

Town of Peshtigo

PFAS LISTENING SESSION

THURSDAY

FEB. 3rd at 6:00pm

Little River County Club

N2235 Shore Drive

Marinette, WI 54143

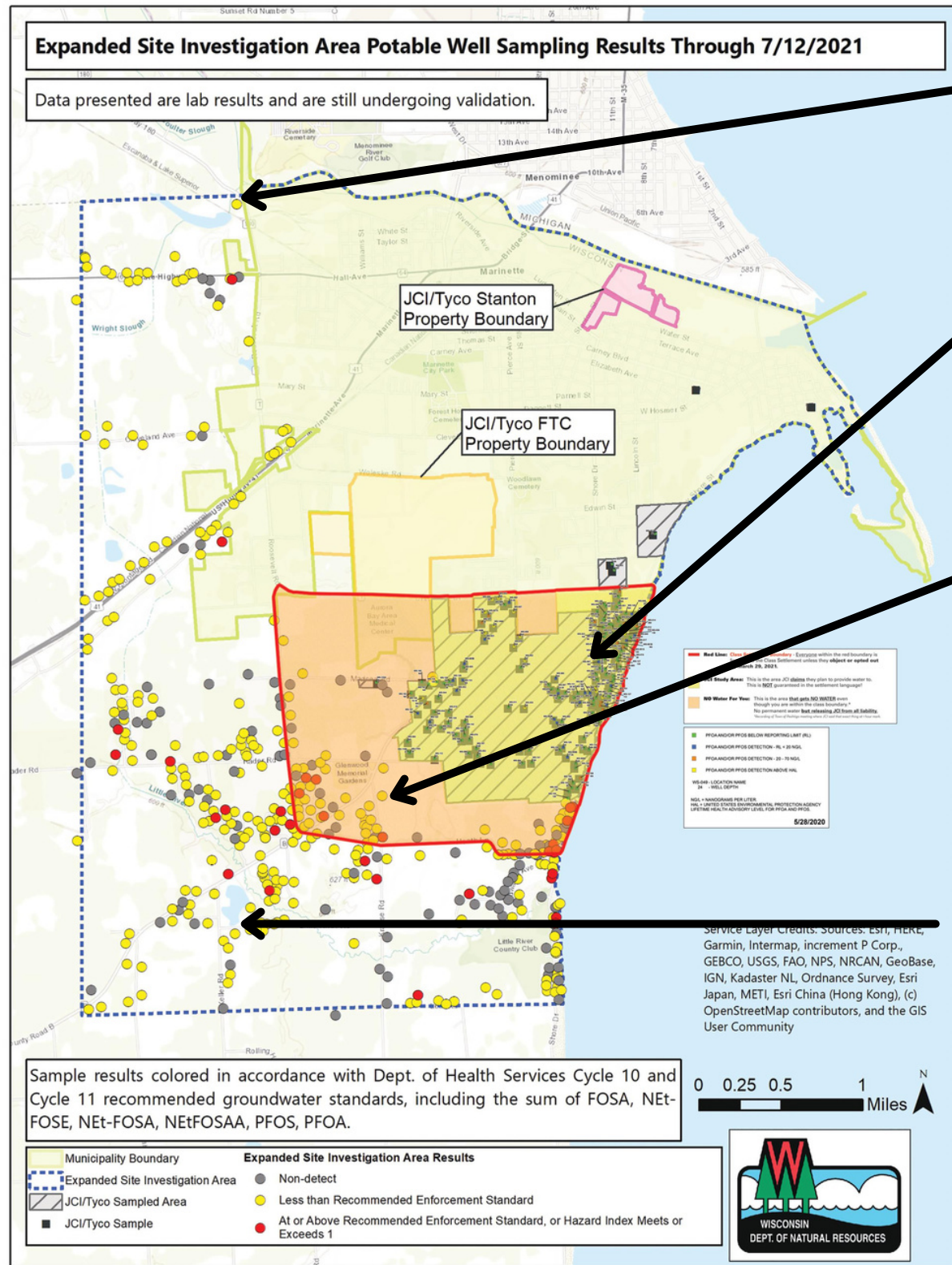
**PUBLIC LISTENING
SESSION AND UPDATE ON
TOWN PFAS WATER
CONTAMINATION**

PFAS LISTENING SESSION

1) Current TOP PFAS Status

Approximately 945 parcels in the Town of Peshtigo are in a PFAS Contamination Zone which has resulted in contaminated drinking wells.

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Full DNR-determined PFAS Investigation Area

1A: 'Study Area'

1B: Settlement Area outside Study Area but within Expanded Site Investigation Area (ESIA)

2: Rest of Expanded Site Investigation Area (ESIA)

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2) Abbreviated Timeline

- **2013** Tyco/JCI discovered PFAS contamination at their fire training facility
- **2016** Tyco/JCI reports PFAS findings to DNR: 3 years later
- **2017** PFAS discovered in Town of Peshtigo drinking wells
- **March 2019** Tyco/JCI announces water line from Marinette as solution (although NO agreements or discussions had been made)

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February 2020: DNR directs Tyco/JCI to expand testing to ESIA

May 2020: TOP hires Von Briesen and Roper, Environmental Law Firm

August 2020: Tyco/JCI refuses reimbursement of legal expenses to the Town

October 2020: Town of Peshtigo Board passes Resolution to Explore City of Marinette Water Extension contingent on items including Tyco/JCI payment of environmental legal bills and a new reimbursement agreement.

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January 2021: TOP votes to send letter to Marinette regarding water extension, still no reimbursement agreement for environmental representation

June 2021: New municipal and environmental representation selected, Reimbursement Agreement obtained, Strand Engineering hired

July 2nd, 2021: TOP Chair sends letter to Marinette City Council and Mayor asking them to reconsider the upcoming resolution.

July 6th, 2021: City of Marinette passes a resolution stating it will NOT extend municipal water or sell bulk water to the Town of Peshtigo, despite public testimony from multiple Town Supervisors and residents requesting otherwise

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July 30th, 2021: Town of Peshtigo meeting with Tyco/JCI representatives Katie McGinty and Mary Gade (also present: WDNR Christine Haag and Kyle Burton)

● Tyco/JCI acknowledgement that the WDNR has enforcement authority to determine where JCI is deemed the responsible party (currently: full Expanded Site Investigation Area). Christine Haag (WDNR)-- site investigation has not been approved, further investigation is needed regarding the movement of the plume as well as air deposition impact.

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- **August 18th, 2021:** TOP sends invitation to City of Peshtigo to meet and discuss the potential of long-term safe water options
- **September -October, 2021:** DNR leads effort on selection and vetting of Summit Facilitator and structure
- **December 6th, 2021:** Summit Meeting #1
- **December 10th, 2021:** TOP letter to City of Peshtigo confirming TOP's desire to continue discussions
- **December 15th, 2021:** Summit Meeting #2

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December 15, 17, 30 and January 19th: TOP continued to request meeting with JCI. (Meeting occurred on January 26th, 2022)

December 20th, 2021: TOP meeting with Department of Justice

December 21st, 2021: Working Group Meeting

December 23, 2021: Tyco/JCI communication with the WDNR stating they refuse responsibility for testing and safe drinking water provision in the Expanded Site Investigation Area (1B and 2)

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January 3rd, 2022: Strand Engineering deliverables to TOP board
(see townofpeshtigo.org for PowerPoint presentation)

January 6th, 2022: Strand Presentation of TOP Water Supply Alternatives Analysis (open to public) at TOP Special Meeting. Full board was also debriefed on summit discussions and discussed strategy.

January 10th, 2022: Attorney Reuter to reach out to City of Peshtigo to schedule discussions for week of January 24th, 2022.

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End of January, 2022: City of Peshtigo anticipated to have completed evaluation of their systems capacity (including peer review of Strand data)

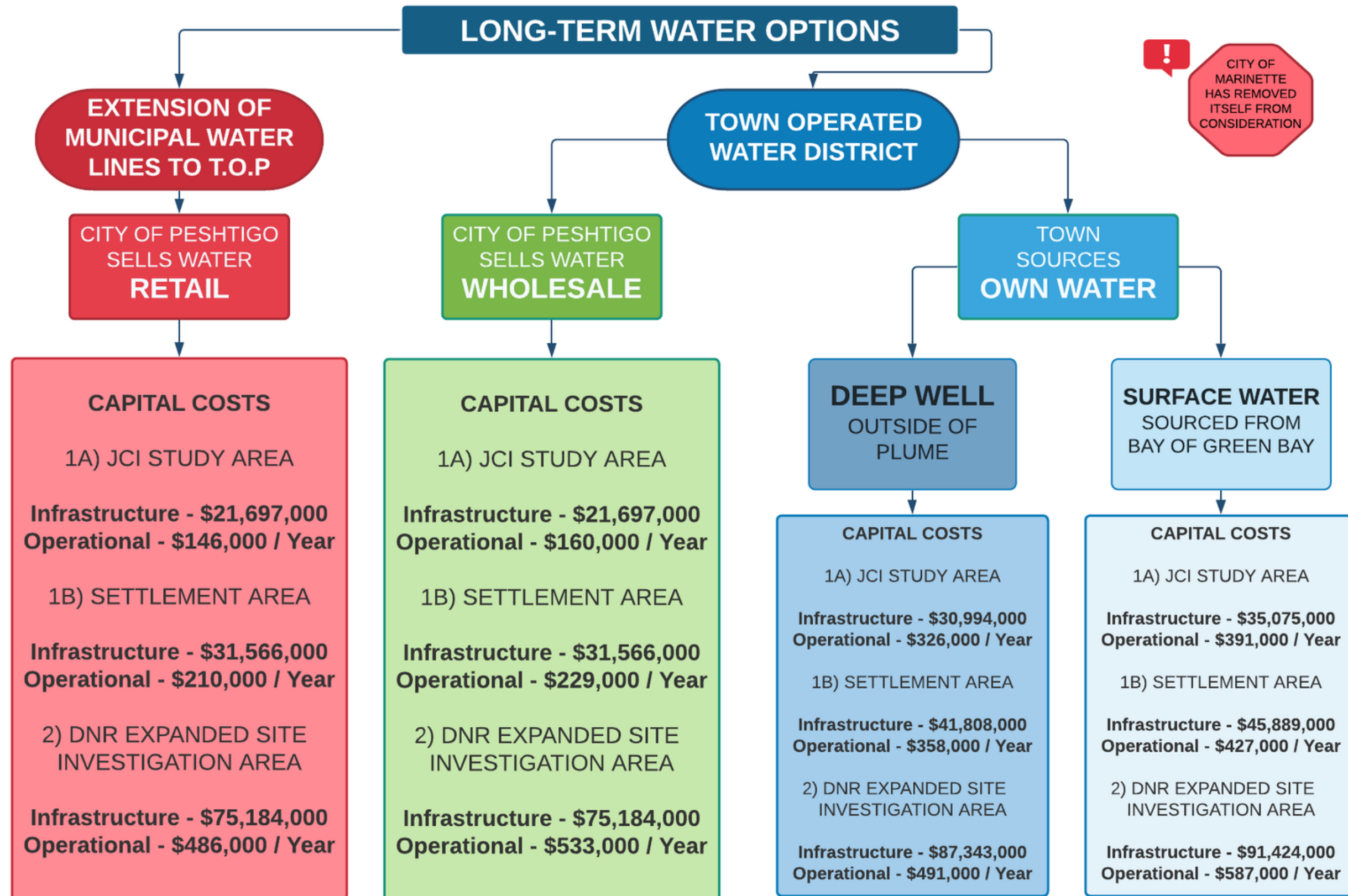
January 26, 2022: TOP Summit meeting with JCI

End of January to Early February, 2022: TOP and City of Peshtigo to meet and discuss water options

February 3rd, 2022: Town of Peshtigo Listening Session

February 15th, 2022: Summit #4 scheduled

PFAS LISTENING SESSION



CAPITAL COSTS

1A) JCI STUDY AREA

Infrastructure - \$21,697,000
Operational - \$146,000 / Year

1B) SETTLEMENT AREA

Infrastructure - \$31,566,000
Operational - \$210,000 / Year

2) DNR EXPANDED SITE INVESTIGATION AREA

Infrastructure - \$75,184,000
Operational - \$486,000 / Year

CAPITAL COSTS

1A) JCI STUDY AREA

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Infrastructure - \$75,184,000
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CAPITAL COSTS

1A) JCI STUDY AREA

Infrastructure - \$30,994,000
Operational - \$326,000 / Year

1B) SETTLEMENT AREA

Infrastructure - \$41,808,000
Operational - \$358,000 / Year

2) DNR EXPANDED SITE INVESTIGATION AREA

Infrastructure - \$87,343,000
Operational - \$491,000 / Year

CAPITAL COSTS

1A) JCI STUDY AREA

Infrastructure - \$35,075,000
Operational - \$391,000 / Year

1B) SETTLEMENT AREA

Infrastructure - \$45,889,000
Operational - \$427,000 / Year

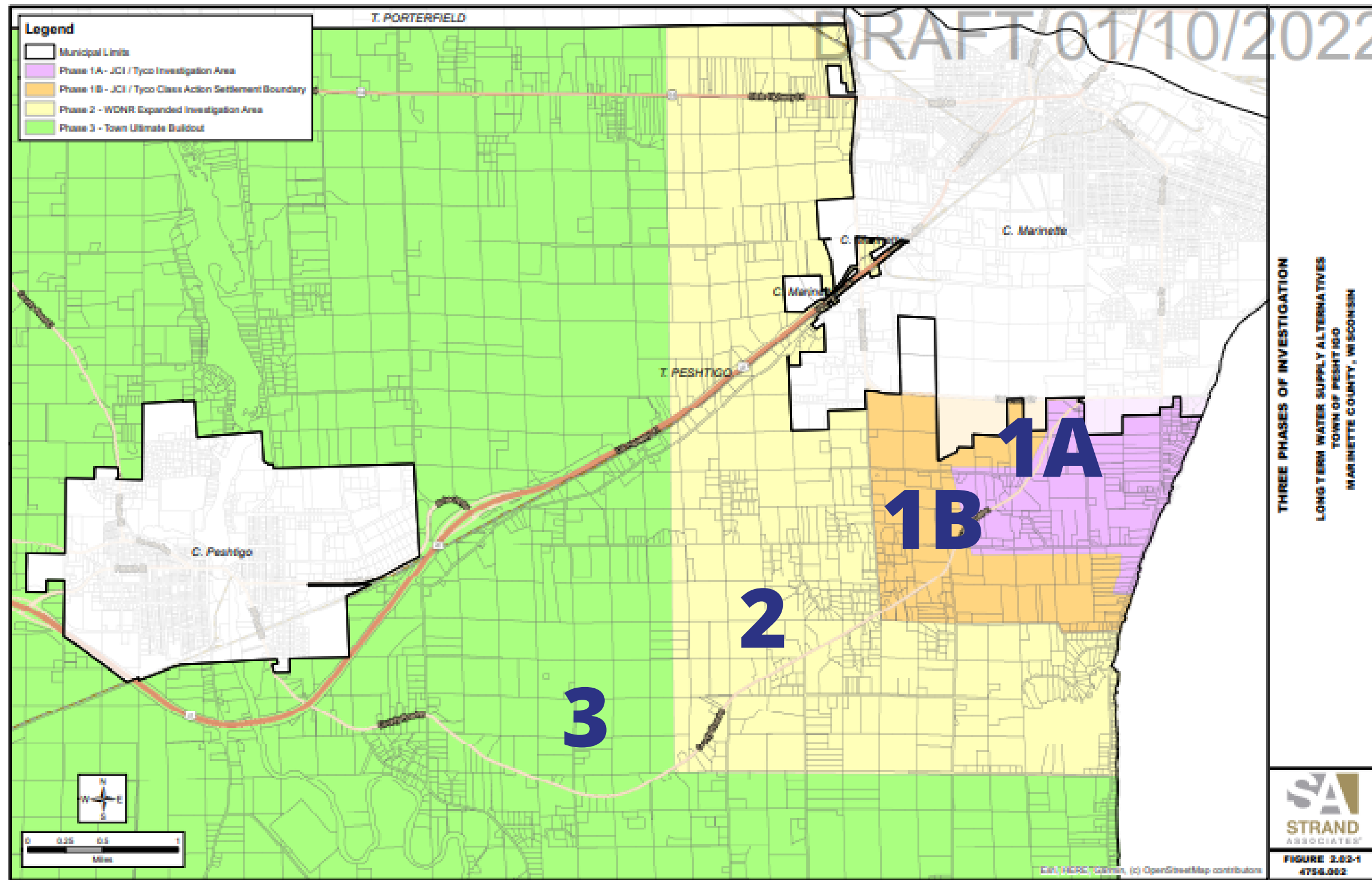
2) DNR EXPANDED SITE INVESTIGATION AREA

Infrastructure - \$91,424,000
Operational - \$587,000 / Year

*Cost opinions based on DRAFT 2022 Water Supply Alternatives Analysis by Strand Associates, Inc.

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4) Strand and Associates

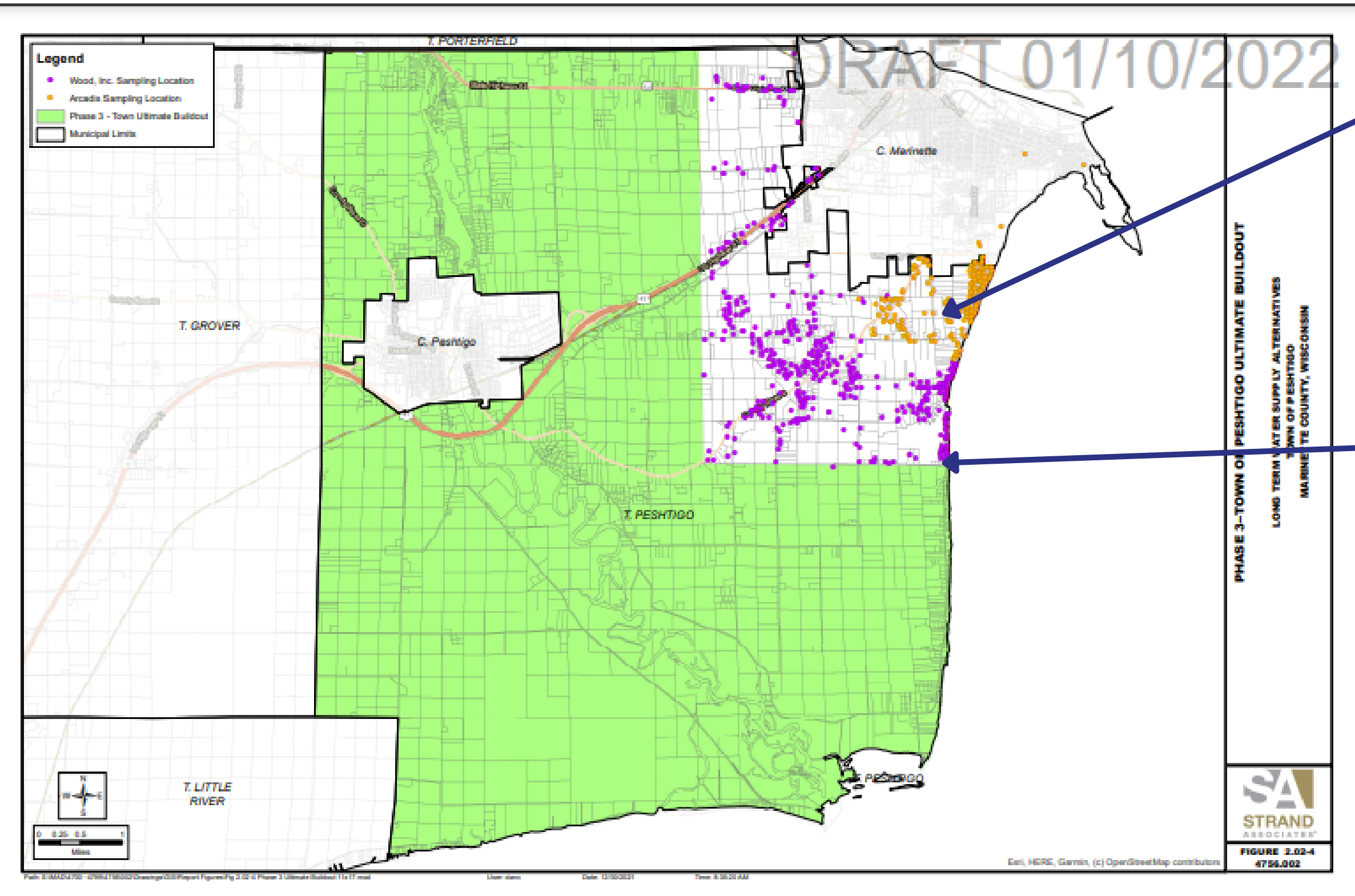


Testing Area Designation

- Area 1A - Tyco/JCI Initial Sampling
- Area 1B - Tyco/JCI Class Action Settlement Area (minus 1A)
- Area 2 - WDNR Expanded Sampling
- Area 3 - Town Ultimate Buildout

AREA	Estimated No. of Parcels
1A	201
1B	142
2	602
3	1,796

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Current TOP PFAS Plume

**Site Investigation Incomplete:
Air Deposition
Landspread Biosolids
Groundwater Plume
Etc**

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TOP Parcels, Contaminated Wells and Population

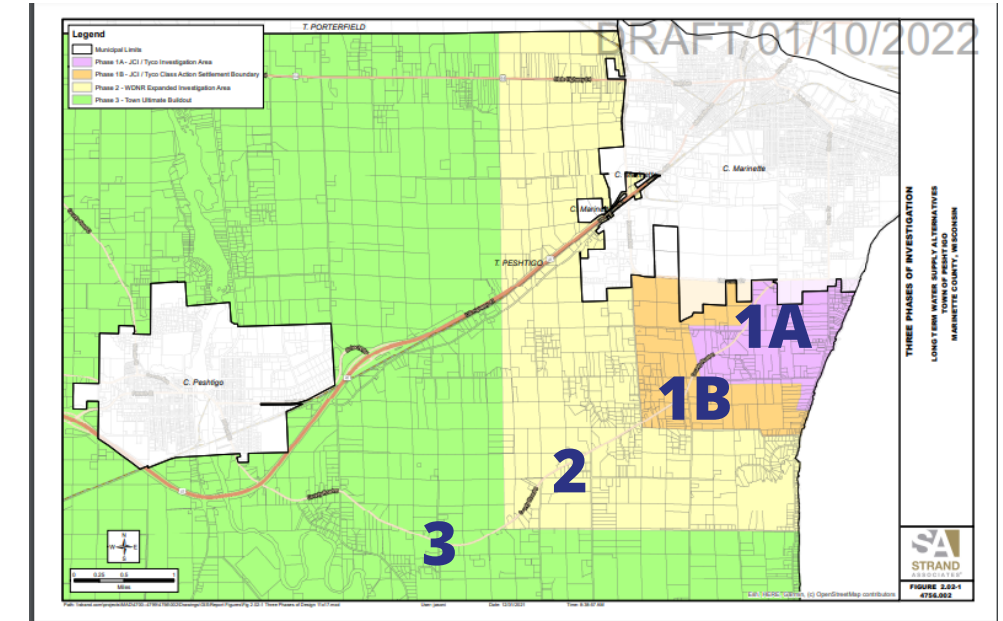
Phase	Business Parcels		Residential and Agricultural Parcels		Population Based on Parcels	
	Positive Detection Wells	Total in Phase Area	Positive Detection Wells	Total in Phase Area	Positive Detection Wells	Total in Phase Area
1A	5	→ 6	79	→ 195	121	298
1B	4	→ 8	52	→ 134	80	205
1A + 1B	9	→ 14	131	→ 329	201	503
2	20	→ 42	225	→ 560	344	856
1A + 1B + 2	29	→ 56	356	→ 889	545	1,359
3	NA	→ 65	NA	→ 1,731	NA	2,647
1A + 1B + 2 + 3	NA	→ 121	NA	→ 2,620	NA	4,006

Source: U.S. Census Bureau

Note: The Phase 3 area has not been tested for PFAS/PFOA

Disclaimer: Data edited by Strand 1/31/2022 to include most recent testing data

Table 2.04-1 Town of Peshtigo Contaminated Wells and Total Population in Each Phase



JCI, although legally identified as the Responsible Party, wants to ONLY address 201 of the 945 impacted parcels.

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Alternative No. 1 – Groundwater

- 2 Deep Aquifer Well Facilities with Treatment
- Treatment Needed:
 - Radium – Requirement
 - Iron and Manganese – Benefit
- Locate Outside of PFAS Plume
 - Can Add PFAS Treatment, if Needed
- Pump Finished Water to Phased Areas
- Waste Discharge to City of Peshtigo
- Establish Town Water Utility
- Town Responsible for O&M



Example Filter Vessels – Westech



City of Peshtigo Treatment Facility – Google Maps

**DEEP WELL
OUTSIDE OF
PLUME**

CAPITAL COSTS

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Infrastructure - \$30,994,000
Operational - \$326,000 / Year

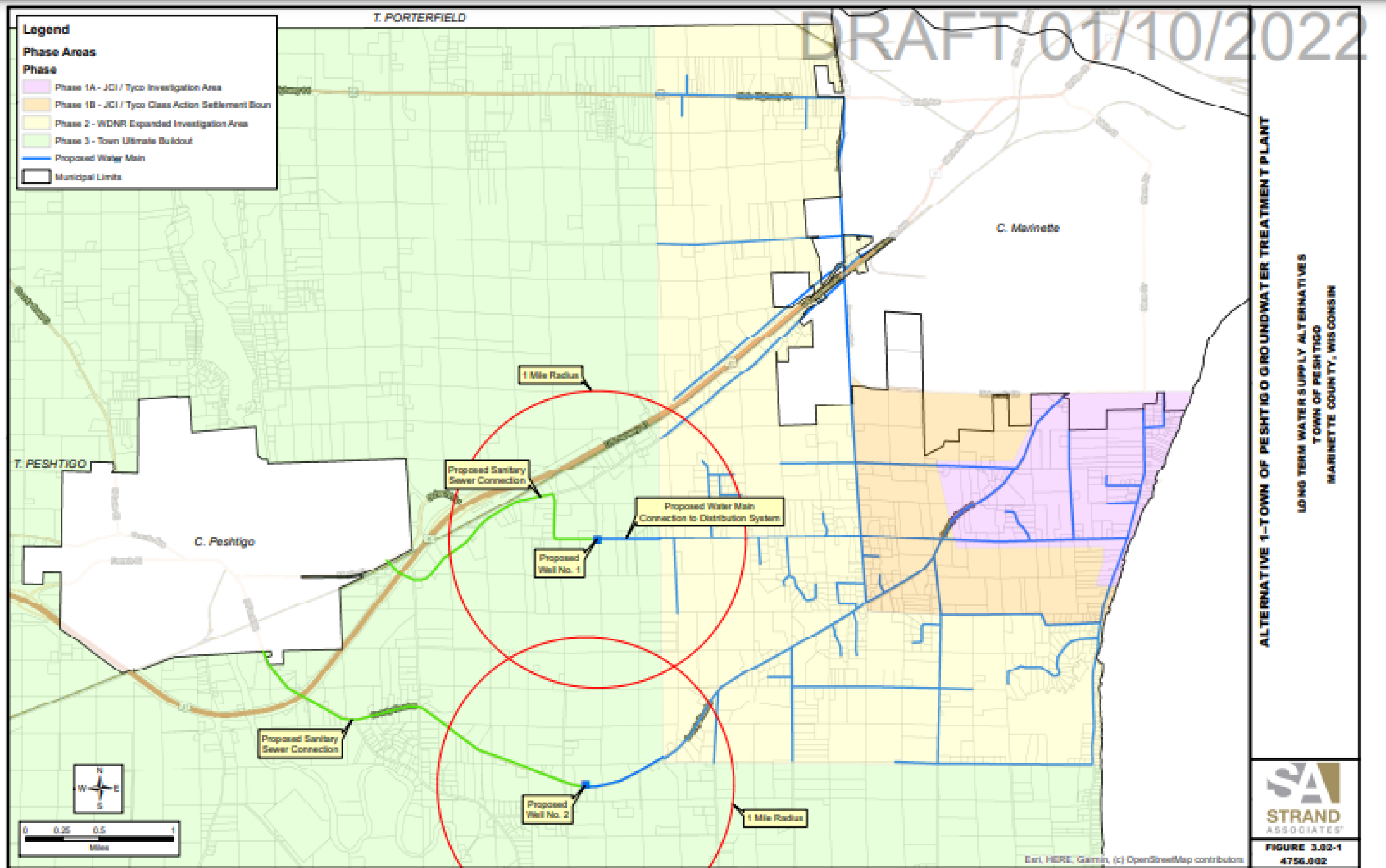
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PFAS LISTENING SESSION



**DEEP WELL
OUTSIDE OF
PLUME**

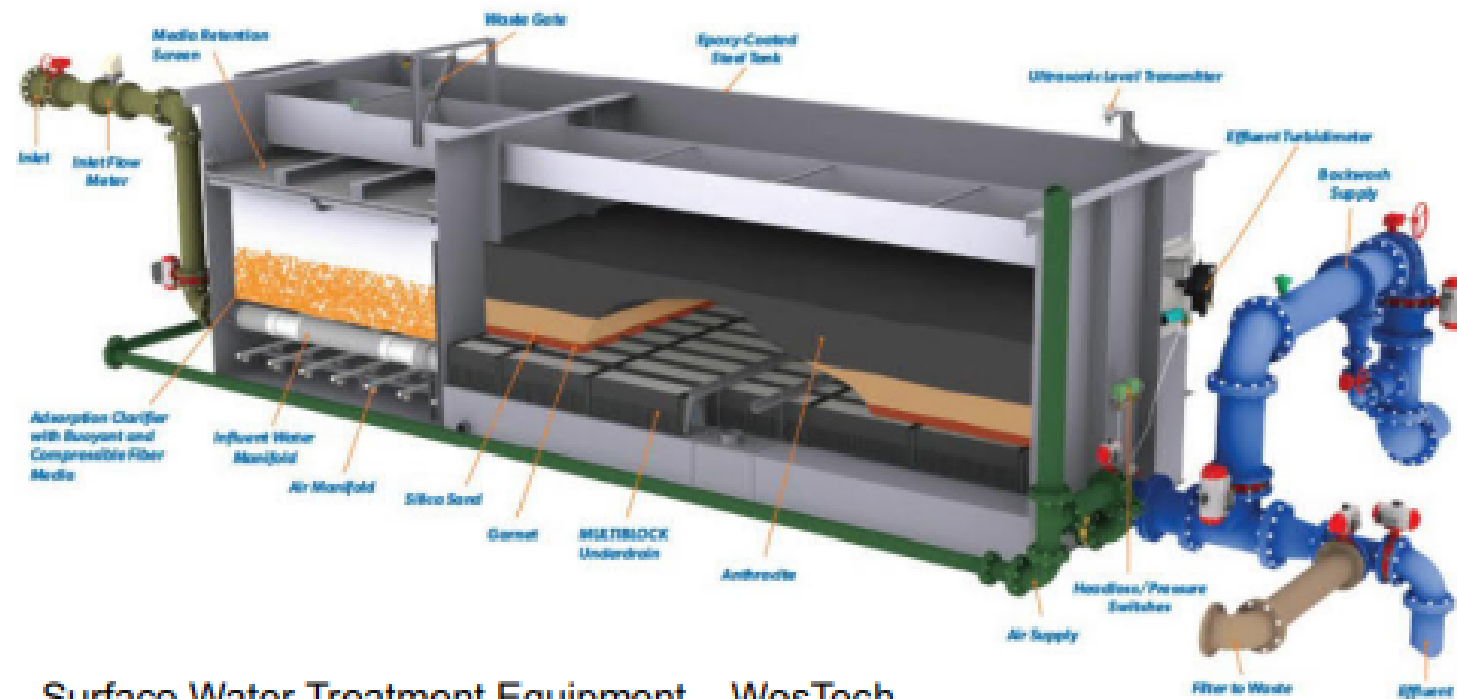
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Alternative No. 2 – Surface Water

- 1 Surface Water Treatment Plant
- 2 Treatment Trains
 - Clarification and Filtration
- Preliminarily Located at Boat Launch (50' x 50' Structure)
- Intake 2,000' into Green Bay
- Pump Finished Water to Phased Areas
- Waste Discharge to City of Peshtigo
- Establish Town Water Utility
- Town Responsible for O&M



Surface Water Treatment Equipment – WesTech

SURFACE WATER
SOURCED FROM
BAY OF GREEN BAY

CAPITAL COSTS

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Infrastructure - \$35,075,000
Operational - \$391,000 / Year

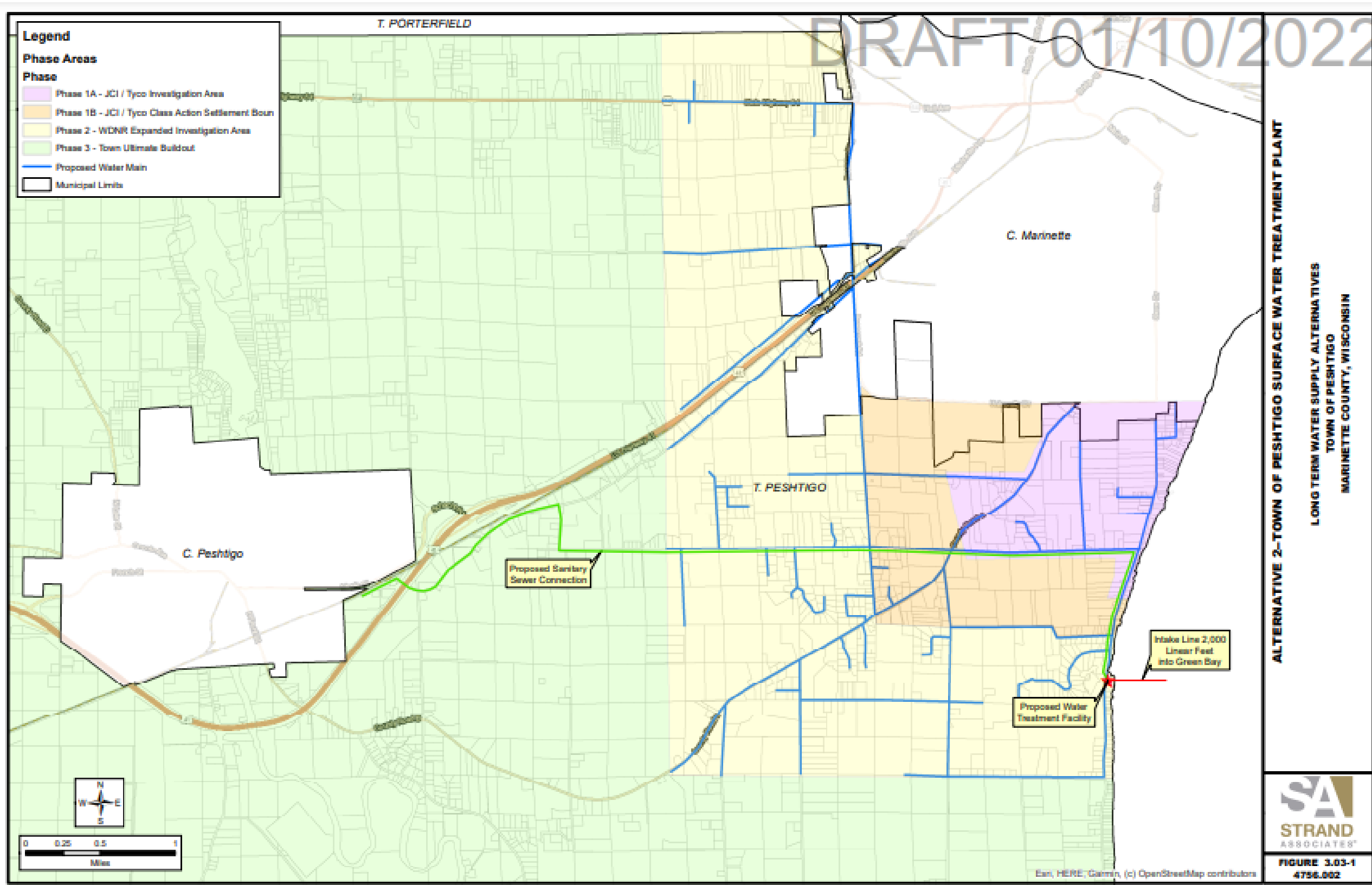
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PFAS LISTENING SESSION



SURFACE WATER SOURCED FROM BAY OF GREEN BAY

CAPITAL COSTS

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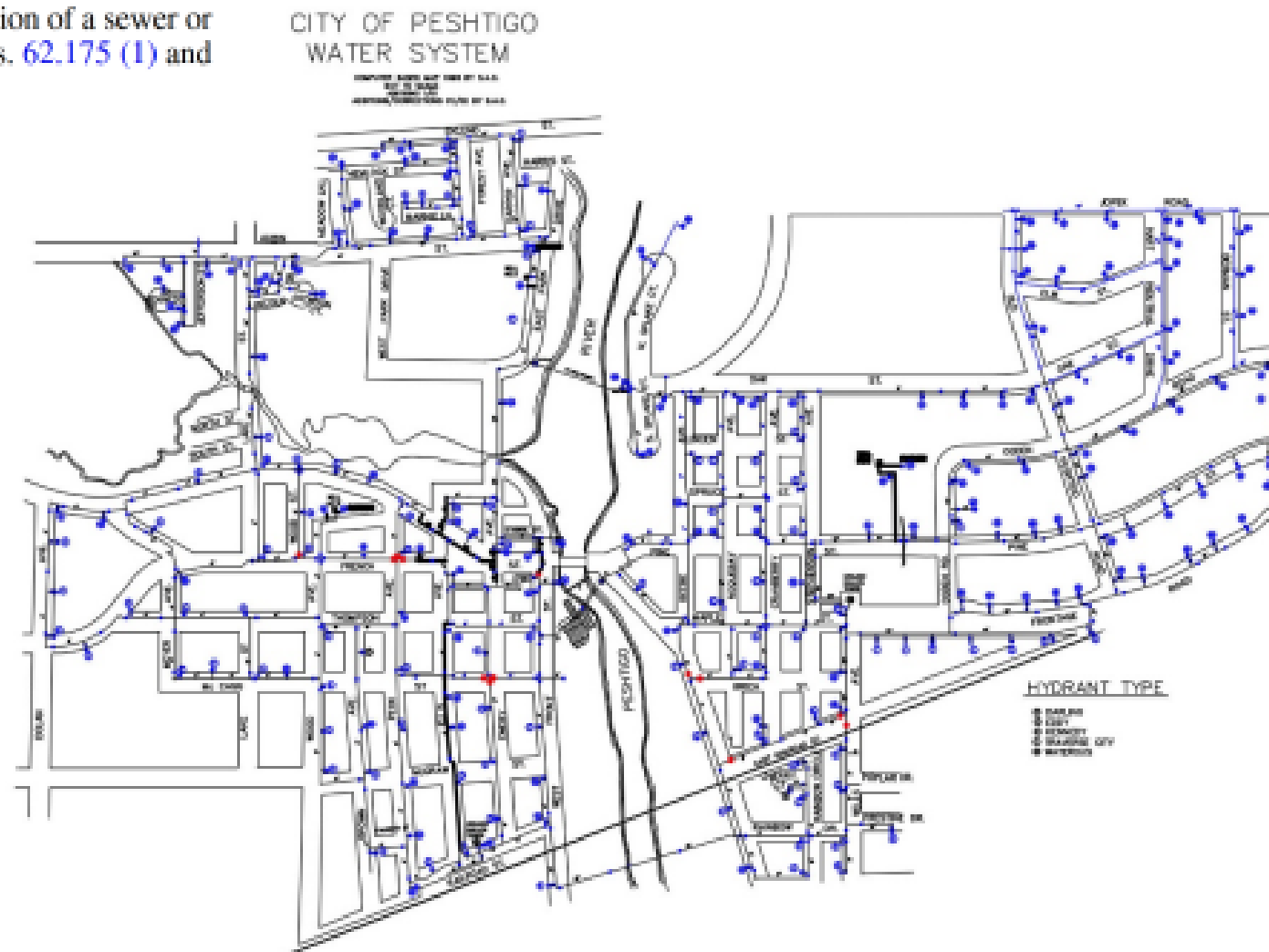
Alternative No. 3 – City of Peshtigo Retail

- Direct Extensions from City of Peshtigo Water Utility

60.52 Sewer and water systems of adjoining municipality. (1) With the approval of the town board, any city or village adjoining a town may construct and maintain extensions of its sewer or water system in the town. An extension of a sewer or water system under this subsection is subject to s. 62.175 (1) and the rights of abutting property owners.

Wisconsin Admin Code Chapter 60

- 3 Well Facilities
- 2 Water Towers
- ~ 25 Miles Water Main
- ~1,400 Customers



CITY OF PESHTIGO
SELLS WATER
RETAIL

CAPITAL COSTS

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Operational - \$146,000 / Year

1B) SETTLEMENT AREA

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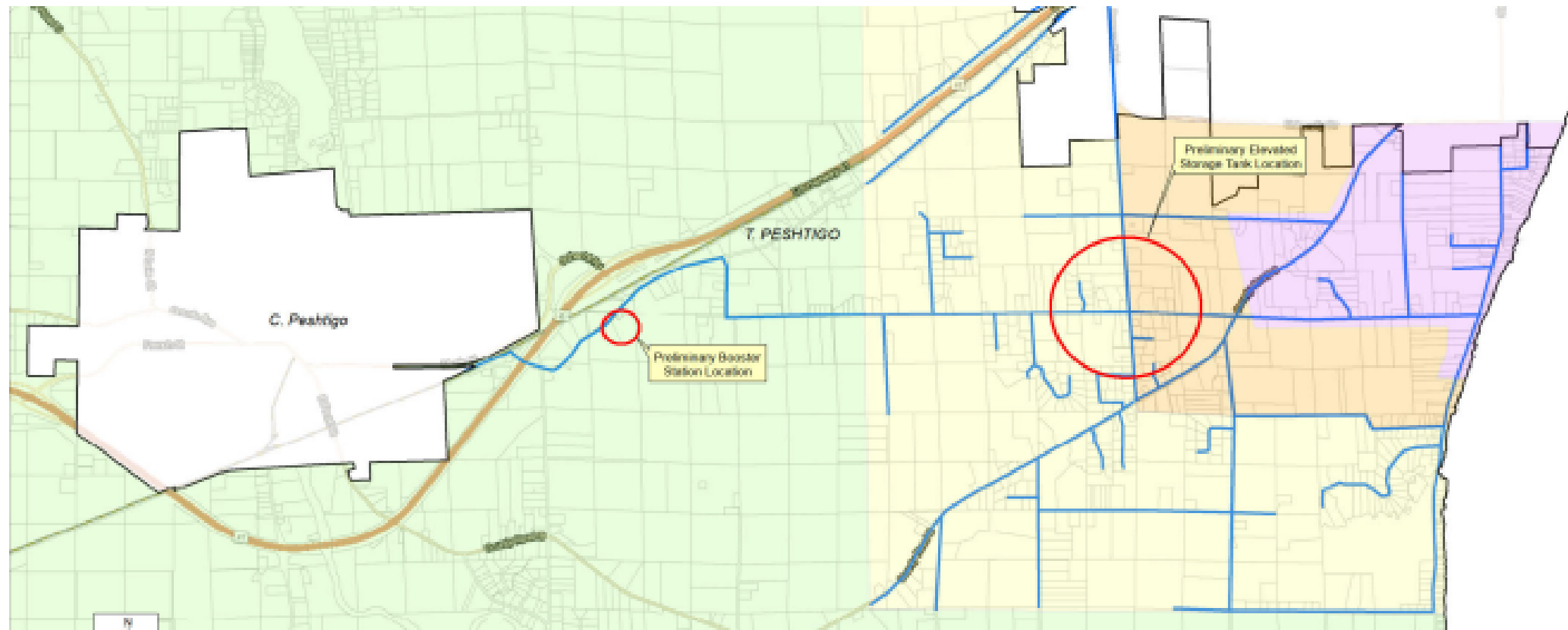
Infrastructure - \$75,184,000
Operational - \$486,000 / Year

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Alternative No. 3 – City of Peshtigo Retail

If selected, future discussions and negotiations would be sought to attain a mutually beneficial intergovernmental agreement with the City.

- Water Main Extensions from City (City Distribution System)
- Booster Pumping Station Required (City Operates)
- Elevated Tank May Not Be Required.
- Water Only Metered at Customer Service Line
- Town Water Utility Not Required
- All Operation and Maintenance by City of Peshtigo (Less Control by Town)
- PSCW Determines Rates for City of Peshtigo



CITY OF PESHTIGO
SELLS WATER
RETAIL

CAPITAL COSTS

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Operational - \$146,000 / Year

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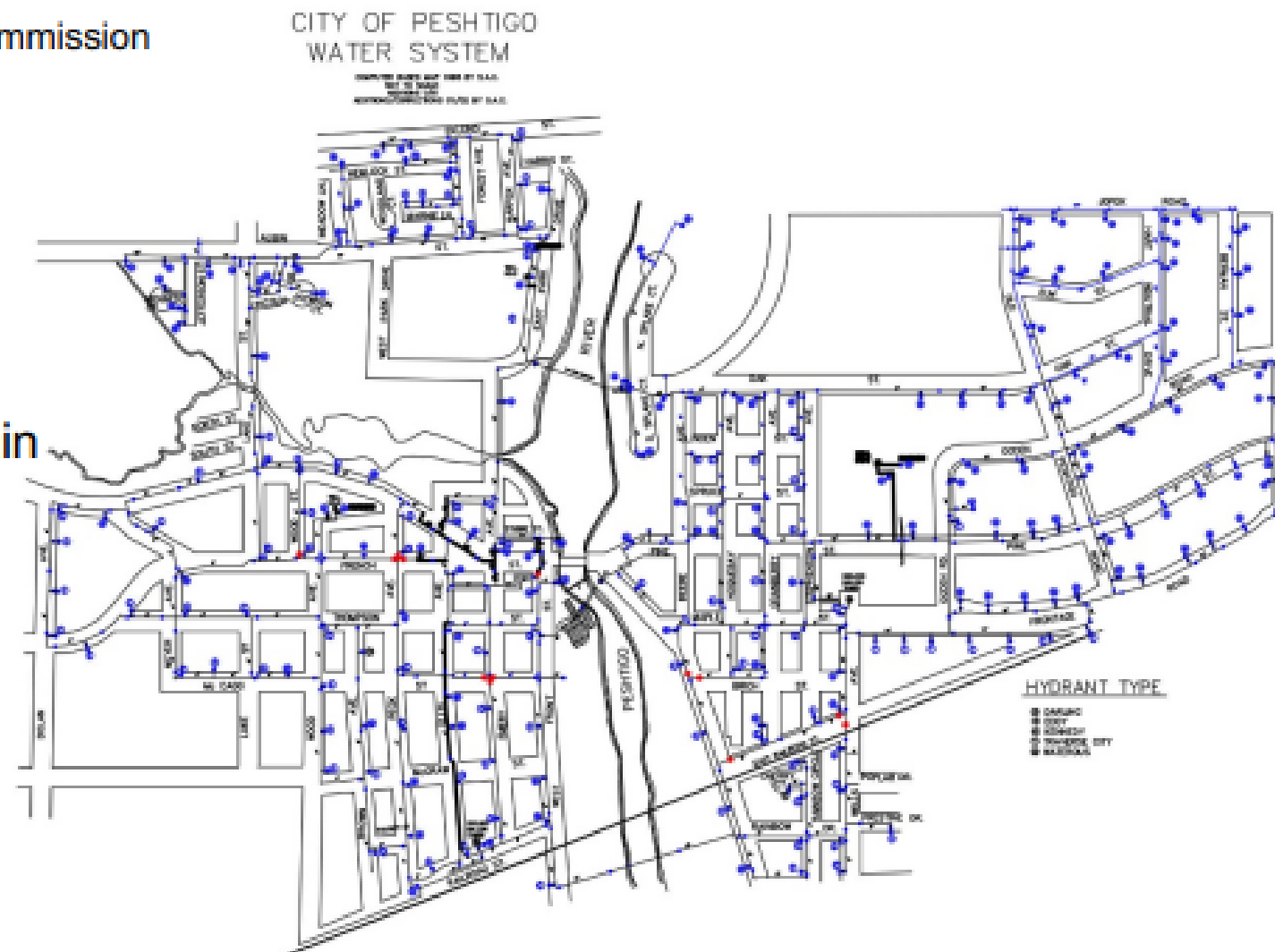
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Alternative No. 4 – City of Peshtigo Wholesale

- Wholesale Purchase from City of Peshtigo Water Utility
 - Sales for Resale (Account 466) – also referred to as wholesale customers. This account is for sales to other water utilities that resell the water to other customers on a retail basis.

Wisconsin Public Service Commission

- 3 Well Facilities
- 2 Water Towers
- ~ 25 Miles Water Main
- ~1,400 Customers



CITY OF PESHTIGO SELLS WATER WHOLESALE

CAPITAL COSTS

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Infrastructure - \$21,697,000
Operational - \$160,000 / Year

1B) SETTLEMENT AREA

Infrastructure - \$31,566,000
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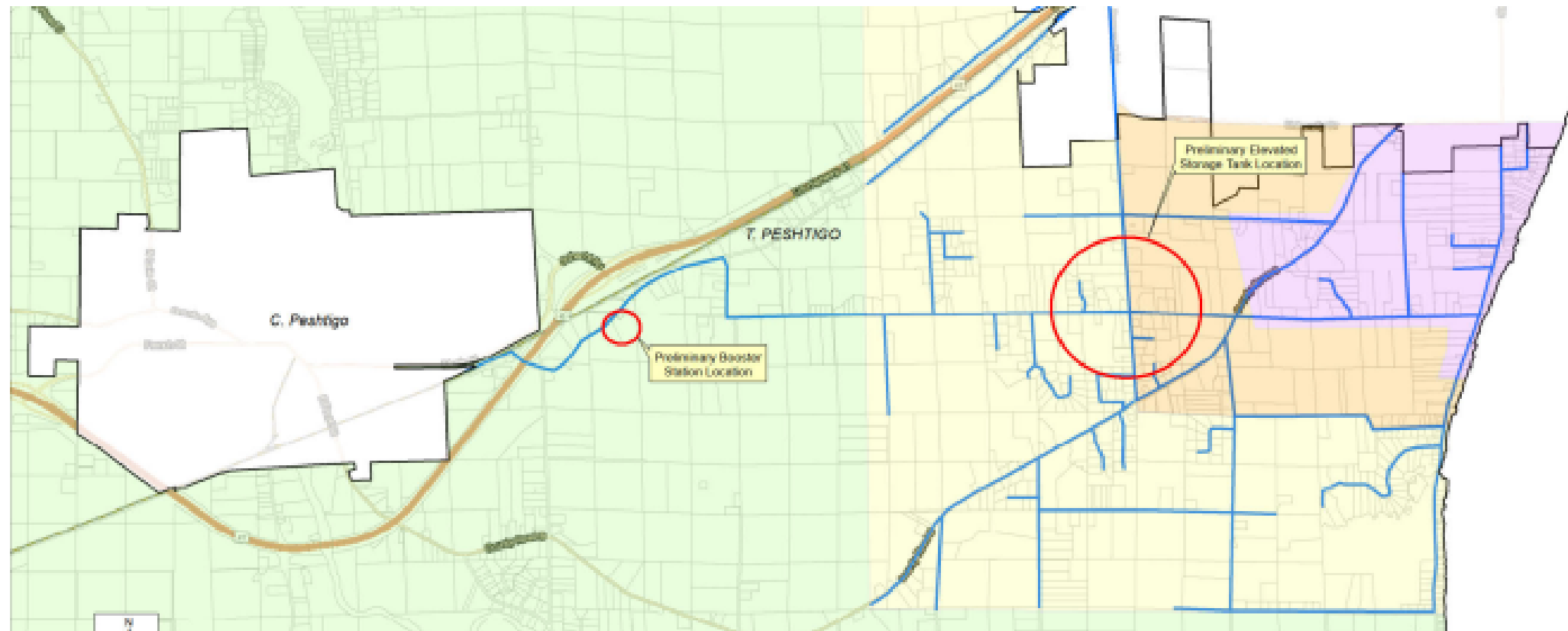
Infrastructure - \$75,184,000
Operational - \$533,000 / Year

PFAS LISTENING SESSION

Alternative No. 4 – City of Peshtigo Wholesale

If selected, future discussions and negotiations would be sought to attain a mutually beneficial agreement with the City.

- Single Water Main Connection from City (Town Distribution System)
- Booster Pumping Station Required (Town Operates)
- Elevated Tank Required
- Wholesale Master Meter and Residential Meters
- Establish Town Water Utility
- Operation and Maintenance by Town of Peshtigo (Or Hired Operator)
- PSCW Determines Rates for Town of Peshtigo



CITY OF PESHTIGO
SELLS WATER
WHOLESALE

CAPITAL COSTS

1A) JCI STUDY AREA

Infrastructure - \$21,697,000
Operational - \$160,000 / Year

1B) SETTLEMENT AREA

Infrastructure - \$31,566,000
Operational - \$229,000 / Year

2) DNR EXPANDED SITE INVESTIGATION AREA

Infrastructure - \$75,184,000
Operational - \$533,000 / Year

PFAS LISTENING SESSION

DRAFT

Decision Matrix With Applicable Factors Which Provide The Town Confidence in Decision

Criteria	Weight (1-3)	Alt. 1	Alt. 2	Alt. 3	Alt. 4
Water Quality	3	4	3	4	4
Water Quantity	3	5	5	5	5
Piping Required	1	3	1	5	5
Future Buildout Potential	2	5	5	5	5
System Storage Capacity	3	5	5	5	5
System Supply Capacity	3	5	5	5	5
System Complexity	3	2	2	4	4
Cost Effectiveness	1	2	3	5	4
System Operation and Maintenance	2	1	1	5	2
Schedule	2	2	2	5	3
Permits	3	2	2	4	2
	Un-weighted	36	34	52	45
	Weighted	86	83	115	100

PFAS LISTENING SESSION

5) TOP Water Status

- Approximately 35% of TOP Parcels are in a PFAS plume with contaminated drinking water
- Potentially growing plume of contamination
- Tyco/JCI denies responsibility: the DNR has found them to be non-compliant and has referred them to the Department of Justice for enforcement.
- There are 4 Long-Term Safe Drinking Water Options (Considerations: Cost, Extent, Intergovernmental agreements, all final water systems and options will be subject to Public Service Commission approval)

PFAS LISTENING SESSION

6) Public Comment and Questions

- Virtual attendees: Please use the 'Raise Hand' Feature and we will unmute when it is your turn (Note: Attending via phone, dial *9 to raise hand)
- In-Person attendees: Raise your hand
- All: Please state your name and address for the record
- As the DNR always reminds us, **attack the problem, not the person**