2,729	\$ 1,705
Ammonia Sulfate Year	\$ 16,469	\$ 15,000	\$ 17,121	\$ 16,758	\$ 19,823	\$ 25,291	\$ 32,750	\$ 20,459
Floc Aid Day	\$ 14.03	\$ 12.95	\$ 15.81	\$ 17.44	\$ 18.89	\$ 23.19	\$ 26.18	\$ 18.36
Floc Aid Month	\$ 428	\$ 370	\$ 485	\$ 533	\$ 577	\$ 710	\$ 800	\$ 558
Floc Aid Year	\$ 5,141	\$ 4,441	\$ 5,815	\$ 6,390	\$ 6,923	\$ 8,515	\$ 9,605	\$ 6,690
Cl2 Day	\$ 112.85	\$ 114.73	\$ 125.70	\$ 116.21	\$ 160.78	\$ 223.45	\$ 398.53	\$ 178.89
Cl2 Month	\$ 3,441	\$ 3,498	\$ 3,841	\$ 3,543	\$ 4,907	\$ 6,821	\$ 12,171	\$ 5,460
Cl2 Year	\$ 41,294	\$ 41,977	\$ 46,088	\$ 42,521	\$ 58,886	\$ 81,848	\$ 146,053	\$ 65,524
Coag Cost/MG	\$ 44.15	\$ 54.44	\$ 57.79	\$ 49.94	\$ 53.48	\$ 65.57	\$ 79.55	\$ 57.85
Coag Cost/Month	\$ 11,900	\$ 13,046	\$ 14,119	\$ 13,112	\$ 13,994	\$ 18,365	\$ 20,105	\$ 14,949
Coag Cost/Year	\$ 142,796	\$ 156,553	\$ 169,428	\$ 157,338	\$ 167,926	\$ 220,377	\$ 241,259	\$ 179,382
Chem Cost per MGD	\$ 62.42	\$ 74.90	\$ 79.99	\$ 68.84	\$ 78.47	\$ 97.53	\$ 137.53	\$ 85.67
Cost per 1,000 Gal	\$ 0.062	\$ 0.075	\$ 0.080	\$ 0.069	\$ 0.078	\$ 0.095	\$ 0.137	\$ 0.085
Total Chem Cost/Day	\$ 545.78	\$ 586.49	\$ 634.08	\$ 592.39	\$ 674.94	\$ 894.46	\$ 1,143.00	\$ 724.45
Total Chem Cost/Mo	\$ 16,647	\$ 17,887	\$ 19,373	\$ 18,052	\$ 20,590	\$ 27,292	\$ 34,901	\$ 22,106
Total Chem Cost/yr	\$ 199,765	\$ 214,644	\$ 232,472	\$ 216,618	\$ 247,074	\$ 327,506	\$ 418,810	\$ 265,270

PROJECT 7 WATER AUTHORITY  
ANNUAL REPORT 2024  
WATER ACCOUNTABILITY ANALYSIS

	RAW WATER MASTER Millions of Gallons	MONTROSE MASTER Millions of Gallons	PROJECT 7 MASTER Millions of Gallons	P-7 and MONTROSE MASTER Millions of Gallons	P-7 MAGS & MONT. MASTER (BILLED) Millions of Gallons	P-7 & MONTROSE MASTER By RAW MASTER	BILLED By RAW MASTER	BILLED by P-7 & MONT. MASTER
JAN	154.910	49.458	107.427	156.885	151.734	101.27%	97.95%	96.72%
FEB	147.960	45.486	95.599	141.085	138.394	95.35%	93.53%	98.09%
MAR	161.250	51.753	110.827	162.580	143.581	100.82%	89.04%	88.31%
APR	242.470	89.165	151.458	240.623	187.073	99.24%	77.15%	77.75%
MAY	332.070	134.259	189.196	323.455	314.413	97.41%	94.68%	97.20%
JUN	401.110	177.196	238.515	415.711	361.439	103.64%	90.11%	86.94%
JUL	436.710	193.771	253.721	447.492	492.783	102.47%	112.84%	110.12%
AUG	384.190	164.712	222.972	387.684	412.946	100.91%	107.48%	106.52%
SEP	323.830	142.918	187.859	330.777	359.266	102.15%	110.94%	108.61%
OCT	249.680	99.343	149.433	248.776	229.487	99.64%	91.91%	92.25%
NOV	157.980	44.990	118.853	163.843	146.927	103.71%	93.00%	89.68%
DEC	160.190	45.390	112.428	157.818	145.764	98.52%	90.99%	92.36%
TOTAL	3,152.350	1,238.441	1,938.288	3,176.729	3,083.807	100.77%	97.83%	95.38%

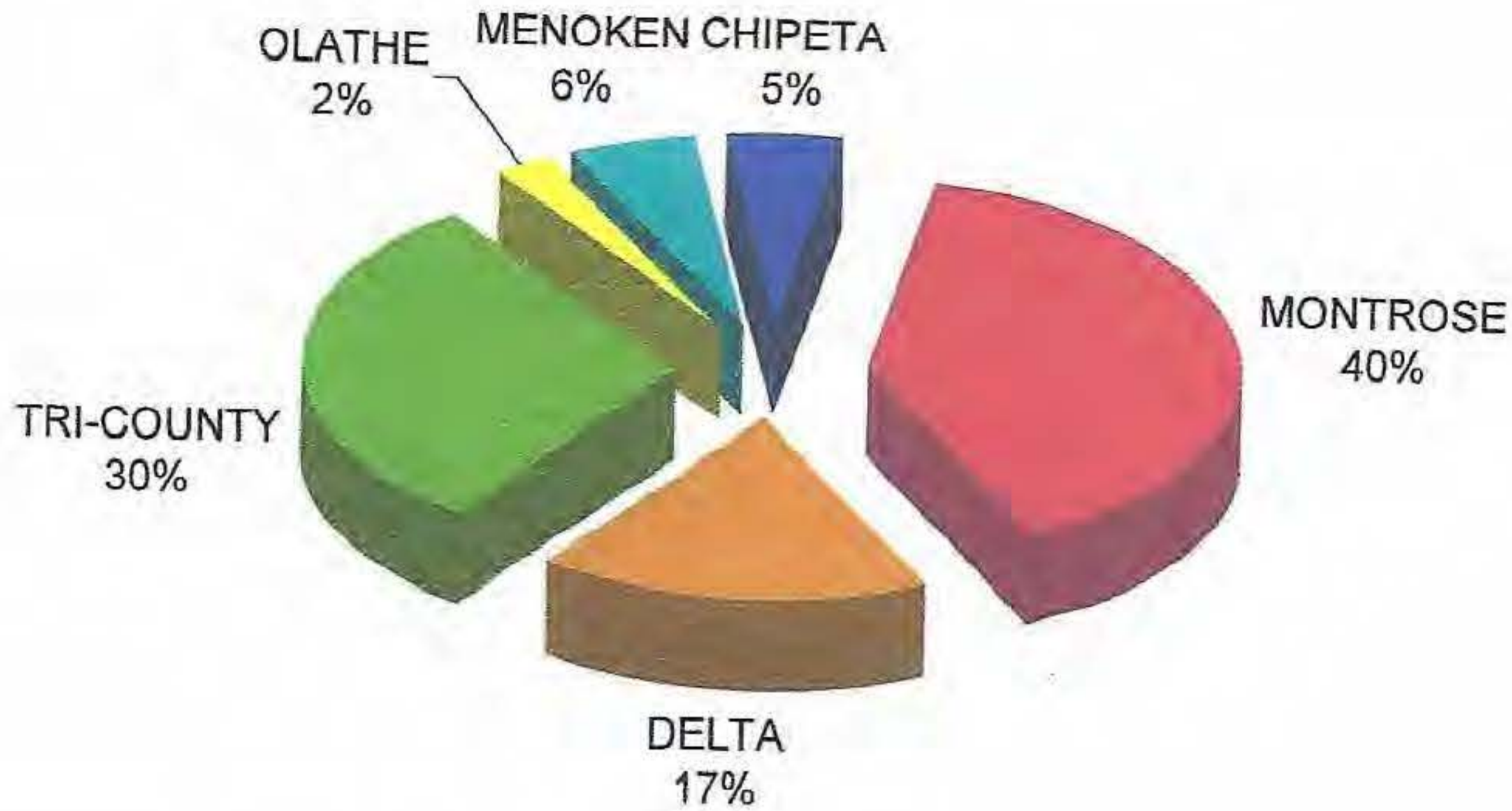
COMMENTS: Reminder - Montrose Master does not include N. 7th & Cascade as that is included in P-7 Total.

**PROJECT 7 WATER AUTHORITY  
WATER DELIVERED TO FAIRVIEW  
2023 & 2024**

<b>2023</b>	<b>ACRE FEET</b>	<b>EQUIVALENT GALLONS</b>	<b>RAW WATER METERED INTO PLANT</b>	<b>EQUIVALENT ACRE FEET</b>
JAN	458.38 =	149,364,885	150,911,000 =	463.13
FEB	370.78 =	120,819,685	136,706,000 =	419.54
MAR	524.01 =	170,748,205	145,399,000 =	446.21
APR	449.91 =	146,603,623	182,088,000 =	558.81
MAY	920.81 =	300,046,859	317,892,000 =	975.57
JUN	992.97 =	323,560,267	372,146,000 =	1142.07
JUL	1,348.60 =	439,442,659	503,667,000 =	1545.70
AUG	1,178.42 =	383,989,335	431,823,000 =	1325.22
SEP	879.31 =	286,524,043	346,241,000 =	1062.57
OCT	707.15 =	230,425,535	232,064,000 =	712.18
NOV	433.22 =	141,165,170	142,960,000 =	438.73
DEC	404.71 =	131,875,158	144,833,000 =	444.48
<b>TOTAL</b>	<b><u>8,668.27</u></b>	<b><u>2,824,565,425</u></b>	<b><u>3,106,730,000</u></b>	<b><u>9,534.20</u></b>

<b>2024</b>	<b>ACRE FEET</b>	<b>EQUIVALENT GALLONS</b>	<b>RAW WATER METERED INTO PLANT</b>	<b>EQUIVALENT ACRE FEET</b>
JAN	409.14 =	133,318,678	154,910,000 =	475.40
FEB	419.64 =	136,740,114	147,960,000 =	454.07
MAR	422.82 =	137,776,320	161,250,000 =	494.86
APR	618.17 =	201,431,313	242,470,000 =	744.11
MAY	855.31 =	278,703,619	332,070,000 =	1019.09
JUN	1,221.46 =	398,013,962	401,110,000 =	1230.96
JUL	1,123.28 =	366,021,911	436,710,000 =	1340.21
AUG	1,220.47 =	397,691,370	384,190,000 =	1179.04
SEP	977.10 =	318,389,012	323,830,000 =	993.80
OCT	830.84 =	270,730,045	249,680,000 =	766.24
NOV	417.94 =	136,186,167	157,980,000 =	484.82
DEC	410.40 =	133,729,250	160,190,000 =	491.61
<b>TOTAL</b>	<b><u>8,926.57</u></b>	<b><u>2,908,731,761</u></b>	<b><u>3,152,350,000</u></b>	<b><u>9,674.21</u></b>

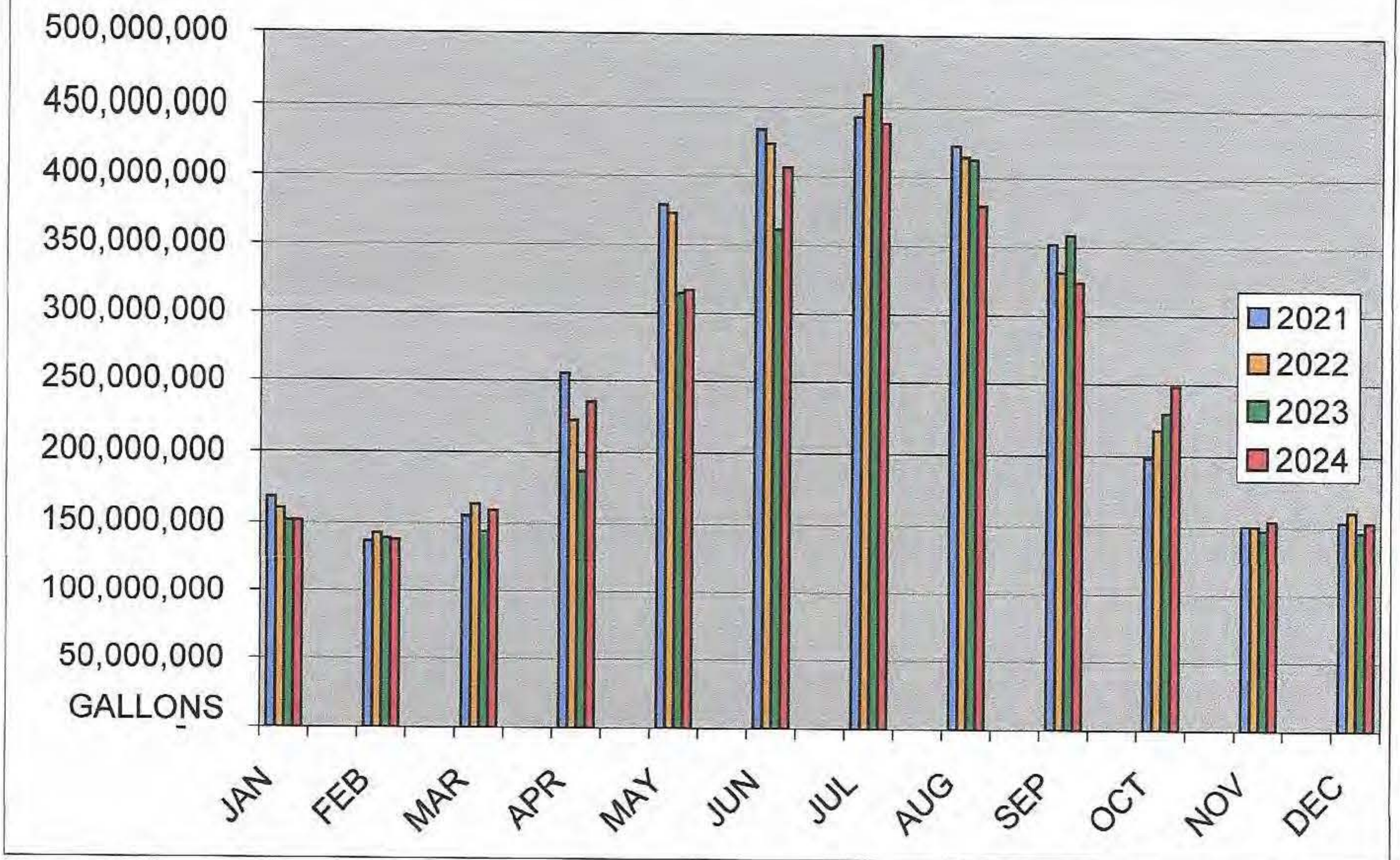
# PROJECT 7 WATER AUTHORITY WATER USE 2024



	CITY OF MONTROSE	CITY OF DELTA	TRI-COUNTY	TOWN OF OLATHE	MENOKEN	CHIPETA	TOTALS PROJECT 7
<b>2024</b>							
JAN	49,458,000	25,414,000	54,909,000	4,068,000	10,014,000	7,753,000	151,616,000
FEB	45,486,000	21,909,000	48,621,000	3,281,000	10,032,000	7,928,000	137,257,000
MAR	51,753,000	25,223,000	56,050,000	3,765,000	13,020,000	8,671,000	158,482,000
APR	89,165,000	44,245,000	69,378,000	5,656,000	13,848,000	13,197,000	235,489,000
MAY	136,192,000	56,494,000	85,771,000	7,031,000	15,481,000	15,851,000	316,820,000
JUN	178,319,000	66,036,000	115,517,000	8,300,000	19,289,000	19,097,000	406,558,000
JUL	195,999,000	69,312,000	121,637,000	10,068,000	21,234,000	20,639,000	438,889,000
AUG	166,125,000	61,506,000	108,051,000	8,549,000	18,306,000	17,413,000	379,950,000
SEP	143,015,000	53,726,000	87,932,000	7,825,000	16,152,000	15,318,000	323,968,000
OCT	99,552,000	44,452,000	72,573,000	6,182,000	12,177,000	13,394,000	248,330,000
NOV	45,111,000	27,257,000	56,897,000	4,052,000	11,979,000	8,949,000	154,245,000
DEC	45,493,000	26,231,000	57,079,000	3,748,000	10,779,000	9,946,000	153,276,000
<b>TOTAL</b>	<b>1,245,668,000</b>	<b>521,805,000</b>	<b>934,415,000</b>	<b>72,525,000</b>	<b>172,311,000</b>	<b>158,156,000</b>	<b>3,104,880,000</b>
<b>% Of Total</b>	<b>40.12%</b>	<b>16.81%</b>	<b>30.10%</b>	<b>2.34%</b>	<b>5.55%</b>	<b>5.09%</b>	<b>100%</b>



# PROJECT 7 WATER AUTHORITY PRODUCTION HISTORY



	2021	TOTAL	2022	TOTAL	2023	TOTAL	2024	TOTAL	%PYTD
JAN	167,936,500		159,745,000		151,734,000		151,616,000		99.9%
FEB	136,029,500	303,966,000	142,178,000	301,923,000	138,394,000	290,128,000	137,257,000	288,873,000	99.6%
MAR	155,004,500	458,970,500	163,156,000	465,079,000	143,581,000	433,709,000	158,482,000	447,355,000	103.1%
APR	255,669,000	714,639,500	222,218,000	687,297,000	187,073,000	620,782,000	235,489,000	682,844,000	110.0%
MAY	379,284,000	1,093,923,500	373,702,000	1,060,999,000	314,413,000	935,195,000	316,820,000	999,664,000	106.9%
JUN	433,501,000	1,527,424,500	423,487,000	1,484,486,000	361,439,000	1,296,634,000	406,558,000	1,406,222,000	108.5%
JUL	444,738,000	1,972,162,500	458,277,000	1,942,763,000	492,783,000	1,789,417,000	438,889,000	1,845,111,000	103.1%
AUG	422,773,000	2,394,935,500	414,857,000	2,357,620,000	412,946,000	2,202,363,000	379,950,000	2,225,061,000	101.0%
SEP	351,956,000	2,746,891,500	331,145,000	2,688,765,000	359,266,000	2,561,629,000	323,968,000	2,549,029,000	99.5%
OCT	198,317,000	2,945,208,500	217,832,000	2,906,597,000	229,487,000	2,791,116,000	248,330,000	2,797,359,000	100.2%
NOV	150,373,000	3,095,581,500	150,243,000	3,056,840,000	146,927,000	2,938,043,000	154,245,000	2,951,604,000	100.5%
DEC	153,478,000	3,249,059,500	160,406,000	3,217,246,000	145,764,000	3,083,807,000	153,276,000	3,104,880,000	100.7%
		3,249,059,500		3,217,246,000		3,083,807,000		3,104,880,000	100.7%