

Town of Ogden Water Feasibility Study

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Senior Project Engineer

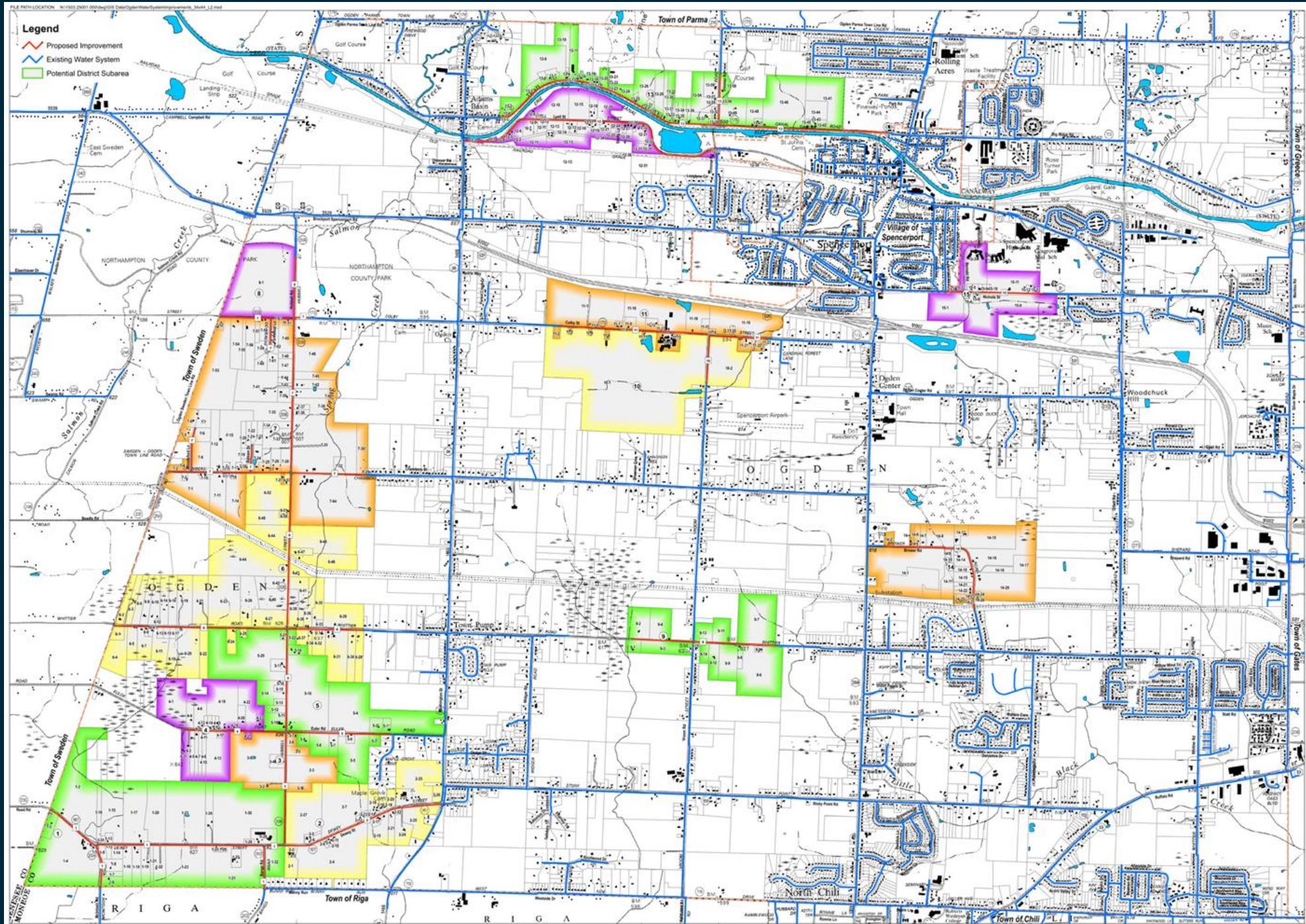


Scope of this Meeting

- **Introduction**
- **Outline Areas Studied**
- **Review Cost Estimates**
- **Discuss Combinations of Areas and Feasibility**
- **Outline Survey Results**
- **Determine Level of Public Interest**
- **Discuss Potential Next Steps**



MRB
Group



Seg ID	Street	Section	Linear Feet	Parcels	EDU's
1a	Dewey St	Hubbell Rd to Ogden TL	8,015	27	20.75
1b	McIntosh Rd	Dewey St to Ogden TL	1,453	5	3
1c	Bangs Rd	Dewey St to Ogden TL	1,440	0	0
2	Dewey St	Hubbell Rd to Washinton Street	5,390	27	18.75
3	Hubbell Rd	Dewey St to Euler Rd	3,670	8	5
4	Euler Rd	West of Hubbell Rd	3,341	23	18
5a	Euler Rd	Maplegrove Dr to Hubbell Rd	3,445	10	7.25
5b	Hubbell Rd	Euler Rd to Whittier Rd	3,351	12	8.25
6a	Whittier Rd	Hubbell Rd to Ogden TL	5,610	28	19.5
6b	Hubbell Rd	Whittier Rd to Chambers St	5,072	13	9.25
6c	Whittier Rd	East of Hubbell Rd	2,490	12	10
7a	Chambers St	Hubbell Rd to Ogden TL	3,992	18	14
7b	Hubbell Rd	Chambers St to Colby St	4,977	16	10.25
7c	Woodsford Ln	Woodsford Ln (Private)	1,445	4	4
7d	Colby St	Hubbell Rd to Ogden TL	2,993	10	5.25
7e	Balsam Dr	Balsam Dr (Private)	918	6	5.25
7f	Parkwood Ln	Parkwood Ln (Private)	1,085	4	4
7g	Chambers St	Chambers St east of Hubbell Rd	2,485	4	2
8	Hubbell Rd	North of Colby St	2,059	1	0
9	Whittier Rd	East and West of Vroom Rd	4,725	14	6.5
10	Vroom Rd	South of Colby St	1,561	2	0
11	Colby St	East and West of Vroom Rd	6,797	22	17.75
12	Lyell St	Washington St to Trimmer Road	9,215	35	29.75
13a	Trimmer Rd	North of Canal Rd	1,694	10	8
13b	Canal Rd	E of N Union St and W of Wash. St	13,349	48	33.5
14	Brower Rd	King Fisher Dr to S Union St	4,716	26	16.5
15	Nichols St	Sheldon Ter and Coleman Ave	3,236	14	9.5
Totals			108,526	399	286

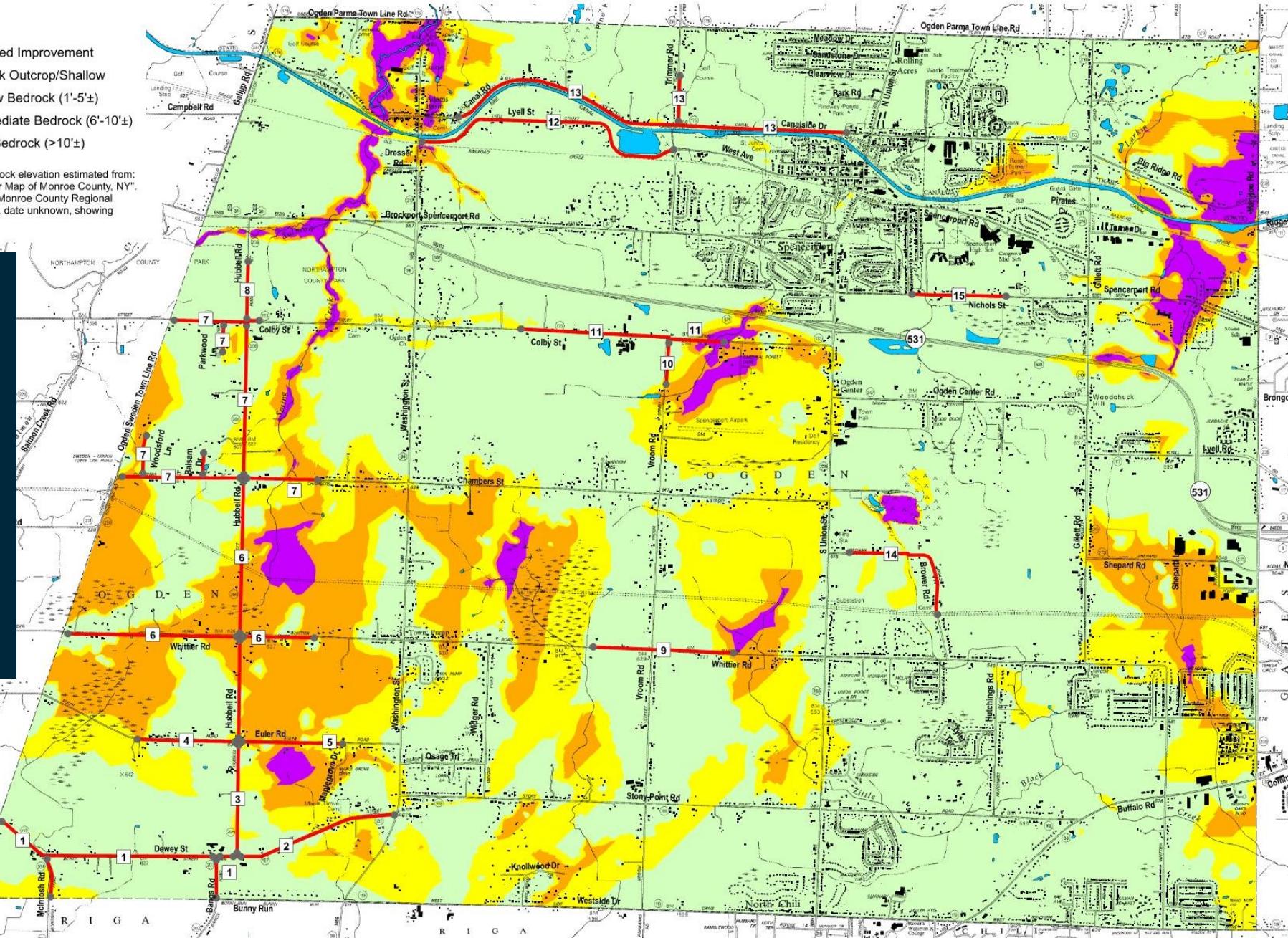
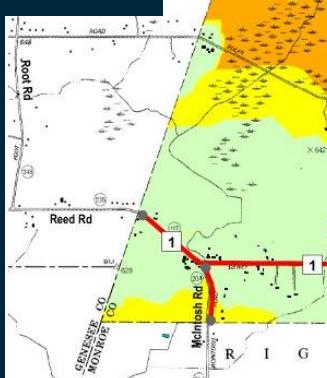
Legend

- Proposed Improvement
- Bedrock Outcrop/Shallow
- Shallow Bedrock (1'-5'±)
- Intermediate Bedrock (6'-10'±)
- Deep Bedrock (>10'±)

Disclaimer: Bedrock elevation estimated from: "Bedrock Contour Map of Monroe County, NY". Prepared by the Monroe County Regional Planning Council, date unknown, showing 25-feet contours.

Construction Challenges

- Bedrock
- Streams and Tributaries
- Wetlands
- NiMo Transmission
- Railroad ROW
- Canal ROW



Seg ID	Street	Section	LF	Parcels	EDU's	Construction Costs						Contingency	Legal/Admin	Engineering	Total Project	EDU/YR
						Mains		Services		*CC	CC %	CC Cost				
7e	Balsam Dr	Balsam Dr (Private)	918	6	5.25	\$ 64,229	\$ 13,125	W	2%	\$ 1,285	\$ 12,846	\$ 4,496	\$ 12,846	\$ 108,826	\$ 1,229	
4	Euler Rd	West of Hubbell Rd	3,341	23	18	\$ 233,890	\$ 45,000	W B	9%	\$ 21,050	\$ 46,778	\$ 16,372	\$ 46,778	\$ 409,869	\$ 1,350	
13a	Trimmer Rd	North of Canal Rd	1,694	10	8	\$ 118,612	\$ 20,000	T	2%	\$ 2,372	\$ 23,722	\$ 8,303	\$ 23,722	\$ 196,732	\$ 1,458	
6c	Whittier Rd	East of Hubbell Rd	2,490	12	10	\$ 174,301	\$ 25,000	B B	14%	\$ 24,402	\$ 34,860	\$ 12,201	\$ 34,860	\$ 305,624	\$ 1,812	
7f	Parkwood Ln	Parkwood Ln (Private)	1,085	4	4	\$ 75,976	\$ 10,000	B	7%	\$ 5,318	\$ 15,195	\$ 5,318	\$ 15,195	\$ 127,004	\$ 1,882	
7a	Chambers St	Hubbell Rd to Ogden TL	3,992	18	14	\$ 279,420	\$ 35,000	T B	9%	\$ 25,148	\$ 55,884	\$ 19,559	\$ 55,884	\$ 470,895	\$ 1,994	
2	Dewey St	Hubbell Rd to Washinton Street	5,390	27	18.75	\$ 377,331	\$ 46,875	T B	9%	\$ 33,960	\$ 75,466	\$ 26,413	\$ 75,466	\$ 635,512	\$ 2,009	
12	Lyell St	Washington St to Trimmer Road	9,215	35	29.75	\$ 645,084	\$ 74,375	W R	4%	\$ 25,803	\$ 129,017	\$ 45,156	\$ 129,017	\$ 1,048,452	\$ 2,089	
6a	Whittier Rd	Hubbell Rd to Ogden TL	5,610	28	19.5	\$ 392,667	\$ 48,750	T W B B	18%	\$ 70,680	\$ 78,533	\$ 27,487	\$ 78,533	\$ 696,650	\$ 2,118	
14	Brower Rd	King Fisher Dr to S Union St	4,716	26	16.5	\$ 330,152	\$ 41,250	T B B E	20%	\$ 66,030	\$ 66,030	\$ 23,111	\$ 66,030	\$ 592,604	\$ 2,129	
15	Nichols St	Sheldon Ter and Coleman Ave	3,236	14	9.5	\$ 226,548	\$ 23,750	B	7%	\$ 15,858	\$ 45,310	\$ 15,858	\$ 45,310	\$ 372,634	\$ 2,325	
7c	Woodsford Ln	Woodsford Ln (Private)	1,445	4	4	\$ 101,181	\$ 10,000	B B	14%	\$ 14,165	\$ 20,236	\$ 7,083	\$ 20,236	\$ 172,902	\$ 2,563	
1a	Dewey St	Hubbell Rd to Ogden TL	8,015	27	20.75	\$ 561,043	\$ 51,875	S T	5%	\$ 28,052	\$ 112,209	\$ 39,273	\$ 112,209	\$ 904,660	\$ 2,585	
11	Colby St	East and West of Vroom Rd	6,797	22	17.75	\$ 475,759	\$ 44,375	W B B	16%	\$ 76,121	\$ 95,152	\$ 33,303	\$ 95,152	\$ 819,863	\$ 2,738	
5b	Hubbell Rd	Euler Rd to Whittier Rd	3,351	12	8.25	\$ 234,597	\$ 20,625	B	7%	\$ 16,422	\$ 46,919	\$ 16,422	\$ 46,919	\$ 381,904	\$ 2,744	
13b	Canal Rd	E of N Union St and W of Wash. St	13,349	48	33.5	\$ 934,444	\$ 83,750	T B C	12%	\$ 112,133	\$ 186,889	\$ 65,411	\$ 186,889	\$ 1,569,515	\$ 2,778	
1b	McIntosh Rd	Dewey St to Ogden TL	1,453	5	3	\$ 101,705	\$ 7,500	B	7%	\$ 7,119	\$ 20,341	\$ 7,119	\$ 20,341	\$ 164,126	\$ 3,243	
7b	Hubbell Rd	Chambers St to Colby St	4,977	16	10.25	\$ 348,364	\$ 25,625	T B	9%	\$ 31,353	\$ 69,673	\$ 24,385	\$ 69,673	\$ 569,073	\$ 3,291	
5a	Euler Rd	Maplegrove Dr to Hubbell Rd	3,445	10	7.25	\$ 241,169	\$ 18,125	B B	14%	\$ 33,764	\$ 48,234	\$ 16,882	\$ 48,234	\$ 406,408	\$ 3,323	
7d	Colby St	Hubbell Rd to Ogden TL	2,993	10	5.25	\$ 209,491	\$ 13,125	-		\$ -	\$ 41,898	\$ 14,664	\$ 41,898	\$ 321,076	\$ 3,626	
6b	Hubbell Rd	Whittier Rd to Chambers St	5,072	13	9.25	\$ 355,043	\$ 23,125	W B B E	20%	\$ 71,009	\$ 71,009	\$ 24,853	\$ 71,009	\$ 616,046	\$ 3,948	
3	Hubbell Rd	Dewey St to Euler Rd	3,670	8	5	\$ 256,912	\$ 12,500	B	7%	\$ 17,984	\$ 51,382	\$ 17,984	\$ 51,382	\$ 408,145	\$ 4,839	
9	Whittier Rd	East and West of Vroom Rd	4,725	14	6.5	\$ 330,750	\$ 16,250	W B	9%	\$ 29,767	\$ 66,150	\$ 23,152	\$ 66,150	\$ 532,220	\$ 4,854	
7g	Chambers St	Chambers St east of Hubbell Rd	2,485	4	2	\$ 173,940	\$ 5,000	T B B	16%	\$ 27,830	\$ 34,788	\$ 12,176	\$ 34,788	\$ 288,523	\$ 8,552	
1c	Bangs Rd	Dewey St to Ogden TL	1,440	0	0	\$ 100,813	\$ -	-		\$ -	\$ 20,163	\$ 7,057	\$ 20,163	\$ 148,195	#DIV/0!	
8	Hubbell Rd	North of Colby St	2,059	1	0	\$ 144,142	\$ -	-		\$ -	\$ 28,828	\$ 10,090	\$ 28,828	\$ 211,889	#DIV/0!	
10	Vroom Rd	South of Colby St	1,561	2	0	\$ 109,248	\$ -	B	7%	\$ 7,647	\$ 21,850	\$ 7,647	\$ 21,850	\$ 168,242	#DIV/0!	
Totals				108,526	399	286	\$ 7,596,812	\$ 715,000			\$ 765,275	\$ 1,519,362	\$ 531,777	\$ 1,519,362	\$ 12,647,591	\$ 2,622

Funding Options

- Open Market Municipal Bond
- USDA – Rural Development Loan and Grants
- Drinking Water State Revolving Fund (DWSRF) Loan
- Water Infrastructure Improvement Act (WIIA) Grant

Open Market Municipal Bond

- Term 20-years (for water projects)
- Interest Rate presently about 5.25% (varies quarterly)

Advantages

- Shorter Term Period
- No strings attached - BABA, MWBE Requirements
- No income thresholds

Disadvantages

- Shorter Term = Higher debt service
- No subsidies

USDA – Rural Development

- **Term 38-years (for water projects)**
- **Interest – based on Median Household Income (MHI)**
- **Present Market Rate is 5.25%**

Advantages

- Longer 38-year Loan Term
- Reduced Interest Rates and Grants available if eligible

Disadvantages

- Stringent Environmental Reporting
- Build American, Buy American, MWBE Requirements
- Long Term oversight during term of loan

USDA – Rural Development

- Ogden MHI - \$80,202

USDA Water & WW Loan and Grant Funding			
MHI Threshold	Loan	Max % of Grant	% of MHI Annual Debt
Under \$58,620	Poverty with Health & Sanitary	75%	1/2 to 1%
Under \$58,620	Intermediate Rate without Health & Sanitary	45%	1/2 to 1%
\$58,620 to \$73,275	Intermediate Rate	45%	1%
Over \$73,275	Market Rate	0%	N/A

DWSRF

- **Term 30-years (for water projects)**
- **Market Interest Rate presently 5.25%**
- **Hardship Rate available for MHI < \$54,789**

Advantages

- **Reduced Interest Rates if eligible**

Disadvantages

- **30-year Term**
- **Build American, Buy American, MWBE Requirements**

WIIA Grant

- **Lesser of \$5M or 70% of eligible Project Costs**
 - Note grant terms change annually
 - 2024 was lesser of \$5M or 60%

Advantages

- Not MHI based

Disadvantages

- Very Competitive
- Currently favoring projects addressing emerging contaminants
- Build American, Buy American, MWBE Requirements

Evaluation Process

- Cost Effective (highest density, lowest construction)
- Viability
 - Ex. Balsam Drive is most cost effective area, but need to extend from Chambers St. or Hubbell St. to serve it.
- Completion of loops/multiple feeds (improves hydraulic conditions, water quality and maintenance).
- Avoid extending dead-ends (improves hydraulics and water quality)
- MCWA and Monroe County DOH
- Competitive Grant Strategy
- Generated Scenarios



Service Area Alternatives - Scenario 1 (All Areas)

Seg ID	Street	Include Yes = 1	Total Project Cost	EDU's	Annual Cost Per EDU
1a	Dewey St	1	\$ 904,660	20.75	\$ 2,585
1b	McIntosh Rd	1	\$ 164,126	3	\$ 3,243
1c	Bangs Rd	1	\$ 148,195	0	#DIV/0!
2	Dewey St	1	\$ 635,512	18.75	\$ 2,009
3	Hubbell Rd	1	\$ 408,145	5	\$ 4,839
4	Euler Rd	1	\$ 409,869	18	\$ 1,350
5a	Euler Rd	1	\$ 406,408	7.25	\$ 3,323
5b	Hubbell Rd	1	\$ 381,904	8.25	\$ 2,744
6a	Whittier Rd	1	\$ 696,650	19.5	\$ 2,118
6b	Hubbell Rd	1	\$ 616,046	9.25	\$ 3,948
6c	Whittier Rd	1	\$ 305,624	10	\$ 1,812
7a	Chambers St	1	\$ 470,895	14	\$ 1,994
7b	Hubbell Rd	1	\$ 569,073	10.25	\$ 3,291
7c	Woodsford Ln	1	\$ 172,902	4	\$ 2,563
7d	Colby St	1	\$ 321,076	5.25	\$ 3,626
7e	Balsam Dr	1	\$ 108,826	5.25	\$ 1,229
7f	Parkwood Ln	1	\$ 127,004	4	\$ 1,882
7g	Chambers St	1	\$ 288,523	2	\$ 8,552
8	Hubbell Rd	1	\$ 211,889	0	#DIV/0!
9	Whittier Rd	1	\$ 532,220	6.5	\$ 4,854
10	Vroom Rd	1	\$ 168,242	0	#DIV/0!
11	Colby St	1	\$ 819,863	17.75	\$ 2,738
12	Lyell St	1	\$ 1,048,452	29.75	\$ 2,089
13a	Trimmer Rd	1	\$ 196,732	8	\$ 1,458
13b	Canal Rd	1	\$ 1,569,515	33.5	\$ 2,778
14	Brower Rd	1	\$ 592,604	16.5	\$ 2,129
15	Nichols St	1	\$ 372,634	9.5	\$ 2,325
Totals			\$ 12,647,591	286	

Funding Option 2: WIIA Grant and EFC DWSRF Loan

Total Project Cost = \$ 12,647,591

Less WIIA Grant = \$ 5,000,000 (60% of Project Costs up to \$5M)

Total Amount Financed = \$ 7,647,591

Annual P & I Payment (5.0% for 30 Years) = \$ 497,487 (Market Rate is currently 4.25%)

EDU's in Proposed District = 286.00

Estimated Debt Service Cost = \$ 1,739

Estimated Cost of Water = \$ 355.40

Estimated Cost/Year/Residence = \$ 2,094.86 Comptrollers Threshold \$1,101 (2025)



Service Area Alternatives - Scenario 2 (Area 7)

Seg ID	Street	Include Yes = 1	Total Project Cost	EDU's	Annual Cost Per EDU
1a	Dewey St		\$ -	0	\$ -
1b	McIntosh Rd		\$ -	0	\$ -
1c	Bangs Rd		\$ -	0	#DIV/0!
2	Dewey St		\$ -	0	\$ -
3	Hubbell Rd		\$ -	0	\$ -
4	Euler Rd		\$ -	0	\$ -
5a	Euler Rd		\$ -	0	\$ -
5b	Hubbell Rd		\$ -	0	\$ -
6a	Whittier Rd		\$ -	0	\$ -
6b	Hubbell Rd		\$ -	0	\$ -
6c	Whittier Rd		\$ -	0	\$ -
7a	Chambers St	1	\$ 470,895	14	\$ 1,994
7b	Hubbell Rd	1	\$ 569,073	10.25	\$ 3,291
7c	Woodsford Ln	1	\$ 172,902	4	\$ 2,563
7d	Colby St	1	\$ 321,076	5.25	\$ 3,626
7e	Balsam Dr	1	\$ 108,826	5.25	\$ 1,229
7f	Parkwood Ln	1	\$ 127,004	4	\$ 1,882
7g	Chambers St	1	\$ 288,523	2	\$ 8,552
8	Hubbell Rd		\$ -	0	#DIV/0!
9	Whittier Rd		\$ -	0	\$ -
10	Vroom Rd		\$ -	0	#DIV/0!
11	Colby St		\$ -	0	\$ -
12	Lyell St		\$ -	0	\$ -
13a	Trimmer Rd		\$ -	0	\$ -
13b	Canal Rd		\$ -	0	\$ -
14	Brower Rd		\$ -	0	\$ -
15	Nichols St		\$ -	0	\$ -
Totals			\$ 2,058,299	44.75	

Funding Option 2: WIIA Grant and EFC DWSRF Loan

Total Project Cost = \$ 2,058,299

Less WIIA Grant = \$ 1,234,980 (60% of Project Costs up to \$5M)

Total Amount Financed = \$ 823,320

Annual P & I Payment (5.0% for 30 Years) = \$ 53,558 (Market Rate is currently 4.25%)

EDU's in Proposed District = 44.75

Estimated Debt Service Cost = \$ 1,197

Estimated Cost of Water = \$ 355.40

Estimated Cost/Year/Residence = \$ 1,552.23 Comptrollers Threshold \$1,101 (2025)



Service Area Alternatives - Scenario 3 (Area 7 and 13)

Seg ID	Street	Include Yes = 1	Total Project Cost	EDU's	Annual Cost Per EDU
1a	Dewey St		\$ -	0	\$ -
1b	McIntosh Rd		\$ -	0	\$ -
1c	Bangs Rd		\$ -	0	#DIV/0!
2	Dewey St		\$ -	0	\$ -
3	Hubbell Rd		\$ -	0	\$ -
4	Euler Rd		\$ -	0	\$ -
5a	Euler Rd		\$ -	0	\$ -
5b	Hubbell Rd		\$ -	0	\$ -
6a	Whittier Rd		\$ -	0	\$ -
6b	Hubbell Rd		\$ -	0	\$ -
6c	Whittier Rd		\$ -	0	\$ -
7a	Chambers St	1	\$ 470,895	14	\$ 1,994
7b	Hubbell Rd	1	\$ 569,073	10.25	\$ 3,291
7c	Woodsford Ln	1	\$ 172,902	4	\$ 2,563
7d	Colby St	1	\$ 321,076	5.25	\$ 3,626
7e	Balsam Dr	1	\$ 108,826	5.25	\$ 1,229
7f	Parkwood Ln	1	\$ 127,004	4	\$ 1,882
7g	Chambers St	1	\$ 288,523	2	\$ 8,552
8	Hubbell Rd		\$ -	0	#DIV/0!
9	Whittier Rd		\$ -	0	\$ -
10	Vroom Rd		\$ -	0	#DIV/0!
11	Colby St		\$ -	0	\$ -
12	Lyell St		\$ -	0	\$ -
13a	Trimmer Rd	1	\$ 196,732	8	\$ 1,458
13b	Canal Rd	1	\$ 1,569,515	33.5	\$ 2,778
14	Brower Rd		\$ -	0	\$ -
15	Nichols St		\$ -	0	\$ -
Totals			\$ 3,824,546	86.25	

Funding Option 2: WIIA Grant and EFC DWSRF Loan

Total Project Cost = \$ 3,824,546

Less WIIA Grant = \$ 2,294,728 (60% of Project Costs up to \$5M)

Total Amount Financed = \$ 1,529,819

Annual P & I Payment (5.0% for 30 Years) = \$ 99,517 (Market Rate is currently 4.25%)

EDU's in Proposed District = 86.25

Estimated Debt Service Cost = \$ 1,154

Estimated Cost of Water = \$ 355.40

Estimated Cost/Year/Residence = \$ 1,509.22 Comptrollers Threshold \$1,101 (2025)



Service Area Alternatives - Scenario 4 (Area 7, 13 & 14)

Seg ID	Street	Include Yes = 1	Total Project Cost	EDU's	Annual Cost Per EDU
1a	Dewey St		\$ -	0	\$ -
1b	McIntosh Rd		\$ -	0	\$ -
1c	Bangs Rd		\$ -	0	#DIV/0!
2	Dewey St		\$ -	0	\$ -
3	Hubbell Rd		\$ -	0	\$ -
4	Euler Rd		\$ -	0	\$ -
5a	Euler Rd		\$ -	0	\$ -
5b	Hubbell Rd		\$ -	0	\$ -
6a	Whittier Rd		\$ -	0	\$ -
6b	Hubbell Rd		\$ -	0	\$ -
6c	Whittier Rd		\$ -	0	\$ -
7a	Chambers St	1	\$ 470,895	14	\$ 1,994
7b	Hubbell Rd	1	\$ 569,073	10.25	\$ 3,291
7c	Woodsford Ln	1	\$ 172,902	4	\$ 2,563
7d	Colby St	1	\$ 321,076	5.25	\$ 3,626
7e	Balsam Dr	1	\$ 108,826	5.25	\$ 1,229
7f	Parkwood Ln	1	\$ 127,004	4	\$ 1,882
7g	Chambers St	1	\$ 288,523	2	\$ 8,552
8	Hubbell Rd		\$ -	0	#DIV/0!
9	Whittier Rd		\$ -	0	\$ -
10	Vroom Rd		\$ -	0	#DIV/0!
11	Colby St		\$ -	0	\$ -
12	Lyell St		\$ -	0	\$ -
13a	Trimmer Rd	1	\$ 196,732	8	\$ 1,458
13b	Canal Rd	1	\$ 1,569,515	33.5	\$ 2,778
14	Brower Rd	1	\$ 592,604	16.5	\$ 2,129
15	Nichols St		\$ -	0	\$ -
Totals			\$ 4,417,151	102.75	

Funding Option 2: WIIA Grant and EFC DWSRF Loan

Total Project Cost = \$ 4,417,151

Less WIIA Grant = \$ 2,650,290 (60% of Project Costs up to \$5M)

Total Amount Financed = \$ 1,766,860

Annual P & I Payment (5.0% for 30 Years) = \$ 114,937 (Market Rate is currently 4.25%)

EDU's in Proposed District =

102.75

Estimated Debt Service Cost = \$ 1,119

Estimated Cost of Water = \$ 355.40

Estimated Cost/Year/Residence = \$ 1,474.01 Comptrollers Threshold \$1,101 (2025)



Service Area Alternatives - Scenario 5 (Area 1a, 1b, 2, 7,11,12, 13, 14 & 15)

Seg ID	Street	Include Yes = 1	Total Project Cost	EDU's	Annual Cost Per EDU
1a	Dewey St	1	\$ 904,660	20.75	\$ 2,585
1b	McIntosh Rd	1	\$ 164,126	3	\$ 3,243
1c	Bangs Rd		\$ -	0	#DIV/0!
2	Dewey St	2	\$ 1,271,024	37.5	\$ 4,019
3	Hubbell Rd		\$ -	0	\$ -
4	Euler Rd		\$ -	0	\$ -
5a	Euler Rd		\$ -	0	\$ -
5b	Hubbell Rd		\$ -	0	\$ -
6a	Whittier Rd		\$ -	0	\$ -
6b	Hubbell Rd		\$ -	0	\$ -
6c	Whittier Rd		\$ -	0	\$ -
7a	Chambers St	1	\$ 470,895	14	\$ 1,994
7b	Hubbell Rd	1	\$ 569,073	10.25	\$ 3,291
7c	Woodsford Ln	1	\$ 172,902	4	\$ 2,563
7d	Colby St	1	\$ 321,076	5.25	\$ 3,626
7e	Balsam Dr	1	\$ 108,826	5.25	\$ 1,229
7f	Parkwood Ln	1	\$ 127,004	4	\$ 1,882
7g	Chambers St	1	\$ 288,523	2	\$ 8,552
8	Hubbell Rd		\$ -	0	#DIV/0!
9	Whittier Rd		\$ -	0	\$ -
10	Vroom Rd		\$ -	0	#DIV/0!
11	Colby St	1	\$ 819,863	17.75	\$ 2,738
12	Lyell St	1	\$ 1,048,452	29.75	\$ 2,089
13a	Trimmer Rd	1	\$ 196,732	8	\$ 1,458
13b	Canal Rd	1	\$ 1,569,515	33.5	\$ 2,778
14	Brower Rd	1	\$ 592,604	16.5	\$ 2,129
15	Nichols St	1	\$ 372,634	9.5	\$ 2,325
Totals			\$ 8,997,910	221	

Funding Option 2: WIIA Grant and EFC DWSRF Loan

Total Project Cost =	\$ 8,997,910
Less WIIA Grant =	\$ 5,000,000 (60% of Project Costs up to \$5M)
Total Amount Financed =	\$ 3,997,910
Annual P & I Payment (5.0% for 30 Years) =	\$ 260,070 (Market Rate is currently 4.25%)
EDU's in Proposed District =	221.00
Estimated Debt Service Cost =	\$ 1,177
Estimated Cost of Water =	\$ 355.40
Estimated Cost/Year/Residence =	\$ 1,532.19 Comptrollers Threshold \$1,101 (2025)

Service Area Alternatives - Scenario 6 (Area 1a, 1b, 2, 4, 5, 7, 13 & 14)

Seg ID	Street	Include Yes = 1	Total Project Cost	EDU's	Annual Cost Per EDU
1a	Dewey St	1	\$ 904,660	20.75	\$ 2,585
1b	McIntosh Rd	1	\$ 164,126	3	\$ 3,243
1c	Bangs Rd		\$ -	0	#DIV/0!
2	Dewey St	1	\$ 635,512	18.75	\$ 2,009
3	Hubbell Rd		\$ -	0	\$ -
4	Euler Rd	1	\$ 409,869	18	\$ 1,350
5a	Euler Rd	1	\$ 406,408	7.25	\$ 3,323
5b	Hubbell Rd	1	\$ 381,904	8.25	\$ 2,744
6a	Whittier Rd		\$ -	0	\$ -
6b	Hubbell Rd		\$ -	0	\$ -
6c	Whittier Rd		\$ -	0	\$ -
7a	Chambers St	1	\$ 470,895	14	\$ 1,994
7b	Hubbell Rd	1	\$ 569,073	10.25	\$ 3,291
7c	Woodsford Ln	1	\$ 172,902	4	\$ 2,563
7d	Colby St	1	\$ 321,076	5.25	\$ 3,626
7e	Balsam Dr	1	\$ 108,826	5.25	\$ 1,229
7f	Parkwood Ln	1	\$ 127,004	4	\$ 1,882
7g	Chambers St	1	\$ 288,523	2	\$ 8,552
8	Hubbell Rd		\$ -	0	#DIV/0!
9	Whittier Rd		\$ -	0	\$ -
10	Vroom Rd		\$ -	0	#DIV/0!
11	Colby St	1	\$ 819,863	17.75	\$ 2,738
12	Lyell St		\$ -	0	\$ -
13a	Trimmer Rd	1	\$ 196,732	8	\$ 1,458
13b	Canal Rd	1	\$ 1,569,515	33.5	\$ 2,778
14	Brower Rd	1	\$ 592,604	16.5	\$ 2,129
15	Nichols St		\$ -	0	\$ -
Totals			\$ 8,139,493	196.5	

Funding Option 2: WIIA Grant and EFC DWSRF Loan

Total Project Cost = \$ 8,139,493

Less WIIA Grant = \$ 4,883,696 (60% of Project Costs up to \$5M)

Total Amount Financed = \$ 3,255,797

Annual P & I Payment (5.0% for 30 Years) = \$ 211,794 (Market Rate is currently 4.25%)

EDU's in Proposed District = 196.50

Estimated Debt Service Cost = \$ 1,078

Estimated Cost of Water = \$ 355.40

Estimated Cost/Year/Residence = \$ 1,433.23 Comptrollers Threshold \$1,101 (2025)



Service Area Alternatives - Scenario 7 (Area 1a, 1b, 2, 4, 5, 6 7, 13 & 14)

Seg ID	Street	Include Yes = 1	Total Project Cost	EDU's	Annual Cost Per EDU
1a	Dewey St	1	\$ 904,660	20.75	\$ 2,585
1b	McIntosh Rd	1	\$ 164,126	3	\$ 3,243
1c	Bangs Rd		\$ -	0	#DIV/0!
2	Dewey St	1	\$ 635,512	18.75	\$ 2,009
3	Hubbell Rd		\$ -	0	\$ -
4	Euler Rd	1	\$ 409,869	18	\$ 1,350
5a	Euler Rd	1	\$ 406,408	7.25	\$ 3,323
5b	Hubbell Rd	1	\$ 381,904	8.25	\$ 2,744
6a	Whittier Rd	1	\$ 696,650	19.5	\$ 2,118
6b	Hubbell Rd	1	\$ 616,046	9.25	\$ 3,948
6c	Whittier Rd	1	\$ 305,624	10	\$ 1,812
7a	Chambers St	1	\$ 470,895	14	\$ 1,994
7b	Hubbell Rd	1	\$ 569,073	10.25	\$ 3,291
7c	Woodsford Ln	1	\$ 172,902	4	\$ 2,563
7d	Colby St	1	\$ 321,076	5.25	\$ 3,626
7e	Balsam Dr	1	\$ 108,826	5.25	\$ 1,229
7f	Parkwood Ln	1	\$ 127,004	4	\$ 1,882
7g	Chambers St	1	\$ 288,523	2	\$ 8,552
8	Hubbell Rd		\$ -	0	#DIV/0!
9	Whittier Rd		\$ -	0	\$ -
10	Vroom Rd		\$ -	0	#DIV/0!
11	Colby St		\$ -	0	\$ -
12	Lyell St		\$ -	0	\$ -
13a	Trimmer Rd	1	\$ 196,732	8	\$ 1,458
13b	Canal Rd	1	\$ 1,569,515	33.5	\$ 2,778
14	Brower Rd	1	\$ 592,604	16.5	\$ 2,129
15	Nichols St		\$ -	0	\$ -

Totals \$ 8,937,951 217.5

Funding Option 2: WIIA Grant and EFC DWSRF Loan

Total Project Cost = \$ 8,937,951

Less WIIA Grant = \$ 5,000,000 (60% of Project Costs up to \$5M)

Total Amount Financed = \$ 3,937,951

Annual P & I Payment (5.0% for 30 Years) = \$ 256,169 (Market Rate is currently 4.25%)

EDU's in Proposed District = 217.50

Estimated Debt Service Cost = \$ 1,178

Estimated Cost of Water = \$ 355.40

Estimated Cost/Year/Residence = \$ 1,533.19 Comptrollers Threshold \$1,101 (2025)



Service Area Alternatives - Scenario 8 (Area 1a, 1b, 2, 4, 5, 6, 7, 13, 14 & 15)

Seg ID	Street	Include Yes = 1	Total Project Cost	EDU's	Annual Cost Per EDU
1a	Dewey St	1	\$ 904,660	20.75	\$ 2,585
1b	McIntosh Rd	1	\$ 164,126	3	\$ 3,243
1c	Bangs Rd		\$ -	0	#DIV/0!
2	Dewey St	1	\$ 635,512	18.75	\$ 2,009
3	Hubbell Rd		\$ -	0	\$ -
4	Euler Rd	1	\$ 409,869	18	\$ 1,350
5a	Euler Rd	1	\$ 406,408	7.25	\$ 3,323
5b	Hubbell Rd	1	\$ 381,904	8.25	\$ 2,744
6a	Whittier Rd	1	\$ 696,650	19.5	\$ 2,118
6b	Hubbell Rd	1	\$ 616,046	9.25	\$ 3,948
6c	Whittier Rd	1	\$ 305,624	10	\$ 1,812
7a	Chambers St	1	\$ 470,895	14	\$ 1,994
7b	Hubbell Rd	1	\$ 569,073	10.25	\$ 3,291
7c	Woodsford Ln	1	\$ 172,902	4	\$ 2,563
7d	Colby St	1	\$ 321,076	5.25	\$ 3,626
7e	Balsam Dr	1	\$ 108,826	5.25	\$ 1,229
7f	Parkwood Ln	1	\$ 127,004	4	\$ 1,882
7g	Chambers St	1	\$ 288,523	2	\$ 8,552
8	Hubbell Rd		\$ -	0	#DIV/0!
9	Whittier Rd		\$ -	0	\$ -
10	Vroom Rd		\$ -	0	#DIV/0!
11	Colby St		\$ -	0	\$ -
12	Lyell St		\$ -	0	\$ -
13a	Trimmer Rd	1	\$ 196,732	8	\$ 1,458
13b	Canal Rd	1	\$ 1,569,515	33.5	\$ 2,778
14	Brower Rd	1	\$ 592,604	16.5	\$ 2,129
15	Nichols St	1	\$ 372,634	9.5	\$ 2,325
Totals			\$ 9,310,586	227	

Funding Option 2: WIIA Grant and EFC DWSRF Loan

Total Project Cost = \$ 9,310,586

Less WIIA Grant = \$ 5,000,000 (60% of Project Costs up to \$5M)

Total Amount Financed = \$ 4,310,586

Annual P & I Payment (5.0% for 30 Years) = \$ 280,410 (Market Rate is currently 4.25%)

EDU's in Proposed District = 227.00

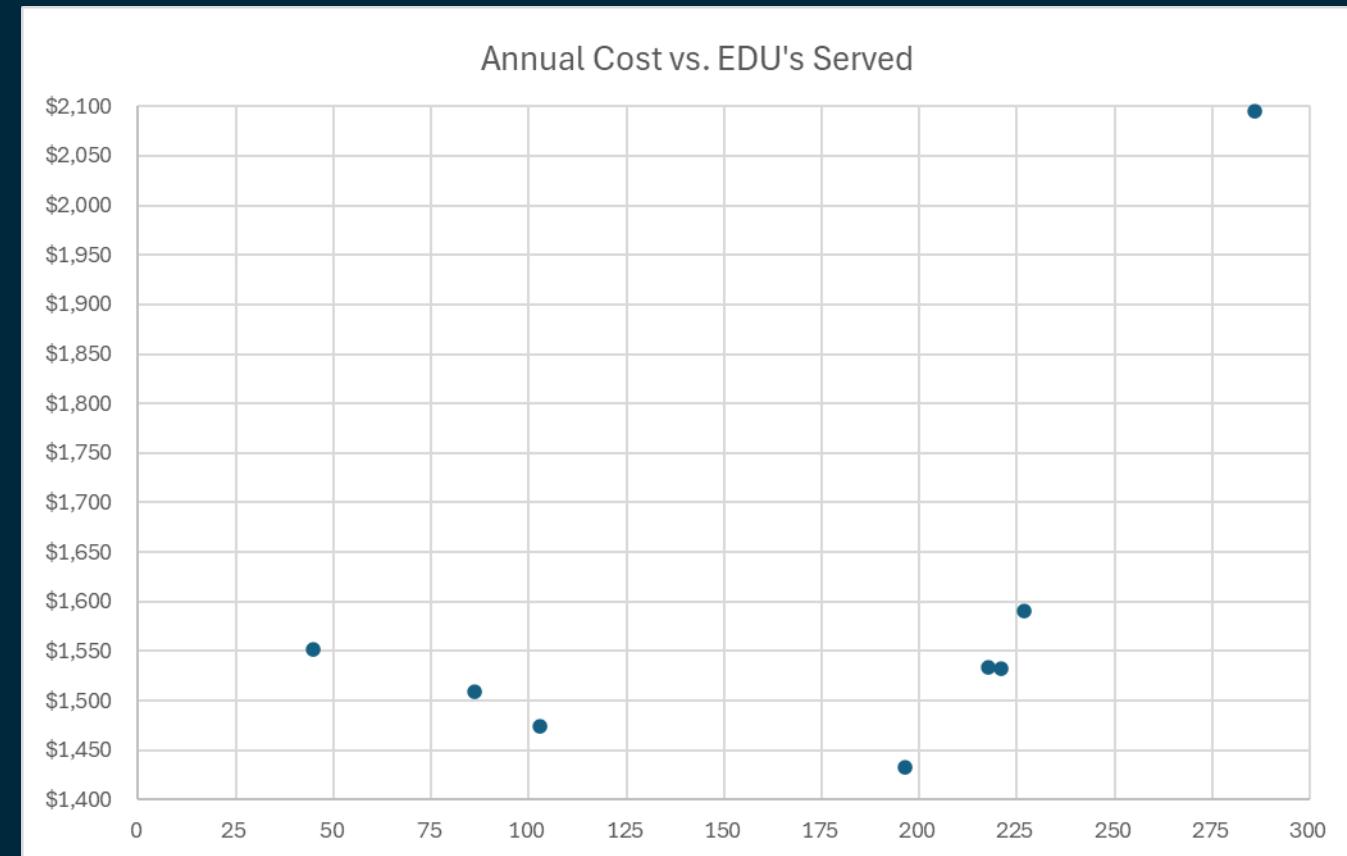
Estimated Debt Service Cost = \$ 1,235

Estimated Cost of Water = \$ 355.40

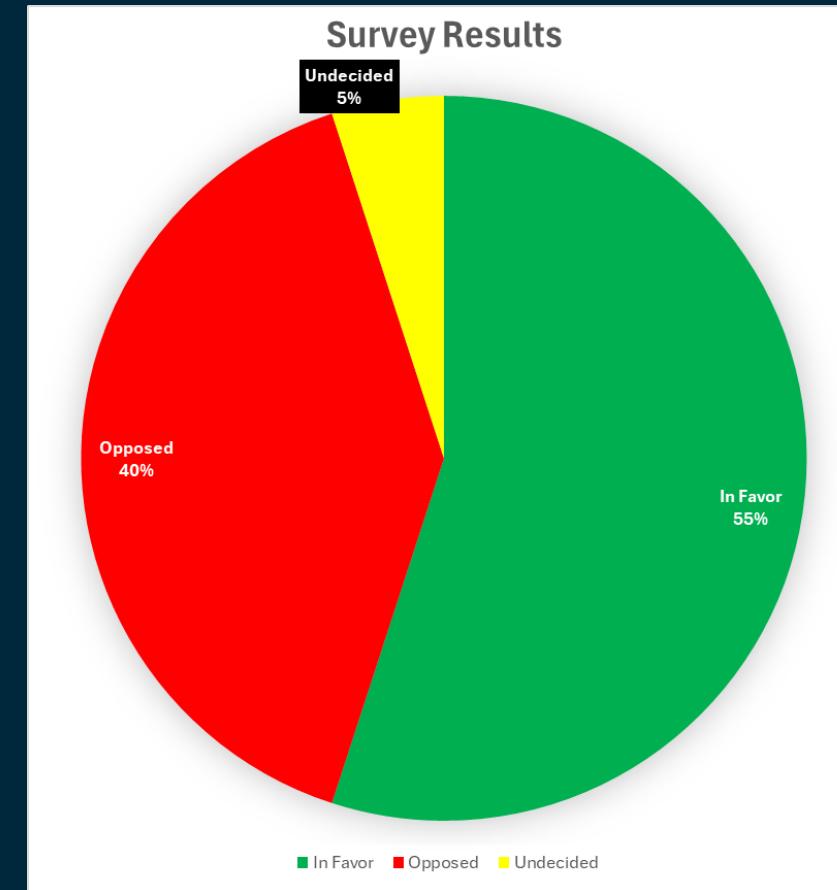
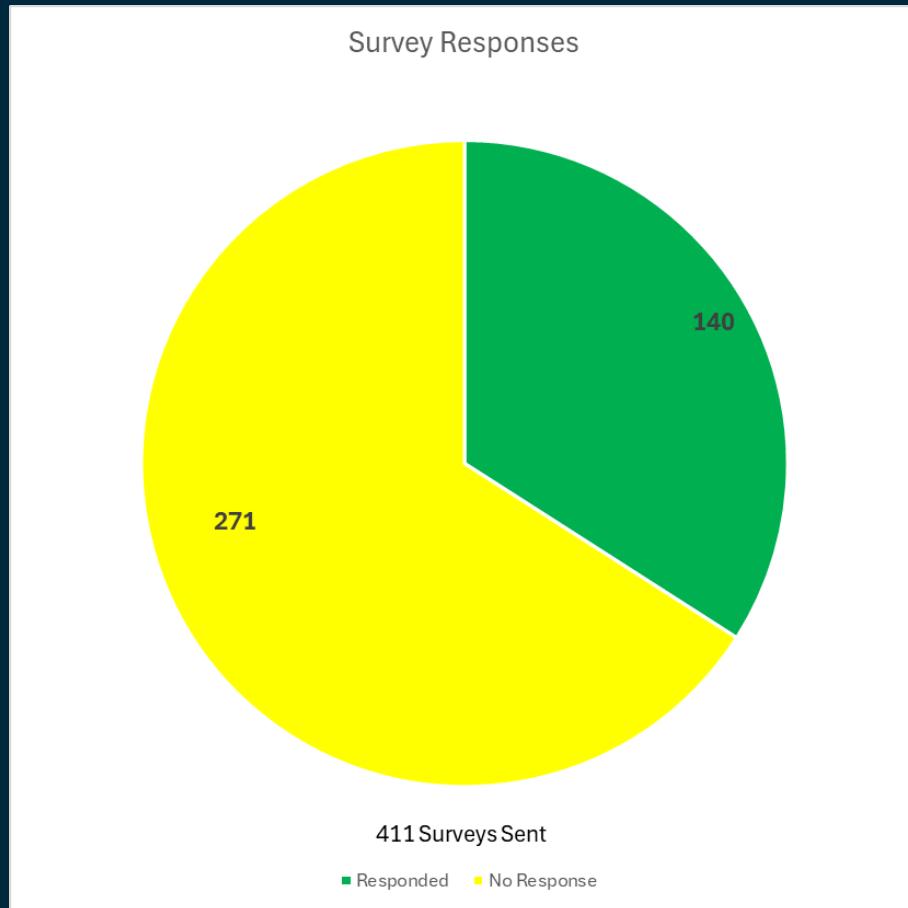
Estimated Cost/Year/Residence = \$ 1,590.69 Comptrollers Threshold \$1,101 (2025)

Summary of Scenarios

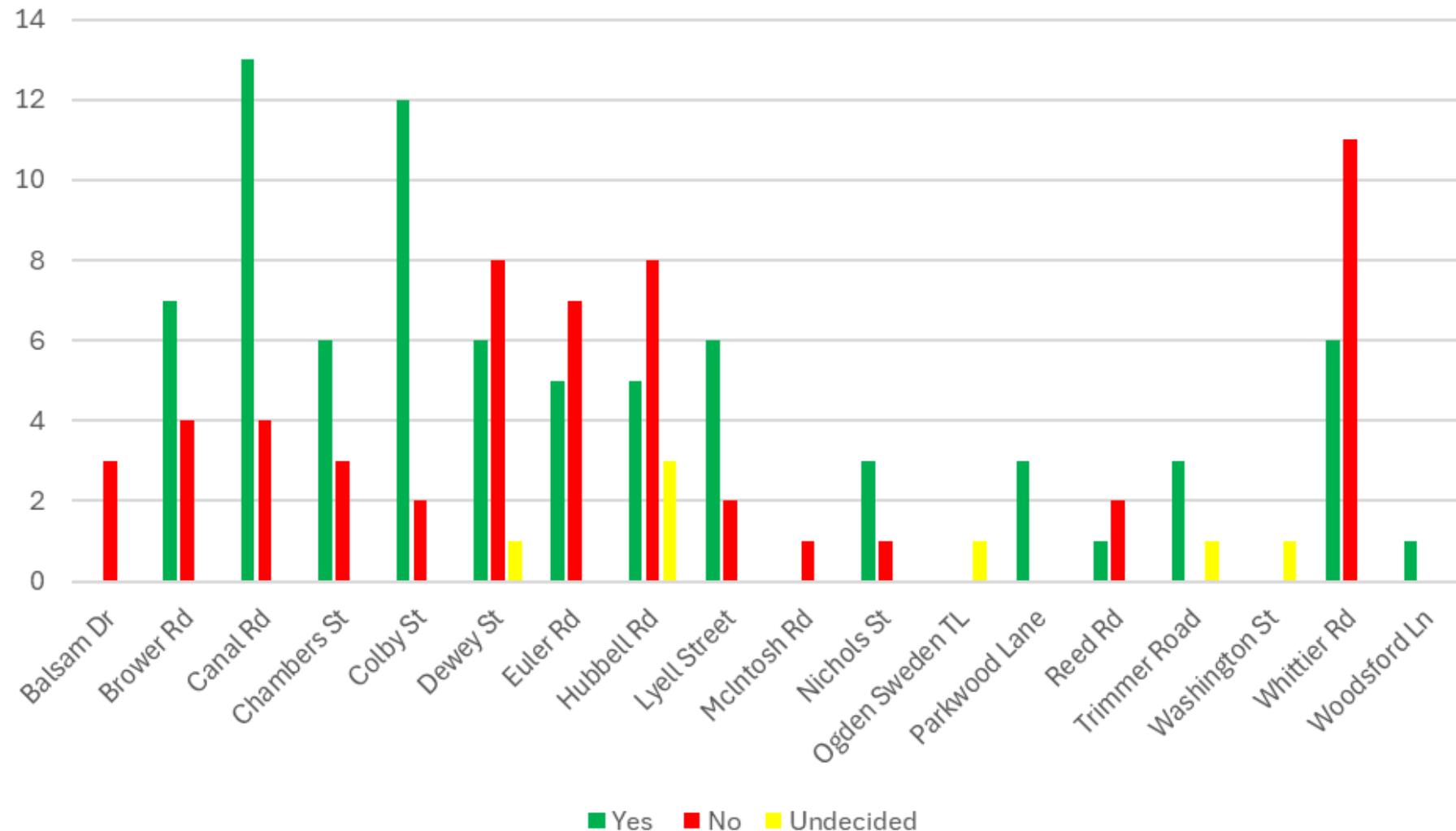
Scenario	EDU's	Annual Cost
6	196.50	\$1,433.23
4	102.75	\$1,474.01
3	86.25	\$1,509.22
5	221.00	\$1,532.19
7	217.50	\$1,533.19
2	44.75	\$1,552.23
8	227.00	\$1,590.69
1	286.00	\$2,094.86



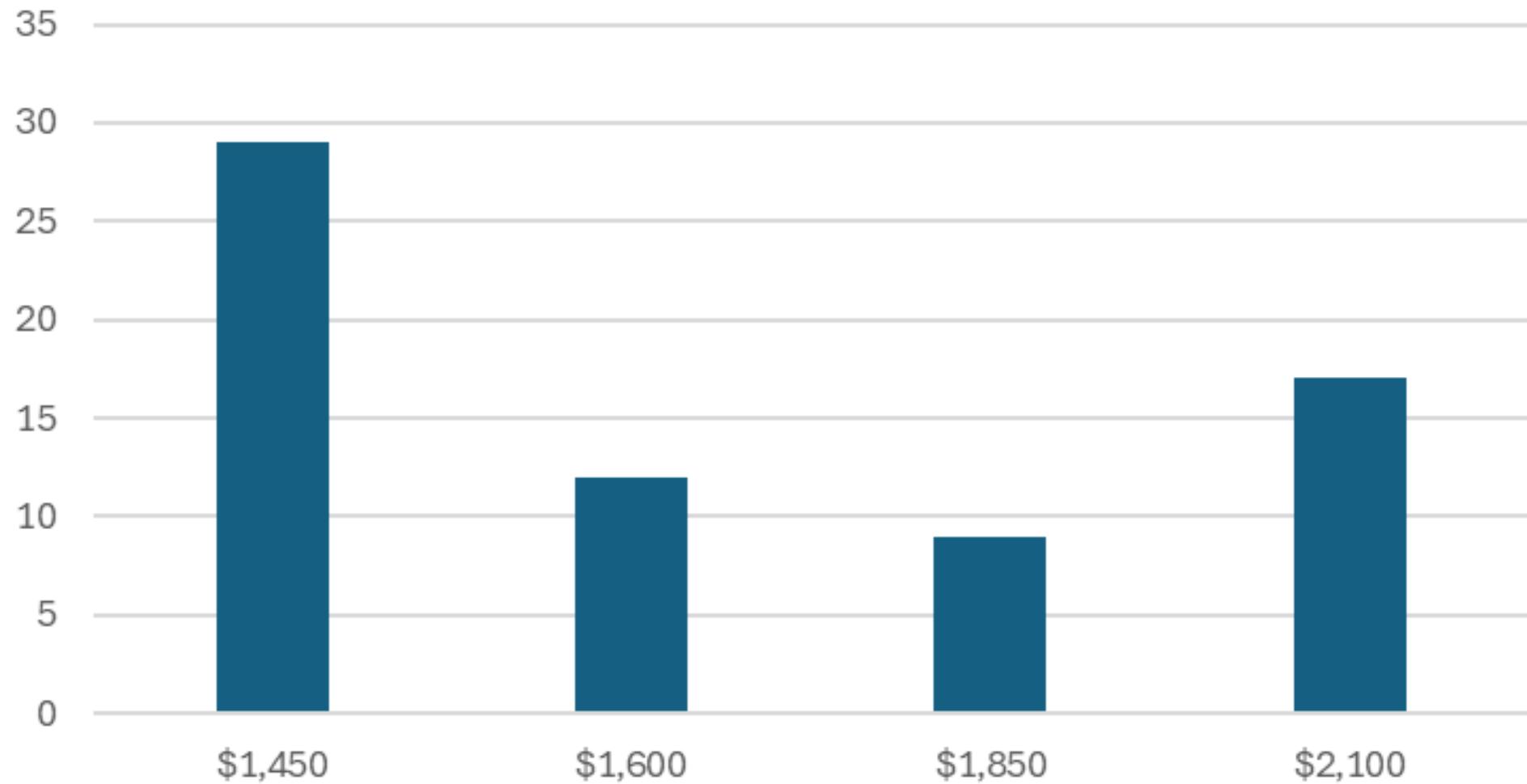
Survey Questionnaire



Survey Results by Street



Maximum Annual Cost Survey



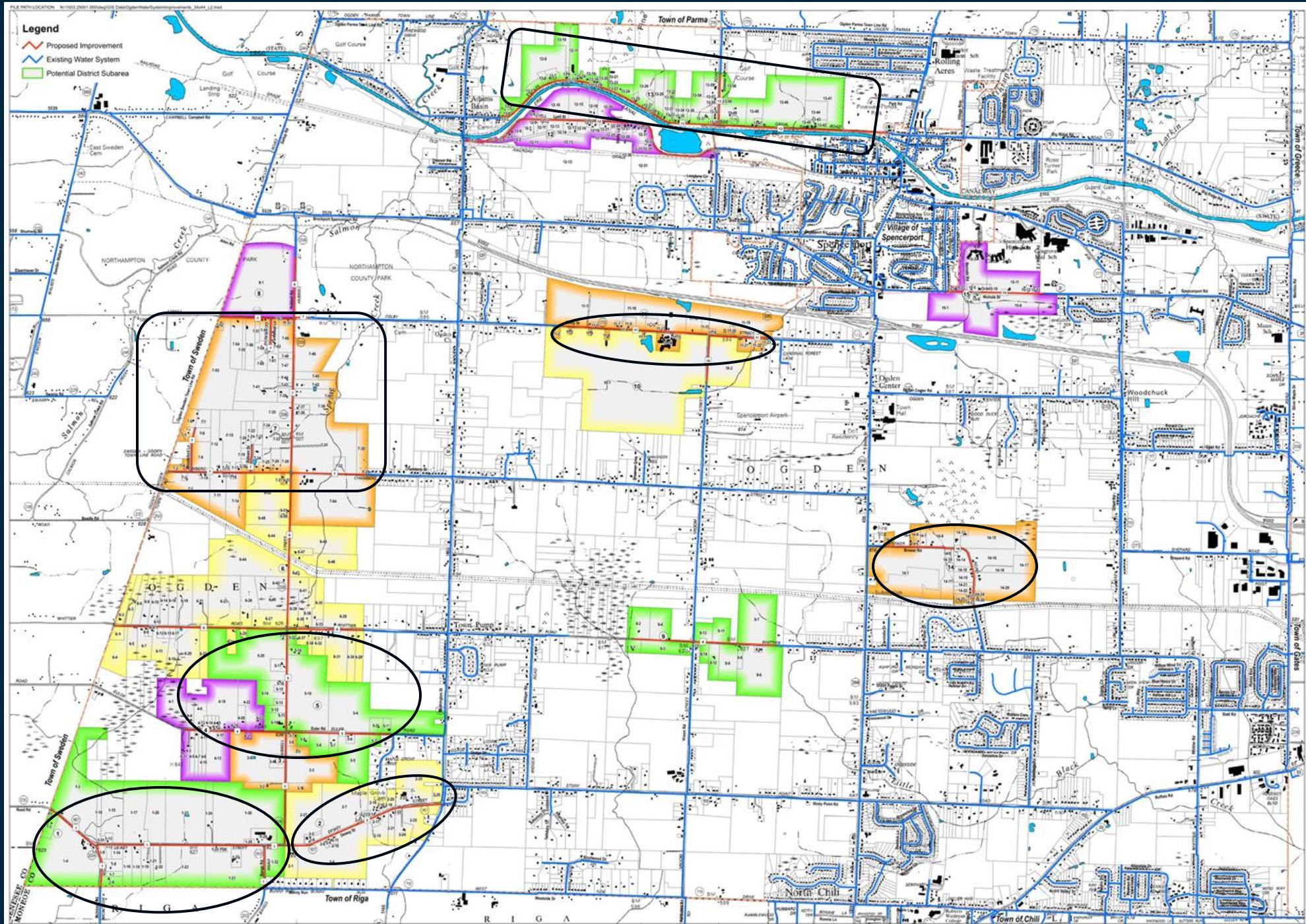
Conclusions

- Most affordable district will be about \$ 1,400 - 1,500/year
- Something like Scenario 6
- Best grant opportunity
 - Serve the most residents at least cost
 - Maximize \$5M grant

Funding Option 2: WIIA Grant and EFC DWSRF Loan		
	Total Project Cost = \$	8,139,493
	Less WIIA Grant = \$	4,883,696 (60% of Project Costs up to \$5M)
	Total Amount Financed = \$	3,255,797
	Annual P & I Payment (5.0% for 30 Years) = \$	211,794 (Market Rate is currently 4.25%)
	EDU's in Proposed District =	196.50
	Estimated Debt Service Cost = \$	1,078
	Estimated Cost of Water = \$	355.40
	Estimated Cost/Year/Residence = \$	1,433.23 Comptrollers Threshold \$1,101 (2025)



MRB
Group



Straw Poll

- In Favor
- Opposed
- Undecided

Next Steps

- If there is sufficient support
- Prepare District Boundary Map, Description and Engineering Report
- Prepare Legal Petition or Form District subject to referendum
 - Requires at least 50% of the assessed value and 50% of the resident owners
 - If there is not support end
- Apply For Grants
- If there is not sufficient support
- No further action taken

Questions

