
TOWNSHIP OF VERONA WATER ASSET MANAGEMENT PLAN



ESSEX COUNTY, NEW JERSEY

PROJECT No. 25VA108

Prepared by:



BOSWELL

EST 1924

Headquarters

330 Phillips Avenue

South Hackensack, New Jersey 07606

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Executive Summary

The Township of Verona owns and operates a public community water system (PWSID # NJ0720001) under a permit from the New Jersey Department of Environmental Protection (NJDEP). The Borough's distribution network spans approximately 49.89 miles of watermain comprising of various sizes. The water system also incorporates vital components, including wells, tanks, pump stations, interconnections, fire hydrants, and valves.

The Township of Verona's Department of Public Works (DPW) and Boswell, Inc. (Boswell) have developed this Asset Management Plan in compliance with the New Jersey's Water Quality Accountability Act (WQAA), codified in N.J.S.A. 58:31-7. The WQAA sets forth new mandates for public water providers, aimed at enhancing the safety, reliability, and oversight of water systems serving over 500 service connections. The WQAA requirements introduce a replacement cycle for watermains and comprehensive maintenance and replacement strategies for water supply and treatment facilities. The WQAA also specifies that the asset management plan shall guide the identification of high-priority assets, obligating water providers to allocate annual funds for the water system.

The Verona DPW maintains a series of Level of Service Goals to guide system operations. This Asset Management Plan serves as an effective tool for integrating technical, managerial, and financial strategies, ensuring the community receives the required level of service at a reasonable cost.

1.0 Introduction

1.1 System Background

The Township of Verona is predominantly a single-family residential community located in the Northern portion of Essex County, New Jersey. The Township is bordered by the Township of Cedar Grove to the north, the Township of Montclair to the east, the Township of West Orange to the south and the Borough of North Caldwell and the Borough of Essex Fells to the west.

The overall land area is approximately 1,792 acres (2.80 square miles) ranging in elevation from approximately 300 feet to 699 feet above mean sea level. The residential population of the Township is 14,441 people, according to the US Census.

The Township's distribution network serves approximately 14,000 customers. The water is obtained from two (2) sources, including two (2) groundwater wells and purchased surface water from the Passaic Valley Water Commission (PVWC) (PWSID NJ1605002). The water supply system is separated into two (2) pressure zones. The high-pressure zone is located within the southwest portion of the township, and the low-pressure zone encompasses the rest of the town.

1.2 Personnel

The Verona Water Department of Public Works (DPW) operates and maintains the water system. The DPW Building is located at 5 Ozone Avenue Verona, NJ 07044.

The staff directory is below:

Superintendent

Chuck Molinaro.....cmolinaro@veronanj.org

Licensed Water Treatment Operator

Stephen P. Lyons.....slyons@veronanj.org

Licensed Backup Water Treatment Operator

Thomas Feret.....tjferet@veronanj.org

James Straudinger.....jstaudinger@veronanj.org

1.3 Purpose and Scope

The Verona DPW and Boswell have developed this Asset Management Plan in full compliance with the WQAA. The WQAA specifies that asset management plans shall guide the identification of high priority assets and ensures annual maintenance funds are allocated to the water system. According to the Environmental Protection Agency (EPA), asset management is “a process water and wastewater utilities can use to make sure that planned maintenance can be conducted and capital assets (pumps, motors, pipes, etc.) can be repaired, replaced or upgraded on time and that there is enough money to pay for it.”

This Asset Management Plan outlines both the current and future strategies for managing the Township's water infrastructure. It encompasses a detailed system overview, Level of Service (LOS) goals, asset criticality assessment, operation and maintenance of the system, and Capital Improvements Plans.

1.4 Methodology

In order to develop an effective asset management plan, the current state of assets was established, to create clear priorities. To ensure compliance with the EPA and New Jersey Department of Environmental Protection's (NJDEP) Asset Management Technical Guidance and Best Practices, the Verona DPW, with the assistance of Boswell, have established a comprehensive asset management plan. The resulting plan will act as a tool to maintain and operate the Township's existing water system in an efficient manner that is consistent with industry standards. The five (5) components of the plan are as follows:

1. Asset Inventory and Conditions Assessment
2. Level of Service (LOS) Goals
3. Criticality and Prioritization
4. Life Cycle Cost
5. Long-Term Funding Strategy

2.0 Water Quality Accountability Act (WQAA)

The Water Quality Accountability Act was enacted by the New Jersey Department of Environmental Protection (NJDEP) on July 21, 2017, and became effective on October 19, 2017. The requirements of the WQAA are summarized below.

2.1 Asset Management Plan

The WQAA establishes the requirement of an Asset Management Plan to be submitted by the water purveyor annually. The Asset Management plan shall be designed in order to inspect, maintain, repair and upgrade critical infrastructure within the water system. The Asset Management Plan shall also address the system's water main renewal program, water supply and treatment program, and any other requirements as set by the NJDEP. Included in this plan shall also be the identification of improvements completed by the water purveyor over the past year, and expected improvements over the following 10 years.

2.2 Valve Inspection Program

Water purveyors shall inspect all valves within the water system in order to determine accessibility and operating conditions of the valve. Valves that are not found to be in proper working conditions shall be

repaired or replaced by the water purveyor. Valves 12-inches and larger shall be inspected every four (4) years. All other valves shall be inspected every eight (8) years. The valve inspection program does not apply to service connection valves or customer shut-off valves.

2.3 Hydrant Inspection Program

Water purveyors shall develop and implement a plan to inspect and flush all hydrants annually, in order to determine the working conditions of the hydrant. Water purveyors shall also flush all dead end watermains in accordance with the requirements of the WQAA. Inspection records, test records and flushing records shall be maintained by the water purveyor for a minimum period of 12 years.

Hydrants within the water system shall also be marked in order to easily identify ownership. Hydrants may be marked by a means of metal plate, paint, plastic, or any other durable material.

2.4 GPS/GIS Program

Water purveyors shall identify all critical assets and develop a numbering system for identification. Identified assets, including valves, hydrants, etc., shall be located by the water system utilizing a Global Positioning System (GPS), as standardized in N.J.A.C. 7:1D, Appendix A: Department’s General Practice and Procedure rules.

2.5 Cyber Security Program

Water purveyors shall develop a cyber security system that implements organization accountabilities and responsibilities for cyber risk management activities, and establishes proper procedures and plans for identifying and lowering the chances of cyber risk to the water system.

3.0 Drinking Water Sources

3.1 Sources

The Township of Verona’s water is sourced from Township owned water wells and treated surface water purchased from the PVWC. The Township of Verona owns and operates two (2) deep rock wells that are within the township limits—the Linn Drive Well and the Fairview Avenue well. The production of water obtained from these wells is limited by the State of New Jersey through the issuance of Water Allocation and Well Permits (Appendix A). These permits are intended to prevent a condition where the aquifer has more water withdrawn than can be supplied through the aquifer’s recharge system. Table 1 below summarizes the characteristics of the wells within the Township.

Table 1. Township of Verona well characteristics

Well Name	Well Permit No.	Maximum Withdrawal Rate (MG)		Drilling Completed	Finished Depth
		Per Month	Per Year		

Linn Drive	2646494	12.3	147	1997	690'
Fairview Ave	2646493	22.3	286	1997	520'

The Township of Verona’s well water is drawn from the Feltville aquifer. The bedrock geology of Verona falls under three (3) classifications:

1. Preakness Basalt - basalt, fine- to coarse-grained
2. Feltville Formation - sandstone, siltstone, silty mudstone, fine- to coarse-grained, and less abundant calcareous siltstone and mudstone, carbonaceous limestone
3. Orange Mountain Basalt - basalt, fine- to medium-grained

Due to high water demands, the Township also has a long-standing agreement for the yearly purchase of 280 MG of potable water, from PVWC (Appendix B). The agreement guarantees the purchase of water for a period of 25 years, and is valid through the year 2031. PVWC sources its water from two primary locations; The main supply comes from the Wanaque Reservoir in Wanaque, NJ, which is managed by the North Jersey District Water Supply Commission (NJDWSC). Additionally, PVWC operates the Little Falls Treatment Plant in Totowa, which draws water from the Passaic and Pompton Rivers.

3.2 Water Quality

The Township of Verona publishes their annual Consumer Confidence Report (CCR) on the Township’s website for their customers. The most up to date report is for the year 2025, presenting testing results from 2024.

The Township regularly tests their water supply for levels of Per- and Polyfluoroalkyl substances, also known as PFAS. PFAS is not found naturally and is derived from a group of man-made chemicals for industrial and commercial purposes. Due to an exceedance of the maximum contaminant levels for PFOA, in July 2021 both the Linn Drive Well and the Fairview Avenue Well were shut down for rehabilitation. In February of 2025, Verona completed rehabilitation of the Linn Drive Well, and will be moving forward with the rehabilitation of the Fairview Avenue Well. Table 2 and Table 3 summarize the results of contaminant levels within both wells over recent years. Testing was completed by Pace Analytical Services. Additional testing results are available to the public through NJDEP Drinking Water Watch.

Table 2. Testing results for Linn Drive Well

Contaminant	Collection Date	Results	Max Contaminant Level
Perfluorooctane Sulfonic Acid (PFOS)	12/22/2020	9.11 NG/L	13 NG/L
	12/4/2025	<0.002 UG/L	
Perfluorooctanoic Acid (PFOA)	12/22/2020	23.3 NG/L	14 NG/L
	12/4/2025	<0.002 UG/L	
Perfluorononanoic Acid (PFNA)	12/22/2020	<2 NG/L	13 NG/L
	12/4/2025	<0.002 UG/L	

Table 3. Testing results from Fairview Avenue Well

Contaminant	Collection Date	Results	Max Contaminant Level
Perfluorooctane Sulfonic Acid (PFOS)	12/22/2020	7.61 NG/L	13 NG/L
	6/30/2021	10.6 NG/L	
Perfluorooctanoic Acid (PFOA)	12/22/2020	20.4 NG/L	14 NG/L
	6/30/2021	33.5 NG/L	
Perfluorononanoic Acid (PFNA)	12/22/2020	<2 NG/L	13 NG/L
	6/30/2021	<2 NG/L	

4.0 Asset Inventory and Condition Assessment

As a part of the Conditions Assessment, the Township of Verona, with the assistance of Boswell, determined the most critical assets in relation to the operation of the utility. The condition of each asset was evaluated and graded on a scale of 0 to 5. The determination of an asset’s grade was based on the condition and age of the system component. See Table 4 below for the condition descriptions associated with each grade.

Table 4. Condition assessment grading scale

Grade	Condition Description
0	Abandoned: No longer in service
1	Very Good: Operable and well-maintained
2	Good: Superficial wear and tear
3	Fair: Significant wear and tear; minor deficiencies
4	Poor: Major deficiencies
5	Very Poor: Obsolete, not serviceable

Watermains and Distribution System

The Township of Verona owns and maintains approximately 49.89 miles of watermain, 403 hydrants, and 1,054 valves. Visual inspections of the watermains within the distribution system were not completed, and rather historical GIS data and input from the Verona DPW was utilized in order to determine the critical watermains within the system. A full inventory of watermains, hydrants, and valves can be found in Appendix C.

The Township of Verona Table 5 and Table 6 summarize material and size of the watermains within the system, respectively, based on the historical data.

Table 5. Watermain material data

Material	Linear Feet	Percentage within System (%)
DIP	34,762.82	13.20
DIP- Cement Lined	153,595.22	58.31
Galvanized	74.96	0.03
Unknown	74,972.06	28.46

Table 6. Watermain diameter data

Pipe Diameter (inches)	Linear Feet	Percentage within System (%)
2	6.02	0.002
4	173,222.52	0.53
6	39,711.08	65.76
8	13,150.16	15.08
10	23,609.02	4.99
12	143.94	8.96
16	143.94	0.05
18	1,976.95	0.75
24	10,190.29	3.87

According to the GIS data, the oldest recorded main within the Township is a portion of the 12-inch DIP located on Pompton Avenue, which was installed in the 1960's. This water main is currently at 66% of its useful life, and the Verona DPW has reported no current issues with the main itself. Currently all mains within the Township are within the minimum 150-year replacement cycle, per the WQAA guidance. Table 7 summarizes the installation dates of the watermains, based on historical data.

Table 7. Watermain installation dates

Installation Year	Linear Feet	Percentage within System (%)
Unknown	85724.45	32.54
1960's	455.48	0.17
1970's	300.36	0.11
1980's	133743.85	50.77
1990's	43180.91	16.39

Lead Service Lines

In July 2021, the NJDEP enacted the Lead Service Line Replacement Law, which requires community water systems to identify and replace all lead service lines within their systems by July 22, 2031. The law requires that each year, the water system replace at least 10% of the service lines that were identified as lead.

The Township of Verona is currently in the process of identifying and replacing lead service lines (LSL) within the Township, in order to meet the NJDEP replacement deadline. Since the start of Verona's

Lead Service Replacement program in 2022, the Township has identified a total of 1,034 LSLs, and has thus far replaced 12 of these lines. Please see Appendix D for a summary of the 2025 LSL submission to the NJDEP, by the Township of Verona.

Water Storage Tanks

The Township of Verona currently has five (5) water storage tanks operating within its system, three (3) of which are owned and operated by the Verona DPW and twin water towers which are shared by the Township with the Passaic Valley Water Commission (PVWC). The water storage tanks owned by the Township include the White Rock Tank, located on White Rock Road, the Claridge tank, located on Claridge Drive, and the Fairway Avenue Tank, located on Fairway Avenue. The twin storage tanks are located off of White Rock Road. The Township of Verona owns the property where these tanks are located, however PVWC owns and operated the storage tanks, themselves; Both and the Township and PVWC share the cost to maintain the tanks. Table 8 below summarizes the characteristics and capacity of each tank.

Table 8. Water storage tank characteristics

Water Storage Tank	Diameter (ft)	Height (ft)	Overflow Elevation (ft)	Capacity (MG)	Description
White Rock Tank	64	32	712	0.75	Painted steel reservoir
Claridge Tank	80	27	665	1.0	Painted steel reservoir
Fairway Avenue Tank	45	65	720	0.80	Painted steel standpipe
Twin Tanks	94	48	673	2.0 (each)	Painted steel reservoir. Function as one 4.0 MG tank, when both are in service.

A site visit and visual inspection of the water storage tanks was conducted on January 8, 2026. Internal and external inspections of all three (3) tanks were conducted in 2008 by Hatch Mott MacDonald and Mumford Bjorkman Associates. A secondary inspection of the Fairway Tank was conducted on November 1, 2017 (Appendix E). Based on this visual inspection and the inspection reports provided by the Township, the water storage tanks owned by the Township have been evaluated. The tanks appeared to be painted within recent years, and the Claridge Tank was noted to be power washed, annually.

All tanks have an underground valve vault. The Fairway Tank valve vault is located within a building, while the Claridge Tank and White Rock Tank valve vaults are not enclosed. The altitude valves for all three tanks were replaced in 2019 and are in good condition.

Table 9, below, summarizes the conditional assessment of the tanks. An inventory of assets for all tanks can be found in Appendix F.

Table 9. Tank condition assessment

Tank Name	Grade	Rating
White Rock Tank	2	Good
Claridge Tank	2	Good
Fairway Tank	2	Good

Interconnections

The Township of Verona’s water system consists of multiple emergency interconnections with various other municipalities and agencies, including Cedar Grove, Essex Fells, New Jersey American Water (NJAW) and PVWC. The Township of Verona has historically used these interconnections during emergency conditions, or to meet daily water demands during peak use seasons.

The Township currently has two (2) 6-inch interconnections with Essex Fells, located on Fells Road and Fellswood Drive. Both interconnections have not been utilized in recent years, and are recommended to be upgraded prior to putting back in service. The interconnection on Fells Road also includes a booster pumping station. Additionally, three (3) interconnections exist with Cedar Grove, located on Ozone Avenue, Bentley Road, and Woodland Avenue. The 8-inch interconnection with NJAW is located at the intersection of Forest Drive and Cunningham Avenue. The use of this interconnection is on an emergency basis, and the Township does not have a purchase agreement with NJAW.

The largest interconnection that the Township utilizes is with PVWC, which is an 18-inch interconnection located on Fairview Avenue. The Township has reported that this interconnection is consistently active, with more water being exchanged during peak summer months. The interconnection is fully maintained by PVWC.

A site visit was conducted on January 8, 2026, for the PVWC interconnection, the Essex Fells interconnections, and the Cedar Grove interconnection on Ozone Avenue. The interconnection on Fells Road was not accessible to the Verona DPW at this time. Additionally, since the PVWC interconnection is fully maintained by PVWC, access was restricted to the control system and sampling area. The interconnection vault on Ozone Avenue was observed to be filled with water during the time of the site visit. The vault does not have a sump pump to discharge water that enters the chamber, and it is recommended that a sump pump be added in order to avoid damage to the pipes and equipment inside the vault.

The Photo sheets from the site visit can be found in Appendix G.

Booster Pumping Station

The Claridge Drive booster pumping station is currently in construction and is expected to be active in late 2026. The booster pumping station will mainly serve The Claridges Private Residence Complex, as the apartments within this area had reported water pressure issues. The booster station will consist of two (2) centrifugal pumps, each rated for 1,000 gpm at 127 ft of total dynamic head (TDH), housed in a pre-fabricated building, with its own natural gas generator.

As the Claridge Drive booster pumping station will be new construction, it is expected that the pumping station will be in very good standing.

Wells

Linn Drive Well

The Linn Drive Well is located within the high service area of Verona. The rehabilitation of the Linn Drive Well facility was completed in February 2025. The upgrades to the system included the addition of an arsenic treatment system and ion exchange system. Upgrades to the existing piping within the main treatment room was also completed, including the replacement of deteriorated piping, valving, the sodium hypochlorite feed system and the orthophosphate feed system. The system was designed so that pumped water will first move through a cartridge filter, then to the ion exchange systems and lastly be transferred to the arsenic treatment room, prior to distribution. The Linn Drive Well discharges directly into the distribution system through an 8-inch DI pipe. The well also consists of the original booster pumps, and supplies water to the Fairway Avenue and White Rock Road water storage tanks. A backup generator is located on-site and also services the nearby Municipal Complex.

As a part of the well rehabilitation, the existing well pumps were removed and inspected. It was determined that the existing pumps were in good condition, and replacement was not necessary at this time.

Fairview Ave Well

The Fairview Avenue well facility is located in the wooded area off of Hillwood Terrace. In addition to the deep water well, the facility also treats volatile organic chemicals (VOCs) in the raw water with the use of a packed tower air stripper. Flow is then discharged into a clear well where it is treated with sodium hypochlorite and poly-orthophosphate. The well pump and motor were replaced in 2019.

As mentioned previously, the well is currently not in service due to exceeded PFAS levels, detected in 2021. The facility will be fully rehabilitated for PFAS treatment prior to re-opening for service.

A field visit was conducted at both wells on January 8, 2026. The conditions of both sites are summarized in Table 10 below. An inventory of assets for both wells can be found in Appendix F. The Photo sheets from the site visit can be found in Appendix G.

Table 10. Well condition assessment

Well Facility	Grade	Rating
Linn Drive	1	Very good: Operable and well maintained
Fairview Avenue	0	Currently not in service

5.0 Watermain Renewal Program

The NJDEP requires a watermain renewal program designed to achieve a 150-year replacement cycle for all watermains within a public community water system. As mentioned in Section 4.0 of this report, the watermains within the Township of Verona are well within the 150-year replacement standards, as the oldest watermain was recorded as being installed in the 1960's. However, the Township of Verona, with the assistance of Boswell, has identified watermains throughout the distribution system that require maintenance prioritization, based on inspection history and criticality to the public.

High-priority watermains throughout the Township were determined to be the watermains that connect the water storage tanks and wells to the remainder of the distribution system. These mains are listed below:

- 12-inch transmission main that spans between Fairview Avenue and Claridge Drive.
- 6-inch watermain on Oakridge Road that feeds the Fairway Tank.
- 12-inch main on Pompton Avenue acts as the main connection between the Claridge Drive storage tank and the rest of the distribution system.
- 8-inch watermain on Fairview Avenue.

Approximately 455 linear feet of the 12-inch watermain on Pompton Avenue was identified to be installed in the 1960s. Due to the criticality of this watermain to the public system, it is recommended that this watermain be inspected for any defects. Additionally, past inspections of the 8-inch watermain on Franklin Ave has displayed sufficient build-up within the pipe. Due to this, it is recommended that this watermain be replaced prior to the 150-year cycle length. The Verona DPW has also reported historic issues with valves within the system. Due to this, it is recommended that a valve exercising program be implemented and the subsequent replacement of valves that are not in working order.

6.0 Level of Service (LOS) Goals

To be effective, Level of Service (LOS) Goals must be measurable, realistic and time based. Current regulation should be a basis for the Goals, but the specified Level of Service Goals should enhance the performance of the utility. The goals should also allow the Township to track its performance and revise annually, if needed. The LOS Goals have been established as follows:

- Public Health and Safety – Meet all Federal Safe Drinking Water Act Primary Standards 100% of the time;
- Meet NJDEP drinking water standards 100% of the time;
- Complete all monitoring and reporting requirements of federal and state regulatory programs and reporting results via Consumer Confidence Report;
- Minimize customer complaints regarding color taste and odor;
- Customers will receive 24-hour notice for planned outages. Planned outages will last no longer than eight (8) hours per event;
- Non-revenue water (NRW) of 15% or less; and

- Resiliency during storm and emergency events, which includes minimal disruption of operations.

7.0 Criticality – Prioritization Assessment

71 Criticality Assessment Methodology

The Business Risk Exposure (BRE) rating system was adopted by the USEPA as an acceptable methodology in order to determine the level of risk and the criticality of infrastructure. The BRE methodology is based on an analysis of assets in order to determine their Probability of Failure (PoF) and Consequence of Failure (CoF). The BRE rating ranges from a score of 1 through 25 and is based on the following equation:

$$BRE = PoF \times CoF \quad (Eq. 1)$$

Different assets have different PoF and CoF. Table 11, below, summarizes the factors used to determine the PoF and CoF for each asset.

Table 11. Considerable factors for PoF and CoF determination

Asset	Probability of Failure	Consequence of Failure
Hydrant	Age, condition, routine maintenance done, frequency of use	Inability to fight fire – loss of property, life; inability to flush system
Pumps	Useful life, condition, maintenance history; Vibration; Properly designed	Inability to provide water; Cost of Failure; Health concerns
Well	Age, condition, installation, maintenance	Inability to provide water; Cost of failure; Health concerns
Water Storage Tank	Age, condition, inspection, maintenance, location, size	Health concerns, inability to provide water or pressure, cost of failure, environmental concerns
Valve	Age, condition, maintenance	Pressure concerns, inability to isolate lines, maintenance concerns
Treatment	Useful life, condition, chemical supply available, frequency of inspection	Health concerns, time to repair, notice of violation

The PoF and CoF are graded on scales from 1 through 5. Non-routine service history can be used to determine the Probability of Failure, as graded, below.

Table 12. Probability of failure grading scale

Grade	Level	Condition Description
5	Occurs regularly	Monthly or greater frequency
4	Occurs quarterly	About 4 times a year
3	Occurs annually	About once a year
2	Could occur on rare occasions	Every 2-5 years
1	Could occur very rarely	Exceptional event

In order to determine the CoF, the factors including loss of life, destruction of property, environmental damage, time asset is out of service, and possible recovery are evaluated. Consequence of Failure is rated utilizing the grading system as noted, below.

Table 13. Consequence of failure grading scale

Grade	Condition Description
5	Catastrophic failure, death, extreme financial loss
4	Severe service impact (3 months to recover), severe injury, major financial impact
3	Service interruption (recoverable in one month), moderate financial impact
2	Minor service upset, minor financial impact
1	No injury, very minor service implication or financial loss

Assets with relatively lower likelihood and consequences of failure are less critical and of lower priority, in relation to other assets in the overall inventory. A ranking table (Table 14) was utilized to assess criticality. The rows and column used best match the ranking for both probability and consequence. The assigned risk is where the two intersect.

Table 14. BRE rating scale

		Consequence of Failure				
		How severe could the outcome be if the risk event occurred?				
		1	2	3	4	5
		Insignificant	Minor	Significant	Major	Severe
Probability of Failure	5 Almost Certain	5 Medium	10 High	15 Very High	20 Extreme	25 Extreme
	4 Likely	4 Medium	8 Medium	12 High	16 Very High	20 Extreme
	3 Moderate	3 Low	6 Medium	9 Medium	12 High	15 Very High
	2 Unlikely	2 Very Low	4 Low	6 Medium	8 Medium	10 High
	1 Rare	1 Very Low	2 Very Low	3 Low	4 Medium	5 Medium

7.2 Critical Assets

Utilizing the criticality assessment methodology described above, the well facilities, tanks, and pumping station within the Township were evaluated in order to determine their criticality ratings. A summary of the average POF, COF, and BRE for each asset is described in Table 15, below.

Table 15. Average criticality ratings for water assets

Asset	Average PoF	Average CoF	Average BRE
White Rock Road Storage Tank	2.33	3.17	7
Claridge Drive Storage Tank	2.67	3.33	8.67
Fairway Avenue Storage Tank	2.67	3	7.83
Linn Drive Well Facility	1.88	2.63	5.13
Fairview Avenue Well Facility	1.5	2.17	3.17

The Claridge Drive water storage tank was identified to be the most critical asset within the Township of Verona's water system. This tank serves approximately $\frac{3}{4}$ of the Township, and therefore the disruption of this asset can lead to severe service interruptions for the Township.

Although not officially rated utilizing the BRE methodology due to limited access, the PVWC interconnection was also identified to be a critical asset due to its prevalence within the system, and its status as the main source of water for the Township. The watermains described in Section 5.0 of this report have also been identified as critical distribution lines. Once again, those watermains were identified to be as follows:

- 12-inch transmission main that spans between Fairview Avenue and Claridge Drive.
- 6-inch watermain on Oakridge Road that feeds the Fairway Tank.
- 12-inch main on Pompton Avenue acts as the main connection between the Claridge Drive storage tank and the rest of the distribution system.
- 8-inch watermain on Fairview Avenue.

7.3 Vulnerabilities

The Township of Verona's critical assets were evaluated for vulnerability to both short- and long-term hazards. The Township is located inland and therefore is not susceptible to shoreline hazards such as coastal erosion or storm surge. The Peckman River flows through the Township, creating localized hazards due to fluvial flooding within the Township, however the Claridge Drive water storage tank and PVWC interconnection are not located within mapped flood hazard areas and are therefore not subject to flood hazards.

Potential short-term vulnerabilities include severe weather events such as high winds and heavy precipitation. The Claridge Drive storage tank is located near a wooded area, and is susceptible to damage due to fallen trees and/ or utility poles. Long-term hazards include climate change-related factors such as temperature variability and increased storm intensity, which may contribute to accelerated corrosion of the underground piping of the storage tank's transmission main, and the interconnection.

Both assets are also subject to risks associated with fire, vandalism, and other malevolent acts, including unauthorized access or damage, though these risks are mitigated through secure site access and routine monitoring.

8.0 Life Cycle Costs

8.1 Operation and Maintenance (O&M) Program

Overall, the DPW is taking proactive measures to maintain the good standing of the distribution system, and have performed regularly scheduled maintenance to their critical assets to help prevent unexpected breaks and emergencies. The Township currently has an O&M budget of \$1,714,325.00 for

the year 2026, in which \$347,500 is dedicated to overall Township maintenance. Previously, for 2025, the O&M budget was \$1,574,325.00 and the Township of Verona’s DPW was able to complete all maintenance work while staying within this budget.

With the addition of the treatment units at the Linne Drive Well Facility, it is important to note that additional maintenance will be required in order to ensure the systems are properly functioning. The Township of Verona has accounted for media replacement for both vessels within their 2025 and 2026 O&M budget, however the replacement of media was not necessary during the 2025 operating year. Boswell has estimated the replacement and maintenance costs for these systems, over the next 5 years. The estimated O&M cost for the two (2) ion exchange vessels and two (2) arsenic vessels over this time period is estimated to be \$794,000.00.

8.2 Non-revenue water

As per N.J.A.C. 7:19-6.2, non-revenue water (NRW) is defined as “the component of system input volume that are not billed and produce no revenue.” Non-revenue water is critical to identify because it can lead to the identification of deficiencies or leaks within the system.

The amount of non-revenue water within the Township’s system was calculated for the year 2025, utilizing the billed water usage and purchased water from PVWC. The non-revenue water was calculated as follows:

$$NRW(\%) = \frac{\text{Purchased water [gal]} - \text{Water Billed [gal]}}{\text{Purchased Water [gal]}} * 100$$

The non-revenue water for 2025 was calculated to be **9.58%** of total water purchased. Since 2023, the Verona DPW have kept record of watermain breaks and within the system and the amount of water lost due to these disruptions. The Verona DPW has noted that breaks have occurred on Franklin Street, with one (1) main break occurring in both 2023 and 2024. A summary of the water breaks, per year, are summarized in Table 16, below. The full log can be found in Appendix H.

Table 16. Historical watermain breaks

Year	Number of Breaks Reported	Water Lost (gal.)
2023	7	30,000
2024	8	25,000
2025	12	37,000

8.4 Energy Consumption

Energy sources used in the operation of the Township’s water system assets were evaluated to determine the yearly energy consumption for each water component, throughout 2025. All electrical energy for the assets is sourced from Public Service Electric and Gas (PSE&G). Additionally, both the Linn Drive Well and the Fairview Avenue Well are equipped with a backup generator, and the Claridge

Drive booster pumping station will be equipped with a natural gas generator. Table 17 summarizes the total kWh used by each asset throughout the year.

Table 17. Energy consumption for 2025

PSE&G ID	Energy Consumption (kWh)
WATER #493 - 150 FAIRVIEW	0
LINN DRIVE PUMP	368,352
WATER #493 - 49 FELLS	0
FELLS PUMP	11,150
FAIRVIEW PUMP	29,440
WATER #493 - 117 FAIRWAY	21,149
WATER #493 - POMP& CLAIR	2,921
WHITE ROCK RD- WTR	7,550

9.0 Capital Improvement Plan

The Township of Verona has demonstrated a proactive commitment to maintaining and improving the water infrastructure within the Township. The following section summarizes recent capital improvements completed by the Township, as well as outlines anticipated Capital Improvement projects. The anticipated projects described below reflect both immediate priorities as well as longer-term planning objectives over the next 1 to 5 years, and will continue to be evaluated based on the needs of the system.

9.1 Recent Capital Improvements

Over recent years, the Township of Verona has made significant investments in its water infrastructure, in order to improve system reliability and service to its residents. Recent Capital improvements include the completed upgrades to the Linn Drive Well, which included new ion exchange and arsenic treatment vessels. Two additional system upgrades have also completed design and are anticipating construction in the near future: the Claridge Drive booster pumping station and the Fairview Avenue Well. All three of these projects are financed through external funding sources.

9.2 Planned Capital Improvements

The following section outlines the Township’s planned Capital Improvements, organized by priority and implementation timeline. The projects have been categorized by year to address the most critical needs first.

The following projects have been designated first priority and will be completed in **Year 1**:

GPS/GIS Asset Inventory Mapping

The Township of Verona is planning to conduct inventory mapping of water service inventory throughout the Township, in order to update their existing historical data. Inventory mapping will include the GPS locating of water service assets including valves, hydrants, and the locations of tanks,

interconnection, wells, etc. During this inventory mapping, inventory identification numbers will be updated, as needed.

Survey	\$ 18,000
<u>GIS Mapping</u>	<u>\$ 8,000</u>
Total	\$ 26,000

Verona-Montclair Interconnection Study

The Township of Verona, with the assistance of Boswell, is currently conducting a feasibility study for the design and construction of a new permanent interconnection between the Township of Verona and the Township of Montclair. The interconnection would be located at the intersection of Claremont Avenue and Crestmont Road, and will be utilized on an emergency basis, and to improve the water system's resiliency.

<u>Feasibility Study</u>	<u>\$ 25,000</u>
Total	\$ 25,000

Franklin Street Water Main Improvements

Boswell has prepared a proposal for the Township of Verona, to rehabilitate the Franklin Street Pedestrian Bridge, which crosses over the Peckman River. In conjunction with this bridge rehabilitation, approximately 100 linear feet of 6-inch water main and 100 linear feet of 12-inch water main, that crosses underneath the river will also be replaced.

Construction Cost, Lower Water Main in Peckman River	\$ 321,500
20% Contingency	\$ 64,300
Subtotal	\$ 385,800
<u>Engineering and Inspection</u>	<u>\$ 64,300</u>
Total	\$ 450,100

Lead Service Line Replacement Program Phase 1

In accordance with the NJDEP's Lead Service Line Replacement Law, the Township of Verona will conduct test pits at the locations of unknown service line materials, and perform replacements of identified lead service lines. Due to the widespread impact of the lead service line replacement program, this improvement has been broken into two (2) phases. It is anticipated that an application for NJIB funding will be completed for both phases. It is important to note that NJIB funding for drinking water only includes the costs of trench restoration, and full road restoration is not included in the construction cost for the lead service line replacements. The full cost estimate for the Phase 1 Lead Service Line Replacement Program can be found in Appendix I.

Construction Cost, Lead Service Line Replacement Ph. 1	\$ 1,757,000
15% Contingency	\$ 263,600
Subtotal	\$ 2,020,600
<u>Engineering and Inspection</u>	<u>\$ 352,000</u>
Total	\$ 2,372,600

The following project is planned to be completed during **Year 2**:

Lead Service Line Replacement Program Phase 2

Phase 2 of the Lead Service Line Replacement Program includes both the identification and replacement of the remaining lead service lines throughout the Township. As previously mentioned, NJIB funding for drinking water only includes the costs of trench restoration, and full road restoration is not included in the construction cost for the lead service line replacements. The full cost estimate for Phase 2 Lead Service Line Replacement Program can be found in Appendix I.

Construction Cost, Lead Service Line Replacement Ph. 2	\$ 1,757,000
15% Contingency	\$ 263,600
Subtotal	\$ 2,020,600
<u>Engineering and Inspection</u>	<u>\$ 352,000</u>
Total	\$ 2,372,600

Fairview Avenue Watermain Replacement

Due to the deteriorating condition of the existing 8-inch watermain located on Fairview Avenue. The 8-inch line spans approximately 2,400 feet, from Franklin Street to Durell Street. This replacement is intended to improve the hydraulic capacity of the watermain, as well as reduce the risk of failures to this main.

Construction Cost, Fairview Avenue Watermain	\$ 972,500
15% Contingency	\$ 145,900
Subtotal	\$ 1,118,400
<u>Engineering and Inspection</u>	<u>\$ 194,500</u>
Total	\$ 1,312,900

The following project is planned to be completed during **Year 3**:

Valve Exercise and Replacement Program

The Township of Verona currently has 1,054 valves within the watery system, ranging in size from 2” to 12”. Assuming 20% will be replaced when exercised, 211 valves will be included in the replacement program.

Construction Cost, Valve Replacement	\$ 1,356,000
15% Contingency	\$ 203,400
Subtotal	\$ 1,559,400
<u>Engineering and Inspection</u>	<u>\$ 271,200</u>
Total	\$ 1,830,600

The following project is planned to be completed during **Year 4**:

SCADA Upgrades

The Township of Verona’s water system includes a SCADA system, in which the main control system is located at the DPW building at 5 Ozone Avenue, Verona NJ. The current system is as manufactured by Bristol Babcock, and has not been recently upgraded. The township is expecting to upgrade the SCADA control system within the next 5-6 years.

Construction Cost, SCADA Upgrade	\$ 50,000
<u>15% Contingency</u>	<u>\$ 7,500</u>
Total	\$ 57,500

9.3 Long Term Funding Strategies

Funding for the capital improvement plan can be from two (2) sources, including internal and external funding. Internal funding can be derived from user rates, and external funding can be from loans, such as the New Jersey Infrastructure Bank (NJIB), or grant programs. Internal funding consists of funds generated by the Township for capital improvement projects, through means such as billing rates and service charges. Projects that are externally funded and are at least \$1 million in construction costs must utilize the WISE Calculator on the IBank website to prepare a Financial Cost Estimate (FCE) Report. The FCE compares costs between financing the project through the NJIB versus internal funding.

NJIB publishes updated funding packages for each fiscal year, designating loan and principal forgiveness amounts, based on project type. The Potential SFY 2027 Drinking Water State Revolving Fund (SRF) Funding Packages and Principal Forgiveness can be found in Appendix J of this report.

9.4 User Rates

Under the 2024 Water and Sewer Rate Study completed by NewGen Strategies and Solutions, LLC (NewGen), the projected water and sewer rates necessary to maintain the financial and operational health of the Township of Verona's Water and Sewer fund were determined (see Appendix K).

NewGen utilized the Township's 2023 fiscal year operating budget, ten-year capital spending plan, and relevant escalation factors to project the future system costs for the subsequent five fiscal years. The study was designed to maintain a minimum of 90 days for both the Water and Sewer Fund operating costs and Pay As You GO (PAYGO) capital improvements in the Township's Water and Sewer Fund cash reserves. The study also focused on the anticipated impact of the PFAS well upgrades expected to be completed by the end of the 2025 fiscal year. However, as of January 8, 2026, the Linn Drive Well is fully operational while the Fairview Avenue Well remains not in service.

Following the 2024 study, NewGen indicated that the Townships' 2023 fiscal year Water and Sewer Fund balance fell below their recommended minimum policy, meaning the existing water and sewer rates would not sufficiently maintain the operation of the Township's utility systems over the following five years. NewGen noted an expected decrease in water production costs with an increase in future debt service costs from the proposed well improvements in the 2025 fiscal year as well as a depletion in the Township's Water and Sewer Fund cash reserves by the 2024 fiscal year.

Two scenarios were developed during the study to produce a sustainable future Water and Sewer Fund. Both scenarios included the following parameters: the elimination of the current effective water "capital surcharge" of \$1.00 per Kgal effective on April 1 of the 2024 fiscal year, the increase in volumetric water rates to account for increased costs of the water system, and the implementation of a fixed quarterly PFAS surcharge in the 2025 fiscal year to cover debt service and additional operating costs related to the PFAS well upgrades. The difference between scenarios lies in the application of the PFAS surcharge to water customers with scenario one applying the surcharge on a per account basis and scenario two applying the surcharge based on account meter size and capacity demands. Under both recommended scenarios, the Township of Verona's Water and Sewer Fund is expected to achieve the recommended fund balance by the end of the 2026 fiscal year.

The Township of Verona will be conducting a new rate study and it is expected to be updated at the end of 2027.

Appendix A. Water Allocation and Well Permit

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAIL CODE 401-04Q
DIVISION OF WATER SUPPLY & GEOSCIENCE
BUREAU OF WATER ALLOCATION & WELL PERMITTING
P.O. BOX 420
TRENTON, NEW JERSEY 08625-0420
(609) 984-6831



WATER ALLOCATION PERMIT APPLICATION
RENEWALS

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS APPLICATION FORM.
Provide all requested information, as applicable.

A. LOCATION AND PROPERTY INFORMATION

The Department is now maintaining a single database of regulated sites. The following information will prevent unnecessary duplication of data.

1. ACTUAL DIVERSION LOCATION

Name of Facility Application is for (For facilities pending or under construction, please use the proposed facility name)

TOWNSHIP OF VERONA

Street Address/Location (or nearest cross streets if no address is available; P.O. Boxes are not acceptable)

600 BLOOMFIELD AVE

City or Town VERONA State NJ Zip Code 07044+

Municipality VERONA Does the Facility span multiple municipalities? Yes No

County ESSEX Does the Facility span multiple counties? Yes No

2. PROPERTY/LAND OWNERS(S) INFORMATION

Name TOWNSHIP OF VERONA Telephone (973) 857-4767

Mailing Address 600 BLOOMFIELD AVE

City or Town VERONA State NJ Zip Code 07044+

Organization Type: Authority/District/Commission Municipal County State
(Check one) Commercial/Industry Individually Owned Utility Corporation
 Investor (Non-BPU) Investor (BPU) Other _____

3. APPLICANT/OPERATING ENTITY(IES)

Name TOWNSHIP OF VERONA Telephone (973) 857-4843

Mailing Address 10 COMMERCE CT.

City or Town VERONA State NJ Zip Code 07044+

Fax 973 239-7837 E-Mail address JSONTAG@VERONANJ.ORG

CONTACT INFORMATION

Application Contact (contact at the above address for all application matters):

If an agent has been authorized under the certification section of the application to act as the agent/representative in all matters pertaining to the application, please check here:

If an agent has not been authorized, provide an Application Contact:

Name PAUL J. SONTAG Telephone (973) 857-4843

Report Form Recipient/Permit Contact (contact at the above address for permit information and monitoring reports):

Name PAUL J. SONTAG Telephone (973) 857-4843
 Title BACK UP OPERATOR Department WATER DEPT.

4. RESPONSIBLE ENTITY/ORGANIZATION

If the responsible organization is the Applicant located in No. 3 above, check here:

If the responsible organization is different from the Applicant in No. 3 above, complete the following:

Organization Name _____ Telephone () _____

Mailing Address _____

City or Town _____ State _____ Zip Code _____ + _____

Fax () _____ E-Mail _____

- Organization Type: Authority/District/Commission Municipal County State
 (Check one) Commercial/Industry Individually Owned Utility Corporation
 Investor (Non-BPU) Investor (BPU) Other _____

5. BILLING CONTACT

Billing should go to mailing address of:

- Responsible Entity/Organization address in No. 4 Applicant/Operating Entities address in No. 3

Name PAUL J. SONTAG Telephone (973) 857-4843

6. OTHER PERMITS/AGENCIES

Provide the following for any other state, local or federal permit that has been applied for in relation to this project.

Permit Type	Application No./ Permit No./Relevant DEP No.	Application Date	Application Status
● Water Quality Management Plan Amendment	APPLIED FOR THROUGH LEAD AGENCY - ESSEX COUNTY		
● Safe Drinking Water System/Potable Water Supply Well or Intake	264693 + 2646494	12/2000	APPROVED
● Hazardous Waste Management Program	N/A		
● Land Use Permits (Freshwater Wetlands, etc.)	N/A		
● Relevant Environmental Permits – Including Federal, State, & Local Approvals – Specify:	N/A		

Is the project located within the New Jersey Pinelands Area? ___ Yes No

If this application includes a new source of supply, which is located in the New Jersey Pinelands Area, or is for an increase in allocation, then a Certificate of Filing from the New Jersey Pinelands Commission must be submitted with the application. The Pinelands Commission can be contacted at (609) 894-7300.

Is the project located in the Delaware River Basin? ___ Yes No
If Yes, has a docket been issued for this project by the Delaware River Basin Commission?
___ Yes Docket No. _____
___ No Docket applied for on _____ (Date)
The Delaware River Basin Commission can be contacted at (609) 883-9500.

B. CERTIFICATIONS

In cases where the official required to sign Certification 1 below is the same person as the official required to sign the Certification 2 below, only Certification 1 need be signed. In all other cases, both certifications shall be completed.

1. HIGHEST RANKING INDIVIDUAL OF FACILITY

This certification is to be signed by the highest-ranking individual at the facility with overall responsibility for that facility.

I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment.

8/19/21
Date

[Signature]
Signature
Charles Malinau Jr
Name (please print)
Superintendent DEP
Title

2. HIGHEST RANKING INDIVIDUAL

This certification shall be signed as follows:

- (a) For a corporation, by a principal executive officer of at least the level of vice president; or
- (b) For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- (c) For a municipality, State, Federal or other public agency, by either the principal executive officer ranking elected official.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including the possibility of fines and/or imprisonment.

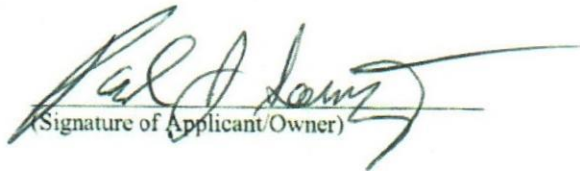
8/19/2021
Date

[Signature]
Signature
Matthew Cavallo
Name (please print)
Township Manager
Title

3. APPLICANT'S AGENT (IF APPLICABLE)

I, the Applicant/Owner PAUL J. SONTAG or Applicant/Operator (when the owner of the facility and the operator of the facility are distinct parties) _____ or Co-permittee (if applicable) _____ authorize to act as my agent/representative in all matters pertaining to my application the following person:

Name MICHAEL J. LYONS Phone 732-566-0038
Company/Employer LYONS ENVIRONMENTAL SERVICES, LLC
Address 1105 GREEN GROVE RD. County MONMOUTH
City or Town NEPTUNE State NJ Zip Code 07753
Occupation/Profession CEO


(Signature of Applicant/Owner)

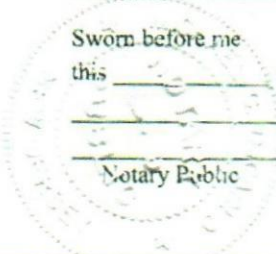
(Signature of Applicant/Owner)

(Signature of Co-permittee)

AGENT'S CERTIFICATION

Sworn before me
this _____ day of _____
20 _____

Notary Public



I agree to serve as agent for the above mentioned applicant


(Signature of Agent)

MICHAEL C. DeCARLO
NOTARY PUBLIC OF NEW JERSEY
Commission ID: 50147445
My Commission Expires Jan. 6, 2026

4. STATEMENT OF PREPARER OF PLANS, SPECIFICATIONS, SURVEYORS OR TECHNICAL REPORT (IF APPLICABLE)

I hereby certify that the engineering plans, specifications and engineer's report applicable to this project comply with the current rules and regulations of the State Department of Environmental Protection with the exceptions as noted.

(Signature of Engineer)

Type: Name and Date

Position, Name of Firm

PROFESSIONAL ENGINEER'S
EMBOSSSED SEAL

C. REQUIRED SUBMITTALS/ APPLICATION ATTACHMENTS

Check to ensure the following are included with the application:

Included		
<input checked="" type="checkbox"/>	1.	Proof of Meter Calibration for each source
<input checked="" type="checkbox"/>	2.	Water conservation and Drought Management Plan <i>If not required, please indicate why:</i> _____
<input type="checkbox"/>	3.	Information supporting Future Demands Projections listed in Section E.1.
<input type="checkbox"/>	4.	Send a PDF version of this application and attachments to: waterallocation@dep.nj.gov

D. DIVERSION REQUEST AND DIVERSION SOURCE INFORMATION

This application is for:

Renewal of existing Permit No. 5832 Activity No. (if known) N/A

1. Present Allocation:

a. Groundwater: 34.6 million gallons of water per month at a maximum rate of 775 gallons per minute.

Please note the present Aquifer Specific Allocation:

Aquifer/Formation Name	Present Allocation (million gallons)	
	Per Month (mgm)	Per Year (mgy)
<u>FELIXVILLE FORMATION/BRUNSWICK GROUP</u>	<u>34.6</u>	<u>365</u>

b. Surface water: 0 million gallons of water per month at a maximum rate of 0 gallons per minute.

c. All sources: 34.6 million gallons of water per month at a maximum rate of 775 gallons per minute.

d. All sources: 365 million gallons of water per year.

Note: Monthly allocations are established based upon the maximum withdrawal expected during any one month (31 days) of the calendar year.

2. Diversion to be used for PUBLIC WATER SUPPLY

3. Complete the following for each diversion source:

a. Groundwater (wells)

State Well Permit No. (mandatory)	Well Local Name	Location Description	Existing (E) Proposed (P)	Proposed Maximum Withdrawal Rate (million gallons)	
				Per Month	Per Year
<u>2646493</u>	<u>FAIRVIEW WELL A</u>	<u>FAIRVIEW</u>	<u>E</u>	<u>22.3</u>	<u>286</u>
<u>2646494</u>	<u>LINN DR. WELL B</u>	<u>LINN DRIVE</u>	<u>E</u>	<u>12.3</u>	<u>147</u>

¹ If source specific surface water allocations are requested, please attach requests as necessary.

b. Groundwater (continued from previous page)

State Well Permit No. (mandatory ¹)	Well Local Name	Location Description	Existing (E) Proposed (P)	Proposed Maximum Withdrawal Rate (million gallons)	
				Per Month	Per Year

b. Surface water (streams, reservoirs, ponds) N/A

Intake Subject Item Identification No. ²	Intake Local Name	Location Description	Existing (E) Proposed (P)	Proposed Maximum Withdrawal Rate (million gallons)	
				Per Month	Per Year

4. Complete Addendum A and B for each diversion source.

E. WATER USE

1. The current and projected average and peak water demands in million of gallons for 5 year intervals are as follows:

WATER DEMAND	AVERAGE DEMAND			PEAK DEMAND	
	Daily	Monthly	Annual	Daily	Monthly
Current Demand	1.264	38.451	461.409	1.780	55.165
5 Year Projections	1.35	40.0	480.0	1.850	57.0
10 Year Projections	1.38	41.0	485.0	1.900	58.0
15 Year Projections	1.40	42.0	490.0	1.950	59.0

¹ State Well Permit No. is mandatory for existing wells (see instructions).

² Intake Subject Item Identification No. is the identification number assigned to the intake by the DEP. For existing, approved sources, this number can be found on the Pre-Printed Monitoring Report Forms or the existing permit.

2. Present annual average water use:

WATER USE	Self Supplied		Other Sources (mgd)	Total (mgd)	Estimated Consumptive Use ¹ (%)
	Ground (mgd)	Surface (mgd)			
Domestic Supply	0.742	0	0.593	1.335	92.7
Industrial Process	0	0	0	0	0
Industrial Cooling	0	0	0	0	0
Irrigation	0	0	0	0	0
Commercial	0.058	0	0.047	0.105	7.3%
Remediation	0	0	0	0	0
Other	0	0	0	0	0
Total Water Use	0.800	0	0.640	1.440	100%

¹ Consumptive use is water withdrawn that is not returned to the surface or ground waters at or near the point from which it was taken without substantial diminution in quantity or substantial impairment of quality.

3. The water, after use for above purposes stated in D.2., will discharge into VERONA WASTEWATER FACILITY (Name of Stream, Sewage System, or Subsurface Disposal System). For wastewater discharged directly by the facility or via a sewerage system to treatment plant, provide the location of the plant and its NJPDES Permit Number. Location: 10 COMMERCE CT, VERONA, NJ 07044
 NJPDES Permit No. NJ0024490
4. For non-potable diversions, what is the source of water for sanitary use? N/A

F. IRRIGATION

Complete if water is to be used for irrigation purposes.

1. Check to ensure the following is included: N/A
- | Included | |
|--------------------------|---|
| <input type="checkbox"/> | Attach a diagram of the irrigation system piping between the diversion sources, any storage ponds and wet wells, up to the irrigation system distribution piping. Include the position of all water meters. |
2. Irrigation is to be used for (e.g. golf course, landscape, grounds maintenance)

3. Describe the types of grasses, acreage and maximum need for each in extreme dry weather, in gallons per week.

4. Describe the irrigation system (type, capacity of nozzles in gpm, maximum number of nozzles operating at one time, average and maximum irrigation time in hours per day, how diversion is metered, how the ponds are fed.)

5. Is there any treated wastewater used for irrigation? ___ Yes ___ No

G. PUBLIC WATER/SUPPLY SYSTEMS

Complete only if diversion is for public water supply.

1. Population

- a. Population supplied at the time of application: 13,822
- b. Provide source or basis as to how figure in 1a. was determined: CENSUS
- c. The population supplied is projected to be 13,950 by the year 2021. The method used to calculate the population is (or include in attached report): ON GOING

2. Estimated Consumption (average day of maximum month (MGD)):

- a. Immediate 1.264
- b. Future (1.350 years) 2025

3. Quantity or percentage of water supplied during the last calendar year for the following:

	Annual	Maximum Month	
Total	<u>461.409 MG</u>	<u>55.165 MG</u>	
Domestic	<u>373.741</u>	<u>44.684</u>	
Commercial	<u>50.755</u>	<u>6.068</u>	
Industrial	<u>0</u>	<u>0</u>	
Other	<u>36.913</u>	<u>4.413</u>	<u>MUNICIPAL</u>

4. Quantity or percentage of unaccounted-for water (as defined by N.J.A.C. 7:19-6.2): _____ for 2020 (Year), of a total water production of 461.409 million gallons.

5. Number of Service Taps: Domestic 3966 Commercial and Industrial 279
 Number of Meters: Domestic 3966 Commercial and Industrial 279

6. Capacity of Plant (gallons daily) 1,120,000

7. Total System Storage (million gallons) 6.55

8. The following is required for all Public Water Supply Applications:

Included	
<input type="checkbox"/>	a. Provide a list of all contracts with other municipalities or water companies to supply or purchase water. Provide copies of the all contracts not previously approved by the Bureau.
<input type="checkbox"/>	b. List of municipalities to be supplied . Submit a map of the service area when not restricted by established municipal limits. (If not submitted previously.)
<input type="checkbox"/>	c. List of all interconnections , size of each interconnection, and the water system serviced.
<input type="checkbox"/>	d. Other drawings and information deemed pertinent.

**ADDENDUM A
SOURCE DATA FOR GROUNDWATER (WELLS)**

Complete Well information for all existing and proposed sources. This information is mandatory. Refer to instructions for acceptable values. Please reference the same State Well Permit Numbers and Well Names as referenced in Section D of the application. Attach additional copies of addendum as needed.

State Well Permit No.	2646473	State Well Permit No.	2646474
Well Local Name	FAIRVIEW AVE WELL A	Well Local Name	LINN DRIVE WELL B
Date Drilled	5/12/1997	Date Drilled	5/12/1997
Total Finished Depth (feet) (include tailpiece if any)	520'	Total Finished Depth (feet) (include tailpiece if any)	690'
Depth to Top of Open Hole Interval or Screen (feet)	95'	Depth to Top of Open Hole Interval or Screen (feet)	50'
Depth to Bottom of Open Hole Interval or Screen (feet)	520'	Depth to Bottom of Open Hole Interval or Screen (feet)	690'
Rated Pump Capacity (gpm)	500	Rated Pump Capacity (gpm)	275
Yield (gpm)	500	Yield (gpm)	275
Aquifer/Geological Formation	FELTSVILLE BRUNSWICK GROUP	Aquifer/Geological Formation	FELTSVILLE BRUNSWICK GROUP
Elevation Information:		Elevation Information:	
Site Elevation	470.5	Site Elevation	487.0
Elevation System Description	FEET ABOVE SEA LEVEL	Elevation System Description	FEET ABOVE SEA LEVEL
Elevation Method Description	PLOT PLAN	Elevation Method Description	PLOT PLAN
Absolute Elevation Accuracy	+/- 0.5'	Absolute Elevation Accuracy	+/- 0.5'
Absolute Elevation Accuracy Units (feet or meters)	FEET	Absolute Elevation Accuracy Units (feet or meters)	FEET
Locational Information:		Locational Information:	
X coordinate (e.g. Longitude) of well center	561417	X coordinate (e.g. Longitude) of well center	559307
Y coordinate (e.g. Latitude) of well center	731864	Y coordinate (e.g. Latitude) of well center	729476
Coordinate System Code and Description	01	Coordinate System Code and Description	01
Coordinate Method Description	EXACT ADDRESS MATCH	Coordinate Method Description	EXACT ADDRESS MATCH
Absolute Location Accuracy	10'	Absolute Location Accuracy	10'
Accuracy Units (feet or meters)	FEET	Accuracy Units (feet or meters)	FEET

ADDENDUM B

SOURCE DATA FOR SURFACE WATER (STREAMS, RESERVOIRS, PONDS)

Complete Intake information for all existing and proposed sources. This information is mandatory. Refer to instructions for acceptable values. Please reference the same Source Intake ID and Intake Local Name as referenced in Section D of the application. Attach additional copies of addendum as needed:

Source Intake SI ID (if already permitted)		Source Intake SI ID (if already permitted)	
Intake Local Name		Intake Local Name	
Rated Pump Capacity (gpm)		Rated Pump Capacity (gpm)	
MA7CD10 (cfs) at intake opening		MA7CD10 (cfs) at intake opening	
Requested Passing Flow (cfs)		Requested Passing Flow (cfs)	
Surface Water Quality Classification		Surface Water Quality Classification	
Drainage Area Above Intake (square miles)		Drainage Area Above Intake (square miles)	
Locational Information:		Locational Information:	
X coordinate (e.g. Longitude) of intake opening		X coordinate (e.g. Longitude) of intake opening	
Y coordinate (e.g. Latitude) of intake opening		Y coordinate (e.g. Latitude) of intake opening	
Coordinate System Code and Description		Coordinate System Code and Description	
Coordinate Method Description		Coordinate Method Description	
Absolute Location Accuracy		Absolute Location Accuracy	
Accuracy Units (feet or meters)		Accuracy Units (feet or meters)	

INSTRUCTIONS FOR COMPLETING BWA-001B

1. GENERAL INSTRUCTIONS

This form includes eight sections, A through H, and Addenda A and B. Section F applies to irrigation water users (other than Agricultural/Horticultural water users certified by the County Agricultural Agent under N.J.A.C. 7:20A-1 et seq.). Section G applies to Public Water Suppliers. Addenda A and B apply to each individual diversion source for all applicants. **All applicable sections must be completed or the application will be returned.**

Applications must reference valid State Well Permit Numbers and wells must be permitted for their intended use. A well search can be scheduled by the applicant or performed by the Department for a fee. **Applications without valid State Well Permit Numbers for existing wells will be returned.**

All information required by the regulations under N.J.A.C. 7:19-2.2 must be addressed in this application.

A. Site Location Information

1. Actual Diversion Location - Provide the Name of the Facility of which the application is for, the physical street address or nearest cross streets of the diversion location. Attach additional sheets if more than one physical location applies.
2. Property/Land Owners – Provide the legal name for the owner of the property/land on which the diversion is located.
3. Applicant/Operating Entity(ies) – Provide the name, as it is legally referred to, of the operating entity of the subject facility. The operating entity is the firm, public agency, individual, or other entity which has the primary management and decision making authority over any part of the facility/site.

The Application Contact is the individual responsible for all aspects/inquiries regarding the application. Check the Agent box if an Agent has been designated in Section B3 of the Application. The Report Form Recipient/Permit Contact is the designated individual responsible for completing Quarterly Monitoring Report Forms. All Monitoring Report Forms will be mailed to the Report Form Recipient/Permit Contact designated at the Operating Entities address.

4. Responsible Entity/Organization – The person, company, or corporation financially responsible for the activity relating to the diversion and has overall legal responsibility of the activities occurring at the site. The organization liable or accountable for overall facility operations. The responsible entity may be the same as the Applicant/Operating Entity noted in Section A3. If so, check the appropriate box provided. If not, provide the requested information for the Responsible Entity
5. Billing Contact – Check the box of the appropriate address (either the Responsible Entity/Organization or the Applicant/Operating Entity) and indicate the individual contact for all billing inquiries.
6. Other Permits – Provide information for all other permits applied to in relation to the project and diversion activities, as indicated.

B. Certifications – Provide Certifications as indicated in Section B.

C. Required Submittals/Application Attachments

1. All diversion sources must be metered prior to treatment. Submit evidence to demonstrate that the flow meter for each source has been calibrated within the past five years. Also include the type of meter for each source. Evidence of meter calibration is not required for new sources (meters must be installed on all approved new sources, however). If the diversion is not metered at each source prior to treatment, please indicate why.
2. A completed Water Conservation and Drought Management Plan. Separate instructions and worksheets for completing the plan should be obtained by contacting the Bureau of Water Allocation & Well Permitting. A Conservation Plan is not required if the application is for ground water remediation, sand and gravel mining, or where diverted water is returned in undiminished quantity to its source.
3. Supporting information that shows how the future demands were determined in Section E.1. of the application.

For Sections D through G, please provide all information as requested in the section.

2. INSTRUCTIONS FOR COMPLETING ADDENDA A AND B

The following tables provide the acceptable values for completing Addenda A and B.

Elevation Information

Elevation System Description	Elevation Method Description
Feet above sea level	Approximate address match
Meters above sea level	DEP program database
	Digital image
	Exact address match
	GPS
	Hard copy match
	Licensed Surveyor
	Topographic Map
	Plot Plan
	Proposed Elevation-Digital Image
	Proposed Elevation-Hard Copy Map

Absolute elevation accuracy is the uncertainty in feet or meters of the elevation measurement.

Locational Information

USGS quadrangle maps have the coordinate system printed on the map. GPS units can usually be set to display a variety of coordinate systems. New Jersey State Plane 83 – USFEET is the State standard.

Coordinate System Code	Coordinate System Description*	Coordinate Method Description
22	Lat/Long (NAD27) – Decimal Degrees	GPS
27	Lat/Long (NAD27) – DMS	DEP Program Database
21	Lat/Long (NAD83) – Decimal Degrees	Exact Address Match
20	Lat/Long (NAD83) – DMS	Digital Image (such as i-Map)
09	New Jersey State Plane 27 – USFEET	Hard Copy Map
02	New Jersey State Plane 83 – Meters	Other (Describe)
01	New Jersey State Plane 83 – USFEET	Approximate Address Match
26	UTM (NAD27) – Meters	Proposed Location - Digital Image (such as i-Map)
08	UTM Zone 18N – Meters	Proposed Location - Hard Copy Map
03	UTM Zone 18N (78 W to 72 W) – Kilometers	

*Coordinates obtained historically from BWA are likely to be Lat/Long (NAD27) – DMS

Absolute location accuracy is the uncertainty in feet or meters of the location from actual ground truth. Modern GPS units can provide this number.

2020

2010 Water Allocation Permit Renewal Application
Permit Number 5382
Township of Verona
600 Bloomfield Avenue
Verona, New Jersey 07044
Essex County

Section G.

1) Municipal / Water Purveyor Water Contracts: (previously submitted)

Passaic Valley Water Commission - Little Falls, NJ (purchase)
New Jersey - American Water Company (purchase)
Essex Fells, NJ (purchase - sell)
Cedar Grove, NJ (purchase - sell)
West Orange, NJ (sell)

2) List of municipalities to be supplied: (previously submitted)

Essex Fells, NJ
West Orange, NJ
Cedar Grove, NJ

3) Interconnections:

Passaic Valley Water Commission, Little Falls, NJ - 18 inch
New Jersey - American Water Company - 6 inch
Essex Fells, NJ - 8 inch
Cedar Grove, NJ - 6 inch + 8"

ADVANTECH CORPORATION
20 Just Road, Fairfield, New Jersey 07004

INSTRUMENT CALIBRATION FORM

TAG NO. FIT-600

SERIAL NO. 03-96768-4


DESCRIPTION TOWNSHIP OF VERONA NJ- LINN DRIVE WELL STATION
WELL FLOW TRANSMITTER

MFR./MODEL NO. TELETRANS 350830C-141-111-100-110-111-0

CALIBRATED RANGE 0-140.69 Inches of Water/ 0-600 GPM

REMARKS VERIFIED INSTRUMENT OPERATION AND RANGE BY APPLYING
PRESSURE USING A HANDHELD PRESSURE PUMP AND DIGITAL
PRESSURE GAUGE/CALIBRATOR.

PROCESS INPUT	ENGINEERING UNITS	% OF RANGE	OUTPUT SIGNAL (Ma)
0 INCHES OF WATER	0 GPM	0	4mA
70.35 INCHES OF WATER	300 GPM	50	12mA
140.69 INCHES OF WATER	600 GPM	100	20mA

REPRESENTATIVE	SIGNATURE	PRINTED NAME	DATE
Contractor Instrument Technician		JOE FRITCH	4/10/18
Witnessing Engineer			



System Integrators & Contractors
 41 Plymouth St, Fairfield NJ 07004,
 (973) 575-7464 FAX: (973) 575-5938



On site Calibration Certificate

Job n° **2674**
 Certificate n° **267419001**
 Verification date **3/4/2019**

Customer information

Company name **Township of Verona**
 Address **10 Commerce Ct**
Verona, NJ 07044
 Contact **Jeff Sonntag**

Place of verification

Company name **Township of Verona**
 Location **10 Commerce Ct**
 Address **Verona, NJ 07044**

Instrument information (UUT) UUT : Unit Under Test

Manufacturer **ABB**
 Description **Differential Pressure Transmitter**
 Model **264DSFSSA1A1L1N2**
 Serial n° **6208001982**
 Tag n°

Measuring range **0.00** to **136.80** InH2O
 Input **4.00** to **20.00** mA
 Calibrated range **0.00** to **136.80** InH2O
 Max perm. error (MPE) **1.0** % FS

Standards used

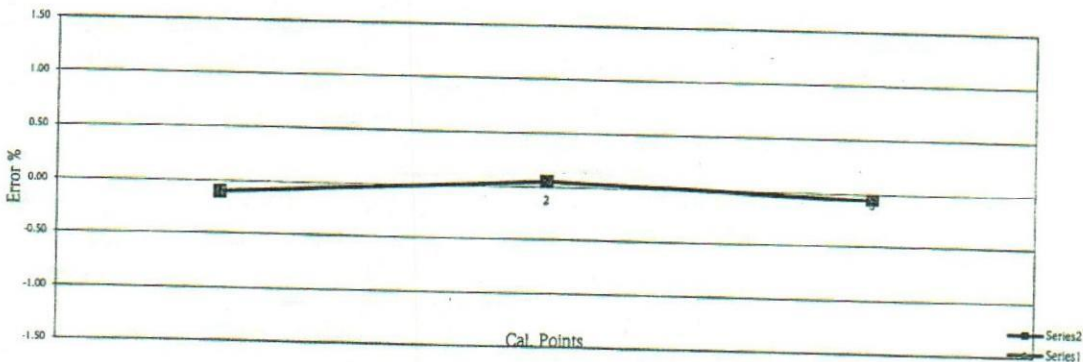
Type	Description	Serial n°	ID	Certificate	Due date
DWYER PHP-1	PNEUMATIC HAND PUMP	N/A	N/A	N/A	N/A
FLUKE 721	PRESSURE CALIBRATOR	4180127	N/A	3000118741	03/28/19

Calibration Method

Description **Onsite calibration Using Pneumatic Pump to simulate pressure and Pressure calibrator to record** Number of test points **3**

Verification value(s) as found as left

Cal. point(s)	Measurand Reference value	Measured value display UUT	Reference value output calculated	Measured value output UUT	Display percent error	Full scale relative error	MPE +/-
Units*	InH2O	InH2O	mA	mA	mA	% FS	% FS
1	0.000	2.60	6.21	6.200	-0.09	-0.04	1.00
3	68.400	69.59	15.41	15.421	0.06	0.06	1.00
5	136.800	134.16	19.84	19.834	-0.05	-0.07	1.00



Conformity UUT conforms UUT does not conform

Remarks
 Unit passed Calibration. As found same as as left.

Service Engineer **Edgar R. Reyes**

Printing date **4 March 2019**

Signature

Final Inspection Report / Endprüfprotokoll

The manufacturer confirms that all measuring equipment used to assure the quality of the products has been calibrated and is traceable to national (e.g. DKD/DAkkS, NIST, NABL...) or international standards.

Der Hersteller bestätigt, dass die zu Qualitätsprüfungen des Erzeugnisses eingesetzten Messmittel gültig kalibriert waren und auf nationale (z.B. DKD/DAkkS, NIST, NABL...) bzw. internationale Normale rückführbar sind.

Cerabar S

TAG number	Messstellen-Nummer	
Order code	Bestellcode	
Serial number	Seriennummer	PMP71-4AVU2/115
Extended order code	Erweiterter Bestellcode	M101CC1509C
Sensor range	Sensor-Messbereich	PMP71-ABC1HF1RAAMU
Adjusted measuring range	Eingestellter Messbereich	-400...400 inH2O
Maximum permissible error	Max. zulässige Messabweichung	10...300 inH2O ± 0.05 %
Output type	Ausgang	4...20 mA, HART
Software version	Softwareversion	02.20.04
Output mode	Ausgangsmodus	linear

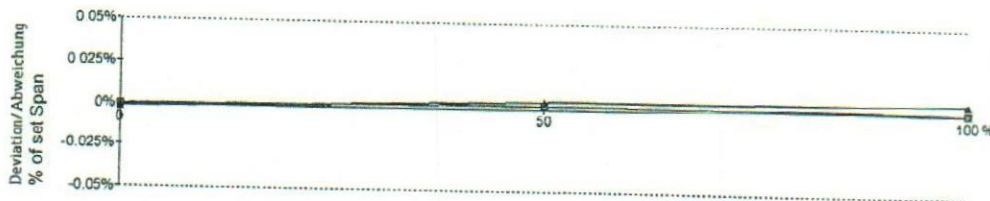
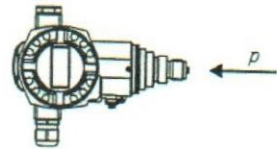
PCS SYSTEMS INTEGRATORS

Customer order number	Auftragsnummer des Kunden	2196-01EH
E+H sales order number	E+H Auftragsnummer	3018705169000010
Internal order number	Interne Auftragsnummer	3800272312/0010
Ambient temperature	Umgebungs-Temperatur	22.4 °C (± 1 °C)
Ambient humidity	Umgebungs-Luftfeuchte	24.9 %rel.F (± 10 %rel.F)
Ambient pressure	Umgebungs-Luftdruck	988.7 mbar (± 0.2 mbar)
Calibrated according to fix point method IEC 60770.	Prüfung nach Grenzpunktmethode gemäß IEC 60770.	

Measuring results / Messergebnisse

Calibration point	Nominal value (P _{Ref.})	Measured value (digital readout)	Deviation (digital)	Nominal value (I _{Out} calculated)	Current output (analog)	Rel. deviation (analog)
Kalibrierpunkt	Sollwert (P _{Ref.})	Istwert (Digitaler Wert)	Abweichung (digital)	Sollwert (I _{Out} berechnet)	Stromausgang (analog)	Rel. Abweichung (analog)
%	inH2O	inH2O	% of Span	mA	mA	%
0	9.62300	9.62429	0.00045	3.97920	3.97898	-0.00136
50	154.113	154.120	0.00244	11.95104	11.95169	0.00409
100	298.063	298.063	-0.00002	19.89312	19.89395	0.00518

Calibration orientation
Kalibrierlage



Calibration carried out in output mode linear/
Kalibration erfolgte im Ausgangsmodus linear.

Measuring point in % of adjusted measuring range/
Messpunkt in % vom eingestellten Messbereich

We confirm that all tests, according to the Quality Plan (QP), have been performed successfully. At the time of verification, the measuring points of the device indicated above were in compliance to the published valid technical specification (TI).

Wir bestätigen, dass alle Tests aus dem Qualitätsplan (QP) erfolgreich durchgeführt wurden. Das Gerät entspricht zum Zeitpunkt der Prüfung an den aufgeführten Messpunkten den gültigen technischen Spezifikationen (TI).

TI 383P

This document was generated electronically and is valid without signature.

Dieses Dokument wurde elektronisch erzeugt und ist ohne Unterschrift gültig.

Date of inspection/ Prüfdatum 19. Jan 2017

71089244/250002797-G

- End of document -
- Ende des Dokumentes -

Endress+Hauser

People for Process Automation



Submersible Motor Installation Record

RMA No. _____

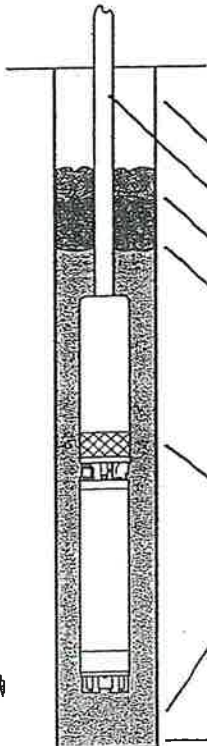
INSTALLER'S NAME Uni-Tech Drilling OWNER'S NAME VERONA
 ADDRESS PO Box 407 ADDRESS OF WELL - 100 HILLWOOD TERR.
 CITY Franklinville STATE NJ ZIP 08322 CITY VERONA STATE NJ ZIP 07094
 PHONE (856) 694-4200 FAX (856) 694-4242 PHONE (973) 857-4843 FAX () _____
 CONTACT NAME Eugene Stichler CONTACT NAME JEFF SOMNTAG
 WELL NAME/ID Fairview Ave DATE INSTALLED 1-16-19 DATE FAILED _____
 WATER TEMPERATURE _____ °F or _____ °C

MOTOR:

Motor No. G2773803H Date Code K18 HP 75 Voltage 460 Phase 3

PUMP: #A-253584-18

Manufacturer MID-AMERICA Model No. 9-9RCHC-6P Curve No. _____ Rating: _____ GPM@ _____ ft. TDH
 NPSH Required _____ ft. NPSH Available _____ ft. Actual Pump Delivery _____ GPM@ _____ PSI
 Operating Cycle _____ ON (Min./Hr.) _____ OFF (Min./Hr.) (Circle Min. or Hr. as appropriate)
 YOUR NAME STICHLER, Eugene DATE 2 / 6 / 19



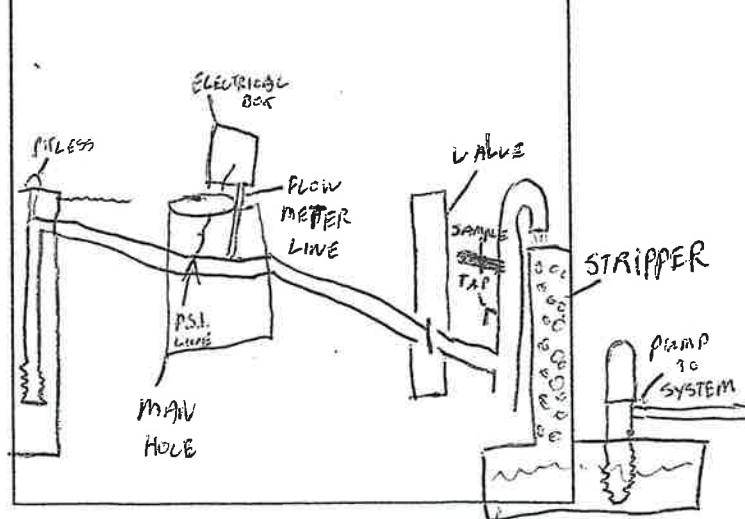
WELL DATA:

Total Dynamic Head _____ ft.
 Casing Diameter 12 in.
 Drop Pipe Diameter 6 in.
 Static Water Level 97'-9" ft.
 Drawdown (pumping) Water Level _____ ft.
 Checkvalves at 100' & _____ & 385' & _____ ft.
 Solid Drilled
 Pump Inlet Setting 395' ft.
 Flow Sleeve: No Yes, Dia. _____ in.
 Casing Depth 95' ft.
 Well Screen Perforated Casing
 From _____ to _____ ft. & _____ to _____ ft.
 Well Depth 490' → FILLED IN TO 476' ft.

ROCK WELL

TOP PLUMBING:

Please sketch the plumbing after the well head (check valves, throttling valves, pressure tank, etc.) and indicate the setting of each device.



CONTACT CLEAR WELL

INVOICE 524977

Customer No. TOV480

Samuel STOTH₂OFF Co., Inc.

PO Box 306
Flemington, N.J. 08822

Telephone 908/782-2116
Fax 908/782-9528

RECEIVED


JUL 06 2021

Bill To:

Township of Verona
Dept. of Public Works
10 Commerce Street
Verona, NJ 07044

Ship To:

TOWNSHIP OF VERONA
DEPT. OF PUBLIC WORKS
880 Bloomfield Ave.
Well Pump Service

Date	Ship Via	F.O.B	Terms			
04/26/21			Net 30 Days			
Purchase Order Number		Order Date	Salesperson		Our Order Number	
21-00738		//			44390	
Quantity Used	Item Number	Description	Tax	Unit Price	Discount	Amount
1.00	LABOR/EQUIP/MAT	<p>880 Bloomfield Ave. Verona, NJ</p> <p>Work to Include:</p> <p>Conduct electrical check (ohm/meg) out motor and pump cable.</p> <p>Remove 60HP submersible pump from well. Pump is set at 500' on 5" Sch 40 steel coated T&C pipe with 3/4" and 1" M-Scope line.</p> <p>Inspect condition of 5" drop pipe, 5" Check valve, pump cable, pump end, motor.</p> <p>Provide condition summary with price quote for repair/replace and re-installation of pump.</p> <p>Work completed on 4/19/21, 4/20/21</p>	N	4400.00		4400.00
<p>***Continued***</p> <p><i>Work Complete</i></p> <p><i>OK TO PAY</i></p> <p><i>7/6/21</i> </p>						0.00
						0.00

Appendix B. Water Purchase Agreement with PVWC

**PASSAIC VALLEY WATER COMMISSION
AND
TOWNSHIP OF VERONA**

AGREEMENT

AGREEMENT, made this 29 day of June, 2006, between Passaic Valley Water Commission, a public body of the State of New Jersey, corporate and politic created pursuant to N.J.S.A. 40:62-108 to 40:62-150.2 (the "Act"), and having its principal office at 1525 Main Avenue, Clifton, New Jersey 07011, hereinafter referred to as "Commission", and the Township of Verona, a Municipal Corporation of the State of New Jersey, with its principal office at 600 Bloomfield Avenue, Verona, New Jersey 07044, hereinafter referred to as "Township", (Commission and Township are also individually referred to herein as "Party" and collectively as "Parties"):

WITNESSETH

WHEREAS, the Commission owns and operates a public water supply and distribution system; and

WHEREAS, the Commission has supplied, and continues to supply, the Township with water to the date of this Agreement, and both Parties are desirous of continuing their water supply relationship; and

WHEREAS, the Parties entered into an agreement dated July 12, 1991 (referred to herein as the "1991 Agreement" and attached hereto as Exhibit A), which 1991 Agreement provided for the sharing of the cost of the Fairview Avenue Tank No. 2 on an equal basis; and

WHEREAS, the Parties further wish to amend, revise, and supercede, in its entirety, the 1991 Agreement (referred to herein as the "Prior Agreement") in that the said Prior Agreement is now rendered substantially obsolete by changes in the facts and circumstances surrounding the same;

NOW THEREFORE BE IT RESOLVED THAT, in consideration of the promises, agreements and covenants hereinafter set forth and mutually agreed to, the Township and the Commission, each for itself, and its successors and assigns, if any, do mutually covenant, promise and agree as follows:

**ARTICLE I
DEFINITIONS**

SECTION 101. Definitions.

The following definitions shall apply to and are used in this Agreement:

"Agreement" shall mean the agreement for this water sales contract and water system improvements set forth in Article III herein, which supercedes any prior agreements between the Commission and the Township, by and between the Township and the Commission and any and all modifications, alterations, amendments and supplements hereto which may be made by mutual agreement of the Parties.

"Annual Contract Maximum" means the maximum total volume of water in million gallons per year which can be purchased by the Township from the Commission during the "Service Year".

"Annual Purchase Requirement" means the minimum total volume of water expressed in million gallons per year, which will be purchased by the Township from the Commission during the "Service Year".

"Effective Date of the Agreement" shall mean the day and year first written above, or the date on which this Agreement has been signed and fully executed by both Parties, whichever is later.

"Event of Force Majeure" shall include, but not be limited to, the following acts, events or conditions or any combination thereof, provided however, that such act, event or condition shall be one that has or is reasonably expected to have a material adverse effect on the ability of either Party to wholly or partially perform its obligations under this Agreement, and shall be beyond the reasonable control of the Party relying thereon as justification for not performing an obligation or complying with any

condition required of such Party under the terms of this Agreement. These shall include, but not be limited to:

- a) an act of God, lightning, earthquake, hurricane, war, blockade, insurrection, riot or civil disturbance, acts of terrorism, acts of any public enemy, extortion, sabotage or similar occurrence or any exercise of the power of eminent domain, arrests, police power, condemnation or other taking by or on behalf of any public, quasi-public or private entity; or
- b) a landslide, fire, accident, strike or labor dispute, curtailment of supply or unavailability of construction materials, replacement equipment or fuel, disruption of transportation activities, failure of, or accidents to, machinery, pipelines, dams or canals, partial or entire failure of water supply, explosion, flood or nuclear radiation not created by an act or omission of either Party; or
- c) a change in law or any curtailment, law, rule, order, regulation or restriction imposed or enacted or interpreted by governmental body after the Effective Date of the Agreement ("Change in Law"); or
- d) an order, judgment, action and/or determination of any federal, state or local court, administrative agency or governmental body with appropriate jurisdiction, impeding the construction, operation or maintenance of the Project, as applicable, provided, however, that the contesting of any such order, judgment, action and/or determination, in good faith, shall not constitute or be construed as an action or inaction within the control of such Party.
- e) A Party's inability to perform due solely to financial circumstances unrelated to any of the foregoing conditions shall in no case constitute an "Event of Force Majeure".

"MGD" is the abbreviation for "million gallons of water per day".

"Perpetual Use and Benefit" shall mean that the Commission, and its successors and assigns, if any, shall have the full, exclusive and beneficial use of fifty (50) percent of the total volume of water in Tank No. 2 at all times and in perpetuity and the Commission's said full, exclusive and beneficial use shall survive termination, expiration or rescission of the Agreement.

"Project" includes the rehabilitation of existing Tank No. 2 as forth in Article III.

"Service Year" shall mean the period commencing on the Effective Date of this Agreement of each calendar year and terminating at the beginning of the succeeding calendar year.

"Term of the Agreement" (also referred to herein as "Term"), as it pertains to the water supply portion of this Agreement, shall be for a period of twenty five (25) years, with provision for renewal for an additional period as stipulated in Article II, for a total of not more than forty (40) years, including any and all extensions approved thereto in accordance with the terms and conditions of this Agreement, commencing upon the Effective Date of the Agreement, unless terminated pursuant to the terms and conditions of this Agreement.

"Township's Water Consumption" shall mean the volume of water used by the Township as identified by the Commission.

"Township's Water Customers" shall mean owners of property that, as identified on the tax rolls of the Township, are connected to the Township's water distribution system and have the right to connect into the Township's water distribution system.

"Township's Water System" shall mean the Township's interest in all the personality, equipment, vehicles, stock, tools, materials and consumables, as well as all of the real estate, easements, buildings, structures and appurtenances and interest therein owned, leased or otherwise held by the Township in connection with the supply, transmission and/or distribution of water to users of the Township's water

distribution system located in the geographical boundaries of the Township.

SECTION 102. Miscellaneous.

Whenever the context may require, any pronoun that is used in this Agreement shall include the corresponding masculine, feminine and neuter forms, and the singular shall include the plural and vice versa. Unless otherwise noted, the word "include", "includes" and "including" when used in this Agreement shall be deemed to be followed by the phrase "without limitation". The word "agree", "agreements", "approval" and "consent" when used in this Agreement shall be deemed to be followed by the phrase "which shall not be unreasonably withheld or unduly delayed", unless the context specifies otherwise. Any consent or approval required of one of the Parties may be given by an authorized representative of that same Party and any notice or document required to be delivered to one of the Parties shall be delivered to an authorized representative of that same Party. All references to Articles and Sections, where applicable, shall, unless the context specifies otherwise, refer to this Agreement.

**ARTICLE II
WATER SUPPLY**

SECTION 201. Water Service to be Provided.

1. Unless terminated pursuant to Article VIII, Commission agrees to supply Township, and Township agrees to purchase from Commission, potable water for a continuous term of twenty five (25) years commencing upon the Effective Date of the Agreement.
2. Township guarantees the purchase of water during each Service Year in the aggregate of 280,000,000 gallons, referred to hereinafter as the Annual Purchase Requirement. After each Service Year, Commission will determine whether Township satisfied the Annual Purchase Requirement and, in such event same is not satisfied, the Commission shall invoice and/or deduct appropriate credits (as applicable) from the Township for the difference between the Annual Purchase Requirement and the amount actually purchased.
3. The water to be delivered by Commission will be furnished from supplies as Commission may now or hereafter use for the general supply to its customers. Anything in this Agreement to the contrary notwithstanding, Commission shall be required to supply water only in the excess of the water needed to supply the requirements of its owner cities of Clifton, Passaic and Paterson.
4. In conformance with State of New Jersey established guidelines for the supply of potable water the Township agrees to a limit on the purchase of potable water from the Commission during each Service Year of a maximum aggregate of 630,000,000 gallons of water referred to herein as Annual Contract Maximum. Notwithstanding the aforementioned, the Township shall not draft water at a rate of more than 65,000,000 gallons of water per month, nor at a rate of more than 2.0 MGD of potable water in any given day, except that the Township shall be permitted to increase the said 2.0 MGD rate to no more than 2.5 MGD in any given day for no more than 10 days total in any given year. Notwithstanding the aforementioned, the Township shall not draft water at an instantaneous rate of more than 2,080 gallons per minute, except during emergency situations or when the Township's other water supply facilities are out of service for maintenance purposes. Moreover, the maximum aggregate set forth herein may be increased on the request by Township and consent thereafter by Commission.

SECTION 202. Water Quality.

The water to be furnished hereunder shall be potable water which meets the statutory and/or regulatory standards promulgated by the New Jersey Department of Environmental Protection and the United States Environmental Protection Agency, or any successor regulatory governmental agency or department. The water supplied to Township will be delivered from Commission's filtration plant located in Totowa, New Jersey, or from such other sources or combination of sources as may be available to Commission.

SECTION 203. Terms of Payment.

Township hereby agrees to pay the charge for water delivered by Commission which shall be at the same bulk or wholesale rate which other bulk or wholesale customers of Commission pay. Township shall also pay all power charges incurred to pump water above Commission's normal gradient, which gradient is the normal discharge gradient of the main system at the Little Falls Plant. All bills shall be rendered monthly in arrears by Commission and shall be payable by Township within sixty (60) days from the date

the bill is rendered. In the event the Township fails to render payments when due, then an interest rate of 1% per month shall be due and payable on all unpaid balances.

SECTION 204. Changes in Rates.

In the event that the bulk or wholesale rate charges by Commission to other purveyors is raised or lowered during the term of this Agreement or any renewal period thereof, Commission agrees to sell and Township agrees to buy and pay for water delivered at such new rate from the date any such change in rate shall become effective.

SECTION 205. Interruptions in Service, Event of Force Majeure.

In the event that it becomes necessary for the Commission to temporarily discontinue service or to reduce water pressure in Commission mains because of an Event of Force Majeure as set forth in Article VII, or for the purpose of making necessary repairs, it is specifically agreed Township or its customers shall not have any claim or demand against Commission because of such temporary discontinuances of supply or reductions of pressure.

SECTION 206. Pressure Limitations, Construction of Pump Station and Pipelines.

1. Commission shall not be obligated to furnish water pressure at its point of delivery to Township in excess of the water pressure carried in Commission's supply mains. Should it become necessary because of the elevation of the areas to be supplied, or because of the hydraulic factors in the system of the Township, or for any other reasons, to deliver water under a higher pressure than exists in Commission's supply mains, then and in that event, it shall be the sole obligation of the Township to provide any additional pressure which may be required.
2. Any water supply facilities constructed by Commission or its agents at the sole expense of the Commission shall at all times be and remain the property of the Commission. All facilities constructed by Township or its agents shall at all times be and remain the property of Township.

SECTION 207. Meter Testing.

Township shall, if requested by Commission, provide Commission with copies of certified reports of test(s) on the accuracy of meter(s) commencing on the Effective Date of the Agreement, and once each Service Year thereafter until termination of this Agreement, or any renewal terms hereof. Commission reserves the right to perform its own readings and tests on the accuracy of meter(s) at any time.

SECTION 208. Renewal of Agreement.

Unless terminated pursuant to Article VIII, this Agreement shall be renewed automatically for additional term of fifteen (15) years, unless Township serves a written notice of termination upon the Commission not less than one (1) year before the expiration date of the initial term or any additional term of this Agreement.

**ARTICLE III
WATER SYSTEM IMPROVEMENTS**

SECTION 301. Water System Improvements.

1. Pursuant to the 1991 Agreement, the Parties agreed to share the rehabilitation costs of the existing Fairview Avenue Tank No. 2 (hereinafter referred to as "Tank No. 2"), situated in the Township.
2. The Township shall retain sole ownership of existing Tank No. 2. In the event that the Township elects to sell or otherwise transfer ownership of Tank No. 2, then the Township shall offer to sell the said tank to the Commission at a reasonable cost and the Commission shall have, and shall retain, the rights of first refusal which shall survive termination, expiration or rescission of the Agreement.
3. The Commission shall retain perpetual use and benefit of fifty (50) percent of the total volume of Tank No. 2 which said perpetual use and benefit shall survive termination, expiration or rescission of the Agreement. The Township agrees not to take Tank No. 2 out of service without first coordinating any and all such actions with the Commission, and providing reasonable notice to the Commission beforehand. With the exceptions of emergencies, not less than ninety (90) days prior written notice to the Commission shall be considered reasonable.
4. The Commission agrees to continue to own, operate and maintain the motor control valve, check valve, and other appurtenances constructed under the terms

and conditions of the 1991 Agreement, which agreement is otherwise hereby superseded in its entirety by this Agreement.

5. Any and all costs involving Tank No. 2 for rehabilitation and maintenance projects, maintenance of the cathodic protection systems for Tank No. 2, repainting of Tank No. 2, and for additional capital improvements for Tank No. 2, shall be shared equally and shall only be undertaken after the Parties have mutually agreed to the need, scope, and approximate project costs for the said future rehabilitation projects, maintenance projects, or additional capital improvements, in advance. Except as otherwise stipulated hereinabove, routine maintenance such as lawn mowing and other site maintenance, and operation of Tank No. 2, and the costs related to same, shall be, and remain, the sole responsibility of the Township.

ARTICLE IV AFFIRMATIVE ACTION REQUIREMENTS

SECTION 401. Affirmative Action.

During the Term of the Agreement, each Party shall not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. Each Party shall take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Each Party shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by the said Party setting forth the provisions of this nondiscrimination clause.

1. Each Party shall, where applicable, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation.
2. Each Party shall, where applicable, send to each labor union or representative or workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the said Party advising the labor union or worker's representative of the said Party's commitments under the law and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
3. Each Party shall comply with the regulations promulgated by the State Treasurer pursuant to P.L. 1975, c.127, as such regulations were in effect on October 1, 1998 and to any other regulations promulgated by the State of New Jersey during the Term of this Agreement and the Americans With Disabilities Act.
4. Each Party shall attempt in good faith to employ minority and female workers consistent with the applicable employment goals prescribed by N.J.A.C. 17:27-5.2, or later revisions thereto, as promulgated by the Treasurer of the State of New Jersey pursuant to P.L. 1975, c.127, as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the Affirmation Action Office pursuant to N.J.A.C. 17:27-5.2, or later revision thereto, as promulgated by the Treasurer of the State of New Jersey pursuant to P.L. 1975, c.127, as amended and supplemented from time to time.
5. Each Party shall inform in writing, appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.
6. Each Party shall revise its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by Federal law and applicable federal court decisions.

7. Each Party shall review all procedures related to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, race, creed, color, national origin, ancestry, marital status, sex, affectional or sexual orientation, and conform with the applicable employment goals consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

SECTION 402. Incorporation of Legal Requirements.

In the event that any contractual provisions which are required by law have been omitted, or in the event that the Agreement fails to properly incorporate the Affirmative Action Requirements of State law, then this Agreement shall be deemed to incorporate all such clauses by reference and such requirements shall become a part of this Agreement.

**ARTICLE V
INSURANCE AND BONDING REQUIREMENTS**

SECTION 501. Comprehensive General Liability Insurance.

During the Term of this Agreement, the Parties shall provide and maintain, at their cost and expense, Comprehensive General Liability Insurance on an occurrence basis, as will protect each other and their employees, subcontractors, agents and the said Parties from claims for damages from bodily injury, including accidental death, as well as for claims for property damage, and contractual liability, which may arise from operations under this Agreement, whether such operations be by the Parties or any subcontractor or agent or anyone directly or indirectly employed by either Party or its respective subcontractors. The policy limits for such insurance shall be not less than \$1,000,000. The policy shall include provisions for thirty (30) day written notice to the Parties of cancellation and/or modification of coverage with respect to such policy. The Parties shall be included as additional named insured. Policy limits may be supplemented by an excess liability policy of an umbrella form. The Parties may provide for the coverage required in this section through commercially available insurance or through self-insurance or joint insurance pools.

SECTION 502. Automobile Liability Insurance.

During the Term of the Agreement, the Parties shall, at their own cost and expense, procure and maintain Automobile Liability Insurance, if applicable, to cover each automobile, truck, vehicle, or other equipment used in the performance of this Agreement. The limits of liability shall not be less than \$1,000,000 Combined Single Limit (CSL). The policy shall include provisions for thirty (30) days written notice to the Parties of any cancellation and/or modification of coverage with respect to such policy. The Parties shall be included as additional named insureds. The parties may provide for the coverage required in this Section through commercially available or through self-insurance or joint insurance pools.

SECTION 503. Worker's Compensation Insurance.

During the Term of the Agreement, the Parties shall, at their own cost and expense, procure and maintain Worker's Compensation Insurance, at the Statutory Limits, for indemnifying the Parties against any loss or claim arising from liabilities for injury sustained by employees, agents, or personnel of the Parties as required by law. The policy shall include provisions for thirty (30) days written notice to the Parties of any cancellation and/or modification of coverage with respect to such policy. The Parties shall also ensure that any subcontractor similarly provides Worker's Compensation Insurance for all of the latter employees. The Parties may provide for the coverage required in this Section through commercially available or through self-insurance or joint insurance pools.

SECTION 504. Right to Subrogation.

Each insurance policy required set forth in this Article V shall provide that neither of the Parties, nor its insurer, shall have any rights to subrogation against the other.

**ARTICLE VI
DEFAULT AND REMEDIES**

SECTION 601. Default by Either Party.

Either Party shall be in Default under this Agreement, if the defaulting Party fails to perform any material obligation set forth in this Agreement, for more than sixty (60) days following written notice by the non-defaulting Party.

SECTION 602. Remedies.

In the event of a Default, the non-defaulting Party shall have the right, unless otherwise provided in this Agreement, to (i) terminate the Agreement, following written notice

giving the defaulting Party ten (10) days to cure the material breach, and the defaulting Party fails to do so; (ii) seek remedy in law or equity in a court of competent jurisdiction (including the right to seek reimbursement of reasonable attorney fees); (iii) withhold any payment due as offset; and (iv) undertake any combination of the above.

SECTION 603. Obligation to Perform.

Notwithstanding termination pursuant to Article VIII, each of the Parties shall be obligated to fully perform the services required by this Agreement through the date of termination.

SECTION 604. Non-Waiver.

1. The failure of either Party to this Agreement, at any time, to enforce its rights hereunder shall in no manner affect its rights at a later time to enforce same. No waiver by either Party of any condition, or breach of any provision, term, covenant or representation contained in this Agreement, whether by conduct or otherwise, shall be deemed to be or construed as a further or continuing waiver of any such condition or of the breach of any other provision, term, covenant or representation of this Agreement.
2. Any payments made, or credits applied by the Commission to reduce the Township's monthly water consumption invoicing by the Commission under the terms of this Agreement, shall not be deemed a waiver of the Commission's rights to seek damages in the event of a Default by the Township with respect to the Township's performance obligations pursuant to this Agreement.

**ARTICLE VII
EVENT OF FORCE MAJEURE**

SECTION 701. Event of Force Majeure.

1. If by reason of any Event of Force Majeure, either Party shall be rendered unable wholly, or in part, to satisfy its obligations under this Agreement, and further, if the Party alleging the Event of Force Majeure shall give notice and full particulars of such Event of Force Majeure in writing to the other Party hereto within a reasonable time after occurrence of the event of cause relied upon, then the obligation of the Party giving such notice, to the extent affected by such Event of Force Majeure, shall be suspended or modified during the continuance of the inability to perform, or fully perform, then claimed. Either Party so affected shall use its best efforts to remove or overcome such Event of Force Majeure with all reasonable dispatch.
2. An Event of Force Majeure during which the initiation of the performance of Services is prevented for more than ninety (90) days from the Effective Date of the Agreement will justify termination of the Agreement. Similarly, an Event of Force Majeure which terminates the Township's management and control of the System would justify termination of the Agreement.

**ARTICLE VIII
TERMINATION**

SECTION 801. Termination.

Either Party shall have the right to terminate this Agreement during the Term of the Agreement upon ten (10) days written notice following an Event of Default as set forth in Article VI.

**ARTICLE IX
INDEMNIFICATION**

SECTION 901. Indemnification.

Each Party shall defend, indemnify and save harmless the other Party, and their officers, agents and employees and each and everyone of them against and from any and all liabilities, judgments, threatened, pending or completed actions, suits, demands for damages or costs of every kind and description actually and reasonably incurred (including reasonable attorneys' fees and court costs) including without implied limitations, liabilities for damage to property or liabilities for injury or death of any person (including liabilities for damaged property or liabilities for injury or death of the officers, agents and employees of either Party) resulting from any negligent act or omission or from the willful misconduct of either Party, or both Parties, by any of their officers, agents or employees. The obligations set forth herein shall survive termination, expiration or rescission of the Agreement.

**ARTICLE X
ASSIGNMENT AND DELEGATION**

Section 1001. Assignment and Delegation.

Each Party shall not assign or delegate its performance obligations or any portion thereof nor any of the proceeds thereof, under this Agreement, to any person, firm, or organization except upon the prior written approval of the other Party which shall not be unreasonably withheld.

**ARTICLE XI
MISCELLANEOUS**

SECTION 1101. Governing Law.

This Agreement shall be governed by and construed and enforced in accordance with laws of the State of New Jersey. The Parties hereby consent to the jurisdiction of the courts or administrative tribunals of the State of New Jersey or, as appropriate, the United States District Court, District of New Jersey, as sole venue for any causes of action brought under this Agreement.

SECTION 1102. Arbitration.

If any claims, controversies or disputes shall arise out of or be related to this Agreement or the breach thereof, the Parties agree to submit the said claim, controversy or dispute to binding arbitration in accordance with the prevailing rules of the American Arbitration Association. Said arbitration shall be held in the County of Passaic, each Party to bear its own costs and the costs of the arbitrators to be borne equally by both Parties. As to any arbitration, each Party shall select one arbitrator, within ten (10) days of the event requiring said arbitration, and the two arbitrators so selected shall promptly select the third. If said arbitrators are unable to select a third arbitrator, one shall be assigned by the American Arbitration Association.

SECTION 1103. Licenses, Permits and Approvals.

In the event that any goods to be purchased or services to be provided with respect to this Agreement requires that one, or both, of the Parties possess any licenses, permits or approvals issued by the State of New Jersey or any other governmental body, the said Party, or Parties, as applicable, shall procure and maintain any and all such licenses, permits or approvals during the Term of the Agreement.

Section 1104. Authority to Enter Into Agreement.

Each Party represents that it has the corporate and statutory powers and authorization to enter into this Agreement as its legal and binding obligation, and that there is no pending or threatened litigation by or against it that will, or has the potential to, cause a material adverse impact on that Party's performance obligations under this Agreement.

SECTION 1105. Merger Clause.

This Agreement constitutes and expresses the complete Agreement and entire understanding of the Parties hereto with respect to the subject matter hereof; and the Parties shall not be bound by any other prior promises, representations, agreements, understandings or arrangements relative thereto, other than those expressly set forth herein. Any modifications or amendments to this Agreement shall be in writing and signed by both Parties.

SECTION 1106. Binding Agreement.

This Agreement shall be binding upon and inure to the benefit of the Parties hereto, and to their respective legal successors and assigns, if any.

SECTION 1107. Modifications.

The provisions of this Agreement may be amended, modified and/or supplemented from time to time by a written instrument approved by each Party hereto.

SECTION 1108. Severability.

The provisions of this Agreement are intended to be severable. If any term or provision hereof is declared or held to be illegal, invalid or unenforceable by a court of competent jurisdiction, for any reason whatsoever, such illegality, invalidity or unenforceability shall not affect the validity of the remainder of this Agreement and this Agreement shall be continued in full force and effect as if such illegal, invalid, or unenforceable provision had not been contained herein.

SECTION 1109. Availability of Funds.

To the extent required by law, this Agreement is subject to the availability and appropriation annually of sufficient funds by each Party to perform that Party's duties

and responsibilities as set forth in this Agreement, provided the said Party shall not unreasonably withhold such availability and appropriation annually.

SECTION 1110. Notices.


All notices and other communications given by either Party to the other Party shall be in writing and shall be deemed to have been given, if delivered by hand, or upon receipt, if mailed by certified mail, return receipt requested, or sent by overnight courier, and properly addressed and directed to the Party to receive same at the applicable address set forth in this Agreement. Either Party may designate a change of address, or a different person or entity to which notices shall be given, by delivery of written notice to that effect to the other Party.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly authorized and properly executed as of the day and year first written above.

WITNESS;


TOWNSHIP OF VERONA


By: 
Township Clerk

By: 
~~Jay Sniatkowski~~
~~Mayer~~ **JOSEPH A. MARTIN**
Town Manager

WITNESS;

PASSAIC VALLEY WATER COMMISSION

By: 
Thomas P. DeVita
Secretary

By: 
Alan C. Levine
President

STATE OF NEW JERSEY:

:SS.:

COUNTY OF PASSAIC :

BE IT REMEMBERED, that on this 29th day of June, 2006, in the year Two Thousand and Six, before me, the subscriber, a Notary Public of the State of New Jersey, personally appeared Thomas P. De Vita who, being by me duly sworn on his/~~her~~ oath, depose and made proof to my satisfaction, that he/~~she~~ is the Secretary of Passaic Valley Water Commission, a Public Body of the State of New Jersey, the Grantee named in the within instrument; that Alan C. Levine is the President of said Public Body; that the execution, as well as the making of this Instrument, has been duly authorized by a proper resolution of the Board of Commissioners of said Public Body; that deponent well knows the corporate seal of said Public Body; and the seal affixed to said Instrument is such corporate seal and was hereto affixed and said Instrument signed and delivered by said Secretary, as for his/~~her~~ voluntary act and deed, and as and for the voluntary act and deed of said Public Body, in presence of deponent who thereupon subscribed his/~~her~~ name thereto as witness.

Subscribed and sworn to before me,
 at Clifton, New Jersey
 the date aforesaid



 Notary Public



 Secretary

CHARLOTTE R. ALVINO
 Notary Public of New Jersey
 My Commission Expires Dec. 28, 2007

**PASSAIC VALLEY WATER COMMISSION
AND
TOWNSHIP OF VERONA**

THE "1991 AGREEMENT"

EXHIBIT A

AGREEMENT

AGREEMENT, made this 12th day of July, 1991, between PASSAIC VALLEY WATER COMMISSION, a public body of the State of New Jersey, hereinafter called Commission, and TOWNSHIP OF VERONA, A Municipal Corporation of the State of New Jersey, hereinafter called Township; and

WHEREAS, Township obtains its supply of potable water from Commission by agreement dated September 14, 1978; and

WHEREAS, by agreement between Township and Commission dated March 22, 1978, Commission acquired the Verona Water Transmission Pumping System; and

WHEREAS, the parties desire to share the cost of the rehabilitation of Fairview Avenue Tank #2, situated in the Township of Verona, on an equal basis, both now and in future rehabilitation projects associated with the tank, it is hereby agreed as follows:

1. The Township shall retain sole ownership of Tank #2, hereinafter referred to as Tank.

2. The Commission shall retain perpetual use and benefit of Tank operations. The Tank operating procedures shall remain as it has been in the past, with the exception that the operating range shall be limited to an eight foot (8) range instead of a fifteen foot (15) range. The Township further agrees not to take the Tank out of service without first coordinating such actions with the Commission.

3. The Commission agrees to install a "check valve, motor controlled butterfly valve" and appurtenances substantially in accordance with plans and specifications prepared by the Township, on the transmission main that services the Township at the Commission's sole expense. The Commission agrees to be solely responsible for all costs and charges on account of any future maintenance and repairs of said check valve, motor controlled butterfly valve and appurtenances. Operating procedures for said motor controlled valve, shall be mutually agreed upon by Commission and Township. The Commission further agrees that said motor controlled butterfly valve must close

when there is only one million gallons of water remaining in the tank.

4. The parties agree to the attached schedule entitled, "Fairview Avenue Tank Rehabilitation Construction," which schedule may be adjusted based upon facts and circumstances mutually agreed upon.

5. The Commission agrees to be responsible for one half (1/2) the cost of Contract #84-12, between the Township and Corrosion Control Corporation, R.D. #1, Box 156, U.S. Route 3130, Pedricktown, NJ 08067. Included therein is the base bid together with Supplemental bid items "A" and "B", totalling the sum of \$409,188.00, of which total the Commission shall be responsible for one half. Said sum of \$204,594.00 shall be paid by the Commission, by way of credits to be granted by the Commission to the Township's water consumption over a three (3) year period. Said three (3) year period shall commence at the time all rehabilitative facilities are complete and operational.

6. All future rehabilitation projects relative to Tank shall only be undertaken after both parties to this agreement have agreed to need, scope and approximate project cost.

7. Each of the parties hereto agree to indemnify and save the other party harmless on account of any and all acts of its agents, servants or employees.

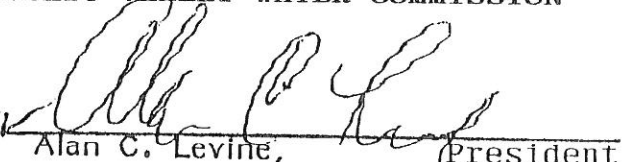
8. This agreement shall bind and enure to the benefit of the parties hereto, their successors and assigns.

IN WITNESS WHEREOF, the parties hereto have by their duly authorized offices executed this agreement, and have caused their corporate seals to be affixed, the day and year first above written.

ATTEST:

By 
James V. Sparano, Secretary

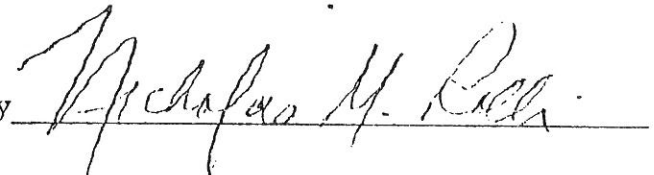
PASSAIC VALLEY WATER COMMISSION

By 
Alan C. Levine, President

ATTEST:

By 
Vincent D. Kraus

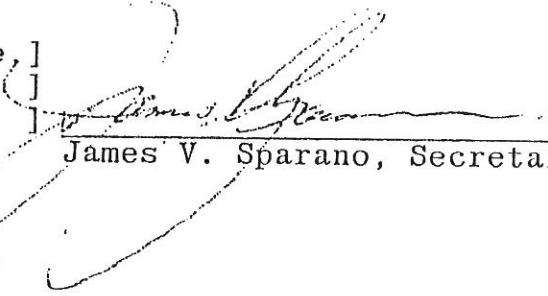
TOWNSHIP OF VERONA


By 
Nicholas M. Ricci

STATE OF NEW JERSEY]
]ss.:
COUNTY OF PASSAIC]

BE IT REMEMBERED, that on this 10th day of July , in the year One Thousand Nine Hundred and Ninety-one, before me, the subscriber, a Notary Public of the State of New Jersey, personally appeared James V. Sparano, who, being by me duly sworn on his oath, doth depose and made proof to my satisfaction, that he is the Secretary of Passaic Valley Water Commission, a Municipal Corporation of the State of New Jersey, the Grantee named in the within instrument; that Alan C. Levine is the President of said Corporation; that the execution as well as the making of this Instrument, has been duly authorized by a proper resolution of the Board of Commissioners of said Corporation; that deponent well knows the corporate seal of said Corporation; and the seal affixed to said Instrument is such corporate seal and was hereto affixed and said Instrument signed and delivered by said President, as for his voluntary act and deed, and as and for the voluntary act and deed of said Corporation, in presence of deponent who thereupon subscribed his name thereto as witness.

Subscribed and sworn to before me,]
at Clifton, New Jersey]
the date aforesaid]


James V. Sparano, Secretary

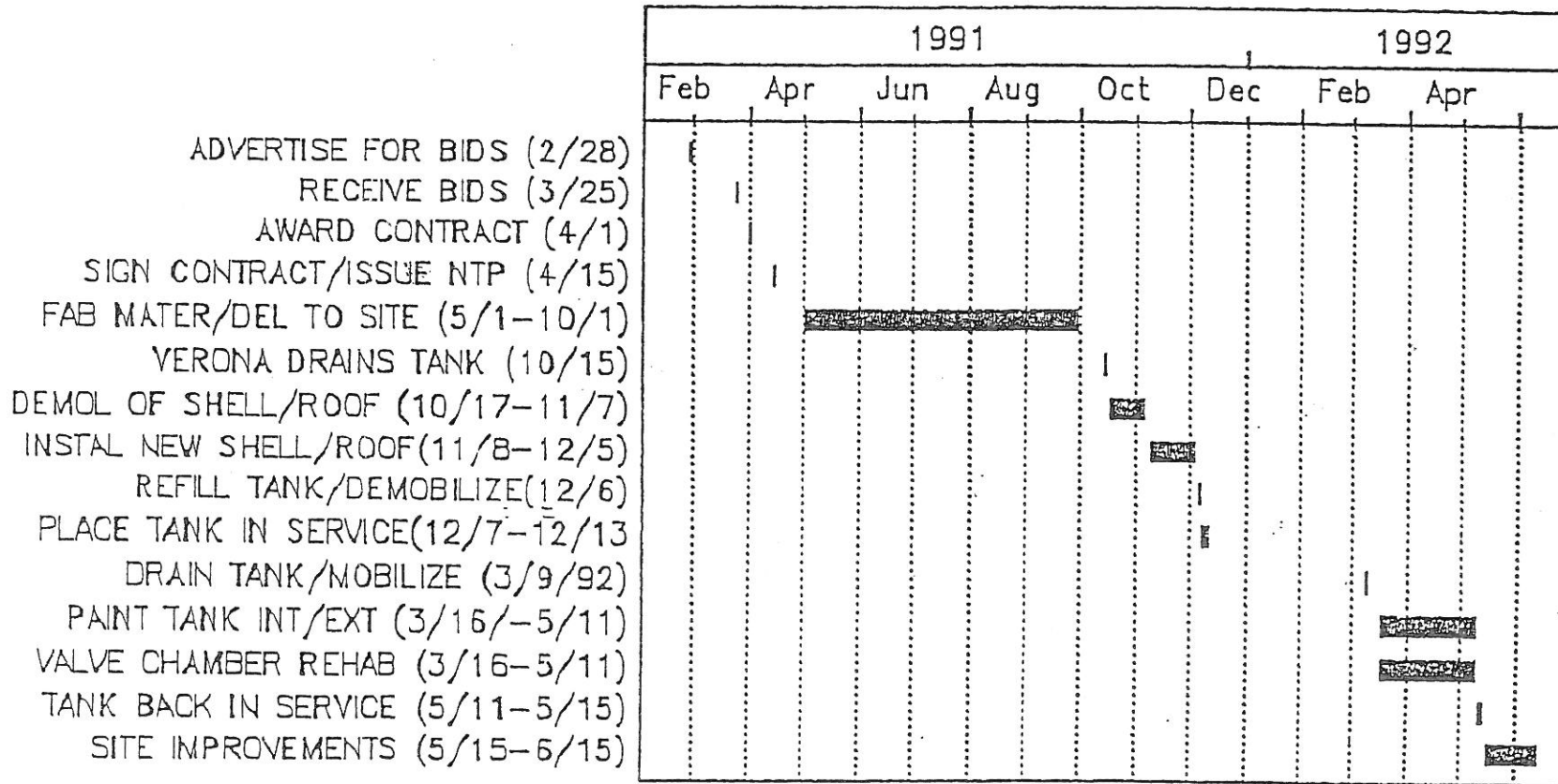

Charlotte R. Alvino
Notary Public of New Jersey
My commission expires 12/28/92

TOWNSHIP OF VERONA

FAIRVIEW AVENUE TANK REHABILITATION CONSTRUCTION SCHEDULE

ACTIVITY

DURATION



TWO PHASE CONSTRUCTION SCHEDULE


RESOLUTION

No. 72

Be it resolved by the Mayor and Council of the Township of Verona, N.J., that


the Contract with the Passaic Valley Water Commission, known as the PVWC, for the furnishing and delivery of potable water to the Township of Verona as a bulk purveyor is hereby approved and that the Township Manager is authorized to execute the Contract on behalf of the Township subject to the approval of the final Contract document by the Township Engineer and Township Attorney.

I hereby certify that the foregoing
is a true copy of a resolution
adopted by the Township Council
of the Township of Verona, New Jersey
at a meeting held on 5-1-06


Jean McEnroe, Municipal Clerk

RECORD OF COUNCIL VOTE				
	Aye	Nay	Abstain	Absent
Mayor Sniatkowski	✓			
Deputy Mayor Robbins	✓			
Council Members				
Condorelli (2)	✓			
Detore	✓			
McKenna (1)	✓			

Adopted by Council on May 1, 2006
Date


Municipal Clerk

Appendix C. Distribution System Inventory

WATERMAIN INVENTORY

Owner	LifecycleS	WaterType	Diameter	Material	Type	Installation Year	Length	Notes
Municipality	Active	Potable	12	DIP	Distribution	1960	65.04	
Municipality	Active	Potable	12	DIP	Distribution	1960	390.44	
Authority	Active	Potable	24	DIP	Transmission	1979	5.69	
Municipality	Active	Potable	6	DIP	Hydrant	1979	5.31	
Municipality	Active	Potable	6	DIP	Hydrant	1979	18.89	
Municipality	Active	Potable	6	DIP	Hydrant	1979	5.27	
Municipality	Active	Potable	6	DIP	Hydrant	1979	4.89	
Municipality	Active	Potable	6	DIP	Hydrant	1979	4.70	
Authority	Active	Potable	24	DIP	Transmission	1979	8.28	
Municipality	Active	Potable	6	DIP	Distribution	1979	2.76	
Municipality	Active	Potable	6	DIP	Distribution	1979	240.28	
Municipality	Active	Potable	6	DIP	Distribution	1979	4.30	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	91.27	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	11.22	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	20.53	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.05	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	481.92	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	252.83	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	19.84	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	24.44	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.04	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	23.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	25.95	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	50.99	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	5.73	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	8.19	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.71	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	477.12	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	154.87	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.45	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	29.60	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.26	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.55	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	335.73	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.45	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.44	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.90	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	428.54	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.27	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	30.16	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	243.18	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	8.54	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	203.14	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.53	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.49	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	8.58	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	275.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	197.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.06	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.93	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	206.06	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	109.91	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.26	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	217.12	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.82	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	8.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	480.15	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	17.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	36.89	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.82	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.22	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	424.35	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	73.92	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	8.46	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	13.41	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	11.59	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	8.85	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	11.39	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	19.54	
Municipality	Abandoned	Potable	6	DIP-CL	Distribution	1985	524.63	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	37.09	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	24.13	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	489.95	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.21	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.01	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	171.11	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	2.07	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.53	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.49	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.00	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	235.61	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	148.04	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.01	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	274.33	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	132.73	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	48.05	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	7.50	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	16.47	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	9.79	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	388.20	

Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.71
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.49
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	114.51
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	80.13
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	3.97
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	166.08
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	183.40
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	17.13
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	9.59
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	314.45
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	267.12
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	3.97
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	8.69
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.76
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	200.72
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.98
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.53
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.85
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	20.51
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	426.20
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	37.98
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	93.76
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	60.48
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.01
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	17.91
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.34
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.27
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	422.45
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.46
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	251.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	25.00
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	343.87
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	5.13
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.24
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.93
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.99
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.71
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	205.08
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.03
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	18.11
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	103.50
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.63
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	24.34
Municipality	Active	Potable	8	DIP	Transmission	1985	321.23
Municipality	Active	Potable	8	DIP	Transmission	1985	3.16
Municipality	Active	Potable	8	DIP	Transmission	1985	2.75
Municipality	Active	Potable	8	DIP	Transmission	1985	3.16
Municipality	Active	Potable	8	DIP	Transmission	1985	4.89
Municipality	Active	Potable	8	DIP	Transmission	1985	1.67
Municipality	Active	Potable	8	DIP	Transmission	1985	1.28
Municipality	Active	Potable	6	DIP	Transmission	1985	2.62
Municipality	Active	Potable	8	DIP	Transmission	1985	101.74
Municipality	Active	Potable	8	DIP	Transmission	1985	107.53
Municipality	Active	Potable	8	DIP	Transmission	1985	4.00
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	25.88
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	27.74
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.69
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	440.95
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.46
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	20.04
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	601.30
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.93
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	9.44
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	133.13
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	1034.03
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	101.85
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	9.47
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	4.55
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	3.49
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	4.60
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	638.47
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	107.80
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	39.25
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	5.17
Municipality	Active	Potable	4	Unk	Distribution	1985	43.36
Municipality	Active	Potable	4	Unk	Distribution	1985	100.87
Municipality	Active	Potable	4	Unk	Distribution	1985	6.33
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	107.87
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	21.72
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	28.93
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	130.82
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	342.29
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.11
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.03
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	6.02
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	7.76
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	305.10
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	129.48
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	26.13
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	6.69
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	31.36
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	23.14
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	7.38
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	4.31
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	13.24
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	8.64

Municipality	Active	Potable	12	DIP-CL	Distribution	1985	298.25	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	115.39	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.37	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.19	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	288.00	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	79.69	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	7.93	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	15.32	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	3.63	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	3.27	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.56	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	9.68	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	88.68	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.59	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	103.96	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	7.37	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	21.10	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	347.60	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.61	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	16.51	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	9.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	33.22	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	468.90	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	46.95	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	6.64	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	202.51	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	9.77	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	5.17	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.66	
Municipality	Active	Potable	8	DIP-CL	Transmission	1985	839.09	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	459.77	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	27.60	
Municipality	Active	Potable	8	DIP-CL	Transmission	1985	30.40	
Municipality	Active	Potable	8	DIP-CL	Transmission	1985	979.53	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	5.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.00	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.73	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.26	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	9.54	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	94.89	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	7.17	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	390.20	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	74.13	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	5.25	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	21.84	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	24.78	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	19.93	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	3.74	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	456.30	
Municipality	Active	Potable	8	DIP	Transmission	1985	38.77	
Municipality	Active	Potable	8	DIP	Transmission	1985	13.50	
Municipality	Active	Potable	8	DIP	Transmission	1985	3.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	130.73	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	203.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	181.84	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	294.75	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	88.18	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	312.75	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	167.21	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	74.85	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	47.03	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.01	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.55	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.54	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	293.90	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	509.39	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.96	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	58.94	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	320.61	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	130.25	
Authority	Active	Potable	24	DIP-CL	Transmission	1985	4.40	
Authority	Active	Potable	24	DIP-CL	Transmission	1985	5.97	
Authority	Active	Potable	24	DIP-CL	Transmission	1985	513.02	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	10.88	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	8.40	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	5.47	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	2.36	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	27.84	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	4.69	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	4.17	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	7.62	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	3.68	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	24.83	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	166.94	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	86.54	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	18.57	Blow Off Line
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	3.89	Blow Off Line
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	227.09	
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	9.76	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	62.64	
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	251.02	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	53.28	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	16.32	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	14.83	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.97	

Municipality	Active	Potable	6	DIP-CL	Distribution	1985	285.73
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	489.89
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	260.90
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	8.73
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	10.64
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	7.87
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	5.74
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	23.28
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	52.99
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	10.16
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	318.14
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	63.68
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.24
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	39.06
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	2.62
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	318.95
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.27
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	47.72
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	37.87
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	341.96
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	154.69
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	62.73
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	154.31
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	41.79
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	355.81
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	274.47
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	17.89
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	46.71
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	30.60
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	12.05
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	28.56
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	159.44
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.26
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.08
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	139.22
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.01
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	8.34
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	67.46
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	8.40
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	37.63
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	7.33
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	321.97
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.43
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.57
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	132.07
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	18.64
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	84.07
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	57.49
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	264.25
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	25.91
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	48.55
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	5.37
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	9.79
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.76
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	7.95
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	333.44
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	117.77
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.66
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.42
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	164.57
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	57.31
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	10.27
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	88.48
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	7.37
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	18.40
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	161.41
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.79
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.01
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.21
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.61
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	279.43
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	15.04
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	9.39
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	1.50
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	9.61
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.66
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	108.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.72
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.46
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	524.49
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.65
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	28.48
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	257.59
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	11.19
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	37.64
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	5.73
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	8.59
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	159.91
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	6.66
Municipality	Active	Potable	4	DIP-CL	Distribution	1985	21.91
Municipality	Active	Potable	4	DIP-CL	Distribution	1985	6.17
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.33
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	48.64
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	6.19
Municipality	Active	Potable	2	DIP-CL	Distribution	1985	6.02
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	15.02

Municipality	Active	Potable	6	DIP-CL	Distribution	1985	11.41	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.73	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.53	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	250.84	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	11.21	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	8.60	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	273.66	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	52.89	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	7.46	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	85.80	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	18.75	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	14.91	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	3.91	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.30	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	389.38	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	5.09	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	4.24	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	51.02	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	17.47	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	75.57	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	129.61	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.91	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.69	
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	5.17	
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	17.64	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	6.41	
Municipality	Active	Potable	12	DIP-CL	Distribution	1985	282.81	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	5.47	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	320.31	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	8.59	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	6.85	
Authority	Active	Potable	24	DIP-CL	Transmission	1985	655.68	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	5.28	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.56	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.18	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	4.91	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	7.73	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1985	10.22	
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	86.75	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	328.10	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	132.01	
Municipality	Active	Potable	10	DIP-CL	Distribution	1985	23.95	
Authority	Active	Potable	24	DIP-CL	Transmission	1985	479.88	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	133.63	
Municipality	Active	Potable	6	DIP-CL	Distribution	1985	35.62	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	199.38	
Municipality	Active	Potable	8	DIP-CL	Distribution	1985	44.96	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	40.70	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.00	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	8.48	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	383.38	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.51	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.01	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	3.54	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	22.47	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	51.61	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	29.13	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	11.11	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.64	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	421.20	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.38	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	35.00	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	387.41	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.19	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	8.29	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	375.03	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	116.61	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.16	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.93	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	312.67	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.43	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.71	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	9.85	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	9.08	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	3.05	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	584.65	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.67	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.29	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	12.54	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	414.87	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	2.38	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	6.08	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	7.35	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	6.39	
Municipality	Active	Potable	10	DIP	Transmission	1986	631.93	Main to Lakeside Ave
Municipality	Active	Potable	10	AC	Transmission	1986	226.57	Main to Lakeside Ave
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	148.45	
Municipality	Active	Potable	10	DIP	Distribution	1986	3.91	
Municipality	Active	Potable	10	DIP	Distribution	1986	18.45	
Municipality	Active	Potable	10	DIP	Distribution	1986	4.42	
Municipality	Active	Potable	10	DIP	Distribution	1986	6.70	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.37	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	15.38	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	554.49	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.35	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.58	

Municipality	Active	Potable	6	DIP-CL	Distribution	1986	25.84	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	12.57	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	29.74	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	319.50	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	27.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	11.47	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	256.36	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	364.59	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.67	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.09	
Municipality	Active	Potable	6	DIP	Distribution	1986	42.43	
Municipality	Active	Potable	6	DIP	Distribution	1986	4.95	
Municipality	Active	Potable	8	DIP-CL	Transmission	1986	67.02	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.33	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	397.92	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	373.71	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.62	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	17.50	
Municipality	Active	Potable	6	DIP	Distribution	1986	22.57	
Municipality	Active	Potable	6	DIP	Distribution	1986	6.50	
Municipality	Active	Potable	8	DIP-CL	Transmission	1986	247.76	
Municipality	Active	Potable	8	DIP-CL	Transmission	1986	513.40	
Municipality	Active	Potable	6	DIP	Hydrant	1986	7.40	
Municipality	Active	Potable	6	DIP	Hydrant	1986	4.78	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.19	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	281.88	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	10.24	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	41.49	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	13.27	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.87	
Municipality	Active	Potable	4	Unk	Distribution	1986	21.69	
Municipality	Active	Potable	4	Unk	Distribution	1986	26.01	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	220.74	
Municipality	Active	Potable	4	Unk	Distribution	1986	5.32	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	51.57	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	306.20	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.62	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.11	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	379.52	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.67	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	29.42	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	290.46	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	280.23	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.29	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	13.76	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	64.91	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	94.80	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	495.97	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	189.28	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	33.74	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	11.64	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.99	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	8.50	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	29.23	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	9.55	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.94	
Municipality	Active	Potable	4	GAL	Distribution	1986	26.34	Galvanized Service Line
Municipality	Active	Potable	4	GAL	Distribution	1986	44.75	Galvanized Service Line
Municipality	Active	Potable	4	GAL	Distribution	1986	3.88	Galvanized Service Line
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	291.57	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	398.71	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.42	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	46.62	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	15.85	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	11.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.51	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	343.42	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	201.10	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	8.31	
Municipality	Active	Potable	6	DIP	Transmission	1986	261.47	Main to Lakeside Ave
Municipality	Active	Potable	6	DIP	Transmission	1986	33.43	Main to Lakeside Ave
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	49.74	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	18.79	
Municipality	Active	Potable	10	DIP	Transmission	1986	2.65	Main to Lakeside Ave
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.78	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.01	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	427.56	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.36	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.94	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	465.41	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.27	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	2.86	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	593.02	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	32.48	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	84.42	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	261.94	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.06	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.18	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	37.44	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	456.57	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.94	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.11	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	421.63	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	66.13	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.27	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.57	

Municipality	Active	Potable	6	DIP-CL	Distribution	1986	34.94	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	29.82	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	30.77	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	93.75	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	239.43	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.11	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.66	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	32.41	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	328.26	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	177.12	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	40.89	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	231.90	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.20	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.90	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	277.05	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	21.80	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	270.99	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	402.74	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.01	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.50	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	386.96	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	12.19	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	59.31	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	15.77	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.65	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	9.92	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	278.48	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	8.70	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	328.57	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	355.02	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.83	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	8.34	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	10.33	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.46	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.29	
Authority	Active	Potable	24	DIP	Transmission	1986	1403.94	
Authority	Active	Potable	24	DIP	Transmission	1986	4.11	
Municipality	Active	Potable	6	DIP	Hydrant	1986	4.32	
Municipality	Active	Potable	6	DIP	Hydrant	1986	5.61	
Municipality	Active	Potable	6	DIP	Hydrant	1986	4.89	
Authority	Active	Potable	24	DIP	Transmission	1986	3.73	
Municipality	Active	Potable	6	DIP	Hydrant	1986	13.41	
Municipality	Active	Potable	6	DIP	Hydrant	1986	3.85	
Authority	Active	Potable	24	DIP	Transmission	1986	660.08	
Authority	Active	Potable	24	DIP	Transmission	1986	696.97	
Municipality	Active	Potable	6	DIP	Hydrant	1986	5.03	
Municipality	Active	Potable	6	DIP	Hydrant	1986	33.74	
Other	Active	Potable	6	DIP	Distribution	1986	51.84	Caldwell Main
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.13	
Municipality	Active	Potable	8	DIP	Distribution	1986	387.29	
Municipality	Active	Potable	6	DIP	Distribution	1986	6.98	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.33	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	19.95	
Municipality	Active	Potable	6	DIP	Distribution	1986	11.42	
Other	Active	Potable	6	DIP	Hydrant	1986	9.39	Caldwell Main
Other	Active	Potable	6	DIP	Distribution	1986	36.18	Caldwell Main
Municipality	Active	Potable	6	DIP	Distribution	1986	13.67	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	9.66	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	9.27	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	9.16	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	17.12	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	27.40	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	479.98	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	267.79	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	26.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.30	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	307.95	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	9.14	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.79	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.94	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	18.47	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	31.83	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	81.97	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	29.24	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.75	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	438.37	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.96	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	14.32	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	222.73	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	21.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	320.84	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.15	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	373.26	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	144.02	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	10.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	26.46	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.52	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.25	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.16	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	272.05	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.01	

Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.27
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	17.86
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.37
Municipality	Active	Potable	6	Unk	Distribution	1986	60.89
Municipality	Active	Potable	6	Unk	Distribution	1986	6.51
Authority	Active	Potable	24	DIP	Transmission	1986	613.00
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	281.81
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.14
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.34
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	315.85
Authority	Active	Potable	24	DIP	Transmission	1986	9.90
Municipality	Active	Potable	6	DIP	Hydrant	1986	4.65
Municipality	Active	Potable	6	DIP	Hydrant	1986	4.00
Municipality	Active	Potable	6	DIP	Hydrant	1986	4.56
Municipality	Active	Potable	6	DIP	Hydrant	1986	14.32
Municipality	Active	Potable	6	DIP	Hydrant	1986	5.58
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	8.31
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	89.71
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.16
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.44
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	691.28
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	13.07
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.53
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	38.52
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	442.35
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	12.79
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.95
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.97
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	383.19
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.16
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.35
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	13.26
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.39
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	268.04
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.66
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.99
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	309.75
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	53.16
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	282.59
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.20
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	100.16
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.71
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.12
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	14.14
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	156.40
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.92
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.37
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	242.65
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	476.38
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.07
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.67
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.35
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.75
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.46
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	251.30
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	125.78
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.62
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	347.41
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.56
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.92
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	310.41
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	34.34
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	24.42
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	23.02
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.27
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.22
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	440.94
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.59
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	3.97
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	26.12
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	10.64
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.35
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	31.67
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	22.34
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	189.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	59.88
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.04
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.41
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	201.50
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	36.44
Municipality	Active	Potable	8	Unk	Distribution	1986	5.31
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	13.42
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	2.23
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	864.94
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	292.13
Municipality	Active	Potable	12	DIP	Transmission	1986	804.24
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	9.32
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.80
Municipality	Active	Potable	12	DIP	Transmission	1986	104.78
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	237.51
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	39.60
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.17
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.45
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	68.07
Municipality	Active	Potable	6	DIP	Distribution	1986	43.88
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	9.72

Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.01	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	171.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	115.74	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.03	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.80	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.30	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	138.00	
Municipality	Active	Potable	12	DIP	Transmission	1986	77.91	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	162.56	
Municipality	Active	Potable	12	DIP	Transmission	1986	311.23	
Municipality	Active	Potable	12	DIP	Transmission	1986	531.80	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	107.75	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.85	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.72	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	35.44	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.98	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	131.92	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	284.54	
Municipality	Active	Potable	6	DIP	Distribution	1986	4.40	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	365.50	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	251.77	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	287.99	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	433.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.59	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.12	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	50.94	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.44	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.70	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	10.30	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	34.84	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	416.28	
Municipality	Active	Potable	8	DIP-CL	Hydrant	1986	4.55	
Municipality	Active	Potable	8	DIP-CL	Hydrant	1986	4.05	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	17.41	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.65	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	515.10	
Municipality	Active	Potable	6	DIP	Distribution	1986	5.57	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	343.36	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	17.78	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	10.21	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	308.03	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	87.33	
Municipality	Active	Potable	6	DIP	Distribution	1986	28.53	
Municipality	Active	Potable	6	DIP	Distribution	1986	6.38	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.87	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.84	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.80	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	365.40	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	285.92	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	21.78	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	32.33	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.23	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	18.35	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.31	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.58	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	329.23	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	421.22	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.55	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.26	
Municipality	Active	Potable	10	DIP	Transmission	1986	10.23	
Municipality	Active	Potable	10	DIP	Transmission	1986	768.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	459.76	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.34	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	48.97	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.79	
Municipality	Active	Potable	10	DIP-CL	Distribution	1986	4.61	
Municipality	Active	Potable	10	DIP	Transmission	1986	20.77	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.88	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.76	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	280.06	
Municipality	Active	Potable	6	DIP	Distribution	1986	3.54	
Municipality	Active	Potable	6	DIP	Distribution	1986	2.37	EFW
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	2.87	EFW
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	9.27	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	241.30	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.27	
Municipality	Active	Potable	6	DIP	Distribution	1986	3.40	
Municipality	Active	Potable	6	DIP	Distribution	1986	3.12	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	214.19	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.84	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.80	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	486.63	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	324.92	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	9.62	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	534.52	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.24	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.19	
Municipality	Active	Potable	10	DIP	Transmission	1986	16.26	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	92.90	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	96.36	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.39	
Municipality	Active	Potable	10	DIP	Transmission	1986	3.64	
Municipality	Active	Potable	10	DIP	Transmission	1986	4.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	727.82	
Municipality	Active	Potable	10	DIP	Transmission	1986	570.00	

Municipality	Active	Potable	10	DIP	Transmission	1986	30.82	
Municipality	Active	Potable	8	DIP	Distribution	1986	3.25	
Municipality	Active	Potable	8	DIP	Distribution	1986	34.97	
Municipality	Active	Potable	10	DIP	Distribution	1986	3.06	
Municipality	Active	Potable	10	DIP	Distribution	1986	41.74	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	53.18	
Municipality	Active	Potable	10	DIP	Transmission	1986	316.44	
Municipality	Active	Potable	6	DIP	Transmission	1986	6.11	
Municipality	Active	Potable	6	DIP	Transmission	1986	11.95	
Municipality	Active	Potable	10	DIP	Transmission	1986	44.11	
Municipality	Active	Potable	10	DIP	Transmission	1986	7.40	EFW
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.66	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.76	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.62	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	25.33	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.52	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.36	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.25	
Municipality	Active	Potable	6	DIP	Distribution	1986	20.26	
Municipality	Active	Potable	6	DIP	Distribution	1986	8.83	
Municipality	Active	Potable	6	DIP	Distribution	1986	543.74	
Municipality	Active	Potable	6	DIP	Distribution	1986	207.48	
Municipality	Active	Potable	6	DIP	Distribution	1986	360.92	
Municipality	Active	Potable	6	DIP	Distribution	1986	30.75	
Municipality	Active	Potable	6	DIP	Distribution	1986	57.84	
Municipality	Active	Potable	6	DIP	Distribution	1986	167.91	
Municipality	Active	Potable	6	DIP	Distribution	1986	5.93	
Municipality	Active	Potable	6	DIP	Hydrant	1986	4.89	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.14	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	44.73	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	137.54	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	53.66	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	146.22	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	26.88	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	5.48	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	77.19	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.97	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	14.84	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.16	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	7.61	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	397.73	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	7.13	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	28.18	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.69	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.27	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	366.34	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	28.52	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	22.49	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	13.47	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.03	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	206.27	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	225.27	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	16.11	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.19	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.71	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	281.84	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.64	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.79	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	275.99	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	9.24	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	127.69	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.37	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	14.58	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	63.41	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.93	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.37	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	236.17	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	3.16	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	2.78	
Municipality	Active	Potable	12	DIP	Transmission	1986	187.68	
Municipality	Active	Potable	12	DIP	Transmission	1986	288.14	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	16.04	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	28.12	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	11.84	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	3.45	
Municipality	Active	Potable	12	DIP	Transmission	1986	345.34	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	14.84	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	339.31	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	326.69	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	16.99	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	278.65	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.38	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	12.19	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	8.10	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	421.69	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.74	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	53.70	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	54.02	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	271.10	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.44	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.89	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	66.83	

Municipality	Active	Potable	6	DIP-CL	Distribution	1986	133.55	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	5.61	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.11	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	334.19	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	274.66	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	15.84	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	12.27	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	226.79	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	19.86	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	4.28	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	74.47	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.55	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.94	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.66	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.71	
Other	Active	Potable	8	DIP	Distribution	1986	79.59	Cedar Grove
Other	Active	Potable	8	DIP	Distribution	1986	67.11	Cedar Grove
Municipality	Active	Potable	12	DIP	Transmission	1986	4.74	
Municipality	Active	Potable	12	DIP	Transmission	1986	14.83	
Municipality	Active	Potable	12	DIP	Transmission	1986	8.59	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	189.89	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	102.53	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	519.35	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.40	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	6.44	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.80	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.95	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	161.52	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	296.30	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	16.62	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	220.45	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	2.90	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.52	
Municipality	Active	Potable	6	DIP	Distribution	1986	4.12	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	7.74	
Municipality	Active	Potable	6	DIP	Distribution	1986	10.64	
Municipality	Active	Potable	6	DIP	Distribution	1986	109.85	
Municipality	Active	Potable	6	DIP	Distribution	1986	73.21	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.27	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	472.99	
Municipality	Active	Potable	6	DIP	Distribution	1986	32.07	
Municipality	Active	Potable	6	DIP	Distribution	1986	144.90	
Municipality	Active	Potable	6	DIP	Distribution	1986	32.90	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	471.56	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	2.96	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	10.55	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.52	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.25	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	35.61	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	232.69	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.37	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	7.35	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	480.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	276.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.51	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.31	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	3.81	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.38	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	5.92	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1986	4.76	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	413.41	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	6.34	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	10.85	
Municipality	Active	Potable	6	DIP-CL	Distribution	1986	42.32	
Municipality	Active	Potable	12	DIP	Transmission	1986	39.47	
Municipality	Active	Potable	12	DIP	Transmission	1986	190.23	
Municipality	Active	Potable	8	DIP-CL	Distribution	1986	29.69	
Municipality	Active	Potable	6	DIP	Distribution	1986	105.36	
Municipality	Active	Potable	18	DIP-CL	Transmission	1987	18.63	
Municipality	Active	Potable	18	DIP-CL	Transmission	1987	5.19	
Municipality	Active	Potable	18	DIP-CL	Transmission	1987	13.06	
Municipality	Active	Potable	18	DIP-CL	Transmission	1987	182.56	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	2.19	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	30.85	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	3.73	
Municipality	Active	Potable	12	DIP-CL	Distribution	1987	32.25	
Municipality	Active	Potable	12	DIP-CL	Distribution	1987	4.45	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1987	2.81	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1987	5.24	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	13.88	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	21.58	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	7.59	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	4.69	
Authority	Active	Potable	24	DIP-CL	Transmission	1987	26.26	
Authority	Active	Potable	24	DIP-CL	Transmission	1987	100.31	
Authority	Active	Potable	24	DIP-CL	Transmission	1987	13.64	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1987	3.79	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1987	4.31	
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	292.78	
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	10.63	
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	6.88	
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	9.20	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	7.92	
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	150.60	
Municipality	Active	Potable	8	DIP	Distribution	1987	19.94	
Municipality	Active	Potable	8	DIP	Distribution	1987	172.04	

Municipality	Active	Potable	8	DIP-CL	Distribution	1987	35.43
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	526.06
Municipality	Active	Potable	8	DIP	Distribution	1987	60.25
Municipality	Active	Potable	8	DIP	Distribution	1987	57.89
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	4.31
Municipality	Active	Potable	8	DIP	Distribution	1987	272.62
Municipality	Active	Potable	8	DIP	Distribution	1987	43.83
Municipality	Active	Potable	8	DIP	Distribution	1987	68.83
Municipality	Active	Potable	8	DIP	Distribution	1987	8.75
Municipality	Active	Potable	6	DIP	Hydrant	1987	20.67
Municipality	Active	Potable	6	DIP	Hydrant	1987	7.08
Municipality	Active	Potable	8	DIP	Distribution	1987	6.68
Municipality	Active	Potable	8	DIP	Distribution	1987	138.12
Municipality	Active	Potable	8	DIP	Distribution	1987	33.52
Municipality	Active	Potable	8	DIP	Distribution	1987	310.04
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	217.85
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	151.66
Municipality	Active	Potable	6	DIP-CL	Hydrant	1987	4.72
Municipality	Active	Potable	6	DIP-CL	Hydrant	1987	2.86
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	5.74
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	4.42
Municipality	Active	Potable	6	DIP-CL	Distribution	1987	319.52
Municipality	Active	Potable	18	DIP-CL	Transmission	1987	24.82
Municipality	Active	Potable	18	DIP-CL	Transmission	1987	61.82
Municipality	Active	Potable	18	DIP-CL	Transmission	1987	40.70
Municipality	Active	Potable	18	DIP-CL	Transmission	1987	3.95
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	392.07
Municipality	Active	Potable	8	DIP-CL	Distribution	1987	387.01
Municipality	Active	Potable	6	DIP	Distribution	1988	105.52
Municipality	Active	Potable	6	DIP	Distribution	1988	162.31
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	4.65
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	393.77
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	4.45
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	2.91
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	376.70
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	459.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	167.23
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	39.70
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	6.67
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	461.36
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	9.39
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	4.76
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	44.53
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	393.28
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	65.23
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	6.29
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	3.61
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	89.00
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	449.45
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	94.24
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	291.50
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	5.37
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	3.05
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	4.24
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	3.97
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	8.24
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	371.41
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	442.63
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	4.52
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	6.34
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	553.82
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	20.38
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	18.17
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	31.43
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	211.08
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	29.96
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	29.06
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	6.74
Municipality	Active	Potable	6	DIP-CL	Hydrant	1988	5.56
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	579.21
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	5.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	4.53
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	288.15
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	330.48
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	235.63
Municipality	Active	Potable	6	DIP-CL	Distribution	1988	16.85
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.39
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	39.12
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	9.90
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	6.56
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	489.76
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	6.29
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	167.76
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	160.34
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	5.49
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	32.41
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	8.67
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	30.99
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	23.33
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	8.03
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	24.99
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	13.34
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	10.64
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	411.95
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.43
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.73

Municipality	Active	Potable	6	DIP-CL	Distribution	1989	340.57	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	521.52	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	198.45	
Municipality	Active	Potable	6	DIP	Distribution	1989	62.14	
Municipality	Active	Potable	6	DIP	Distribution	1989	5.25	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	494.94	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	310.80	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	440.77	
Municipality	Active	Potable	6	Unk	Hydrant	1989	2.83	
Municipality	Active	Potable	6	Unk	Hydrant	1989	5.50	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	9.10	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	12.83	
Municipality	Active	Potable	6	DIP	Distribution	1989	4.40	
Municipality	Active	Potable	6	DIP	Distribution	1989	7.07	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.48	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.00	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	474.19	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	370.92	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.70	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.73	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	86.58	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	234.15	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	2.86	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.69	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	252.84	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.53	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	2.88	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	358.52	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	250.00	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	2.33	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	9.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	12.58	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	21.48	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	7.31	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	182.60	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	265.70	
Municipality	Active	Potable	6	DIP	Distribution	1989	4.03	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	5.04	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	8.36	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	87.58	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	161.84	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	90.44	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	198.04	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	83.36	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	5.60	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.81	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.10	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	222.58	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.92	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.43	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	7.28	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	10.05	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	448.63	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	18.58	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	57.10	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	2.90	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.38	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	378.53	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	36.78	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.73	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	6.34	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	17.80	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	313.03	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	93.60	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	51.16	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	304.04	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	44.79	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	25.55	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	6.31	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	495.83	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	28.51	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.72	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.81	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	9.63	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	468.11	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	48.75	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	2.65	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.35	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	20.99	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	282.38	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP	Hydrant	1989	5.06	
Municipality	Active	Potable	6	DIP	Hydrant	1989	3.13	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	62.62	
Municipality	Active	Potable	6	Unk	Hydrant	1989	4.05	
Municipality	Active	Potable	6	Unk	Hydrant	1989	8.79	
Municipality	Active	Potable	6	Unk	Hydrant	1989	10.94	
Municipality	Active	Potable	6	Unk	Hydrant	1989	6.89	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	439.57	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	452.25	
Municipality	Active	Potable	6	Unk	Hydrant	1989	6.42	
Municipality	Active	Potable	6	Unk	Hydrant	1989	5.73	
Municipality	Active	Potable	6	DIP	Distribution	1989	24.20	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP	Distribution	1989	223.98	NOT INDICATED AS CLEANED/LINED
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	10.63	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	21.65	

Municipality	Active	Potable	6	DIP-CL	Distribution	1989	31.59	
Municipality	Active	Potable	6	DIP	Transmission	1989	13.42	FROM 6" EMERGENCY INTERCONNECTION
Municipality	Active	Potable	6	DIP	Transmission	1989	17.00	FROM 6" EMERGENCY INTERCONNECTION
Municipality	Active	Potable	6	DIP	Transmission	1989	6.02	FROM 6" EMERGENCY INTERCONNECTION
Municipality	Active	Potable	6	Unk	Hydrant	1989	4.05	
Municipality	Active	Potable	6	Unk	Hydrant	1989	11.58	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	450.19	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	6.84	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	5.76	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	4.49	
Municipality	Active	Potable	12	DIP	Transmission	1989	786.57	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	452.83	
Municipality	Active	Potable	12	DIP	Transmission	1989	37.74	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	5.03	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	8.76	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	0.14	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	362.80	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.31	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	2.24	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	111.92	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	422.82	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.48	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.14	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	10.30	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	4.10	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	158.32	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	38.80	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	430.17	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.48	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.43	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.56	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.19	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	140.61	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	15.68	
Municipality	Active	Potable	12	DIP	Transmission	1989	1006.46	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	119.30	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	30.47	
Municipality	Active	Potable	12	DIP	Transmission	1989	1252.45	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	452.16	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	3.66	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	7.01	
Municipality	Active	Potable	12	DIP	Transmission	1989	19.80	
Municipality	Active	Potable	12	DIP	Transmission	1989	461.03	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	2.82	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	5.96	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	691.94	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	8.48	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.30	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.13	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	6.85	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	155.48	
Municipality	Active	Potable	12	DIP	Transmission	1989	376.39	
Municipality	Active	Potable	12	DIP	Transmission	1989	15.03	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	6.56	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	48.15	
Municipality	Active	Potable	12	DIP	Transmission	1989	338.27	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	7.01	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	7.01	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	6.53	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.13	
Municipality	Active	Potable	12	DIP	Transmission	1989	23.17	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	3.26	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	3.34	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	2.18	
Municipality	Active	Potable	8	DIP-CL	Distribution	1989	9.54	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	2.51	
Municipality	Active	Potable	12	DIP	Transmission	1989	2.72	
Municipality	Active	Potable	12	DIP	Transmission	1989	2.68	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	6.05	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	330.74	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	47.85	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	3.23	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	5.15	
Municipality	Active	Potable	12	DIP	Transmission	1989	30.62	
Authority	Active	Potable	24	DIP	Transmission	1989	1292.10	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	389.30	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.94	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1989	4.30	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	19.78	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	9.01	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	3.65	
Municipality	Active	Potable	6	DIP-CL	Distribution	1989	312.61	
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	361.87	
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	47.29	
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	278.57	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	7.14	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	3.48	
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	6.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	5.32	
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	482.74	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	3.40	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	6.59	
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	468.03	
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	3.90	
Municipality	Active	Potable	12	DIP-CL	Distribution	1990	1028.41	
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	328.14	

Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	4.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	384.39
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	24.81
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	417.86
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	7.25
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	3.99
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	6.33
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	4.29
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	8.15
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	127.63
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	330.84
Municipality	Active	Potable	10	DIP-CL	Distribution	1990	325.06
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	9.16
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	28.05
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	6.21
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	78.31
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	7.57
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	7.04
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	24.49
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	4.64
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	14.64
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	3.04
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	4.13
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	2.90
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	6.73
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	29.58
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	5.08
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	6.13
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	2.43
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	6.06
Municipality	Active	Potable	12	DIP	Distribution	1990	84.38
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	33.50
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	3.93
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	19.61
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	11.46
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	8.76
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	3.98
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	199.63
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	178.73
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	385.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	133.21
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	24.23
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	21.36
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	4.27
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	333.04
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	10.78
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	127.03
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	6.75
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	30.13
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	419.51
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	92.50
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	5.41
Municipality	Active	Potable	6	DIP-CL	Hydrant	1990	5.22
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	9.52
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	7.75
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	6.28
Municipality	Active	Potable	6	DIP-CL	Distribution	1990	66.54
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.45
Municipality	Active	Potable	12	DIP	Transmission	1992	46.88
Municipality	Active	Potable	6	DIP	Distribution	1992	4.31
Municipality	Active	Potable	6	DIP	Distribution	1992	4.79
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	266.05
Municipality	Active	Potable	6	DIP	Distribution	1992	4.69
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	3.97
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.47
Municipality	Active	Potable	12	DIP	Transmission	1992	477.62
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	316.55
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	278.94
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	2.88
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.12
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	404.44
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	481.54
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	3.35
Municipality	Active	Potable	6	DIP	Distribution	1992	36.88
Municipality	Active	Potable	6	DIP	Distribution	1992	9.44
Municipality	Active	Potable	6	DIP	Distribution	1992	7.67
Municipality	Active	Potable	6	DIP	Distribution	1992	15.75
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	3.53
Municipality	Active	Potable	12	DIP	Transmission	1992	6.79
Municipality	Active	Potable	12	DIP	Transmission	1992	512.62
Municipality	Active	Potable	6	DIP	Hydrant	1992	7.95
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	256.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	4.11
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	6.14
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	510.66
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.92
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	12.03
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	2.46
Municipality	Active	Potable	6	DIP	Distribution	1992	5.05
Municipality	Active	Potable	6	DIP	Distribution	1992	9.09
Municipality	Active	Potable	8	DIP	Distribution	1992	4.14
Municipality	Active	Potable	8	DIP	Distribution	1992	333.81
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.47
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	3.15
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	17.36
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	339.75

Municipality	Active	Potable	6	DIP-CL	Distribution	1992	45.29
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	2.91
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.72
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	33.51
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	25.93
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	351.68
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	312.92
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	6.75
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	4.85
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	83.28
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	1.96
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	2.43
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	383.32
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.08
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	207.84
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	7.68
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	65.09
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	2.61
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.76
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	58.33
Municipality	Active	Potable	12	DIP-CL	Distribution	1992	1464.84
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	22.11
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	25.19
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	103.88
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	51.91
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	416.29
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.15
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	526.61
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	9.66
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	2.54
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	6.07
Municipality	Active	Potable	8	DIP-CL	Distribution	1992	201.81
Municipality	Active	Potable	8	DIP-CL	Distribution	1992	46.02
Municipality	Active	Potable	8	DIP-CL	Distribution	1992	5.63
Municipality	Active	Potable	8	DIP-CL	Distribution	1992	14.08
Municipality	Active	Potable	8	DIP-CL	Distribution	1992	294.96
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.16
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.96
Municipality	Active	Potable	8	DIP-CL	Distribution	1992	7.86
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	3.40
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	219.34
Municipality	Active	Potable	8	DIP-CL	Distribution	1992	4.67
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	4.56
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	2.91
Municipality	Active	Potable	6	DIP	Distribution	1992	21.63
Municipality	Active	Potable	6	DIP	Distribution	1992	3.80
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	335.97
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	2.12
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	10.14
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	422.59
Municipality	Active	Potable	12	DIP	Transmission	1992	563.91
Municipality	Active	Potable	12	DIP	Transmission	1992	8.19
Municipality	Active	Potable	12	DIP	Transmission	1992	52.12
Municipality	Active	Potable	12	DIP	Transmission	1992	32.49
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	150.90
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	3.54
Municipality	Active	Potable	6	DIP	Transmission	1992	3.69
Municipality	Active	Potable	6	DIP	Transmission	1992	118.40
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	212.17
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	2.56
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	9.07
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	252.64
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	8.52
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	2.77
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.19
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	455.15
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	18.83
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	30.19
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	2.56
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	30.44
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	419.29
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	340.87
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	3.00
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.21
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	20.38
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	6.29
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	290.20
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	313.65
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	3.55
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.73
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	120.59
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	24.41
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	211.51
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	27.67
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	4.39
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	6.20
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	3.87
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.07
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	3.70
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	214.88
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	295.57
Municipality	Active	Potable	6	DIP	Distribution	1992	372.93
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	542.25
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	5.92
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	16.69
Municipality	Active	Potable	6	DIP	Distribution	1992	30.96

Municipality	Active	Potable	6	DIP	Distribution	1992	31.27	
Municipality	Active	Potable	6	DIP	Distribution	1992	6.39	
Municipality	Active	Potable	6	DIP	Distribution	1992	4.76	
Municipality	Active	Potable	6	DIP	Distribution	1992	3.69	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.44	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.04	
Municipality	Active	Potable	8	DIP	Transmission	1992	253.83	
Municipality	Active	Potable	12	DIP	Transmission	1992	150.37	
Municipality	Active	Potable	6	DIP	Distribution	1992	362.84	
Municipality	Active	Potable	6	DIP	Distribution	1992	71.89	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	26.26	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	370.82	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	364.25	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	3.71	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.77	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.61	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	6.20	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.81	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.61	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	117.32	
Municipality	Active	Potable	4	DIP-CL	Distribution	1992	10.65	4" Water to School
Municipality	Active	Potable	4	DIP-CL	Distribution	1992	11.94	4" Water to School
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	309.09	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	18.52	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	256.14	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	5.01	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	322.14	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	5.73	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	112.83	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	406.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	19.69	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	15.45	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	35.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	371.19	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	6.54	
Municipality	Active	Potable	8	DIP-CL	Distribution	1992	18.69	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	26.89	
Municipality	Active	Potable	10	DIP-CL	Distribution	1992	216.04	
Municipality	Active	Potable	10	DIP-CL	Distribution	1992	48.77	
Municipality	Active	Potable	10	DIP-CL	Distribution	1992	6.00	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	16.39	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	30.63	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.94	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	160.82	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	3.79	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	4.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1992	281.57	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1992	5.85	
Municipality	Active	Potable	10	DIP-CL	Distribution	1992	124.13	
Municipality	Active	Potable	10	DIP-CL	Distribution	1992	276.73	
Authority	Active	Potable	24	DIP	Transmission	1994	462.87	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	4.66	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	450.93	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1994	6.76	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1994	4.21	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	387.37	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	160.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	312.99	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	16.40	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	10.17	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	6.51	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	5.47	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	8.41	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1994	8.48	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	495.74	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	4.55	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1994	10.25	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	312.35	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	120.68	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	5.91	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	5.60	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	476.18	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	3.90	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1994	7.05	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	16.68	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	4.58	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	374.10	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	20.02	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	16.24	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	6.29	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	375.83	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	10.25	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	38.23	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1994	7.11	
Municipality	Active	Potable	6	DIP-CL	Hydrant	1994	6.30	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	11.73	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	8.15	
Municipality	Active	Potable	6	DIP-CL	Distribution	1994	54.43	
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	215.32	
Municipality	Active	Potable	6	Unk	Hydrant	1998	3.35	
Municipality	Active	Potable	6	Unk	Hydrant	1998	6.86	
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	22.09	
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	0.88	
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	3.45	
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	477.55	
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	144.89	

Municipality	Active	Potable	6	DIP-CL	Distribution	1998	428.71
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	550.10
Municipality	Active	Potable	6	Unk	Hydrant	1998	1.64
Municipality	Active	Potable	6	Unk	Hydrant	1998	3.14
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	69.15
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	5.23
Municipality	Active	Potable	6	DIP	Distribution	1998	5.96
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	424.49
Municipality	Active	Potable	6	Unk	Hydrant	1998	3.39
Municipality	Active	Potable	6	Unk	Hydrant	1998	4.11
Municipality	Active	Potable	6	DIP-CL	Distribution	1998	504.74
Municipality	Active	Potable	8	Unk	Distribution	Unk	103.87
Municipality	Active	Potable	8	Unk	Distribution	Unk	123.03
Municipality	Active	Potable	6	Unk	Distribution	Unk	342.98
Municipality	Active	Potable	6	Unk	Hydrant	Unk	96.76
Municipality	Active	Potable	6	DIP	Hydrant	Unk	1.69
Municipality	Active	Potable	6	DIP	Distribution	Unk	49.48
Municipality	Active	Potable	6	Unk	Hydrant	Unk	8.74
Municipality	Active	Potable	6	Unk	Distribution	Unk	426.21
Municipality	Active	Potable	6	Unk	Distribution	Unk	11.88
Municipality	Active	Potable	6	Unk	Hydrant	Unk	8.05
Municipality	Active	Potable	6	Unk	Distribution	Unk	8.39
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.28
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.24
Municipality	Active	Potable	6	Unk	Distribution	Unk	44.59
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.86
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.56
Municipality	Active	Potable	6	Unk	Distribution	Unk	456.28
Municipality	Active	Potable	6	Unk	Distribution	Unk	370.04
Municipality	Active	Potable	6	Unk	Distribution	Unk	240.77
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.41
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.53
Municipality	Active	Potable	6	Unk	Distribution	Unk	109.35
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.48
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.24
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.98
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.27
Municipality	Active	Potable	6	Unk	Distribution	Unk	277.44
Municipality	Active	Potable	6	Unk	Distribution	Unk	19.69
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.64
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.16
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.28
Municipality	Active	Potable	8	Unk	Distribution	Unk	290.97
Municipality	Active	Potable	8	Unk	Distribution	Unk	69.16
Municipality	Active	Potable	8	Unk	Distribution	Unk	86.24
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.66
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.10
Municipality	Active	Potable	8	Unk	Distribution	Unk	6.77
Municipality	Active	Potable	8	Unk	Distribution	Unk	11.39
Municipality	Active	Potable	8	Unk	Distribution	Unk	13.17
Authority	Active	Potable	24	Unk	Transmission	Unk	2.55
Authority	Active	Potable	24	Unk	Transmission	Unk	3.94
Authority	Active	Potable	24	Unk	Transmission	Unk	45.70
Municipality	Active	Potable	6	Unk	Distribution	Unk	0.99
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.01
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.14
Municipality	Active	Potable	6	Unk	Distribution	Unk	12.01
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.79
Municipality	Active	Potable	6	Unk	Hydrant	Unk	41.74
Municipality	Active	Potable	6	Unk	Distribution	Unk	20.62
Municipality	Active	Potable	6	Unk	Distribution	Unk	721.71
Municipality	Active	Potable	12	Unk	Distribution	Unk	65.58
Municipality	Active	Potable	12	Unk	Distribution	Unk	46.00
Municipality	Active	Potable	12	Unk	Distribution	Unk	29.10
Municipality	Active	Potable	12	Unk	Distribution	Unk	33.02
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.07
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.57
Municipality	Active	Potable	12	Unk	Distribution	Unk	277.04
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.97
Municipality	Active	Potable	6	Unk	Hydrant	Unk	8.73
Municipality	Active	Potable	12	Unk	Distribution	Unk	2.80
Municipality	Active	Potable	12	Unk	Distribution	Unk	263.60
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.76
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.47
Municipality	Active	Potable	12	Unk	Distribution	Unk	446.27
Municipality	Active	Potable	6	Unk	Distribution	Unk	10.29
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.90
Municipality	Active	Potable	12	Unk	Distribution	Unk	173.14
Municipality	Active	Potable	18	Unk	Transmission	Unk	929.23
Municipality	Active	Potable	18	Unk	Transmission	Unk	56.29
Municipality	Active	Potable	6	Unk	Hydrant	Unk	265.06
Municipality	Active	Potable	6	Unk	Distribution	Unk	20.66
Municipality	Active	Potable	6	Unk	Distribution	Unk	272.64
Municipality	Active	Potable	6	Unk	Distribution	Unk	10.38
Municipality	Active	Potable	6	Unk	Hydrant	Unk	37.64
Municipality	Active	Potable	6	Unk	Distribution	Unk	551.80
Municipality	Active	Potable	6	Unk	Distribution	Unk	18.51
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.65
Municipality	Active	Potable	6	Unk	Distribution	Unk	21.31
Municipality	Active	Potable	6	Unk	Distribution	Unk	112.90
Municipality	Active	Potable	4	Unk	Distribution	Unk	22.62
Municipality	Active	Potable	6	Unk	Distribution	Unk	199.31
Municipality	Active	Potable	6	Unk	Distribution	Unk	1.42
Municipality	Active	Potable	6	DIP	Distribution	Unk	199.01
Municipality	Active	Potable	8	DIP	Distribution	Unk	4.44
Municipality	Active	Potable	8	DIP	Distribution	Unk	5.62

Municipality	Active	Potable	6	Unk	Distribution	Unk	12.15
Municipality	Active	Potable	10	Unk	Distribution	Unk	1036.45
Municipality	Active	Potable	4	Unk	Distribution	Unk	19.67
Municipality	Active	Potable	6	DIP	Distribution	Unk	22.18
Municipality	Active	Potable	6	DIP	Distribution	Unk	88.74
Municipality	Active	Potable	6	DIP	Hydrant	Unk	1.55
Municipality	Active	Potable	6	DIP	Hydrant	Unk	3.37
Municipality	Active	Potable	10	AC	Distribution	Unk	188.65
Municipality	Active	Potable	12	Unk	Distribution	Unk	5.06
Municipality	Active	Potable	8	Unk	Distribution	Unk	33.70
Municipality	Active	Potable	12	Unk	Distribution	Unk	103.64
Municipality	Active	Potable	4	Unk	Hydrant	Unk	460.86
Municipality	Active	Potable	8	Unk	Distribution	Unk	20.78
Municipality	Active	Potable	8	Unk	Distribution	Unk	205.87
Municipality	Active	Potable	6	DIP	Distribution	Unk	11.33
Municipality	Active	Potable	8	DIP	Distribution	Unk	153.92
Municipality	Active	Potable	10	AC	Distribution	Unk	468.72
Municipality	Active	Potable	10	AC	Distribution	Unk	44.13
Municipality	Active	Potable	8	Unk	Distribution	Unk	707.34
Municipality	Active	Potable	8	Unk	Distribution	Unk	4.70
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.14
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.74
Municipality	Active	Potable	8	Unk	Distribution	Unk	49.36
Municipality	Active	Potable	8	Unk	Distribution	Unk	2.83
Municipality	Active	Potable	12	DIP-CL	Distribution	Unk	938.87
Municipality	Active	Potable	6	DIP-CL	Hydrant	Unk	3.77
Municipality	Active	Potable	6	DIP-CL	Hydrant	Unk	3.34
Municipality	Active	Potable	8	Unk	Distribution	Unk	299.04
Municipality	Active	Potable	8	Unk	Distribution	Unk	2.76
Municipality	Active	Potable	8	Unk	Distribution	Unk	4.26
Municipality	Active	Potable	12	Unk	Distribution	Unk	23.60
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.31
Municipality	Active	Potable	12	Unk	Distribution	Unk	519.73
Municipality	Active	Potable	6	DIP-CL	Hydrant	Unk	7.10
Municipality	Active	Potable	6	DIP-CL	Hydrant	Unk	4.42
Municipality	Active	Potable	6	DIP	Hydrant	Unk	8.34
Municipality	Active	Potable	6	DIP	Hydrant	Unk	4.76
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.55
Municipality	Active	Potable	12	Unk	Distribution	Unk	6.90
Municipality	Active	Potable	12	Unk	Distribution	Unk	8.40
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.36
Municipality	Active	Potable	6	Unk	Hydrant	Unk	18.07
Municipality	Active	Potable	12	Unk	Distribution	Unk	145.21
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.10
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.84
Municipality	Active	Potable	12	Unk	Distribution	Unk	369.30
Municipality	Active	Potable	12	Unk	Distribution	Unk	20.18
Municipality	Active	Potable	12	Unk	Distribution	Unk	12.83
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.16
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.27
Municipality	Active	Potable	8	Unk	Distribution	Unk	255.93
Municipality	Active	Potable	8	Unk	Distribution	Unk	32.90
Municipality	Active	Potable	8	Unk	Distribution	Unk	24.09
Municipality	Active	Potable	8	Unk	Distribution	Unk	238.42
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.07
Municipality	Active	Potable	6	Unk	Distribution	Unk	413.81
Municipality	Active	Potable	6	Unk	Distribution	Unk	85.64
Municipality	Active	Potable	8	Unk	Distribution	Unk	154.01
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.74
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.16
Municipality	Active	Potable	8	Unk	Distribution	Unk	590.57
Municipality	Active	Potable	8	Unk	Distribution	Unk	350.00
Municipality	Active	Potable	6	DIP	Hydrant	Unk	8.24
Municipality	Active	Potable	6	DIP	Hydrant	Unk	5.32
Municipality	Active	Potable	6	Unk	Distribution	Unk	62.96
Municipality	Active	Potable	6	Unk	Distribution	Unk	21.57
Municipality	Active	Potable	12	Unk	Distribution	Unk	9.00
Municipality	Active	Potable	12	Unk	Distribution	Unk	331.19
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.82
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.04
Municipality	Active	Potable	12	Unk	Distribution	Unk	463.95
Municipality	Active	Potable	12	Unk	Distribution	Unk	96.63
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.98
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.93
Municipality	Active	Potable	6	Unk	Distribution	Unk	487.14
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.34
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.73
Municipality	Active	Potable	6	Unk	Distribution	Unk	496.17
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.66
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.65
Municipality	Active	Potable	6	DIP	Hydrant	Unk	5.01
Municipality	Active	Potable	6	DIP	Hydrant	Unk	3.99
Municipality	Active	Potable	6	DIP	Distribution	Unk	21.89
Municipality	Active	Potable	6	DIP	Distribution	Unk	5.90
Municipality	Active	Potable	6	Unk	Distribution	Unk	36.64
Municipality	Active	Potable	6	Unk	Distribution	Unk	231.02
Municipality	Active	Potable	6	Unk	Distribution	Unk	115.96
Municipality	Active	Potable	6	Unk	Distribution	Unk	412.36
Municipality	Active	Potable	8	Unk	Distribution	Unk	565.49
Municipality	Active	Potable	8	Unk	Distribution	Unk	5.03
Municipality	Active	Potable	8	Unk	Distribution	Unk	3.20
Municipality	Active	Potable	8	Unk	Distribution	Unk	36.47
Municipality	Active	Potable	8	Unk	Distribution	Unk	16.20
Municipality	Active	Potable	8	Unk	Distribution	Unk	37.03
Municipality	Active	Potable	8	Unk	Distribution	Unk	305.56
Municipality	Active	Potable	8	Unk	Distribution	Unk	440.76

Municipality	Active	Potable	8	Unk	Distribution	Unk	11.10
Municipality	Active	Potable	8	Unk	Distribution	Unk	43.28
Municipality	Active	Potable	8	Unk	Distribution	Unk	254.58
Municipality	Active	Potable	8	Unk	Distribution	Unk	20.09
Municipality	Active	Potable	8	Unk	Distribution	Unk	10.50
Municipality	Active	Potable	8	Unk	Distribution	Unk	5.64
Municipality	Active	Potable	8	Unk	Distribution	Unk	142.16
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.43
Municipality	Active	Potable	12	Unk	Distribution	Unk	10.88
Municipality	Active	Potable	8	Unk	Distribution	Unk	11.18
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.93
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.25
Municipality	Active	Potable	6	Unk	Distribution	Unk	396.03
Municipality	Active	Potable	6	Unk	Distribution	Unk	26.80
Municipality	Active	Potable	6	Unk	Distribution	Unk	9.49
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.02
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.99
Municipality	Active	Potable	6	Unk	Distribution	Unk	39.89
Municipality	Active	Potable	6	Unk	Distribution	Unk	290.26
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.96
Municipality	Active	Potable	6	Unk	Distribution	Unk	164.32
Municipality	Active	Potable	6	Unk	Distribution	Unk	434.13
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.35
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.57
Municipality	Active	Potable	6	Unk	Distribution	Unk	117.85
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.18
Municipality	Active	Potable	6	Unk	Distribution	Unk	340.98
Municipality	Active	Potable	6	Unk	Distribution	Unk	319.79
Municipality	Active	Potable	6	Unk	Distribution	Unk	12.21
Municipality	Active	Potable	6	Unk	Distribution	Unk	188.93
Municipality	Active	Potable	10	Unk	Distribution	Unk	30.68
Municipality	Active	Potable	18	Unk	Transmission	Unk	32.82
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.42
Municipality	Active	Potable	6	Unk	Hydrant	Unk	30.05
Municipality	Active	Potable	8	DIP	Distribution	Unk	143.88
Municipality	Active	Potable	6	DIP	Distribution	Unk	4.14
Municipality	Active	Potable	6	DIP	Hydrant	Unk	3.20
Municipality	Active	Potable	8	DIP	Distribution	Unk	5.13
Municipality	Active	Potable	8	DIP	Distribution	Unk	30.60
Municipality	Active	Potable	6	DIP	Distribution	Unk	2.02
Municipality	Active	Potable	6	DIP	Hydrant	Unk	4.75
Municipality	Active	Potable	8	DIP	Distribution	Unk	7.64
Municipality	Active	Potable	8	DIP	Distribution	Unk	13.39
Municipality	Active	Potable	8	DIP	Distribution	Unk	328.69
Municipality	Active	Potable	6	DIP	Distribution	Unk	4.17
Municipality	Active	Potable	6	DIP	Distribution	Unk	408.71
Municipality	Active	Potable	6	DIP	Distribution	Unk	25.49
Municipality	Active	Potable	6	Unk	Distribution	Unk	20.33
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.12
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.58
Municipality	Active	Potable	6	Unk	Distribution	Unk	309.32
Authority	Active	Potable	24	Unk	Transmission	Unk	1295.08
Authority	Active	Potable	24	Unk	Transmission	Unk	1228.45
Municipality	Active	Potable	8	Unk	Distribution	Unk	51.42
Municipality	Active	Potable	6	Unk	Distribution	Unk	11.50
Municipality	Active	Potable	6	Unk	Distribution	Unk	23.21
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.56
Municipality	Active	Potable	6	Unk	Distribution	Unk	356.54
Municipality	Active	Potable	8	Unk	Distribution	Unk	421.43
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.84
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.97
Municipality	Active	Potable	8	Unk	Distribution	Unk	30.08
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.12
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.71
Municipality	Active	Potable	6	Unk	Distribution	Unk	251.01
Municipality	Active	Potable	6	Unk	Distribution	Unk	360.23
Municipality	Active	Potable	8	Unk	Distribution	Unk	263.68
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.24
Municipality	Active	Potable	6	Unk	Hydrant	Unk	22.31
Municipality	Active	Potable	6	Unk	Distribution	Unk	371.44
Municipality	Active	Potable	8	Unk	Distribution	Unk	146.12
Municipality	Active	Potable	6	Unk	Hydrant	Unk	1.95
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.41
Municipality	Active	Potable	8	Unk	Distribution	Unk	360.53
Municipality	Active	Potable	8	Unk	Distribution	Unk	65.18
Municipality	Active	Potable	6	Unk	Hydrant	Unk	1.95
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.26
Municipality	Active	Potable	8	Unk	Distribution	Unk	26.12
Municipality	Active	Potable	8	Unk	Distribution	Unk	5.60
Municipality	Active	Potable	8	Unk	Distribution	Unk	172.88
Municipality	Active	Potable	8	Unk	Distribution	Unk	232.72
Municipality	Active	Potable	8	Unk	Distribution	Unk	58.66
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.64
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.87
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.70
Municipality	Active	Potable	8	Unk	Distribution	Unk	628.56
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.20
Municipality	Active	Potable	6	Unk	Distribution	Unk	361.72
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.55
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.53
Municipality	Active	Potable	6	Unk	Distribution	Unk	10.20
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.14
Municipality	Active	Potable	6	DIP	Distribution	Unk	159.73
Municipality	Active	Potable	8	DIP	Distribution	Unk	435.90
Municipality	Active	Potable	6	Unk	Hydrant	Unk	11.40
Municipality	Active	Potable	6	Unk	Distribution	Unk	155.31

Municipality	Active	Potable	6	Unk	Distribution	Unk	11.99
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.99
Municipality	Active	Potable	8	Unk	Distribution	Unk	292.37
Municipality	Active	Potable	8	Unk	Distribution	Unk	8.34
Municipality	Active	Potable	6	Unk	Distribution	Unk	65.12
Municipality	Active	Potable	6	Unk	Distribution	Unk	29.55
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.13
Municipality	Active	Potable	6	Unk	Distribution	Unk	349.55
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.00
Municipality	Active	Potable	8	Unk	Distribution	Unk	8.01
Municipality	Active	Potable	8	Unk	Distribution	Unk	5.27
Municipality	Active	Potable	8	Unk	Distribution	Unk	7.03
Municipality	Active	Potable	8	Unk	Distribution	Unk	539.15
Municipality	Active	Potable	8	Unk	Distribution	Unk	179.87
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.98
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.94
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.89
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.83
Municipality	Active	Potable	6	Unk	Distribution	Unk	465.09
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.40
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.80
Municipality	Active	Potable	6	Unk	Distribution	Unk	442.34
Municipality	Active	Potable	6	Unk	Distribution	Unk	13.25
Municipality	Active	Potable	6	Unk	Distribution	Unk	17.02
Municipality	Active	Potable	6	Unk	Distribution	Unk	632.33
Municipality	Active	Potable	6	Unk	Distribution	Unk	214.29
Municipality	Active	Potable	6	Unk	Hydrant	Unk	16.88
Municipality	Active	Potable	6	DIP-CL	Distribution	Unk	425.40
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.47
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.59
Municipality	Active	Potable	6	Unk	Distribution	Unk	212.42
Municipality	Active	Potable	8	DIP	Distribution	Unk	2.69
Municipality	Active	Potable	8	DIP	Distribution	Unk	5.18
Municipality	Active	Potable	8	DIP	Distribution	Unk	5.13
Municipality	Active	Potable	6	DIP	Hydrant	Unk	5.13
Municipality	Active	Potable	6	DIP	Distribution	Unk	13.64
Municipality	Active	Potable	8	DIP	Distribution	Unk	21.63
Municipality	Active	Potable	6	Unk	Distribution	Unk	13.11
Municipality	Active	Potable	6	Unk	Distribution	Unk	32.05
Municipality	Active	Potable	6	Unk	Distribution	Unk	11.15
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.83
Municipality	Active	Potable	6	Unk	Distribution	Unk	35.10
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.45
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.11
Municipality	Active	Potable	6	Unk	Distribution	Unk	460.98
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.43
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.33
Municipality	Active	Potable	6	Unk	Distribution	Unk	183.89
Municipality	Active	Potable	6	Unk	Distribution	Unk	8.68
Municipality	Active	Potable	6	Unk	Distribution	Unk	103.35
Municipality	Active	Potable	6	Unk	Distribution	Unk	20.49
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.64
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.36
Municipality	Active	Potable	6	Unk	Distribution	Unk	194.90
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.38
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.52
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.33
Municipality	Active	Potable	6	Unk	Distribution	Unk	675.49
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.39
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.65
Municipality	Active	Potable	6	Unk	Distribution	Unk	44.60
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.40
Municipality	Active	Potable	6	Unk	Distribution	Unk	431.06
Municipality	Active	Potable	6	Unk	Distribution	Unk	5.65
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.35
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.34
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.86
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.19
Municipality	Active	Potable	6	Unk	Hydrant	Unk	14.01
Municipality	Active	Potable	6	Unk	Distribution	Unk	201.28
Municipality	Active	Potable	6	Unk	Distribution	Unk	10.37
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.03
Municipality	Active	Potable	6	Unk	Distribution	Unk	31.43
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.22
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.75
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.65
Municipality	Active	Potable	6	Unk	Distribution	Unk	383.84
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.97
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.34
Municipality	Active	Potable	6	Unk	Distribution	Unk	8.05
Municipality	Active	Potable	6	Unk	Distribution	Unk	186.27
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.81
Municipality	Active	Potable	8	Unk	Distribution	Unk	363.12
Municipality	Active	Potable	6	Unk	Distribution	Unk	280.70
Municipality	Active	Potable	8	Unk	Distribution	Unk	15.31
Municipality	Active	Potable	8	Unk	Distribution	Unk	8.65
Municipality	Active	Potable	8	Unk	Distribution	Unk	5.10
Municipality	Active	Potable	8	Unk	Distribution	Unk	518.96
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.48
Municipality	Active	Potable	6	Unk	Distribution	Unk	323.80
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.67
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.62
Municipality	Active	Potable	8	Unk	Distribution	Unk	372.00
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.27
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.33
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.61

Municipality	Active	Potable	6	Unk	Distribution	Unk	266.17
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.86
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.35
Municipality	Active	Potable	6	Unk	Distribution	Unk	460.25
Municipality	Active	Potable	6	Unk	Distribution	Unk	337.27
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.74
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.38
Municipality	Active	Potable	6	Unk	Hydrant	Unk	8.37
Municipality	Active	Potable	6	Unk	Distribution	Unk	287.17
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.25
Municipality	Active	Potable	6	Unk	Hydrant	Unk	8.11
Municipality	Active	Potable	6	Unk	Hydrant	Unk	1.66
Municipality	Active	Potable	6	Unk	Distribution	Unk	29.80
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.20
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.82
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.52
Municipality	Active	Potable	6	Unk	Distribution	Unk	12.13
Municipality	Active	Potable	6	Unk	Distribution	Unk	7.88
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.89
Municipality	Active	Potable	8	Unk	Distribution	Unk	160.80
Municipality	Active	Potable	6	Unk	Distribution	Unk	20.20
Municipality	Active	Potable	6	Unk	Distribution	Unk	13.95
Municipality	Active	Potable	6	Unk	Distribution	Unk	13.97
Municipality	Active	Potable	8	Unk	Distribution	Unk	39.97
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.98
Municipality	Active	Potable	6	Unk	Distribution	Unk	367.70
Municipality	Active	Potable	6	Unk	Distribution	Unk	608.54
Municipality	Active	Potable	6	Unk	Distribution	Unk	569.35
Municipality	Active	Potable	6	Unk	Hydrant	Unk	10.85
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.70
Municipality	Active	Potable	6	Unk	Distribution	Unk	246.96
Municipality	Active	Potable	6	Unk	Distribution	Unk	320.77
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.16
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.73
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.48
Municipality	Active	Potable	6	Unk	Hydrant	Unk	10.67
Municipality	Active	Potable	6	Unk	Distribution	Unk	22.94
Municipality	Active	Potable	6	Unk	Distribution	Unk	433.58
Municipality	Active	Potable	6	Unk	Distribution	Unk	174.06
Municipality	Active	Potable	6	Unk	Hydrant	Unk	1.31
Municipality	Active	Potable	6	Unk	Hydrant	Unk	11.56
Municipality	Active	Potable	6	Unk	Distribution	Unk	36.63
Municipality	Active	Potable	6	Unk	Distribution	Unk	49.16
Municipality	Active	Potable	6	Unk	Distribution	Unk	626.98
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.47
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.62
Municipality	Active	Potable	6	Unk	Distribution	Unk	365.96
Municipality	Active	Potable	6	Unk	Distribution	Unk	28.55
Municipality	Active	Potable	6	Unk	Distribution	Unk	345.91
Municipality	Active	Potable	6	Unk	Distribution	Unk	32.67
Municipality	Active	Potable	6	Unk	Distribution	Unk	22.15
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.56
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.92
Municipality	Active	Potable	6	Unk	Distribution	Unk	9.00
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.49
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.55
Municipality	Active	Potable	6	Unk	Distribution	Unk	412.00
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.97
Municipality	Active	Potable	6	Unk	Distribution	Unk	280.18
Municipality	Active	Potable	6	Unk	Distribution	Unk	582.56
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.58
Municipality	Active	Potable	6	Unk	Hydrant	Unk	14.20
Municipality	Active	Potable	6	Unk	Distribution	Unk	328.95
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.53
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.55
Municipality	Active	Potable	6	Unk	Distribution	Unk	257.00
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.96
Municipality	Active	Potable	6	Unk	Hydrant	Unk	10.91
Municipality	Active	Potable	6	Unk	Distribution	Unk	246.25
Municipality	Active	Potable	6	Unk	Distribution	Unk	357.53
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.59
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.17
Municipality	Active	Potable	6	Unk	Distribution	Unk	322.43
Municipality	Active	Potable	6	Unk	Distribution	Unk	380.72
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.29
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.56
Municipality	Active	Potable	6	Unk	Distribution	Unk	401.61
Municipality	Active	Potable	6	Unk	Distribution	Unk	421.88
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.10
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.79
Municipality	Active	Potable	6	Unk	Distribution	Unk	392.07
Municipality	Active	Potable	6	Unk	Distribution	Unk	484.31
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.54
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.06
Municipality	Active	Potable	6	Unk	Distribution	Unk	315.21
Municipality	Active	Potable	6	Unk	Distribution	Unk	434.05
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.44
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.44
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.68
Municipality	Active	Potable	6	Unk	Hydrant	Unk	23.37
Municipality	Active	Potable	6	Unk	Distribution	Unk	285.92
Municipality	Active	Potable	6	Unk	Distribution	Unk	136.69
Municipality	Active	Potable	6	Unk	Distribution	Unk	19.00
Municipality	Active	Potable	10	Unk	Distribution	Unk	1.30
Municipality	Active	Potable	10	Unk	Distribution	Unk	2.33
Municipality	Active	Potable	6	Unk	Distribution	Unk	11.11

Municipality	Active	Potable	6	Unk	Distribution	Unk	497.35
Municipality	Active	Potable	8	Unk	Distribution	Unk	21.65
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.70
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.57
Municipality	Active	Potable	8	Unk	Distribution	Unk	334.89
Municipality	Active	Potable	8	Unk	Distribution	Unk	6.06
Municipality	Active	Potable	8	Unk	Distribution	Unk	32.33
Municipality	Active	Potable	8	Unk	Distribution	Unk	47.34
Municipality	Active	Potable	6	Unk	Distribution	Unk	322.25
Municipality	Active	Potable	8	Unk	Distribution	Unk	191.07
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.25
Municipality	Active	Potable	6	Unk	Hydrant	Unk	9.03
Municipality	Active	Potable	8	Unk	Distribution	Unk	97.68
Municipality	Active	Potable	8	Unk	Distribution	Unk	452.03
Municipality	Active	Potable	8	Unk	Distribution	Unk	45.79
Municipality	Active	Potable	8	Unk	Distribution	Unk	380.92
Municipality	Active	Potable	8	Unk	Distribution	Unk	144.78
Authority	Active	Potable	6	Unk	Hydrant	Unk	4.03
Authority	Active	Potable	6	Unk	Hydrant	Unk	4.95
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.90
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.44
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.07
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.78
Municipality	Active	Potable	8	Unk	Distribution	Unk	202.20
Municipality	Active	Potable	8	Unk	Distribution	Unk	8.03
Municipality	Active	Potable	8	Unk	Distribution	Unk	236.72
Municipality	Active	Potable	6	Unk	Distribution	Unk	10.09
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.93
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.67
Municipality	Active	Potable	6	Unk	Distribution	Unk	237.16
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.65
Municipality	Active	Potable	6	Unk	Distribution	Unk	207.64
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.70
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.31
Municipality	Active	Potable	6	Unk	Distribution	Unk	527.23
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.47
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.10
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.32
Municipality	Active	Potable	6	Unk	Distribution	Unk	583.44
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.50
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.49
Municipality	Active	Potable	6	Unk	Distribution	Unk	586.61
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.00
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.61
Municipality	Active	Potable	8	Unk	Distribution	Unk	325.98
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.14
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.82
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.47
Municipality	Active	Potable	6	Unk	Distribution	Unk	113.66
Municipality	Active	Potable	4	Unk	Distribution	Unk	2.57
Municipality	Active	Potable	4	Unk	Distribution	Unk	39.80
Municipality	Active	Potable	6	Unk	Distribution	Unk	360.00
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.38
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.76
Municipality	Active	Potable	6	Unk	Distribution	Unk	468.98
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.89
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.24
Municipality	Active	Potable	8	Unk	Distribution	Unk	3.59
Municipality	Active	Potable	8	Unk	Distribution	Unk	395.94
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.83
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.21
Municipality	Active	Potable	8	Unk	Distribution	Unk	420.10
Municipality	Active	Potable	8	Unk	Distribution	Unk	2.51
Municipality	Active	Potable	8	Unk	Distribution	Unk	18.17
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.71
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.13
Municipality	Active	Potable	6	Unk	Distribution	Unk	369.66
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.56
Municipality	Active	Potable	6	Unk	Hydrant	Unk	1.35
Municipality	Active	Potable	6	Unk	Distribution	Unk	9.25
Municipality	Active	Potable	6	Unk	Distribution	Unk	418.79
Municipality	Active	Potable	6	Unk	Hydrant	Unk	1.51
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.63
Municipality	Active	Potable	6	Unk	Distribution	Unk	396.23
Municipality	Active	Potable	6	Unk	Hydrant	Unk	1.57
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.99
Municipality	Active	Potable	6	Unk	Distribution	Unk	8.86
Municipality	Active	Potable	6	Unk	Distribution	Unk	471.48
Municipality	Active	Potable	6	Unk	Distribution	Unk	383.71
Municipality	Active	Potable	6	Unk	Hydrant	Unk	9.64
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.99
Municipality	Active	Potable	6	Unk	Distribution	Unk	391.21
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.04
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.53
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.86
Municipality	Active	Potable	12	Unk	Distribution	Unk	67.65
Municipality	Active	Potable	8	Unk	Distribution	Unk	48.69
Municipality	Active	Potable	6	Unk	Distribution	Unk	241.16
Municipality	Active	Potable	6	Unk	Distribution	Unk	458.31
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.48
Municipality	Active	Potable	6	Unk	Hydrant	Unk	8.13
Municipality	Active	Potable	6	Unk	Distribution	Unk	311.12
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.91
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.54
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.29
Municipality	Active	Potable	6	Unk	Hydrant	Unk	17.83

Municipality	Active	Potable	6	Unk	Distribution	Unk	361.57		
Municipality	Active	Potable	6	Unk	Distribution	Unk	37.44		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.23		
Municipality	Active	Potable	6	Unk	Distribution	Unk	230.50		
Municipality	Active	Potable	6	Unk	Distribution	Unk	5.46		
Municipality	Active	Potable	6	Unk	Distribution	Unk	10.86		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	13.50		
Municipality	Active	Potable	6	Unk	Distribution	Unk	94.69		
Municipality	Active	Potable	6	Unk	Distribution	Unk	291.00		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.95		
Municipality	Active	Potable	6	Unk	Distribution	Unk	10.43		
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.06		
Municipality	Active	Potable	6	Unk	Distribution	Unk	7.07		
Municipality	Active	Potable	6	Unk	Distribution	Unk	238.88		
Municipality	Active	Potable	6	Unk	Distribution	Unk	15.16		
Municipality	Active	Potable	6	Unk	Distribution	Unk	5.37		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.96		
Municipality	Active	Potable	6	Unk	Distribution	Unk	98.94		
Municipality	Active	Potable	6	Unk	Distribution	Unk	1.73		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.89		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.69		
Municipality	Active	Potable	6	Unk	Distribution	Unk	17.96		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	1.65		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	13.31		
Municipality	Active	Potable	10	DIP	Distribution	Unk	748.00		
Municipality	Active	Potable	6	Unk	Distribution	Unk	205.26		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.35		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.36		
Municipality	Active	Potable	6	DIP	Transmission	Unk	36.16		
Municipality	Active	Potable	6	DIP	Transmission	Unk	3.31		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	6.55		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	9.40		
Municipality	Other	Active	Potable	6	DIP	Distribution	Unk	451.17	Cedar Grove
Municipality	Active	Potable	8	Unk	Distribution	Unk	395.86		
Municipality	Active	Potable	8	Unk	Distribution	Unk	1.49		
Municipality	Active	Potable	8	Unk	Distribution	Unk	13.79		
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.29		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.42		
Municipality	Active	Potable	8	Unk	Distribution	Unk	6.22		
Municipality	Active	Potable	8	Unk	Distribution	Unk	192.15		
Municipality	Active	Potable	6	Unk	Hydrant	Unk	0.75		
Municipality	Active	Potable	6	Unk	Distribution	Unk	441.03		
Municipality	Active	Potable	6	Unk	Distribution	Unk	8.42		
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.54		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	8.58		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	3.94		
Municipality	Active	Potable	6	DIP	Distribution	Unk	4.35		
Municipality	Active	Potable	8	DIP	Distribution	Unk	290.84		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	18.20		
Municipality	Active	Potable	8	DIP	Distribution	Unk	33.51		
Municipality	Active	Potable	8	DIP	Distribution	Unk	37.83		
Municipality	Active	Potable	8	DIP	Distribution	Unk	326.77		
Municipality	Active	Potable	6	DIP	Distribution	Unk	5.56		
Municipality	Active	Potable	8	DIP	Distribution	Unk	423.78		
Municipality	Active	Potable	8	DIP	Distribution	Unk	20.81		
Municipality	Active	Potable	6	DIP	Distribution	Unk	5.25		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	3.88		
Municipality	Active	Potable	8	DIP	Distribution	Unk	392.51		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	3.53		
Municipality	Active	Potable	6	DIP	Distribution	Unk	7.15		
Municipality	Active	Potable	10	Unk	Distribution	Unk	4.01		
Municipality	Active	Potable	6	DIP	Distribution	Unk	1.70		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	2.12		
Municipality	Active	Potable	6	DIP	Distribution	Unk	6.79		
Municipality	Active	Potable	6	Unk	Distribution	Unk	7.16		
Municipality	Active	Potable	8	Unk	Distribution	Unk	348.00		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	5.42		
Municipality	Active	Potable	6	DIP	Distribution	Unk	1.69		
Municipality	Active	Potable	16	DIP	Transmission	Unk	1.91		
Municipality	Active	Potable	6	DIP	Distribution	Unk	338.19		
Municipality	Active	Potable	6	DIP	Distribution	Unk	200.16		
Municipality	Active	Potable	6	DIP	Distribution	Unk	11.48		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	4.13		
Municipality	Active	Potable	6	DIP	Distribution	Unk	52.90		
Municipality	Active	Potable	10	DIP	Distribution	Unk	30.75		
Municipality	Active	Potable	10	DIP	Distribution	Unk	386.08		
Municipality	Active	Potable	10	DIP	Distribution	Unk	2.90		
Municipality	Active	Potable	10	DIP	Distribution	Unk	3.83		
Municipality	Active	Potable	6	DIP	Distribution	Unk	1.68		
Municipality	Active	Potable	8	DIP	Distribution	Unk	6.51		
Municipality	Active	Potable	10	DIP	Distribution	Unk	2.46		
Municipality	Active	Potable	6	DIP	Hydrant	Unk	14.44		
Municipality	Active	Potable	10	DIP	Distribution	Unk	380.25		
Municipality	Active	Potable	8	DIP	Distribution	Unk	16.90		
Municipality	Active	Potable	6	DIP	Distribution	Unk	5.50		
Municipality	Active	Potable	6	DIP	Distribution	Unk	60.18		
Municipality	Active	Potable	8	DIP	Distribution	Unk	2.60		
Municipality	Active	Potable	8	DIP	Distribution	Unk	405.22		
Municipality	Active	Potable	10	DIP	Distribution	Unk	641.59		
Municipality	Active	Potable	8	DIP	Distribution	Unk	390.07		
Municipality	Active	Potable	8	DIP	Distribution	Unk	18.05		
Municipality	Active	Potable	16	DIP	Transmission	Unk	138.49		
Municipality	Active	Potable	16	DIP	Transmission	Unk	3.54		
Municipality	Active	Potable	8	DIP	Distribution	Unk	271.64		
Municipality	Active	Potable	12	Unk	Distribution	Unk	2.83		
Municipality	Active	Potable	12	Unk	Distribution	Unk	13.60		

Municipality	Active	Potable	12	Unk	Distribution	Unk	9.53	
Municipality	Active	Potable	12	Unk	Distribution	Unk	5.62	
Municipality	Active	Potable	10	Unk	Distribution	Unk	16.33	
Municipality	Active	Potable	12	Unk	Distribution	Unk	13.85	
Municipality	Active	Potable	12	Unk	Distribution	Unk	18.60	
Municipality	Active	Potable	12	Unk	Distribution	Unk	17.86	
Municipality	Active	Potable	12	Unk	Distribution	Unk	6.23	
Municipality	Active	Potable	18	Unk	Transmission	Unk	239.15	
Municipality	Active	Potable	18	Unk	Transmission	Unk	19.62	
Municipality	Active	Potable	18	Unk	Transmission	Unk	76.71	
Municipality	Active	Potable	18	DIP	Transmission	Unk	272.40	
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.78	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.80	
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.55	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.42	
Municipality	Active	Potable	8	Unk	Distribution	Unk	7.07	
Other	Active	Potable	6	DIP	Distribution	Unk	179.52	
Municipality	Active	Potable	6	Unk	Distribution	Unk	0.36	Cedar Grove
Municipality	Active	Potable	6	Unk	Hydrant	Unk	7.34	
Municipality	Active	Potable	6	Unk	Distribution	Unk	77.93	
Municipality	Active	Potable	6	Unk	Distribution	Unk	6.48	
Municipality	Active	Potable	6	Unk	Distribution	Unk	356.97	
Municipality	Active	Potable	6	Unk	Distribution	Unk	9.18	
Municipality	Active	Potable	6	Unk	Distribution	Unk	495.55	
Municipality	Active	Potable	6	Unk	Distribution	Unk	8.81	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.51	
Municipality	Active	Potable	6	Unk	Distribution	Unk	9.78	
Municipality	Active	Potable	6	Unk	Distribution	Unk	345.72	Cedar Grove
Municipality	Active	Potable	6	DIP	Distribution	Unk	461.32	
Municipality	Active	Potable	8	Unk	Distribution	Unk	19.26	
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.41	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	3.75	
Municipality	Active	Potable	6	Unk	Distribution	Unk	14.39	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	2.90	
Municipality	Active	Potable	6	Unk	Distribution	Unk	1.58	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	10.22	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	13.23	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.01	
Municipality	Active	Potable	6	Unk	Distribution	Unk	1.60	
Municipality	Active	Potable	6	Unk	Distribution	Unk	104.87	
Municipality	Active	Potable	6	Unk	Distribution	Unk	27.32	
Municipality	Active	Potable	6	Unk	Distribution	Unk	5.55	
Municipality	Active	Potable	6	Unk	Distribution	Unk	228.40	
Municipality	Active	Potable	6	Unk	Distribution	Unk	29.64	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	13.92	
Municipality	Active	Potable	6	Unk	Distribution	Unk	259.45	
Municipality	Active	Potable	12	Unk	Distribution	Unk	18.84	
Municipality	Active	Potable	6	Unk	Distribution	Unk	143.08	
Municipality	Active	Potable	6	Unk	Distribution	Unk	9.76	
Municipality	Active	Potable	8	Unk	Distribution	Unk	8.68	
Municipality	Active	Potable	8	Unk	Distribution	Unk	9.24	
Municipality	Active	Potable	8	Unk	Distribution	Unk	134.89	
Municipality	Active	Potable	6	Unk	Distribution	Unk	7.55	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	8.40	
Municipality	Active	Potable	8	Unk	Distribution	Unk	4.65	
Municipality	Active	Potable	8	Unk	Distribution	Unk	246.39	
Municipality	Active	Potable	8	Unk	Distribution	Unk	14.12	
Municipality	Active	Potable	6	Unk	Distribution	Unk	5.73	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	5.98	
Municipality	Active	Potable	6	Unk	Distribution	Unk	5.53	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	8.63	
Municipality	Active	Potable	6	Unk	Distribution	Unk	500.12	
Municipality	Active	Potable	6	Unk	Distribution	Unk	17.71	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	13.05	
Municipality	Active	Potable	6	Unk	Distribution	Unk	335.32	
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.32	
Municipality	Active	Potable	6	Unk	Distribution	Unk	2.98	
Municipality	Active	Potable	12	Unk	Distribution	Unk	162.04	
Municipality	Active	Potable	8	Unk	Hydrant	Unk	8.19	
Municipality	Active	Potable	6	Unk	Distribution	Unk	747.96	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.63	
Municipality	Active	Potable	6	DIP	Hydrant	Unk	8.53	
Municipality	Active	Potable	6	DIP	Distribution	Unk	12.14	
Municipality	Active	Potable	8	DIP-CL	Distribution	Unk	154.49	
Municipality	Active	Potable	8	Unk	Distribution	Unk	3.94	
Municipality	Active	Potable	6	Unk	Distribution	Unk	20.01	
Municipality	Active	Potable	6	Unk	Distribution	Unk	95.96	
Municipality	Active	Potable	6	Unk	Distribution	Unk	189.06	
Municipality	Active	Potable	6	Unk	Distribution	Unk	4.56	
Municipality	Active	Potable	6	Unk	Distribution	Unk	5.38	
Municipality	Active	Potable	6	Unk	Distribution	Unk	264.96	
Municipality	Active	Potable	6	Unk	Distribution	Unk	1.28	
Municipality	Active	Potable	6	Unk	Distribution	Unk	73.32	
Municipality	Active	Potable	6	Unk	Distribution	Unk	8.52	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.80	
Municipality	Active	Potable	6	Unk	Distribution	Unk	274.22	
Municipality	Active	Potable	6	Unk	Distribution	Unk	331.45	
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.82	
Municipality	Active	Potable	6	Unk	Distribution	Unk	3.45	
Municipality	Active	Potable	6	DIP	Distribution	Unk	86.70	
Municipality	Active	Potable	8	DIP	Distribution	Unk	63.13	
Municipality	Active	Potable	6	DIP	Hydrant	Unk	5.38	
Municipality	Active	Potable	6	DIP	Hydrant	Unk	3.37	
Municipality	Active	Potable	6	DIP	Distribution	Unk	30.83	
Municipality	Active	Potable	6	DIP	Hydrant	Unk	20.73	
Municipality	Active	Potable	6	Unk	Hydrant	Unk	36.34	

Municipality	Active	Potable	6	DIP-CL	Distribution	Unk	89.36
Municipality	Active	Potable	6	Unk	Hydrant	Unk	39.99
Municipality	Active	Potable	6	Unk	Hydrant	Unk	4.60
Municipality	Active	Potable	6	Unk	Hydrant	Unk	19.55
Municipality	Active	Potable	12	Unk	Distribution	Unk	107.01
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.09
Municipality	Active	Potable	6	DIP	Distribution	Unk	5.22
Municipality	Active	Potable	6	DIP	Hydrant	Unk	9.77
Municipality	Active	Potable	12	Unk	Distribution	Unk	26.86
Municipality	Active	Potable	6	DIP	Distribution	Unk	72.84
Municipality	Active	Potable	8	Unk	Distribution	Unk	77.46
Municipality	Active	Potable	12	Unk	Distribution	Unk	22.59
Municipality	Active	Potable	6	Unk	Hydrant	Unk	59.60
Municipality	Active	Potable	12	Unk	Distribution	Unk	326.05
Municipality	Active	Potable	12	Unk	Distribution	Unk	101.34
Municipality	Active	Potable	6	Unk	Hydrant	Unk	31.64
Municipality	Active	Potable	12	Unk	Distribution	Unk	6.60
Municipality	Active	Potable	12	Unk	Distribution	Unk	4.53
Municipality	Active	Potable	8	Unk	Distribution	Unk	43.10
Municipality	Active	Potable	8	Unk	Distribution	Unk	140.51
Municipality	Active	Potable	8	Unk	Distribution	Unk	3.91
Municipality	Active	Potable	8	Unk	Distribution	Unk	13.37
Municipality	Active	Potable	12	Unk	Distribution	Unk	162.81
Municipality	Active	Potable	12	Unk	Distribution	Unk	4.83
Municipality	Active	Potable	8	Unk	Distribution	Unk	10.22
Municipality	Active	Potable	8	Unk	Distribution	Unk	147.40
Municipality	Active	Potable	8	Unk	Distribution	Unk	13.75
Municipality	Active	Potable	8	Unk	Distribution	Unk	61.38
Municipality	Active	Potable	6	Unk	Distribution	Unk	19.05
Municipality	Active	Potable	6	Unk	Hydrant	Unk	6.03
Municipality	Active	Potable	8	Unk	Distribution	Unk	213.76
Municipality	Active	Potable	8	Unk	Distribution	Unk	274.52
Municipality	Active	Potable	6	Unk	Hydrant	Unk	33.08
Municipality	Active	Potable	8	Unk	Distribution	Unk	114.72
Municipality	Active	Potable	6	Unk	Hydrant	Unk	35.79
Municipality	Active	Potable	6	Unk	Distribution	Unk	419.30
Municipality	Active	Potable	6	Unk	Hydrant	Unk	78.98
Municipality	Active	Potable	8	Unk	Distribution	Unk	326.49
Municipality	Active	Potable	4	Unk	Distribution	Unk	19.52
Municipality	Active	Potable	4	Unk	Distribution	Unk	500.83

Municipality	Active	6	Gate
Municipality	Active	6	Gate
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Municipality	Active	6	Gate
Municipality	Active	8	Gate
Municipality	Active	8	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	4	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	12	Gate
Municipality	Active	12	Gate
Municipality	Active	8	Gate
Municipality	Active	12	Gate
Municipality	Active	8	Gate
Municipality	Active	8	Gate
Municipality	Active	8	Gate
Municipality	Active	6	Gate
Municipality	Active	8	Gate
Municipality	Active	4	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	12	Gate
Municipality	Active	12	Gate
Municipality	Active	12	Gate
Municipality	Active	6	Gate
Municipality	Active	12	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	8	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate
Municipality	Active	8	Gate
Municipality	Active	6	Gate
Municipality	Active	18	Gate
Municipality	Active	6	Gate
Municipality	Active	6	Gate

HYDRANT INVENTORY

Owner	LifecycleS	FacilityID	WaterType	BarrelDiam	NozzleDiam	Notes
Municipality	Active	336	Potable	6	4	
Municipality	Active	335	Potable	6	4	
Municipality	Active	337	Potable	6	4	
Municipality	Active	328	Potable	6	4	
Municipality	Active	329	Potable	6	4	
Municipality	Active	334	Potable	6	4	
Municipality	Active	330	Potable	6	4	
Municipality	Active	339	Potable	6	4	
Municipality	Active	340	Potable	6	4	
Municipality	Active	359	Potable	6	4	
Municipality	Active	347	Potable	6	4	
Municipality	Active	348	Potable	6	4	
Municipality	Active	343	Potable	6	4	
Municipality	Active	346	Potable	6	4	
Municipality	Active	345	Potable	6	4	
Municipality	Active	344	Potable	6	4	
Municipality	Active	356	Potable	6	4	
Municipality	Active	342	Potable	6	4	
Municipality	Active	341	Potable	6	4	
Municipality	Active	353	Potable	6	4	
Municipality	Active	354	Potable	6	4	
Municipality	Active	333	Potable	6	4	
Municipality	Active	332	Potable	6	4	
Municipality	Active	331	Potable	6	4	
Municipality	Active	37	Potable	6	4	
Municipality	Active	36	Potable	6	4	
Municipality	Active	27	Potable	6	4	
Municipality	Active	26	Potable	6	4	
Municipality	Active	350	Potable	6	4	
Municipality	Active	349	Potable	6	4	
Municipality	Active	355	Potable	6	4	
Municipality	Active	357	Potable	6	4	
Municipality	Active	358	Potable	6	4	
Municipality	Active	61	Potable	6	4	
Municipality	Active	302	Potable	6	4	HYD. 61 2 ft behind curbline
Municipality	Active		Potable	6	4	
Municipality	Active	52	Potable	6	4	
Municipality	Active	51	Potable	6	4	
Municipality	Active	47	Potable	6	4	
Municipality	Active	47A	Potable	6	4	
Municipality	Active	48	Potable	6	4	
Municipality	Active	49	Potable	6	4	
Municipality	Active	239	Potable	6	4	
Municipality	Active	238	Potable	6	4	
Municipality	Active	225	Potable	6	4	
Municipality	Active	241	Potable	6	4	
Municipality	Active	418	Potable	6	4	
Municipality	Active	417	Potable	6	4	
Municipality	Active	437	Potable	6	4	
Municipality	Active	439	Potable	6	4	
Municipality	Active	440	Potable	6	4	
Municipality	Active	35	Potable	6	4	
Municipality	Active	53	Potable	6	4	
Municipality	Active	54	Potable	6	4	
Municipality	Active	60	Potable	6	4	
Municipality	Active	473	Potable	6	4	
Municipality	Active	301	Potable	6	4	3 ft behind curbline
Municipality	Active	326	Potable	6	4	
Municipality	Active	431	Potable	6	4	
Municipality	Active	325	Potable	6	4	
Municipality	Active	435	Potable	6	4	
Municipality	Active	300	Potable	6	4	
Municipality	Active	442	Potable	6	4	
Municipality	Active	327	Potable	6	4	
Municipality	Active	38	Potable	6	4	
Municipality	Active	433	Potable	6	4	
Municipality	Active	429	Potable	6	4	

Municipality	Active	420	Potable	6	4	Commonwealth Hydrant
Municipality	Active		Potable	6	4	
Authority	Active		Potable	6	4	
Municipality	Active	31	Potable	6	4	
Municipality	Active	32	Potable	6	4	
Municipality	Active	34	Potable	6	4	
Municipality	Active	66	Potable	6	4	
Municipality	Active	33	Potable	6	4	
Municipality	Active	23	Potable	6	4	
Municipality	Active	22	Potable	6	4	
Municipality	Active	256	Potable	6	4	
Municipality	Active	247	Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active	82	Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active	56	Potable	6	4	
Municipality	Active	85	Potable	6	4	
Municipality	Active	468	Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active	469	Potable	6	4	
Municipality	Active	472	Potable	6	4	
Municipality	Active	471A	Potable	6	4	
Municipality	Active	471	Potable	6	4	
Municipality	Active	470	Potable	6	4	
Municipality	Active	506	Potable	6	4	
Municipality	Active	507	Potable	6	4	
Municipality	Active	84	Potable	6	4	
Municipality	Active	41	Potable	6	4	
Municipality	Active	40	Potable	6	4	
Municipality	Active	39	Potable	6	4	
Municipality	Active	30	Potable	6	4	
Municipality	Active	492	Potable	6	4	
Municipality	Active	491	Potable	6	4	
Municipality	Active	428	Potable	6	4	
Municipality	Active	477	Potable	6	4	
Municipality	Active	448	Potable	6	4	
Municipality	Active	449	Potable	6	4	
Municipality	Active	451	Potable	6	4	
Municipality	Active	324	Potable	6	4	
Municipality	Active	323	Potable	6	4	
Municipality	Active	365	Potable	6	4	
Municipality	Active	304	Potable	6	4	
Municipality	Active	303	Potable	6	4	
Municipality	Active	322	Potable	6	4	
Municipality	Active	307	Potable	6	4	
Municipality	Active	306	Potable	6	4	
Municipality	Active	305	Potable	6	4	
Municipality	Active	308	Potable	6	4	
Municipality	Active	309	Potable	6	4	
Municipality	Active	310	Potable	6	4	
Municipality	Active	311	Potable	6	4	
Municipality	Active	312	Potable	6	4	
Municipality	Active	313	Potable	6	4	
Municipality	Active	314	Potable	6	4	
Municipality	Active	315	Potable	6	4	
Municipality	Active	317	Potable	6	4	
Municipality	Active	316	Potable	6	4	
Municipality	Active	214	Potable	6	4	
Municipality	Active	264	Potable	6	4	
Municipality	Active	200	Potable	6	4	
Municipality	Active	263	Potable	6	4	
Municipality	Active	269	Potable	6	4	
Municipality	Active	268	Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active	203	Potable	6	4	
Municipality	Active	202	Potable	6	4	
Municipality	Active	204	Potable	6	4	
Municipality	Active	201	Potable	6	4	

Municipality	Active	213	Potable	6	4
Municipality	Active	320	Potable	6	4
Municipality	Active	321	Potable	6	4
Municipality	Active	319	Potable	6	4
Municipality	Active	318	Potable	6	4
Municipality	Active	265	Potable	6	4
Municipality	Active	245	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	237	Potable	6	4
Municipality	Active	236	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	234	Potable	6	4
Municipality	Active	233	Potable	6	4
Municipality	Active	230	Potable	6	4
Municipality	Active	229	Potable	6	4
Municipality	Active	228	Potable	6	4
Municipality	Active	227	Potable	6	4
Municipality	Active	231	Potable	6	4
Municipality	Active	226	Potable	6	4
Municipality	Active	232	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	481	Potable	6	4
Municipality	Active	480	Potable	6	4
Municipality	Active	479	Potable	6	4
Municipality	Active	457	Potable	6	4
Municipality	Active	458	Potable	6	4
Municipality	Active	459	Potable	6	4
Municipality	Active	17	Potable	6	4
Municipality	Active	19	Potable	6	4
Municipality	Active	18	Potable	6	4
Municipality	Active	499	Potable	6	4
Municipality	Active	484	Potable	6	4
Municipality	Active	498	Potable	6	4
Municipality	Active	488	Potable	6	4
Municipality	Active	487	Potable	6	4
Municipality	Active	486	Potable	6	4
Municipality	Active	483	Potable	6	4
Municipality	Active	400	Potable	6	4
Municipality	Active	485	Potable	6	4
Municipality	Active	496	Potable	6	4
Municipality	Active	426	Potable	6	4
Municipality	Active	462	Potable	6	4
Municipality	Active	463	Potable	6	4
Municipality	Active	209	Potable	6	4
Municipality	Active	57	Potable	6	4
Municipality	Active	58	Potable	6	4
Municipality	Active	55	Potable	6	4
Municipality	Active	81	Potable	6	4
Municipality	Active	80	Potable	6	4
Municipality	Active	42A	Potable	6	4
Municipality	Active	11	Potable	6	4
Municipality	Active	59	Potable	6	4
Municipality	Active	10	Potable	6	4
Municipality	Active	13	Potable	6	4
Municipality	Active	71	Potable	6	4
Municipality	Active	72	Potable	6	4
Municipality	Active	497	Potable	6	4
Municipality	Active	495	Potable	6	4
Municipality	Active	494	Potable	6	4
Municipality	Active	402	Potable	6	4
Municipality	Active	41	Potable	6	4
Municipality	Active	405	Potable	6	4
Municipality	Active	406	Potable	6	4
Municipality	Active	490	Potable	6	4
Municipality	Active	412	Potable	6	4
Municipality	Active	404	Potable	6	4
Municipality	Active	403	Potable	6	4
Municipality	Active	411	Potable	6	4
Municipality	Active	410	Potable	6	4
Municipality	Active	413	Potable	6	4

Municipality	Active	476	Potable	6	4
Municipality	Active	407	Potable	6	4
Municipality	Active	478	Potable	6	4
Municipality	Active	408	Potable	6	4
Municipality	Active	409	Potable	6	4
Municipality	Active	24	Potable	6	4
Municipality	Active	450	Potable	6	4
Municipality	Active	15	Potable	6	4
Municipality	Active	16	Potable	6	4
Municipality	Active	46	Potable	6	4
Municipality	Active	42	Potable	6	4
Municipality	Active	45	Potable	6	4
Municipality	Active	262	Potable	6	4
Municipality	Active	467	Potable	6	4
Municipality	Active	500A	Potable	6	4
Municipality	Active	414	Potable	6	4
Municipality	Active	415	Potable	6	4
Municipality	Active	416	Potable	6	4
Municipality	Active	73	Potable	6	4
Municipality	Active	74	Potable	6	4
Municipality	Active	79	Potable	6	4
Municipality	Active	77	Potable	6	4
Municipality	Active	76	Potable	6	4
Municipality	Active	75	Potable	6	4
Municipality	Active	12	Potable	6	4
Municipality	Active	83	Potable	6	4
Municipality	Active	9	Potable	6	4
Municipality	Active	9A	Potable	6	4
Municipality	Active	250	Potable	6	4
Municipality	Active	249	Potable	6	4
Municipality	Active	248	Potable	6	4
Municipality	Active	14	Potable	6	4
Municipality	Active	282	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	283	Potable	6	4
Municipality	Active	281	Potable	6	4
Municipality	Active	280	Potable	6	4
Municipality	Active	207	Potable	6	4
Municipality	Active	208	Potable	6	4
Municipality	Active	206	Potable	6	4
Municipality	Active	205	Potable	6	4
Municipality	Active	273	Potable	6	4
Municipality	Active	272	Potable	6	4
Municipality	Active	212	Potable	6	4
Municipality	Active	211	Potable	6	4
Municipality	Active	274	Potable	6	4
Municipality	Active	275	Potable	6	4
Municipality	Active	276	Potable	6	4
Municipality	Active	277	Potable	6	4
Municipality	Active	278	Potable	6	4
Municipality	Active	224	Potable	6	4
Municipality	Active	223	Potable	6	4
Municipality	Active	222	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	271	Potable	6	4
Municipality	Active	221	Potable	6	4
Municipality	Active	220	Potable	6	4
Municipality	Active	279A	Potable	6	4
Municipality	Active	266	Potable	6	4
Municipality	Active	267	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	270	Potable	6	4
Municipality	Active	252	Potable	6	4
Municipality	Active	253	Potable	6	4
Municipality	Active	254	Potable	6	4
Municipality	Active	251	Potable	6	4
Municipality	Active	255	Potable	6	4
Municipality	Active	257	Potable	6	4
Municipality	Active	258	Potable	6	4
Municipality	Active	246	Potable	6	4

No Hydrant Valve

Municipality	Active	244	Potable	6	4	Open Hydrant
Municipality	Active	243	Potable	6	4	
Municipality	Active	279	Potable	6	4	
Municipality	Active	43	Potable	6	4	
Municipality	Active	43A	Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active	443	Potable	6	4	
Municipality	Active	444	Potable	6	4	
Municipality	Active	447	Potable	6	4	
Municipality	Active	446	Potable	6	4	
Municipality	Active	445	Potable	6	4	
Municipality	Active	455	Potable	6	4	
Municipality	Active	453	Potable	6	4	
Municipality	Active	454	Potable	6	4	
Municipality	Active	452	Potable	6	4	
Municipality	Active	464	Potable	6	4	
Municipality	Active	519	Potable	6	4	
Municipality	Active	430	Potable	6	4	
Municipality	Active	432	Potable	6	4	
Municipality	Active	434	Potable	6	4	
Municipality	Active	436	Potable	6	4	
Municipality	Active	438	Potable	6	4	
Municipality	Active	906	Potable	6	4	
Municipality	Active	1A	Potable	6	4	
Municipality	Active	6A	Potable	6	4	
Municipality	Active	5A	Potable	6	4	
Municipality	Active	8A	Potable	6	4	
Municipality	Active	7A	Potable	6	4	
Municipality	Active	4A	Potable	6	4	
Municipality	Active	7	Potable	6	4	
Municipality	Active	6	Potable	6	4	
Municipality	Active	5	Potable	6	4	
Municipality	Active	4	Potable	6	4	
Municipality	Active	1	Potable	6	4	
Municipality	Active	2	Potable	6	4	
Municipality	Active	68	Potable	6	4	
Municipality	Active	67	Potable	6	4	
Municipality	Active	29	Potable	6	4	
Municipality	Active	20	Potable	6	4	
Municipality	Active	21	Potable	6	4	
Municipality	Active	69	Potable	6	4	
Municipality	Active	70	Potable	6	4	
Municipality	Active	65	Potable	6	4	
Municipality	Active	235	Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active	240	Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active	424	Potable	6	4	
Municipality	Active	423	Potable	6	4	
Municipality	Active	422	Potable	6	4	
Municipality	Active	421	Potable	6	4	
Municipality	Active	427	Potable	6	4	
Municipality	Active	260	Potable	6	4	
Municipality	Active	261	Potable	6	4	
Municipality	Active	28	Potable	6	4	
Municipality	Active	465	Potable	6	4	
Municipality	Active	25	Potable	6	4	
Municipality	Active	78	Potable	6	4	
Municipality	Active	474	Potable	6	4	
Municipality	Active		Potable	6	4	
Municipality	Active	210	Potable	6	4	
Municipality	Active	90	Potable	6	4	
Municipality	Active	89	Potable	6	4	
Municipality	Active	88	Potable	6	4	
Municipality	Active	87	Potable	6	4	
Municipality	Active	91	Potable	6	4	
Municipality	Active	92	Potable	6	4	

Municipality	Active		Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	3	Potable	6	4
Municipality	Active	64	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	62	Potable	6	4
Municipality	Active	63	Potable	6	4
Municipality	Active	3A	Potable	6	4
Municipality	Active	8	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	500	Potable	6	4
Municipality	Active	501	Potable	6	4
Municipality	Active	425	Potable	6	4
Municipality	Active	502	Potable	6	4
Municipality	Active	503	Potable	6	4
Municipality	Active	504	Potable	6	4
Municipality	Active	368	Potable	6	4
Municipality	Active	369	Potable	6	4
Municipality	Active	367	Potable	6	4
Municipality	Active	370	Potable	6	4
Municipality	Active	361	Potable	6	4
Municipality	Active	360	Potable	6	4
Municipality	Active	362	Potable	6	4
Municipality	Active	363	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	489	Potable	6	4
Municipality	Active	460	Potable	6	4
Municipality	Active	677	Potable	6	4
Municipality	Active	216	Potable	6	4
Municipality	Active	217	Potable	6	4
Municipality	Active	218	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	364	Potable	6	4
Municipality	Active	219	Potable	6	4
Municipality	Active	366	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	482	Potable	6	4
Municipality	Active	465A	Potable	6	4
Municipality	Active	466	Potable	6	4
Municipality	Active	461	Potable	6	4
Municipality	Active		Potable	6	4
Municipality	Active	475	Potable	6	4
Municipality	Active	489A	Potable	6	4
Municipality	Active	489B	Potable	6	4
Municipality	Active	441	Potable	6	4
Municipality	Active	489C	Potable	6	4
Municipality	Active	489D	Potable	6	4
Municipality	Active	489E	Potable	6	4
Municipality	Active	259	Potable	6	4
Municipality	Active	501A	Potable	6	4

Appendix D. 2025 NJDEP Lead Service Line Inventory Submission

Revised 8/13/25

Submittal Summary

Submittal ID: 81756

Application: LSLI - Annual Lead Service Line Progress Report

Submitted by: thomas feret

eMail: tferet01@gmail.com

Owner Information: thomas feret

eMail: tferet01@gmail.com

Submitted Time: 8/13/2025 7:04:08 AM

Form Detail

Submittal Name: LSLI - Annual Lead Service Line Progress Report

Submission Method: Online

Attachment Information

Attachment List:

Certification

Certification Statement: I, as the Responsible Officer or delegated by the Accounting Officer, declare that the information provided in this application or attached to the application is, to the best of my knowledge, in all respects factually true and correct. I am aware that the supply of false or misleading information in the application form is a criminal offence.

PIN Number: *****

IP Address: 70.89.46.233

Responsible Officer: thomas feret

Revised 8/13/25



LSLI – Annual Lead Service Line Progress Report

RID 81756

Submitted Date 8/13/2025

Water System Purveyor Owner

thomas feret

 tferet01@gmail.com

 2015060391

 201-506-0391

 5 Ozone ave, Verona Twp, NJ 07044

Section 1 General Information

Name

VERONA WATER DEPARTMENT

Site ID

133

Physical Location

5 OZONE AVE, Verona, NJ 07044

Accurate as of 8/6/2025

Annual Submittal Year

2025

Section 2 Inventory information

Ownership of the service lines?

Both

Section 3 Lead Service Line Replacement Table

Date range	Number of LSLs replaced (Lead)	Number of LSLs replaced (Galvanized)	Number of LSLs replaced (Lead Gooseneck only)	Total Number
7/21/2021 ~ 6/30/2022	0	0	0	0
7/1/2022 ~ 6/30/2023	0	0	0	0
7/1/2023 ~ 6/30/2024	0	1	0	1
7/1/2024 ~ 6/30/2025	0	11	0	11
7/1/2025 ~ 6/30/2026				0
7/1/2026 ~ 6/30/2027				0
7/1/2027 ~ 6/30/2028				0
7/1/2028 ~ 6/30/2029				0
7/1/2029 ~ 6/30/2030				0
7/1/2030 ~ 6/30/2031				0
Total Number	0	12	0	12

Replacement Rate Statement

- We met the replacement rate specified in our lead service line replacement plan.
- We did not meet the replacement rate specified in our lead service line replacement plan.

Number of Refusals

7

Number of non-Responses

47

Communication Attempts

101

Were any partial lead service line replacements conducted?

Yes

Partial Replacements Count

11

Were any filters provided?

No

Section 4 Unknown Service Line Identification Table

Date range for unknowns identified as lead or galvanized	Number of unknowns identified as lead or galvanized	Number of unknowns identified as non-lead
7/21/2021 ~ 6/30/2022	0	0
7/1/2022 ~ 6/30/2023	7	0
7/1/2023 ~ 6/30/2024	2	589
7/1/2024 ~ 6/30/2025	34	402
7/1/2025 ~ 6/30/2026		
7/1/2026 ~ 6/30/2027		
7/1/2027 ~ 6/30/2028		
7/1/2028 ~ 6/30/2029		
7/1/2029 ~ 6/30/2030		
7/1/2030 ~ 6/30/2031		
Total Number	43	991

Total number of unknowns identified
1034

Section 5 Non-lead Service Line Identification Table

Date range for non-lead service lines later identified to be lead

Number of non-lead service lines later identified to be lead

7/21/2021 ~ 6/30/2022

0

7/1/2022 ~ 6/30/2023

0

7/1/2023 ~ 6/30/2024

0

7/1/2024 ~ 6/30/2025

0

7/1/2025 ~ 6/30/2026

7/1/2026 ~ 6/30/2027

7/1/2027 ~ 6/30/2028

7/1/2028 ~ 6/30/2029

7/1/2029 ~ 6/30/2030

7/1/2030 ~ 6/30/2031

Total number identified

0

Appendix E. Tank Inspections

Mumford-Bjorkman Associates, Inc.
P.O. Box 733
New Castle, DE 19720
1-800-486-4841
www.mbatanks.com

Subject

The subject of this report is the external and internal evaluation of the following:

Engineer:	Mott MacDonald
Owner:	Verona Township, NJ
Location:	119 Fairway Avenue, Verona, NJ
Tank Name:	Fairway Tank
Capacity:	800,000 Gal. Standpipe
Size:	Approximately 46' Diameter x 65' High
Erected By:	PDM
Year Built:	1970

The exterior was evaluated visually and digital photographs were taken. The digital photographs accompany this report.

The interior was evaluated utilizing our Remotely Operated Vehicle (ROV). Prior to the ROV entering the water, it was disinfected in accordance with AWWA C652. The internal evaluation was recorded and a DVD of this inspection accompanies this report.

This evaluation was performed on November 1, 2017, under MBA Contract No. 173032R.

Objectives

The purpose of this inspection was to determine the condition of the tank's interior, exterior, foundation, and accessories. We will make recommendations for the painting, repair, corrosion protection, and maintenance. However, our inspection for this structure is made visually, using only a PosiTest gauge for film thickness. The

Fairway Tank

dimensions of the structure and its appurtenances were retrieved during this evaluation and should be verified prior to receiving quotes for maintenance and repairs. Our recommendation for a paint system on the interior and exterior are for convenience, using a system we feel is satisfactory, having limited knowledge of the environment and water content. Structural repairs listed in this report are given for consideration by the Owner's Engineers.

Summary

A. Lead Testing

MBA was not authorized to remove coating samples for total lead analysis.

B. Security

The tank is located in a residential area of Verona Township in Verona, NJ. The tank site is surrounded by a 8' high chainlink fence topped with barbed wire. The barbed wire is damaged or missing at the rear of the site. A lock is present on the fence gate and the valve vault door is locked. A locked ladder gate is present on the shell ladder and the roof manhole is locked. See photographs #6, #8, #12, #43, #46, #75, and #76.

C. Exterior

1. **Site** - The tank is located at the top of a hill. Access to the tank site is provided by a paved driveway. The distance between the tank and site fence is 8'. The grounds outside the tank site are comprised of residential homes on the front of the site and woods on the back of the site. There are houses immediately to the left and the right of the tank site. There is very limited lay down inside the fence for the contractor's equipment during the tank rehabilitation, and it may be difficult to get large, heavy equipment to the tank site. See photographs #1, #2, #6, #12, #22, #37, #43, and #44.

2. **Foundation** - The concrete foundation was found to be in good condition, with only minor chipping, bug holes, and exposed aggregate noted. The sealant was in fair condition with minor breakdown occurring. See photographs #23-#27.

3. **Protective Coating** - The exterior coating appeared to be an epoxy / urethane overcoat. The coating measured from 12-18 mils dry film thickness. Coating

Fairway Tank

adhesion testing was performed in accordance with ASTM D3359, Method A (X-cut). The ASTM adhesion rating for Method A range from 0A-5A, with a 0A rating being the worst, and a 5A rating being the best. The exterior coating met the criteria of a 1A rating, indicating removal from most of the area of the X under the tape. See photograph #42.

Weathering with pinhole corrosion was present on the shell rings with sporadic coating breakdown down to prime coat occurring. Generalized mildew growth was present on throughout the bottom shell rings. Corrosion was affecting approximately 20% of the shell surfaces. Areas of checked coating were resulting in coating delamination down to prime coat. Corrosion was present on irregular surfaces such as the manhole lips, fasteners, overflow pipe, roof platform, ladder components, and base plate. Minor holidays were noted on the overflow pipe, ladder components, and rest platforms. See photographs #3-#5, #13-#42, and #44-#53.

The coating on the roof was found to be heavily weathered, with generalized pinhole corrosion occurring. Approximately 60% of the flat roof plate surfaces were exhibiting pinhole corrosion. Other areas of corrosion were noted on irregular surfaces such as the roof handrails, platform, steps, vent neck flange, and manhole. See photographs #54-#76.

We recommend that the exterior surfaces are fully abrasive blasted to an SSPC-SP6, "Commercial Blast," and recoated within one (1) to three (3) years. During abrasive blasting operations, it will be necessary to utilize a Class 1A containment in accordance with SSPC Guide 6. We have attached our Cleaning and Painting Recommendation Sheet, as well as our Cost Estimate Sheet, for your review and consideration.

4. **Structural** - This tank appeared to be in good structural condition. Minor distortion on the shell ring near the overflow pipe was observed. See photograph #31.

5. Components -

a. **Valve Vault** - A small building with locked door is located inside the fence in front of the tank, and contains the valve vault. There are two (2) pipes in the vault. The coating on the pipes appeared to be a vinyl coating that was found to be in poor condition with generalized corrosion occurring. We recommend that the valve

Fairway Tank

vault piping is abrasive blasted and recoated during the next rehabilitation. See photographs #6-#11.

b. **Base Plate** - The base plate was exhibiting generalized corrosion along the exposed edge, with evidence of minor metal loss noted. The base plate appeared to be in good condition. See photographs #23, #24, and #27.

c. **Overflow Pipe** - This tank is equipped with a 6" diameter external overflow pipe, and appeared to be adequately supported. Corrosion was observed throughout the overflow pipe. The overflow pipe travels down the shell and discharges 8" above a concrete splash pad that directs any flow of water down the drive way. The overflow pipe screen is in good condition with minor corrosion on the washers and flange. See photographs #30-#37.

d. **Shell Manholes** - This tank is equipped with two (2) shell manholes. One 18" x 24" manhole with double clamps is located 41" above grade and one (1) 24" diameter manhole with single cross-clamp is located 18" above grade. Neither have external davit arms or hinges. Corrosion was noted on the 18" x 24" shell manhole lip and on the nuts and bolts of both shell manholes. Current AWWA recommendations call for at least one (1) shell manhole to measure no less than 30" diameter. See photographs #38-#40.

e. **Shell Ladder** - The 15" inner diameter ladder is located 9' above grade and is equipped with a full cage with an 28" cage back. The ladder possesses an 8" standoff. The shell ladder is not equipped with a safety climb device. Sporadic corrosion was occurring on the ladder and cage. Minor corrosion was present on the rungs. Under OSHA's 29 CFR 1910.23, the ladder is undersized, as a 16" inner diameter is required. See photographs #44-#48.

f. **Roof Platforms and Handrails** - A 29" x 26" diamond plate platform is present at the top of the shell ladder, and provides access to the roof. Attached to the diamond plated platform is a 42" x 25" expansion steel platform. Corrosion was observed on the top and underside of the expansion steel platform. The handrails on the roof platform measure 42" high, with a 4" kick plate and a midrail. The roof handrails extend to the left and the right of the shell ladder and extend approximately 4' from the edge of the roof to the center of the roof. Corrosion was observed on the roof handrails. See photographs #50-#57.

Fairway Tank

g. **Roof Manhole** - This tank is equipped with one (1) hinged 24" x 24" roof manhole with a 5" rain lip. The roof manhole was not locked at the time of our inspection, but one was installed by MBA upon completion of the inspection. Corrosion was observed on the 5" rain lip and the lid. When the roof manhole lid is opened it rests on the roof handrail vertical post. Damage can occur to the coating on the roof handrail vertical post when the roof manhole lid is opened. The rain lip on the manhole does not comply with current N.J.A.C. requirements, which requires a minimum 6" high rain lip. See photographs #74-#76.

h. **Roof Vent** - This tank is equipped with a 18" diameter pressure vacuum (PV) vent that is mounted on a 18" diameter flanged vent neck. The screen and pressure pallet were found to be intact and in good condition. Corrosion was observed on underside of the vent neck flange and vent. A partially torn plastic sheet was present in between the vent pressure pallet and vent. See photographs #62-#67.

i. **Antennas** - Two (2) whip antennas are located on the roof handrails, and one (1) is located on the overflow pipe. The conduits for the handrail antennas travel up the shell ladder cage, and should be relocated. See photographs #30-#32, #44, #46, #48, #54, and #68.

6. Repairs and Modifications -

- a. Repair site fence and barbed wire.
- b. Abrasive blast and recoat valve vault piping.
- c. Remove all sealant and re-apply an elastomeric sealant at the base plate. See attached drawing.
- d. Install a screened overflow discharge flap gate. See attached drawing.
- e. Replace the 18" x 24" shell manhole with a new bolted 30" diameter shell manhole with an external davit arm or hinge. See attached drawing.
- f. Replace the shell ladder with and OSHA compliant shell ladder, cut off 16' above grade.

Fairway Tank

- g. Install a galvanized flexible safety climb device on the new shell ladder. See attached drawing.
- h. Install locked 8' aluminum ladder guard at base of new shell ladder. See attached drawing.
- i. Install self-closing swing gate at the shell ladder to roof platform transition.
- j. Increase roof manhole rain lip height to no less than 6" to comply with current N.J.A.C. requirements.
- k. Remove existing 18" diameter roof vent and replace with a new 24" diameter flanged vent neck and new 18" diameter vent. See attached drawing.
- l. Install welded clips on the shell to the right (counter-clockwise) of the new shell ladder and relocate all antenna conduits to these clips, away from the shell ladder.

D. Interior

1. **Protective Coating** - The interior coating is an epoxy system that was found to be in good condition. The coating measured 6-11 mils dry film thickness.

The coating above the waterline was exhibiting minor isolated pinhole corrosion. Rust staining was emanating from the lap seams on the roof and knuckle. Moderate staining was noted in the water level fluctuation zone. See photographs #77-#81 and DVD containing ROV footage.

The coating below the waterline was exhibiting isolated pinhole corrosion. Isolated areas of coating failure were observed. Isolated blistering was present, with some found to be fractured, and others intact. See DVD containing ROV footage.

We recommend that the interior surfaces are fully abrasive blasted to an SSPC-SP10, "Near White Metal Blast," and recoated during the next tank rehabilitation. We have attached our Cleaning and Painting Recommendation Sheet and Cost Estimate Sheet for your review and consideration.

2. Components -

a. **Overflow** - The interior overflow elbows up 90 degrees from its shell penetration. The intake appeared to be in good condition and unobstructed. See photograph #81 and DVD containing ROV video footage.

b. **Painters Angle** - This tank is equipped with one (1) shell painters angle at the top of the shell. The angle is detaching from the shell and found to be split in one (1) location. This could be a result of ice damage. We recommend that the angle is repaired and re-welded to secure it. Corrosion and minor debris were present on and around the angle ring, particularly inside the lip. The angle should not be used for rigging in its current condition. See photograph #77 and DVD containing ROV footage.

c. **Inlet/Distribution Line** - The inlet/distribution line is equipped with a removable silt stop. No sediment encroachment was noted, and the silt stop appeared to be in good condition, with minor tubulars noted on the lip and silt stop. See DVD containing ROV footage.

d. **Shell Manholes** - The two (2) shell manholes and their gaskets were intact with no evidence of leakage detected. Corrosion were present on the interior flanges. An internal davit arm is present on the 24" diameter shell manhole. See DVD containing ROV video footage.

3. **Structural** - This tank appeared to be in good structural condition.

4. **Sediment** - Approximately 1/2" of sediment was observed on the floor. See DVD containing ROV video footage.

5. **Repairs and Modifications** -

a. Repair the existing painters angle.

b. Perform metal repairs as necessary. Areas exhibiting 50% or greater metal loss should be pit welded or patch plated.

Fairway Tank

Conclusion

We recommend that the tank is rehabilitated within in one (1) to three (3) years. All repairs listed should be performed during the next rehabilitation. We have attached a copy of our Cleaning and Painting Recommendations Sheet, as well as our Cost Estimate Sheet, for your review and consideration.

MBA'S TANK DATA SHEET

Customer Mott MacDonald **Inspection Date** 11/1/2017
Location 119 Fairway Ave. **Contract No.** 173032R
City Verona **State** NJ **Builder** PDM
Tank Name Fairway Tank **Year** 1970

Type of Tank Standpipe **Capacity** 800,000 Gal. **Size** ~ 45' Dia. x 65' High

Type of Roof Ellipsoidal **No. of Shell Rings** 8 **Weld / Rivet** Weld

Shell Manhole		Roof Manhole		Vent		Overflow	
Quantity <u>2</u>	Quantity <u>1</u>	Locked <u>Yes</u>	Vent Size <u>18"</u>	Size <u>8"</u>			
Size <u>18" x 24"</u>	Size <u>24" x 24"</u>	Rain Lip <u>5"</u>	Vent Type <u>PV</u>	Screen <u>Good</u>			
<u>24"</u>	<u>N/A</u>		Screen <u>Good</u>	Splash Pad <u>Yes</u>			

Riser		Piping		Accessories	
Size <u>N/A</u>	Inlet Size <u>Unknown</u>	No. of Pipes <u>1</u>	Painter's Attachment <u>No</u>		
Manhole Size <u>N/A</u>	Dist. Size <u>Unknown</u>		CP System <u>No</u> Type <u>N/A</u>		

Ladders		Exterior		Ladder		Roof	Dry	Access Tube	Wet	Riser
Ladder	<u>Yes</u>					<u>No</u>	<u>N/A</u>	<u>N/A</u>	<u>No</u>	<u>N/A</u>
Safety Climb	<u>No</u>	Locked	<u>Yes</u>	Safety Climb		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Cage	<u>Yes</u>	Off Grade	<u>9'</u>	Cage		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Width	<u>15"</u>	Ladder Gate	<u>Yes</u>	Width		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Standoff	<u>8"</u>			Standoff		<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Legs Number of Legs N/A Type of Legs N/A Number of Tiers N/A Leg Anchor Bolts N/A
 Riser Anchor Bolts N/A

Coating Mills
 Int. Coating Epoxy 6-10
 Dry Coating N/A N/A
 Ext. Coating Overcoat 12-18
 Last Painted Unknown
 Contractor Unknown

Total Lead Content
 mg/kg Year
 Int. Wet Total Pb Unknown N/A
 Int. Dry Total Pb N/A N/A
 Exterior Total Pb Unknown N/A

Estimated Area (sq.ft.)
 Interior Wet 12,525
 Interior Dry N/A
 Exterior 10,925

Repairs
Repair fence and barbed wire.
Blast and recoat valve vault piping.
Perform sealant repairs.
Install screen overflow flap gate.
Replace one shell manhole with 30" manhole.
Replace shell ladder with OSHA compliant shell ladder.
Install galvanized flexible cable safety climb.
Install 8' aluminum ladder guard.
Install self-closing swing gate.
Increase roof manhole rain lip height.
Replace roof vent with new 24" vent neck and 18" PV vent.
Install welded clips for antenna cables.
Repair existing painters angle.
Perform metal repairs as necessary.

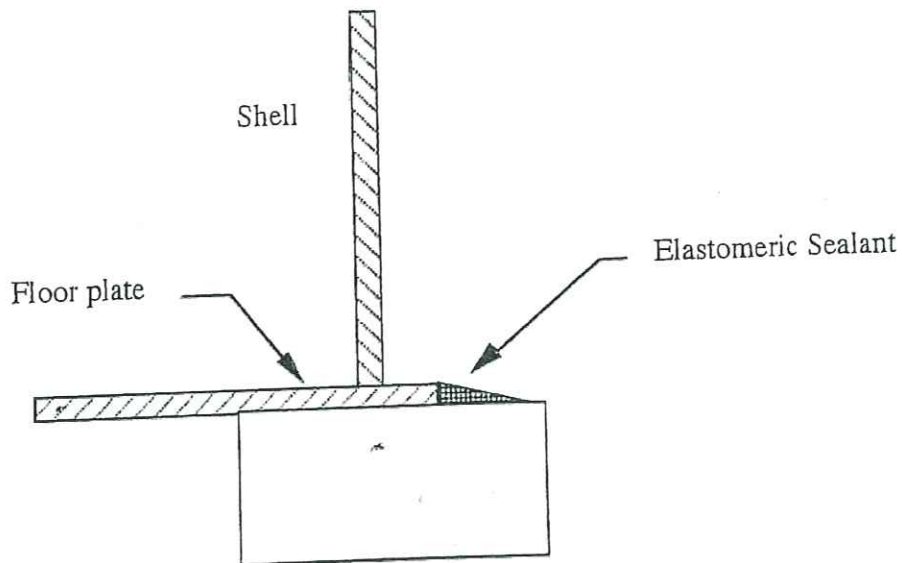
SEALANT INSTALLATION

A) Procedure

All broken and loose sealant between the floor plate and foundation shall be removed. The floor plate shall be cleaned and coated using the system specified in the specification. After the coating is completed and properly cured, an elastomeric sealant shall be applied to the floor plate and slightly tapered to the foundation.

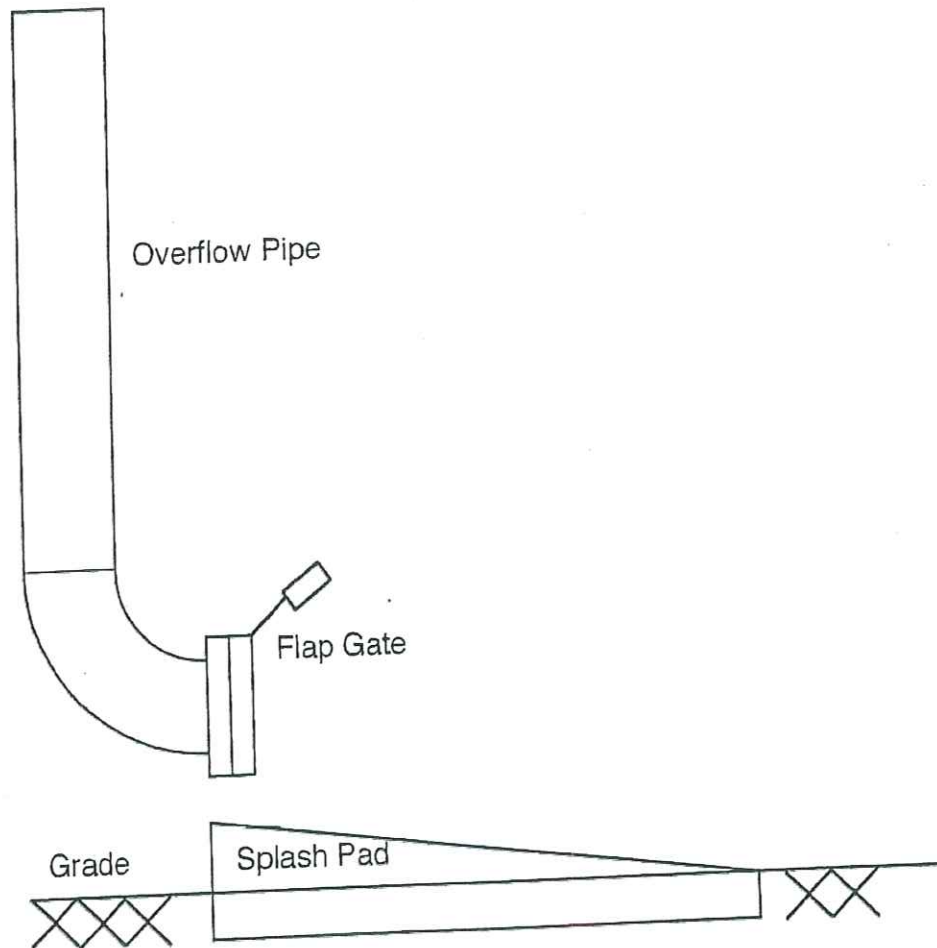
B) Material (Elastomeric sealant)

- 1) Pecora Dynatrol 1 or 2, polyurethane sealant, First State Dist. New Castle, De.
- 2) Sikaflex-1a



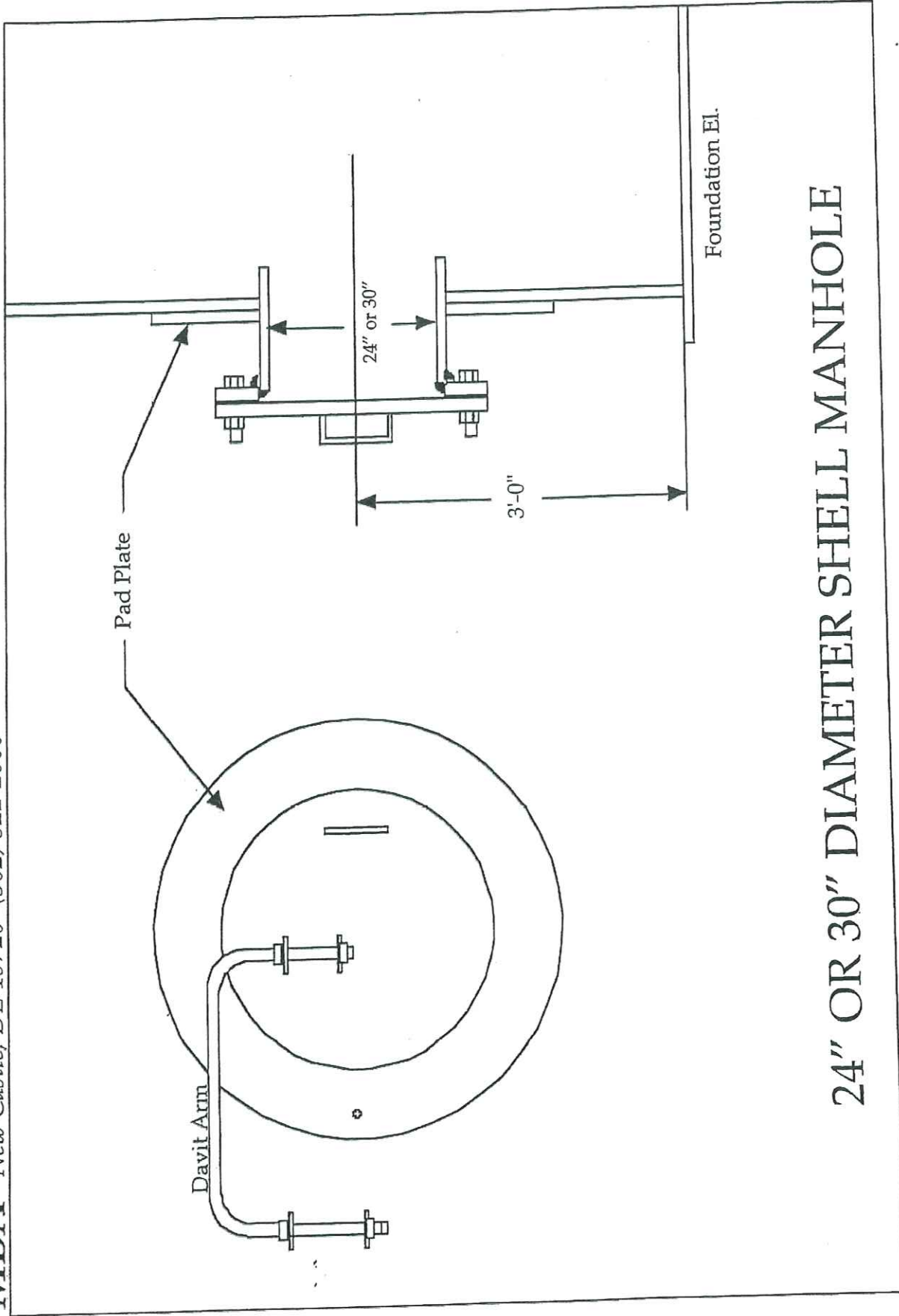
This drawing is only to be used as an illustration for recommended repairs.

OVERFLOW SPLASH PAD AND FLAP GATE



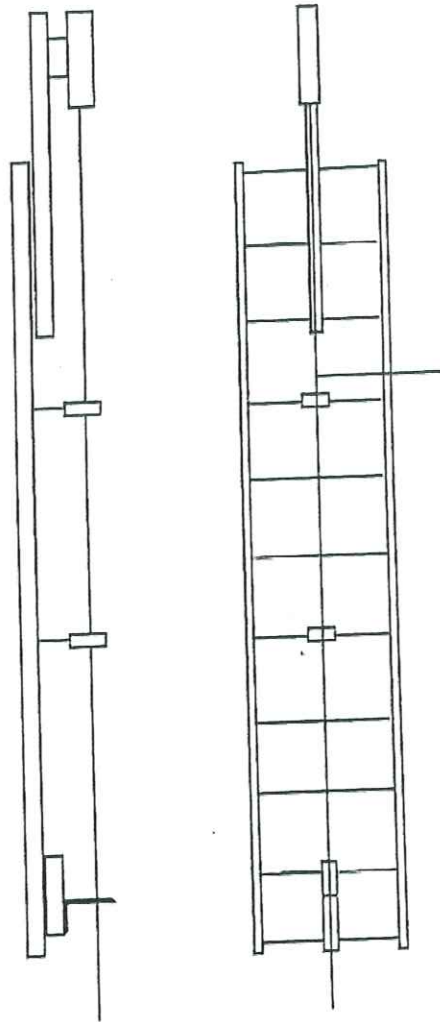
This drawing is not to be used for fabrication. It is intended for illustration purposes only.

MBA New Castle, DE 19720 (302) 322-2000



24" OR 30" DIAMETER SHELL MANHOLE

Flexible Cable Safety Climb System



Galvanized:
3/8" cable 1X7 strand extra
st. 15,400 lbs. min. tensile

Stainless:
3/8" cable 1X7 strand 302
SS, 18,000 lbs. min. tensile

Straight Ladder

OSHA 29 CFR 1910.27 requires a safety climb system on all ladders over 20' in height.

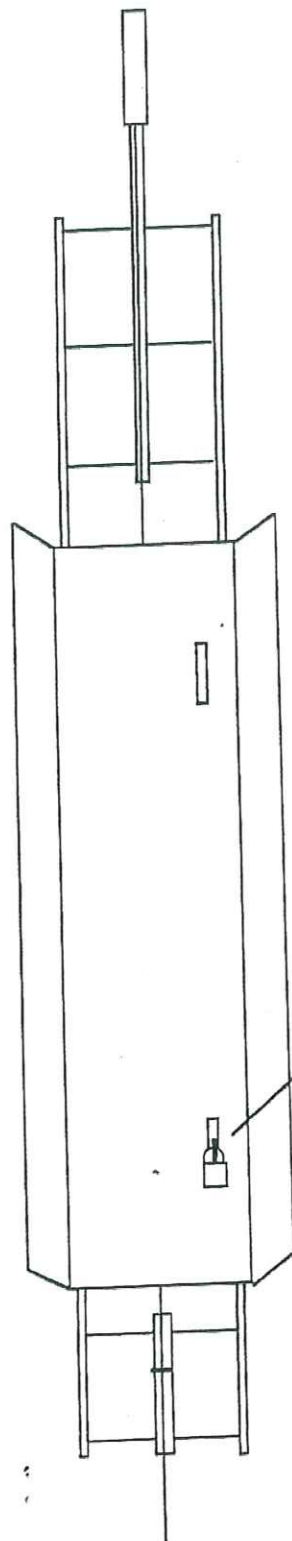
Accessories:
Safety Harness: #1103270
Lanyard: #1244412
Sleeve w/ Carabiner: #6160030

The manufacturer is DBI/SALA. The distributor is First State Distributors, Wilmington, DE (302) 655-8234.

This drawing is not to be used for fabrication. It is intended for illustration purposes only.

MBA, New Castle, De. 302-322-2000

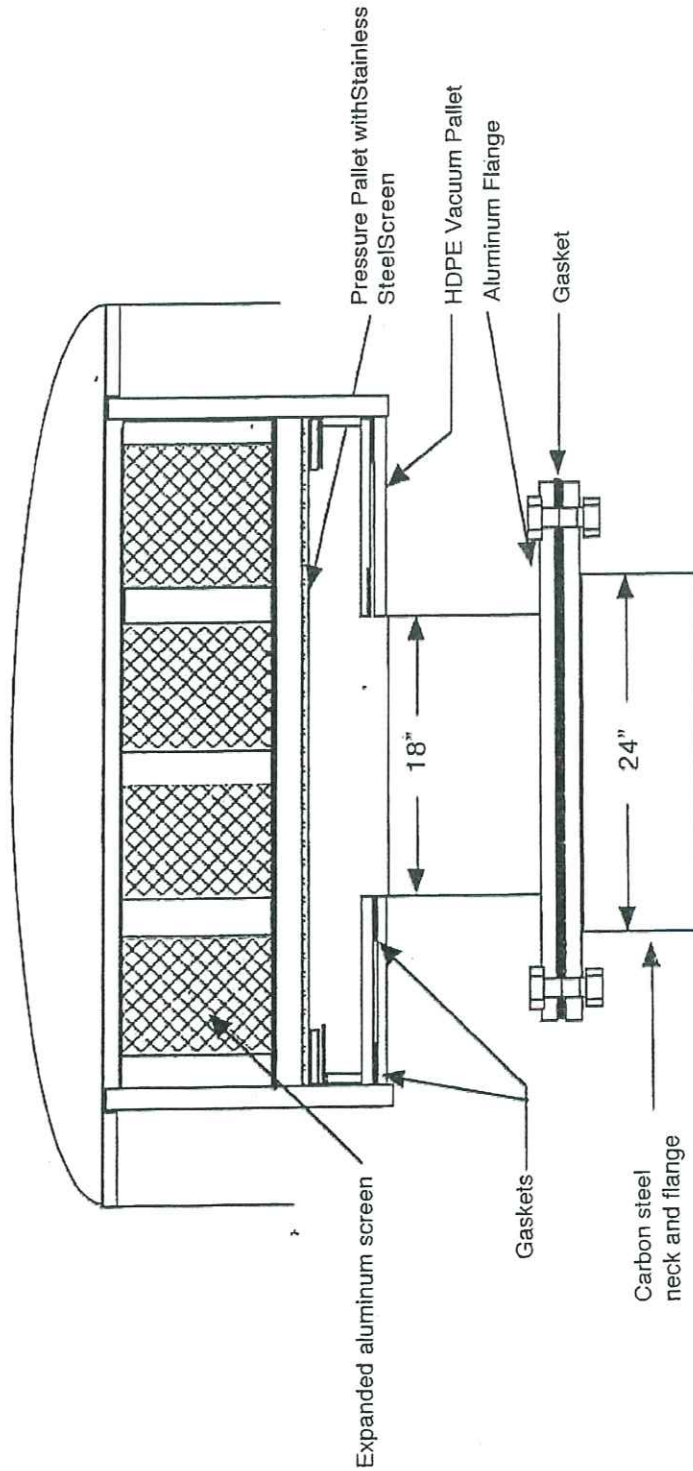
8 Ft. Aluminum Ladder Gate



The manufacturer is
DBI/SALA. The
distributor is First State
Distributors, Wilmington,
DE. (302) 655-8266.

Padlock

ALUMINUM PRESSURE VACUUM VENT



This drawing is not to be used as a fabrication drawing. Its only intent is to illustrate the recommended roof vent.

TBA Photo Log

ABA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

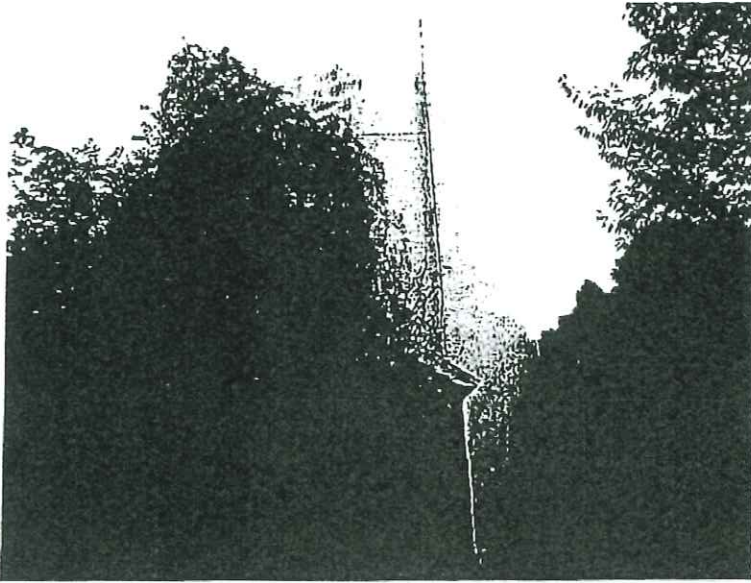


Photo # 1

Date
11/1/2017

Location
Exterior

Notes
Overall of tank.

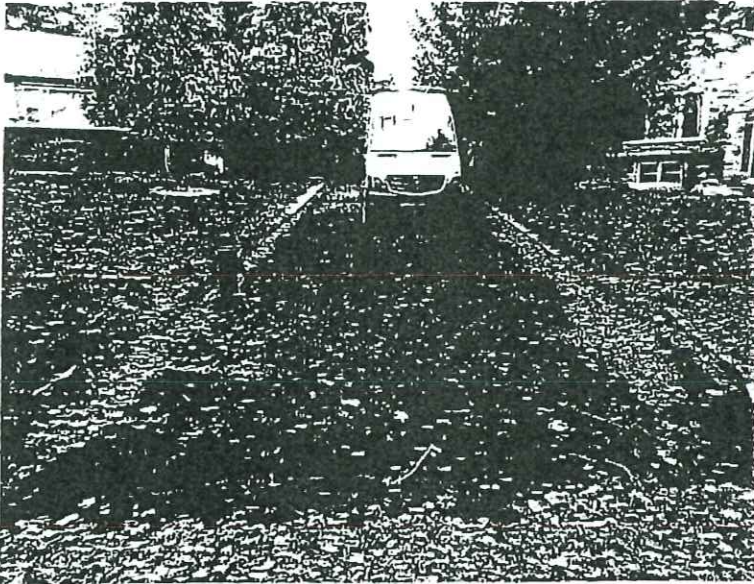


Photo # 2

Date
11/1/2017

Location
Exterior

Notes
Entrance to site,

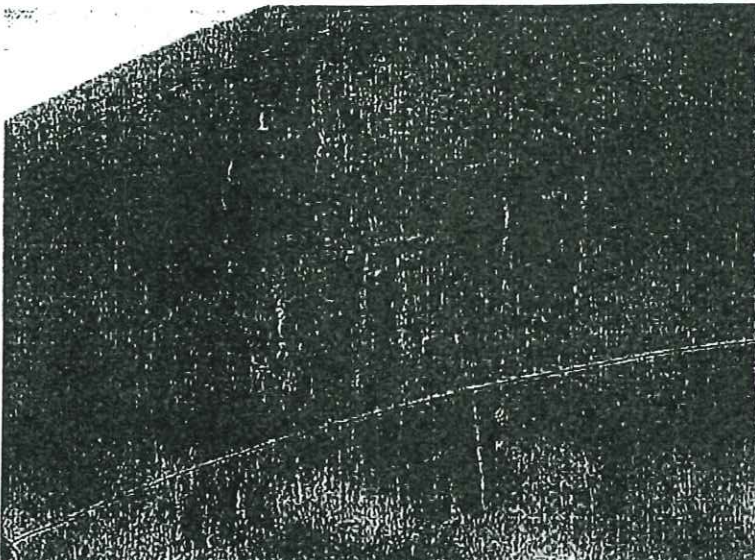


Photo # 3

Date
11/1/2017

Location
Exterior

Notes
Pinhole corrosion on shell.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

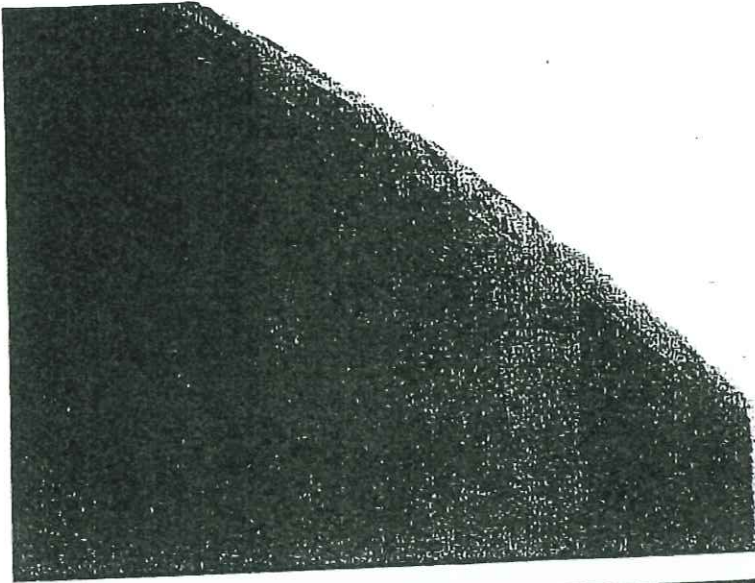


Photo # 4

Date

11/1/2017

Location

Exterior

Notes

Pinhole corrosion on shell.

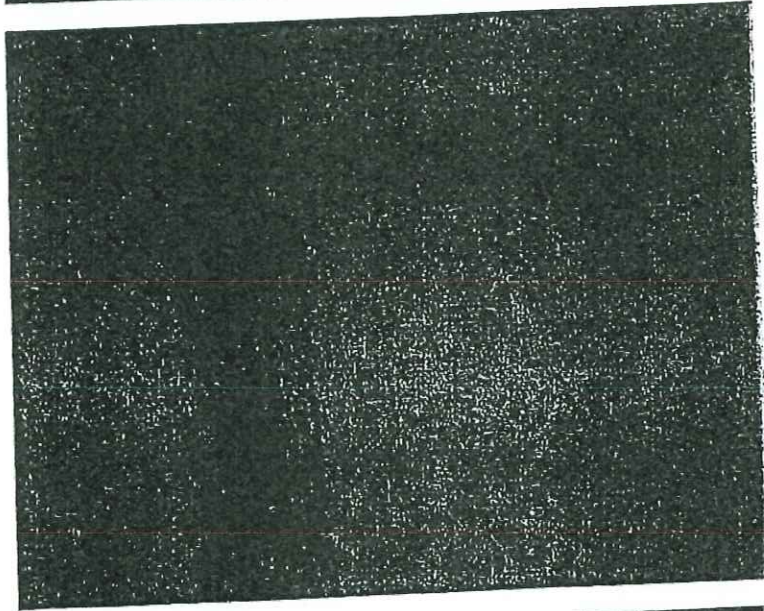


Photo # 5

Date

11/1/2017

Location

Exterior

Notes

Pinhole corrosion on shell.

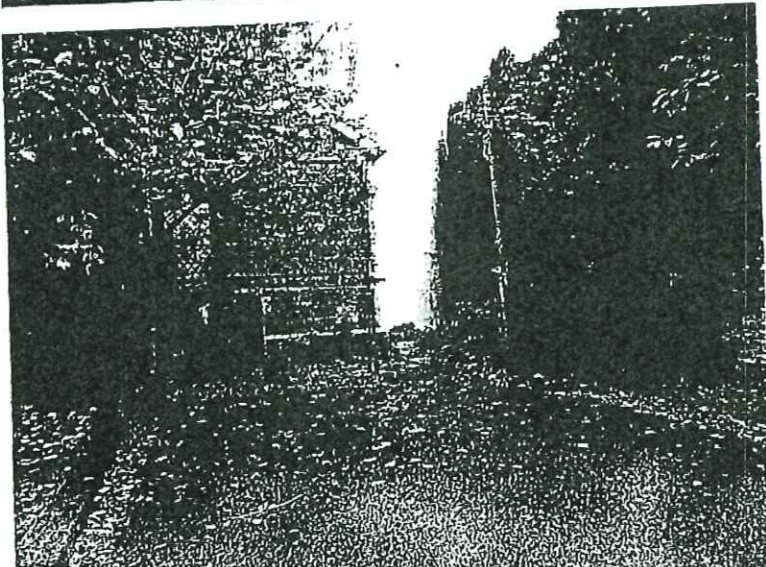


Photo # 6

Date

11/1/2017

Location

Exterior

Notes

Site gate.

Photo Log

Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

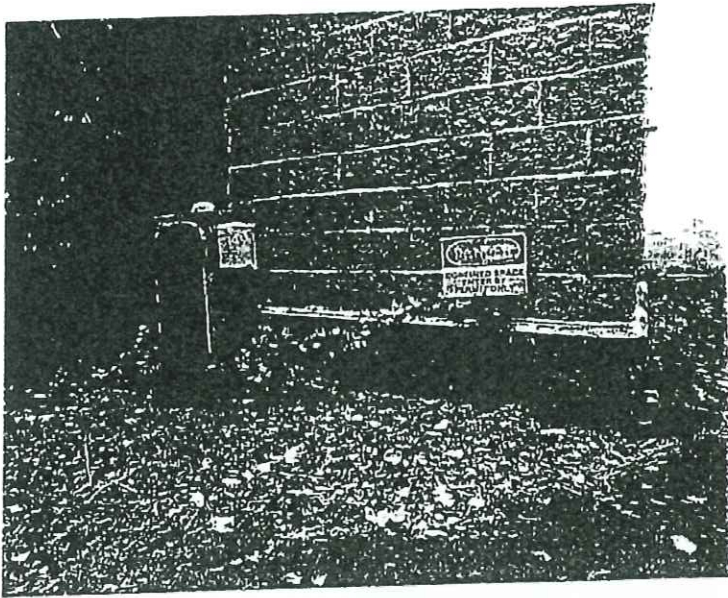


Photo #7

Date

11/1/2017

Location

Valve Vault

Notes

Signage at valve vault.

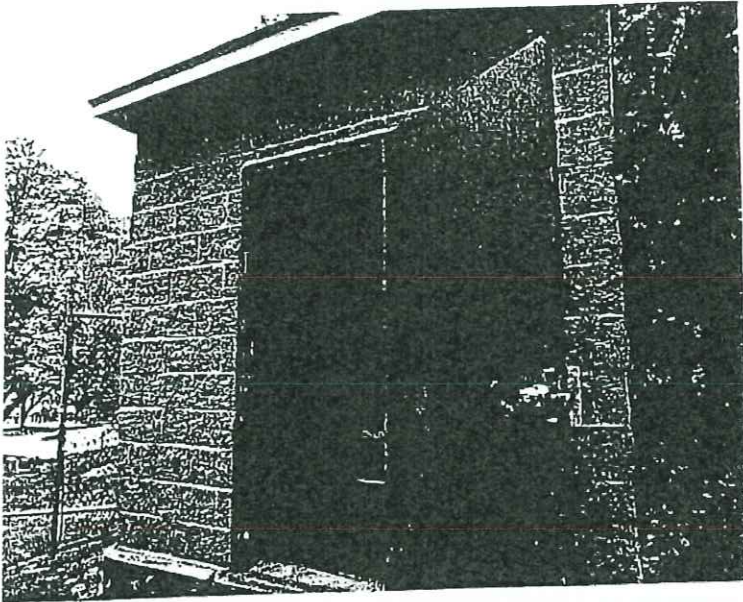


Photo #8

Date

11/1/2017

Location

Valve Vault

Notes

Valve vault entrance.

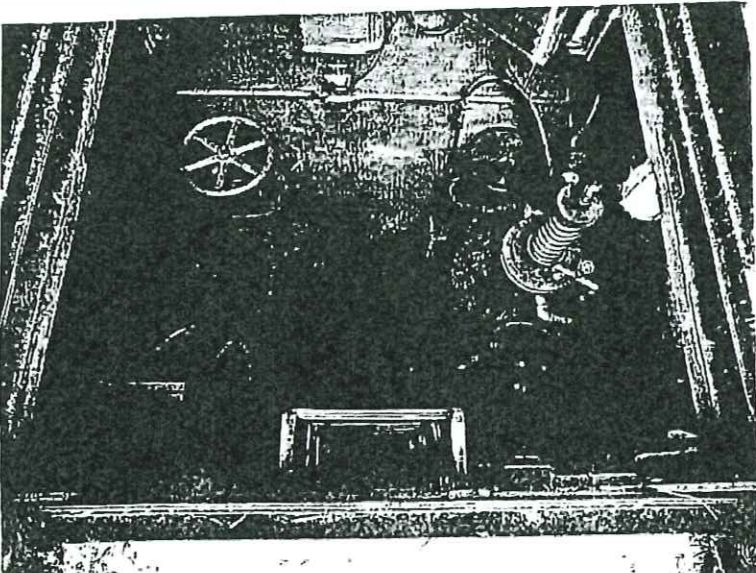


Photo #9

Date

11/1/2017

Location

Valve Vault

Notes

Coating on pipes.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

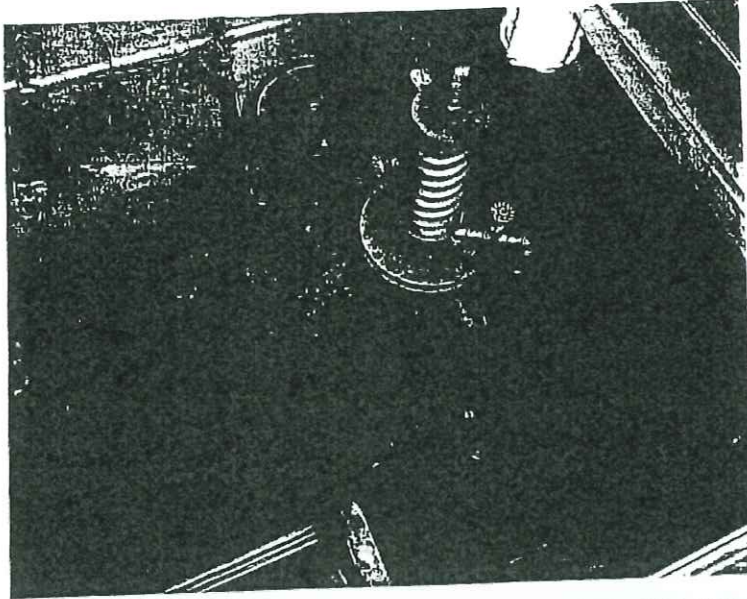


Photo # 10

Date

11/1/2017

Location

Valve Vault

Notes

Corrosion on pipes.

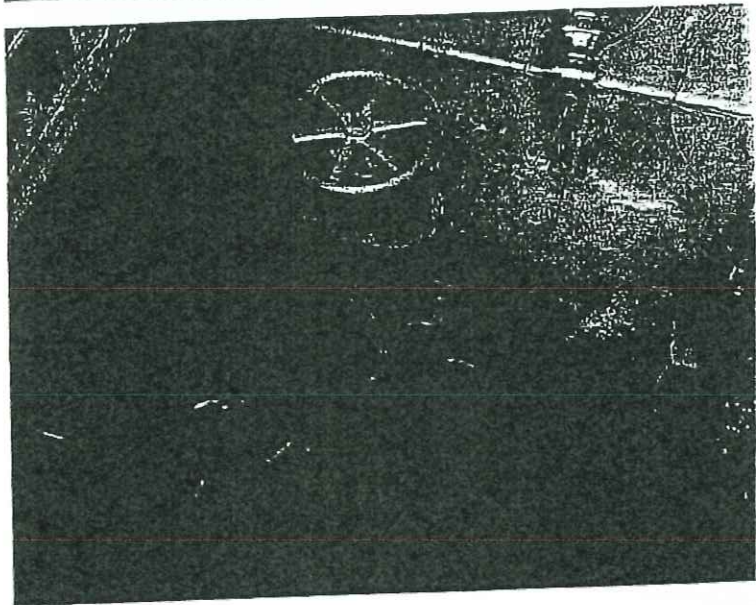


Photo # 11

Date

11/1/2017

Location

Valve Vault

Notes

Corrosion on pipes.

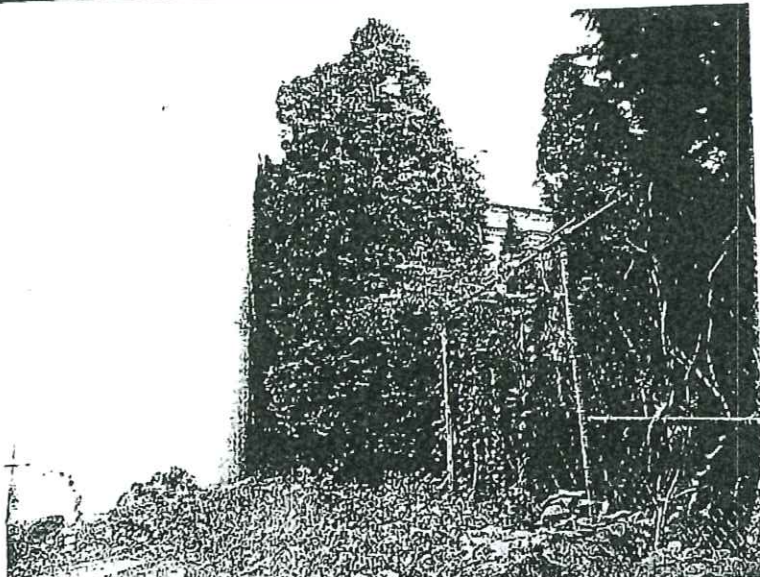


Photo # 12

Date

11/1/2017

Location

Exterior

Notes

Tree growth adjacent to tank.

Photo Log

A Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

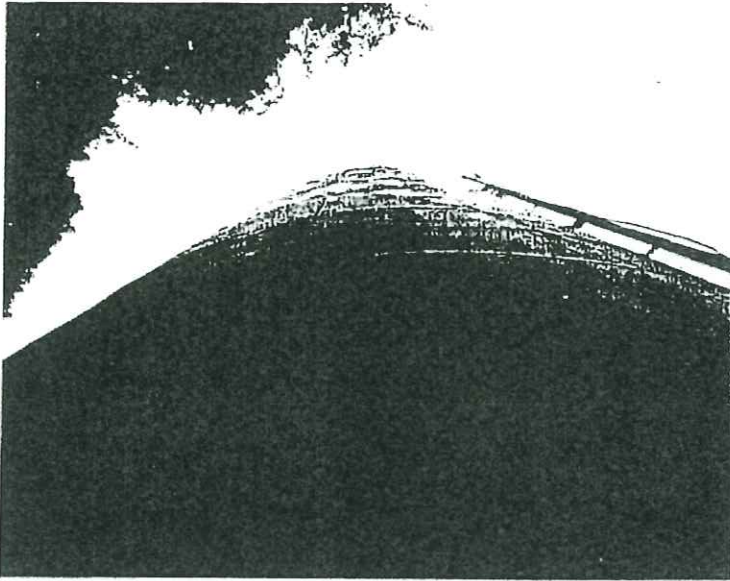


Photo # 13

Date

11/1/2017

Location

Exterior

Notes

Coating on shell.

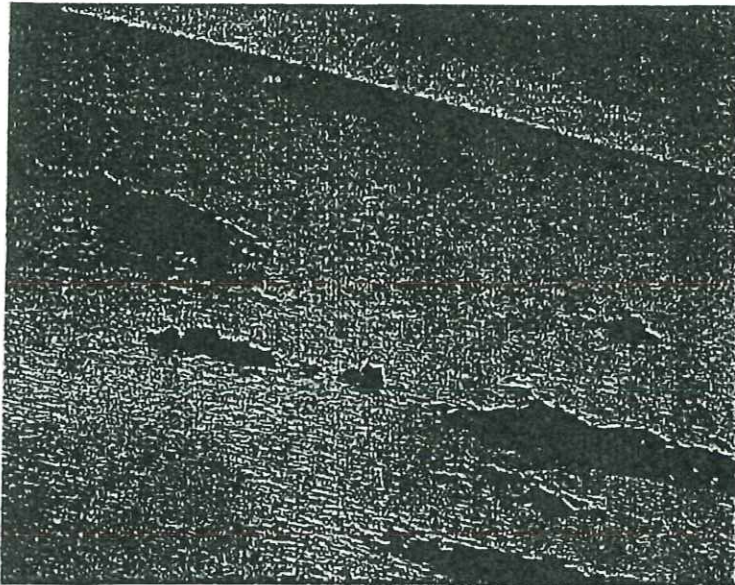


Photo # 14

Date

11/1/2017

Location

Exterior

Notes

Coating delamination on shell.

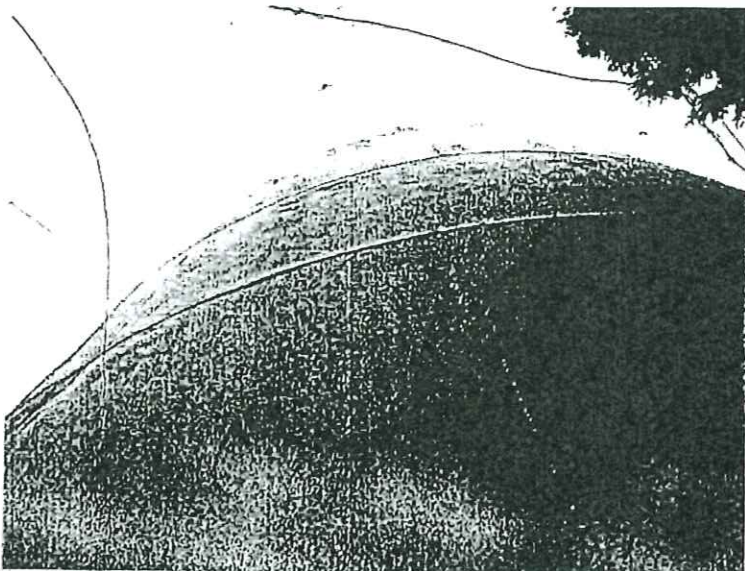


Photo # 15

Date

11/1/2017

Location

Exterior

Notes

Coating on shell.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

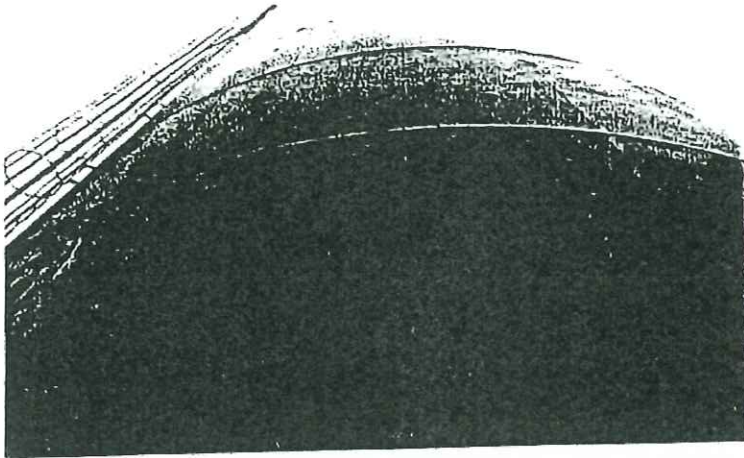


Photo # 16

Date

11/1/2017

Location

Exterior

Notes

Coating on shell.

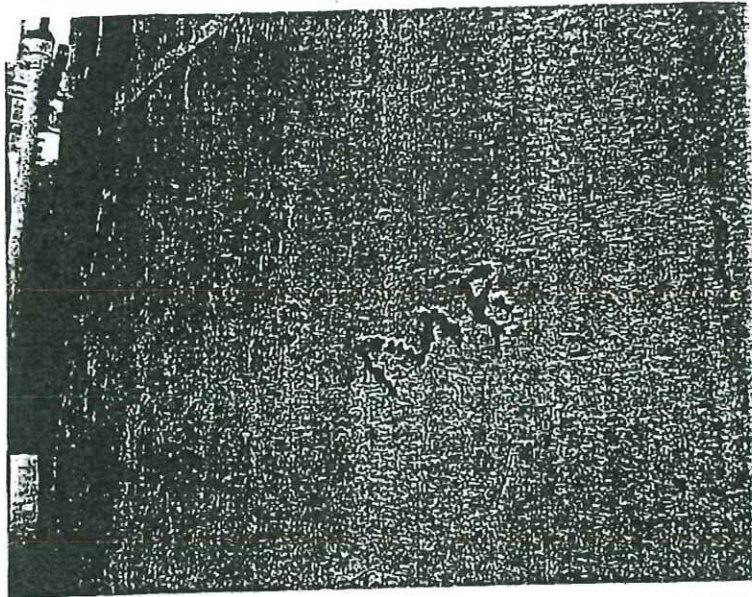


Photo # 17

Date

11/1/2017

Location

Exterior

Notes

Coating delamination on shell.

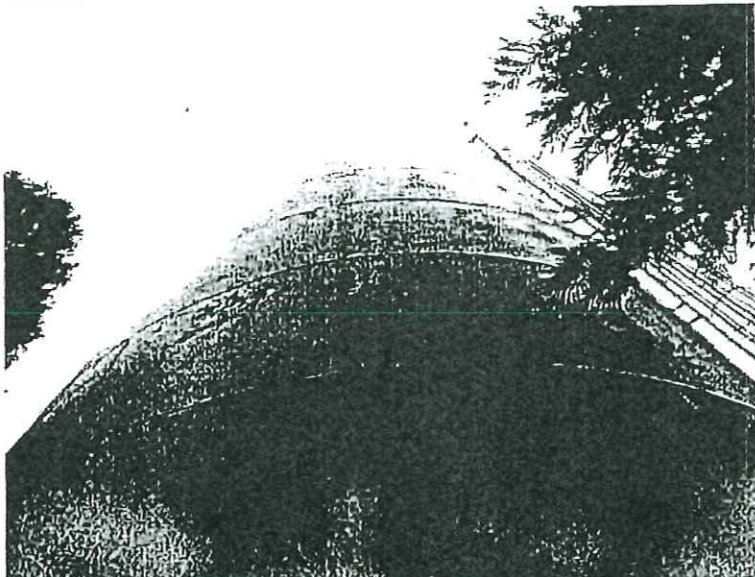


Photo # 18

Date

11/1/2017

Location

Exterior

Notes

Coating on shell.

Photo Log

Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

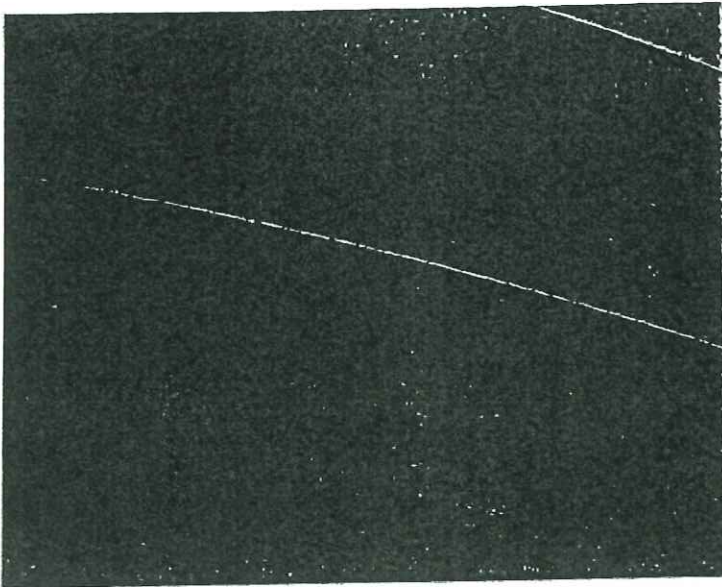


Photo # 19

Date

11/1/2017

Location

Exterior

Notes

Weathered coating on shell.

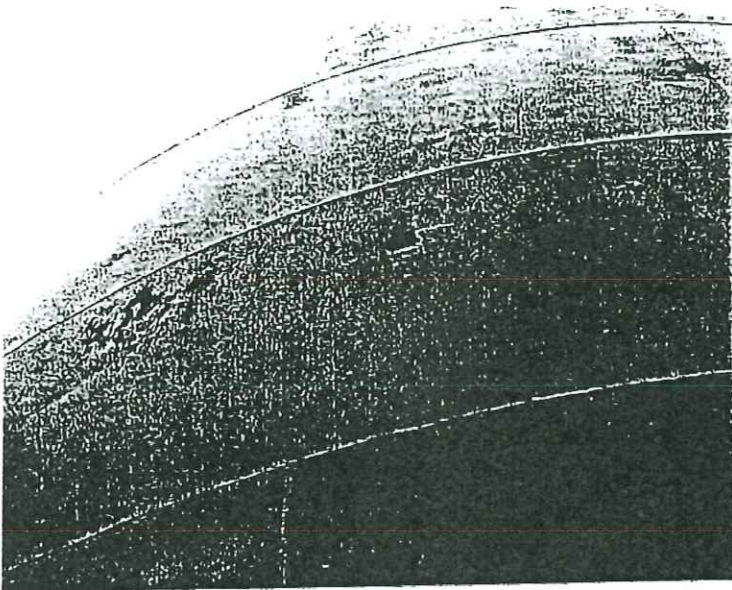


Photo # 20

Date

11/1/2017

Location

Exterior

Notes

Coating delamination on shell.



Photo # 21

Date

11/1/2017

Location

Exterior

Notes

Coating delamination on shell.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe



Photo # 22

Date

11/1/2017

Location

Exterior

Notes

Grounds around tank.

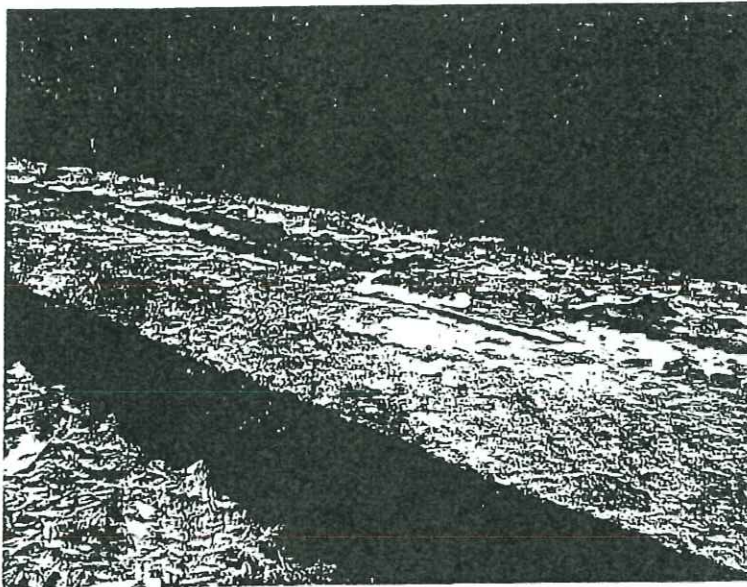


Photo # 23

Date

11/1/2017

Location

Exterior

Notes

Corrosion on base plate, sealant breakdown, and foundation.

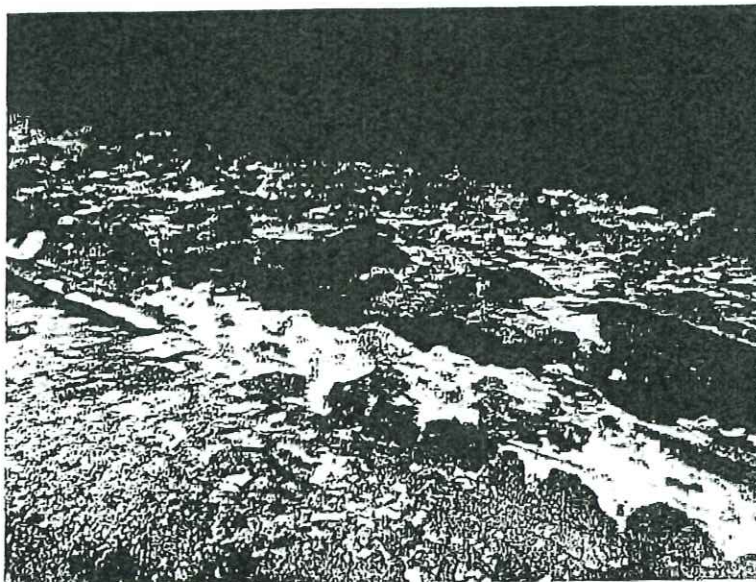


Photo # 24

Date

11/1/2017

Location

Exterior

Notes

Corrosion on base plate and sealant breakdown.

IBA Photo Log

IBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe



Photo #25

Date

11/1/2017

Location

Exterior

Notes

Grounds around tank.

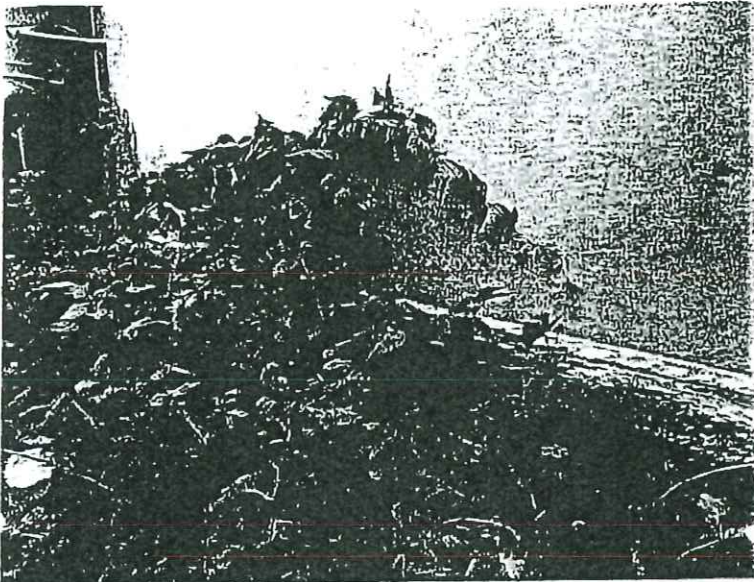


Photo #26

Date

11/1/2017

Location

Exterior

Notes

Overgrowth around tank foundation.

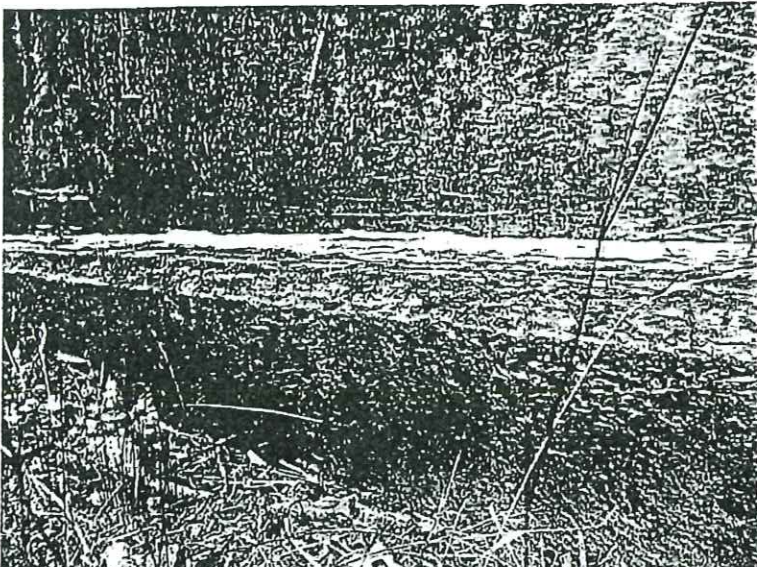


Photo #27

Date

11/1/2017

Location

Exterior

Notes

Tank foundation

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

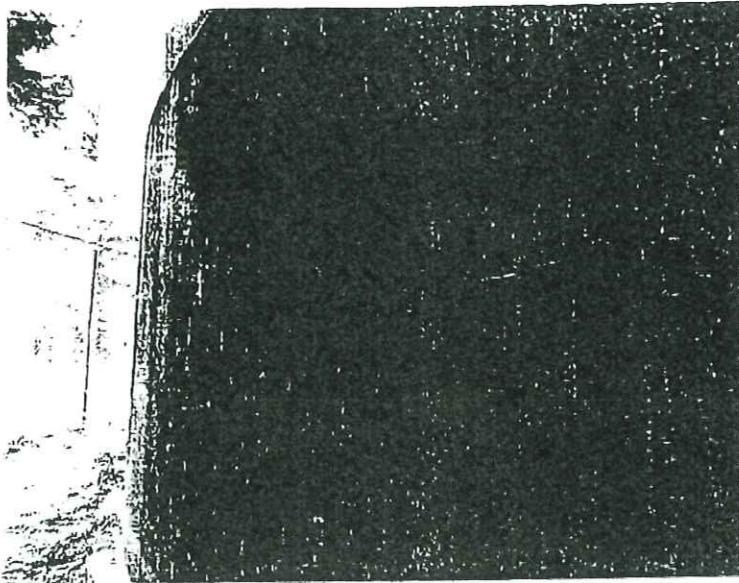


Photo # 28

Date

11/1/2017

Location

Exterior

Notes

Mildew growth at base of shell.

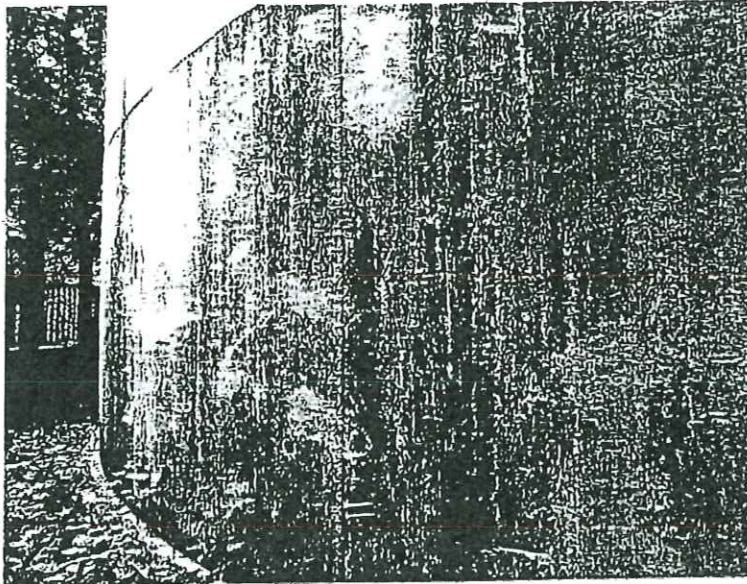


Photo # 29

Date

11/1/2017

Location

Exterior

Notes

Mildew growth at base of shell.

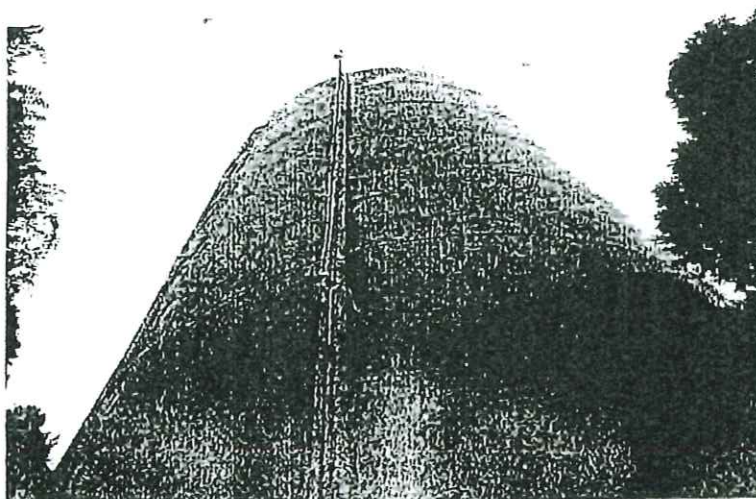


Photo # 30

Date

11/1/2017

Location

Exterior

Notes

Coating on shell and 6" dia. overflow pipe.

Photo Log

Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

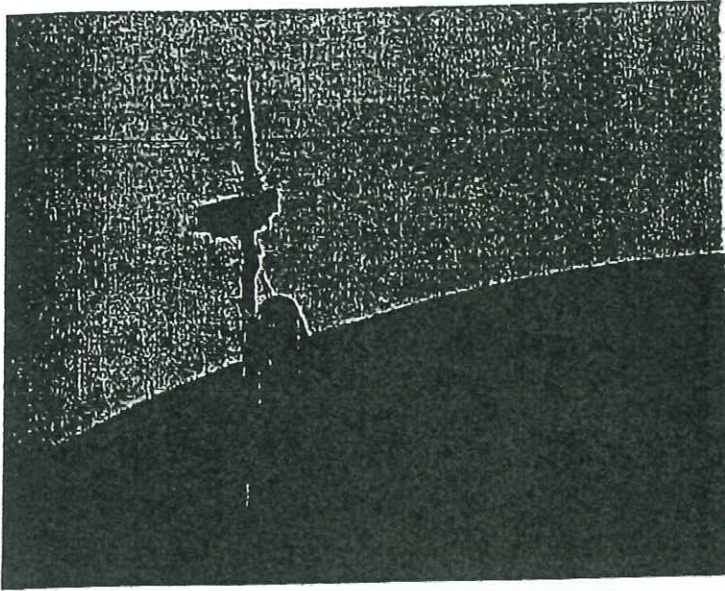


Photo # 31

Date

11/1/2017

Location

Exterior

Notes

Whip antenna mounted to 6" dia. overflow pipe and coating on shell,

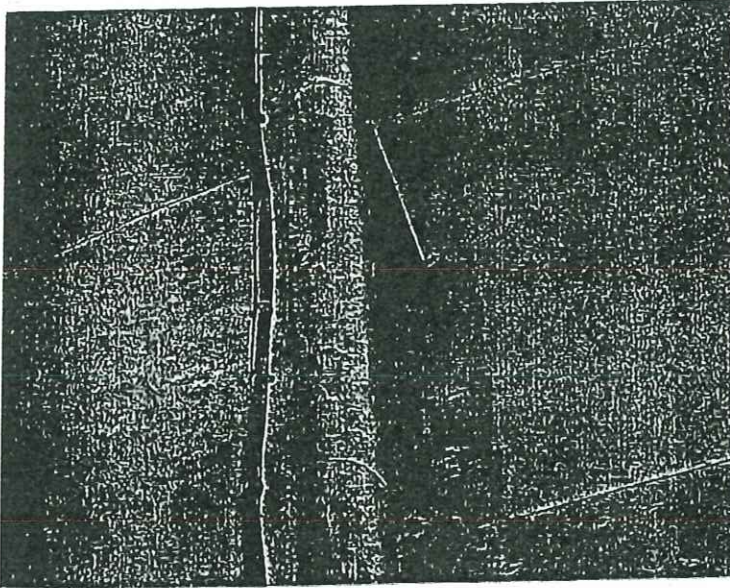


Photo # 32

Date

11/1/2017

Location

Exterior

Notes

Coating on shell and 6" dia. overflow pipe.

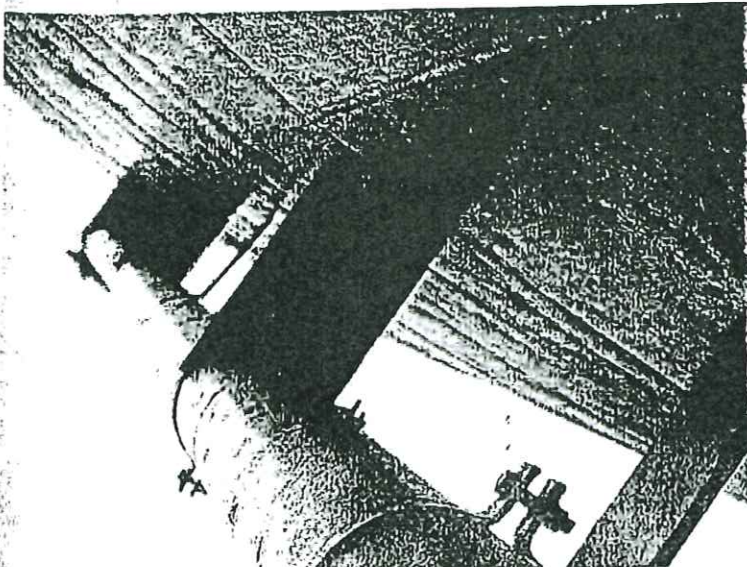


Photo # 33

Date

11/1/2017

Location

Exterior

Notes

Coating on shell and 6" dia. overflow pipe.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

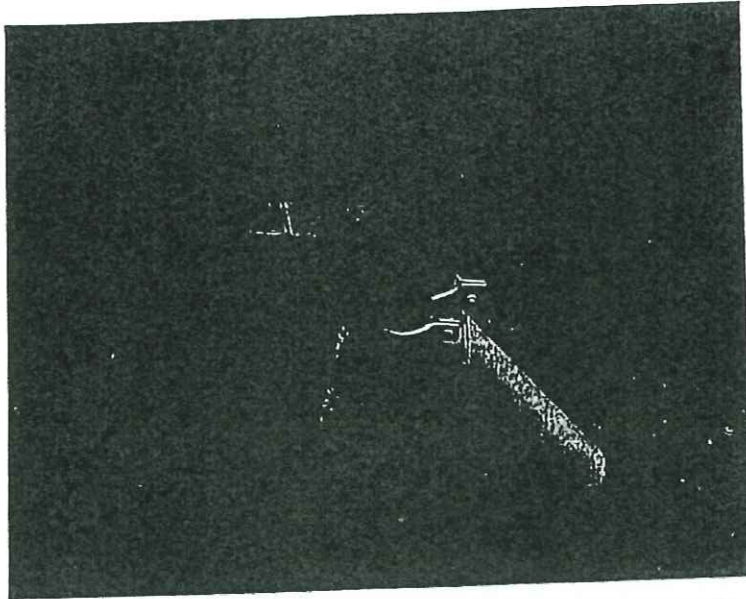


Photo # 34

Date

11/1/2017

Location

Exterior

Notes

Coating on shell, 6" dia. overflow pipe, and pipe mounted to overflow pipe.

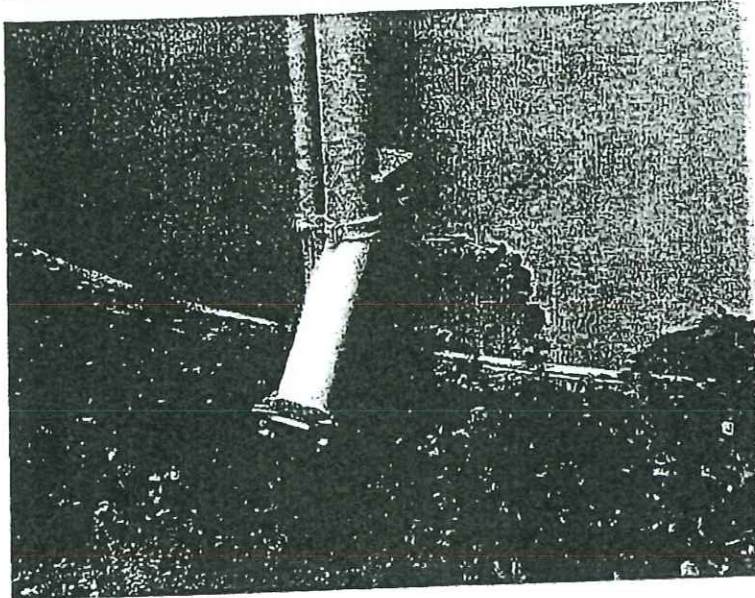


Photo # 35

Date

11/1/2017

Location

Exterior

Notes

Coating on shell and 6" dia. overflow pipe.

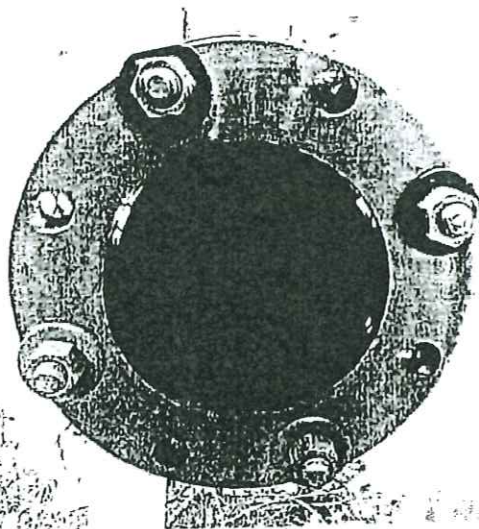


Photo # 36

Date

11/1/2017

Location

Exterior

Notes

6" dia. overflow pipe discharge screen.

BI Photo Log

A Contract No. 173032R

Jobsite: Fairway Ave, Verona, NJ

Tank: 800,000 Gal. Standpipe

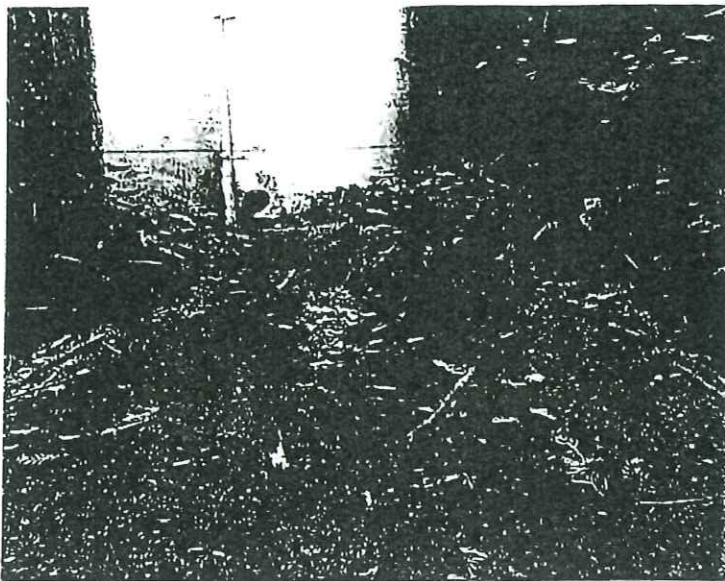


Photo # 37

Date

11/1/2017

Location

Exterior

Notes

Splash pad graded away from tank.

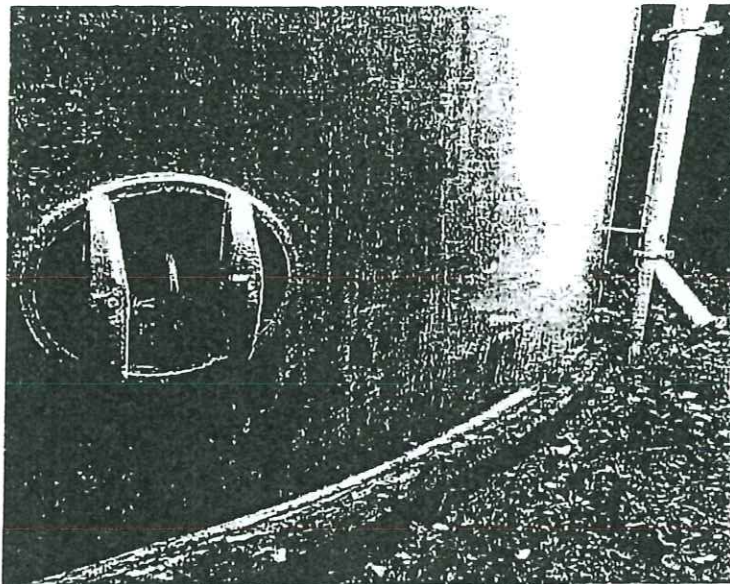


Photo # 38

Date

11/1/2017

Location

Exterior

Notes

Coating on shell and 18" x 24" shell manhole.

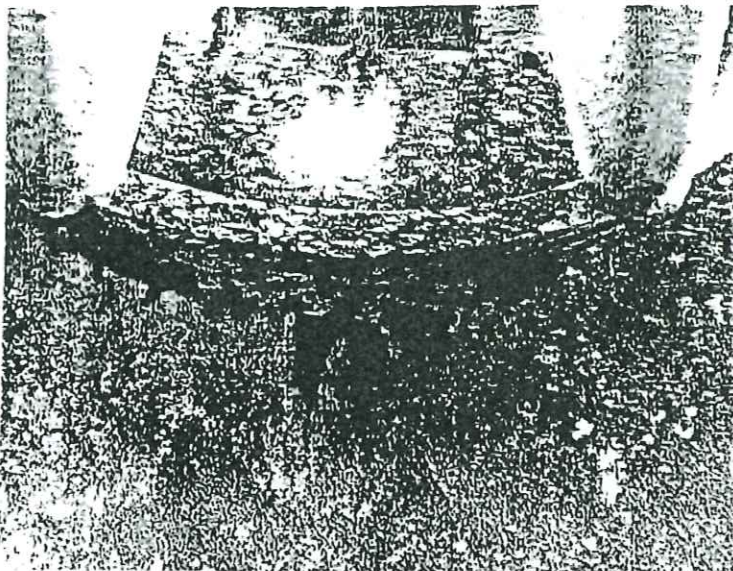


Photo # 39

Date

11/1/2017

Location

Exterior

Notes

Corrosion on 18" x 24" shell manhole lip.

MBA Photo Log

MBA Contract No. 173032R

Jobsite Fairway Ave. Verona, NJ Tank: 800,000 Gal Standpipe

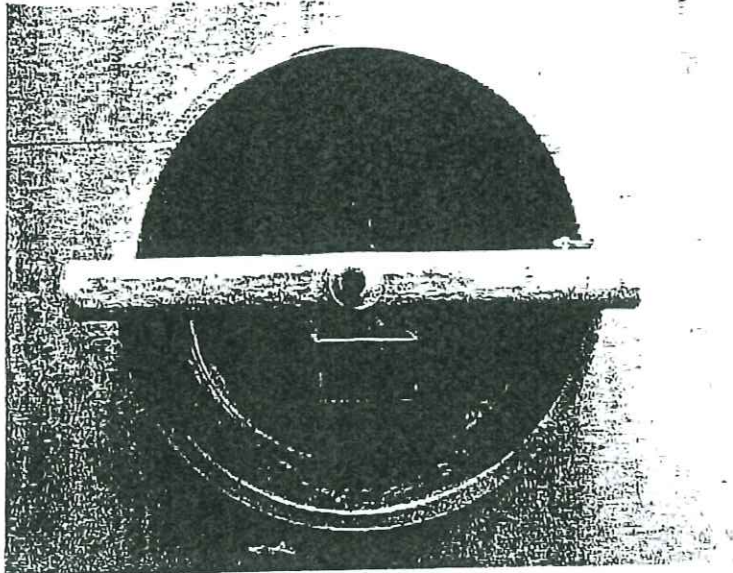


Photo #40

Date:

11/1/2017

Location:

Exterior

Notes:

Coating on 24" dia. shell manhole.

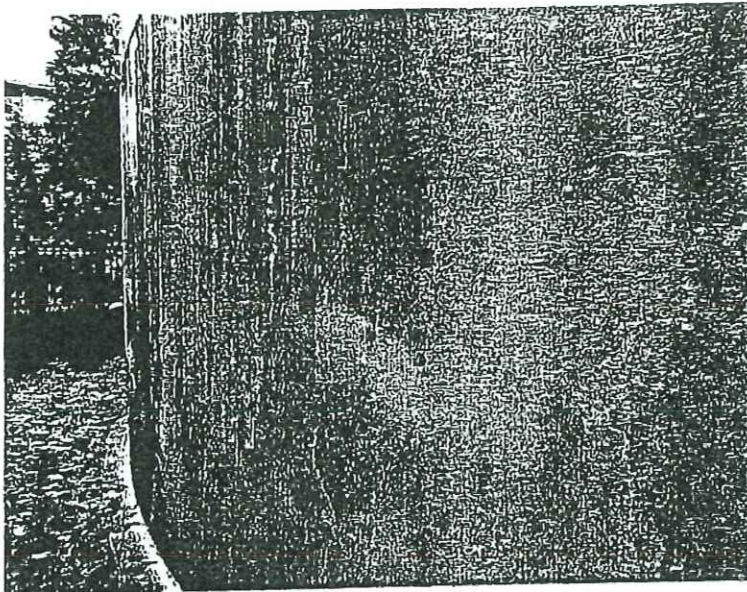


Photo #41

Date:

11/1/2017

Location:

Exterior

Notes:

Mildew growth on shell.

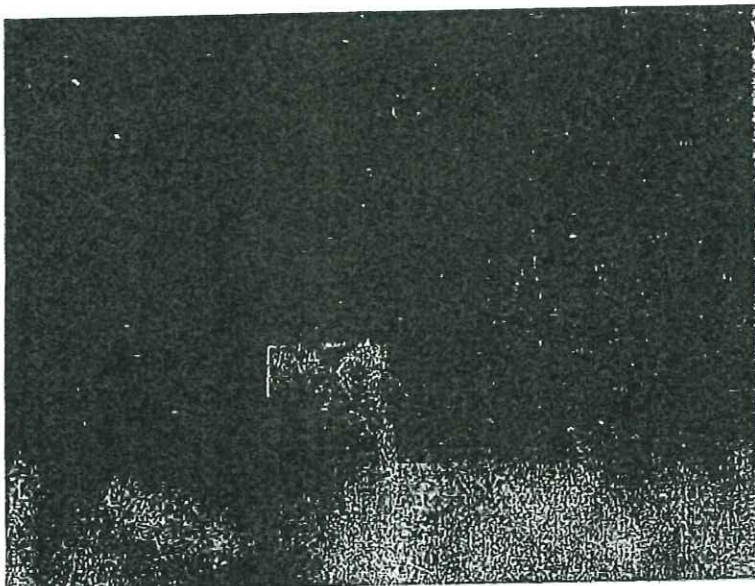


Photo #42

Date:

11/1/2017

Location:

Exterior

Notes:

Adhesion test performed on shell.

Photo Log

A Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

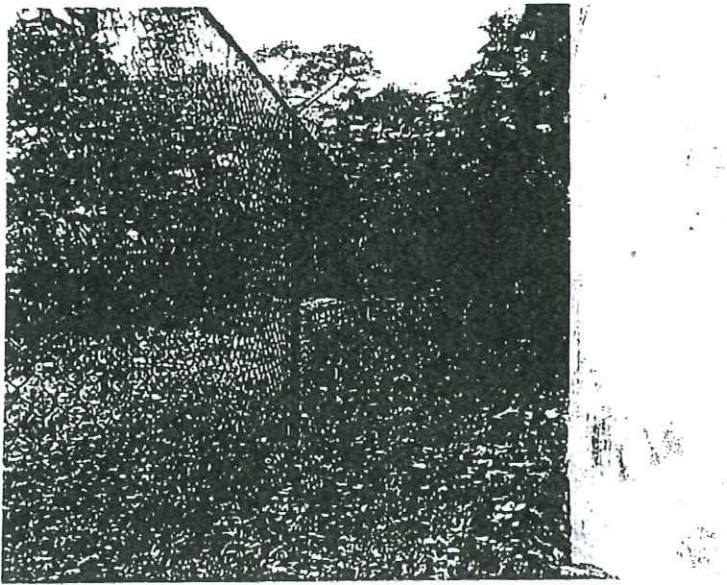


Photo # 43

Date

11/1/2017

Location

Exterior

Notes

Site fence and coating on shell.

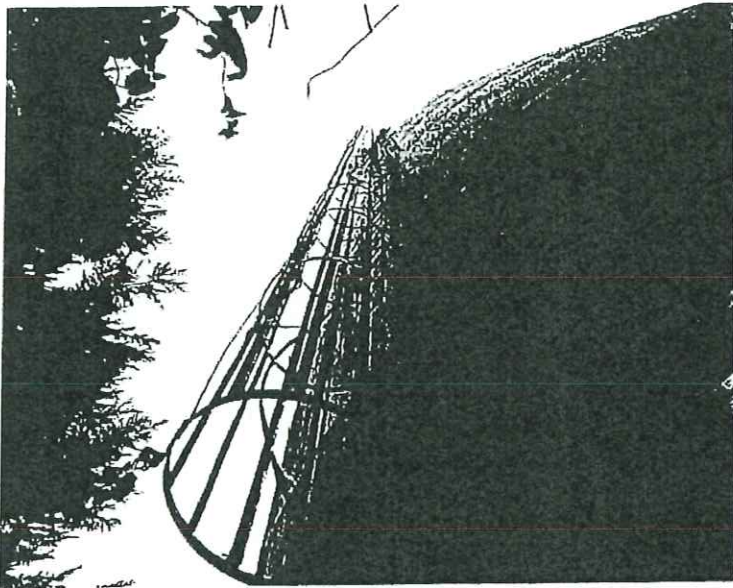


Photo # 44

Date

11/1/2017

Location

Exterior

Notes

Coating on shell ladder and ladder cage.

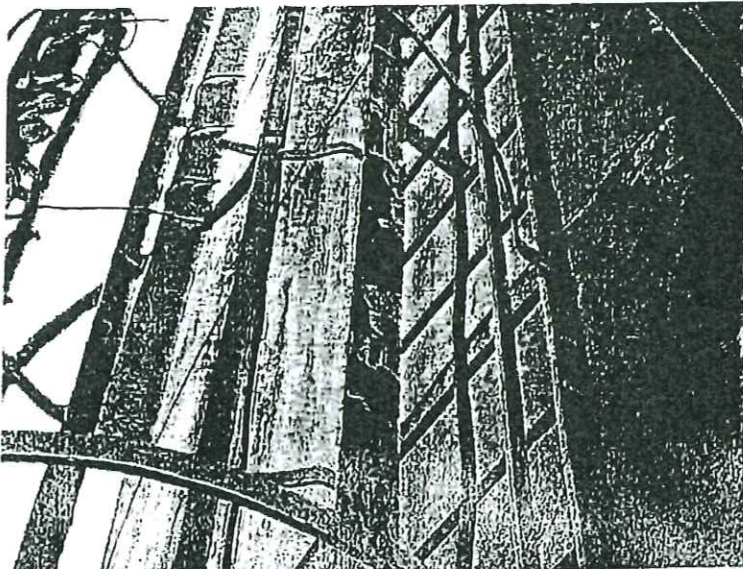


Photo # 45

Date

11/1/2017

Location

Exterior

Notes

Corrosion on shell ladder cage.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Avé. Verona, NJ

Tank: 800,000 Gal. Standpipe

11/1/2017

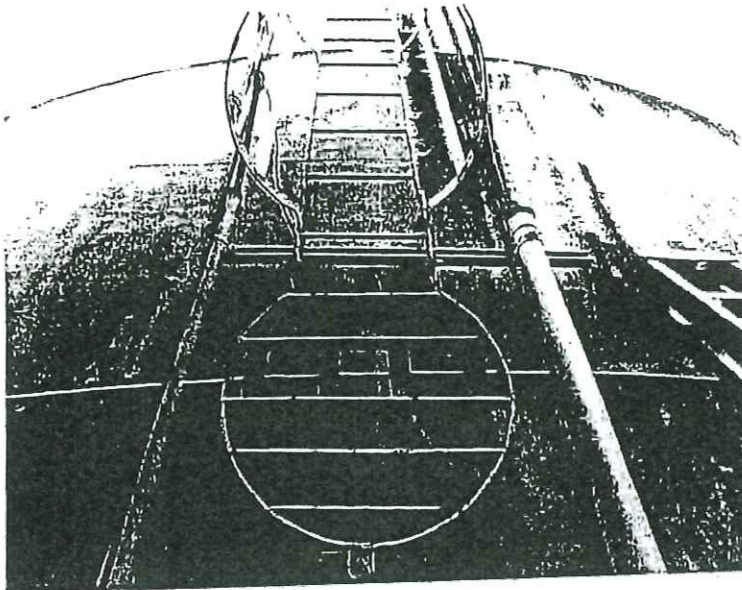


Photo # 46

Date

11/1/2017

Location

Exterior

Notes

Coating on shell ladder gate.

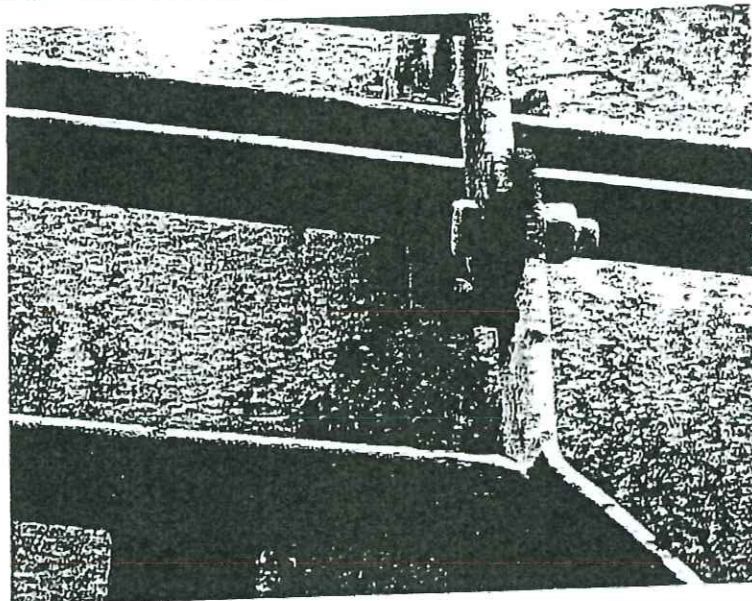


Photo # 47

Date

11/1/2017

Location

Exterior

Notes

Corrosion on shell ladder gate hinge.

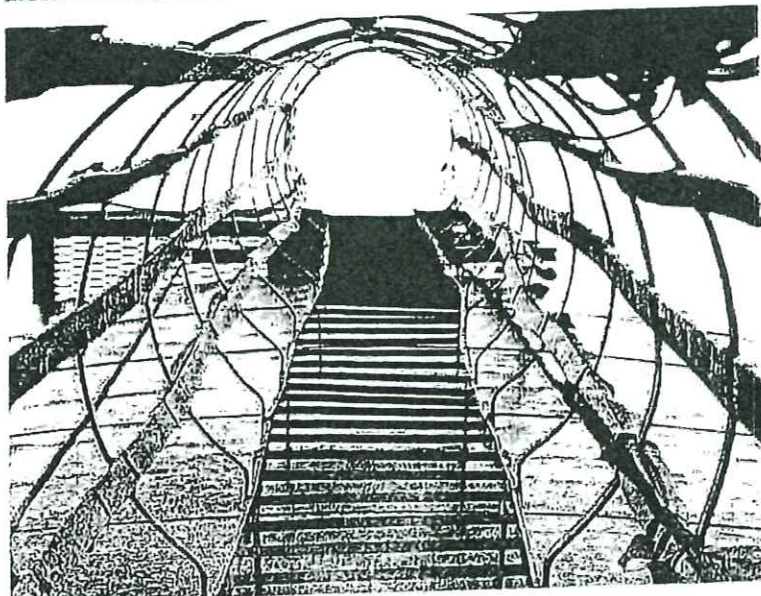


Photo # 48

Date

11/1/2017

Location

Exterior

Note:

Coating on shell ladder and ladder cage

Photo Log

Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

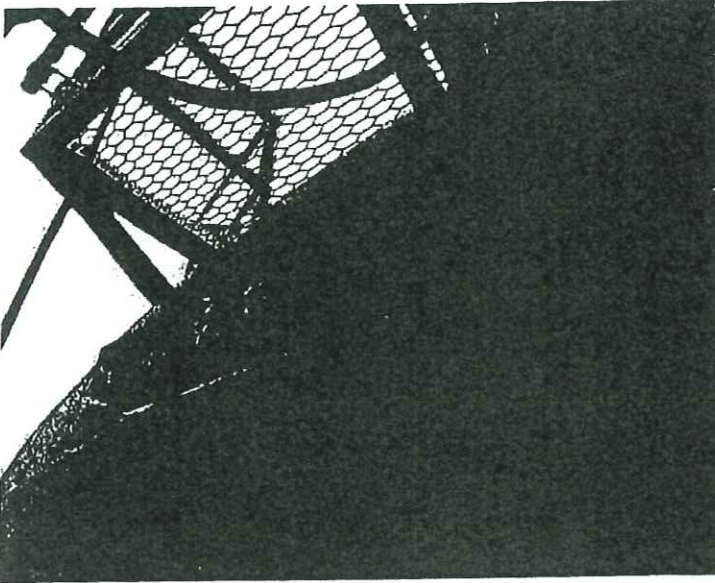


Photo # 49

Date

11/1/2017

Location

Exterior

Notes

Corrosion on angled steel and shell.

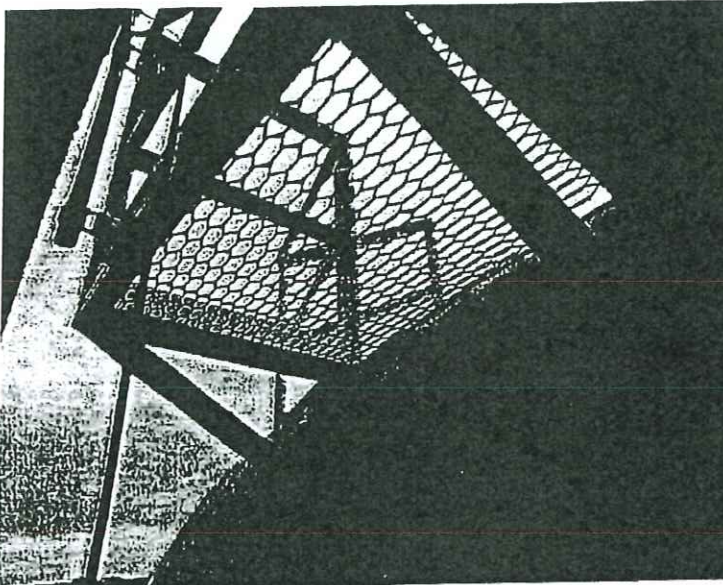


Photo # 50

Date

11/1/2017

Location

Exterior

Notes

Coating on underside of 42" x 35" roof platform.

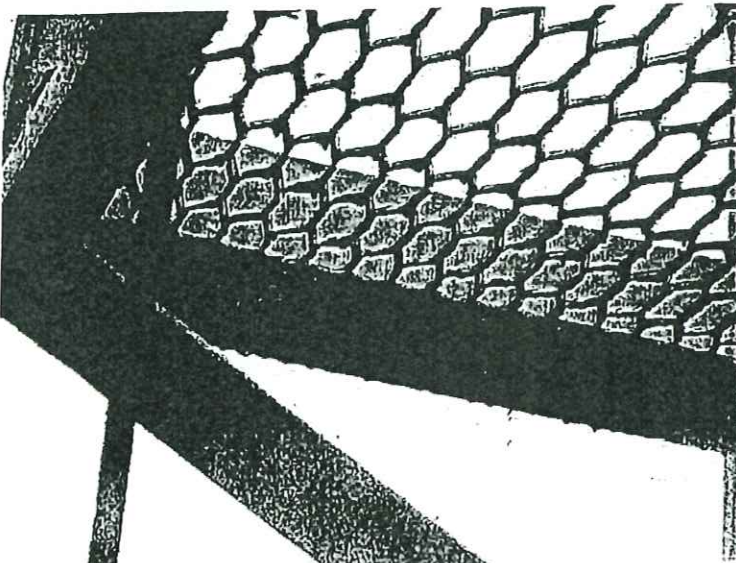


Photo # 51

Date

11/1/2017

Location

Exterior

Notes

Coating on underside of 42" x 35" roof platform.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

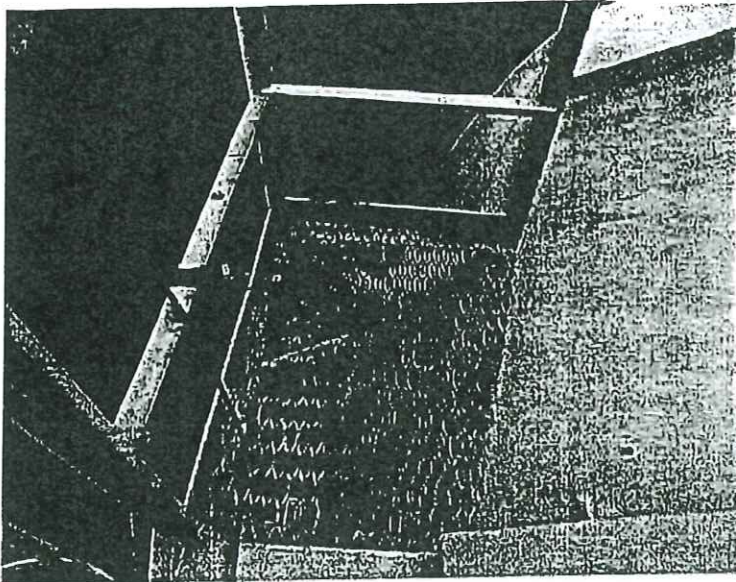


Photo # 52

Date

11/1/2017

Location

Exterior

Notes

Coating on 42" x 35" roof platform and handrails.



Photo # 53

Date

11/1/2017

Location

Exterior

Notes

Corrosion on shell ladder cage.

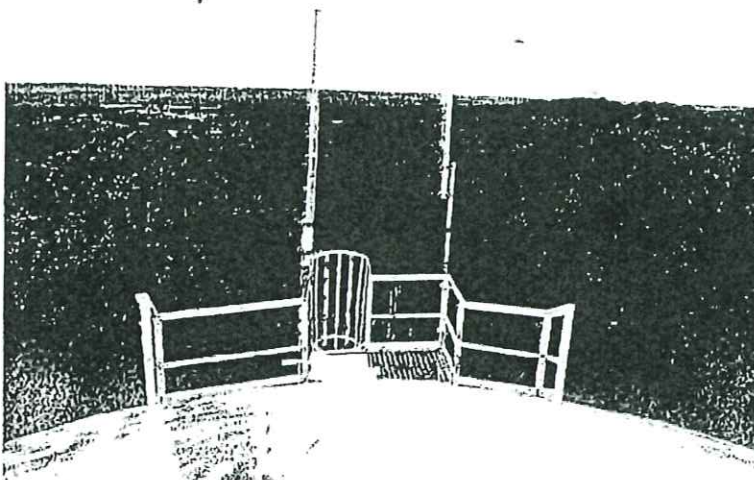


Photo # 54

Date

11/1/2017

Location

Exterior

Notes

Roof handrails and whip antennas mounted to roof handrails.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

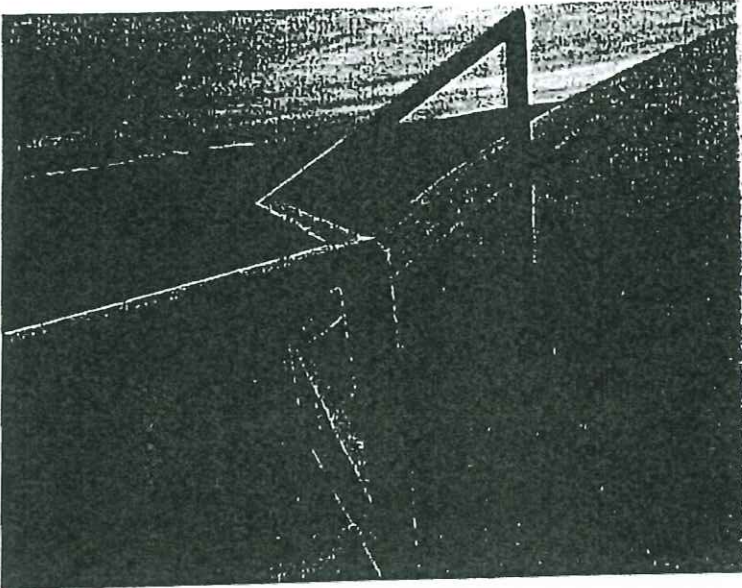


Photo # 55

Date

11/1/2017

Location

Exterior

Notes

Coating on roof handrails.

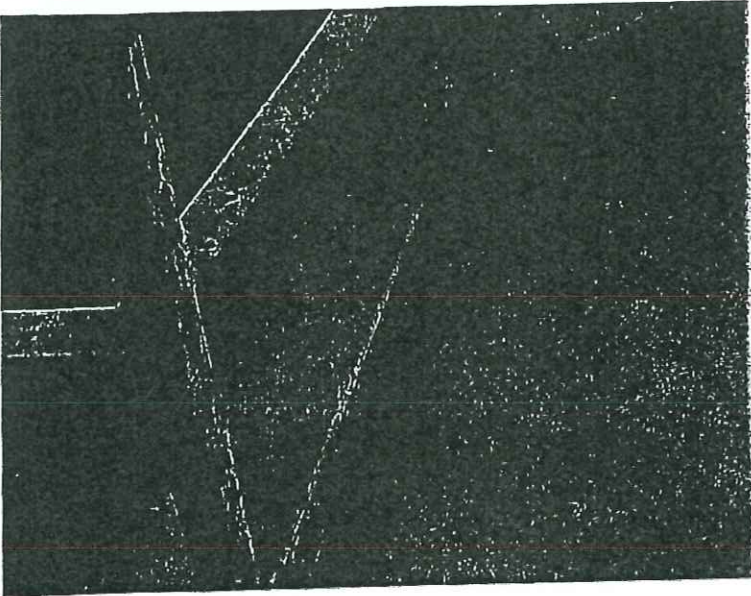


Photo # 56

Date

11/1/2017

Location

Exterior

Notes

Corrosion on roof handrails.

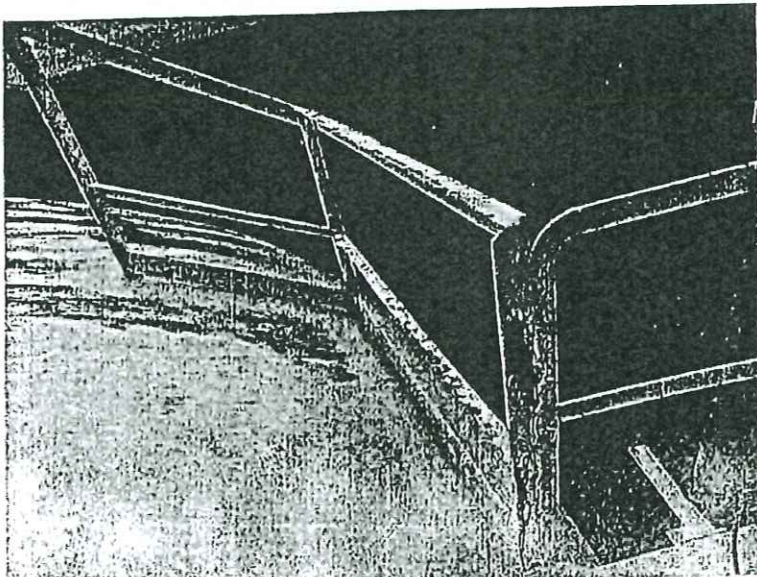


Photo # 57

Date

11/1/2017

Location

Exterior

Notes

Corrosion on roof handrails and pinhole corrosion on roof.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

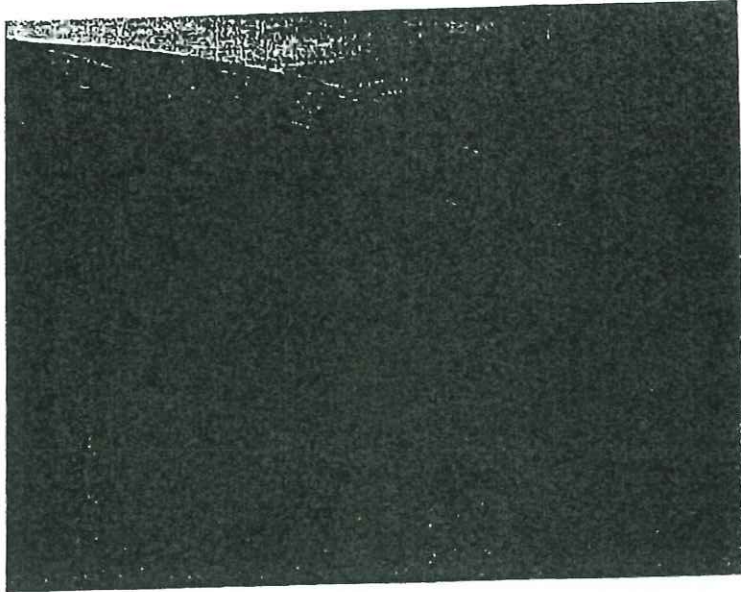


Photo # 58

Date

11/1/2017

Location

Exterior

Notes

Pinhole corrosion on roof.

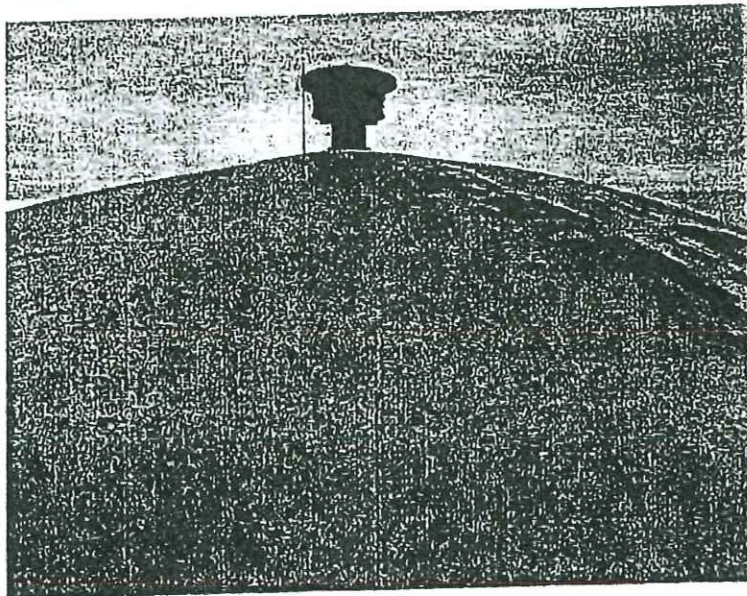


Photo # 59

Date

11/1/2017

Location

Exterior

Notes

Coating on roof.

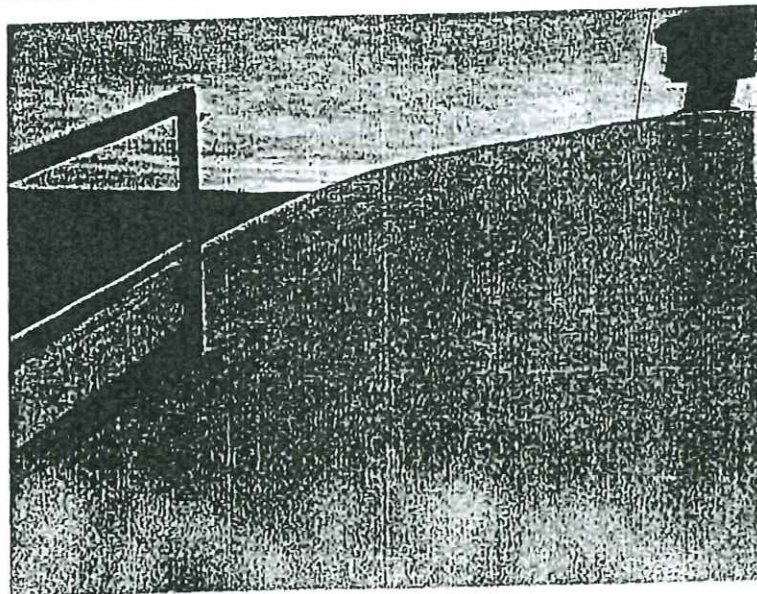


Photo # 60

Date

11/1/2017

Location

Exterior

Notes

Coating on roof.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

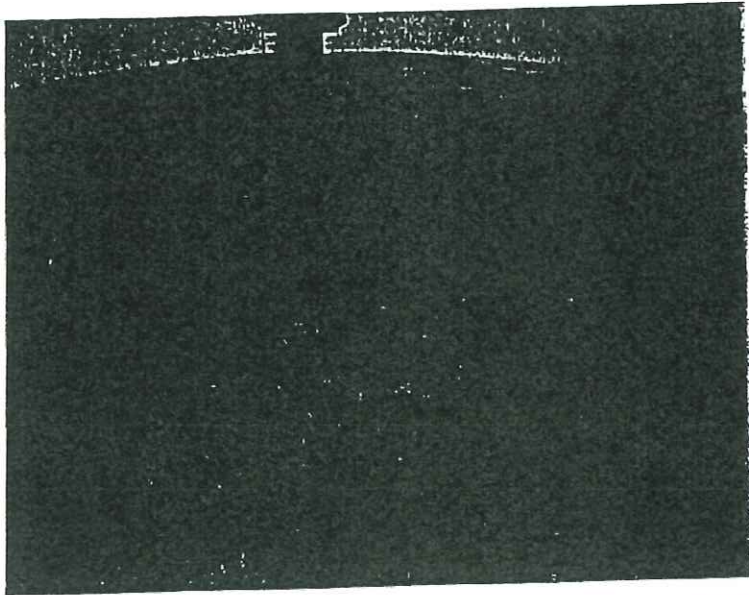


Photo # 61

Date

11/1/2017

Location

Exterior

Notes

Pinhole corrosion on roof.



Photo # 62

Date

11/1/2017

Location

Exterior

Notes

Coating on 18" dia. PV vent.

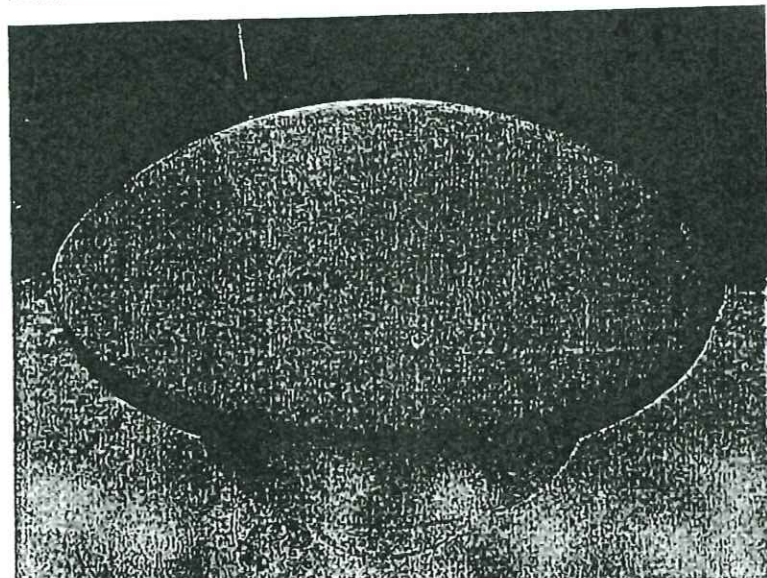


Photo # 63

Date

11/1/2017

Location

Exterior

Notes

Coating on 18" dia. PV vent.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal. Standpipe

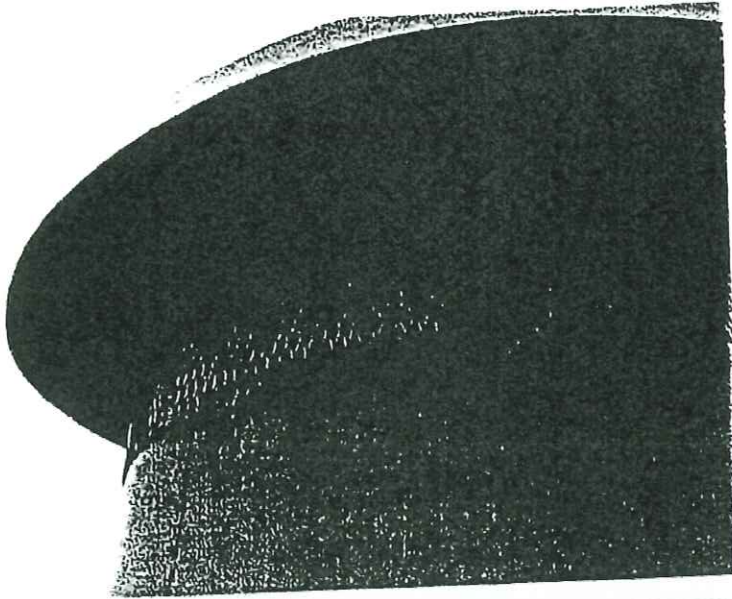


Photo #64

Date

11/1/2017

Location

Exterior

Notes

18" dia. PV vent screen.

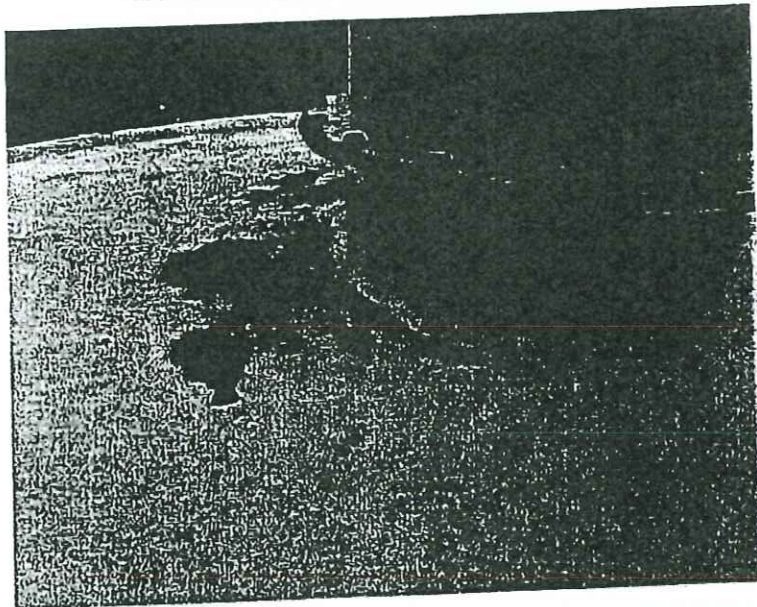


Photo #65

Date

11/1/2017

Location

Exterior

Notes

Corrosion at base of 18" dia. PV vent.

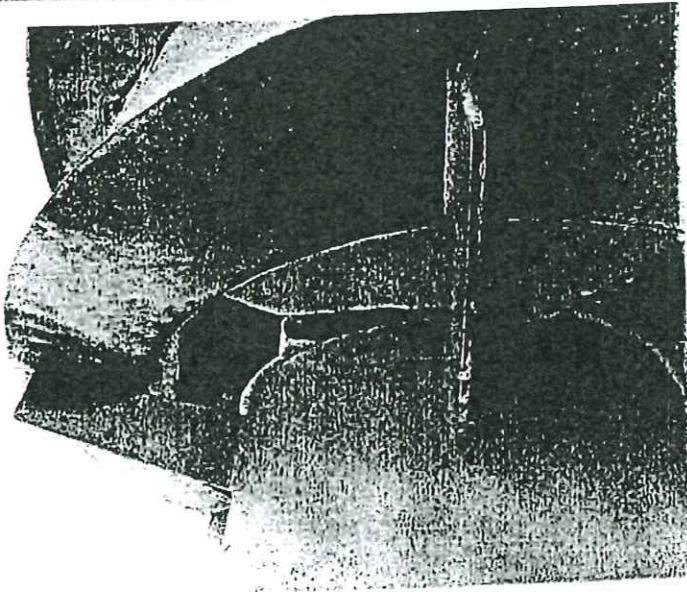


Photo #66

Date

11/1/2017

Location

Exterior

Notes

Corrosion beneath 18" dia. PV vent.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

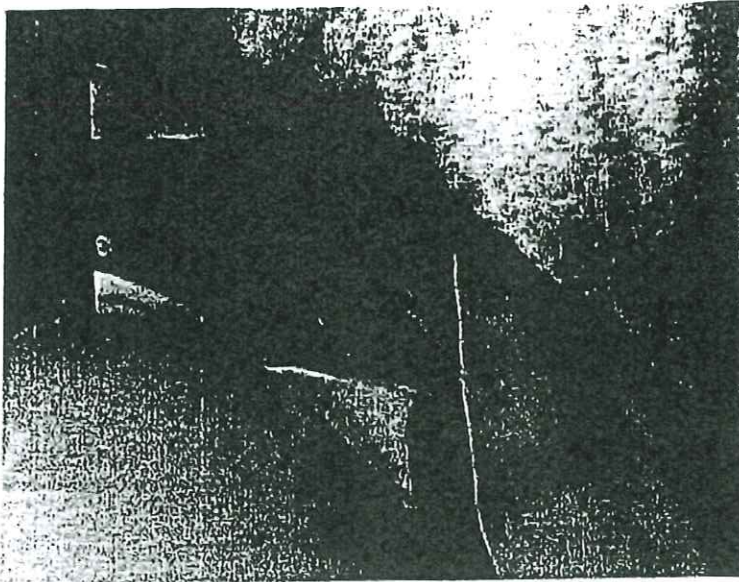


Photo # 67

Date

11/1/2017

Location

Exterior

Notes

Plastic sheeting stuffed between pressure pallet.

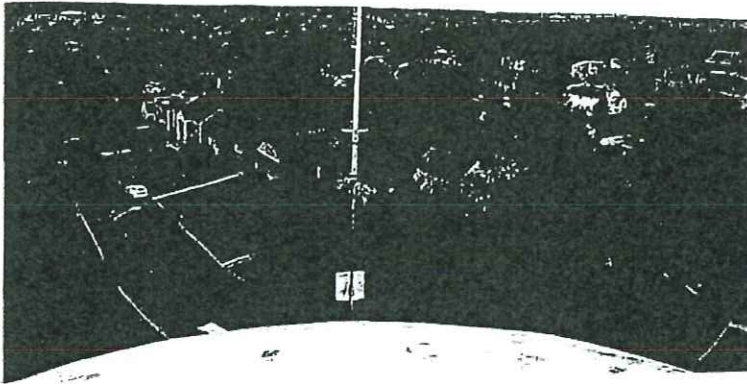


Photo # 68

Date

11/1/2017

Location

Exterior

Notes

Whip antenna mounted to 6" dia. overflow pipe.

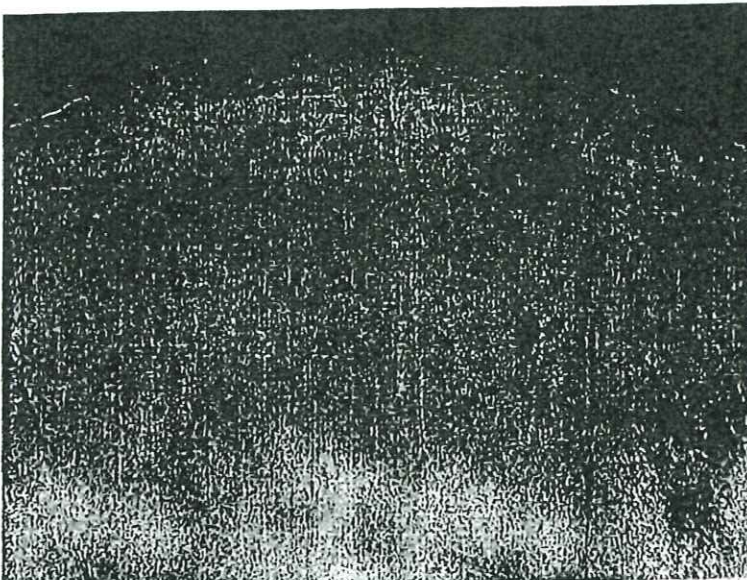


Photo # 69

Date

11/1/2017

Location

Exterior

Notes

Corrosion on roof.

MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

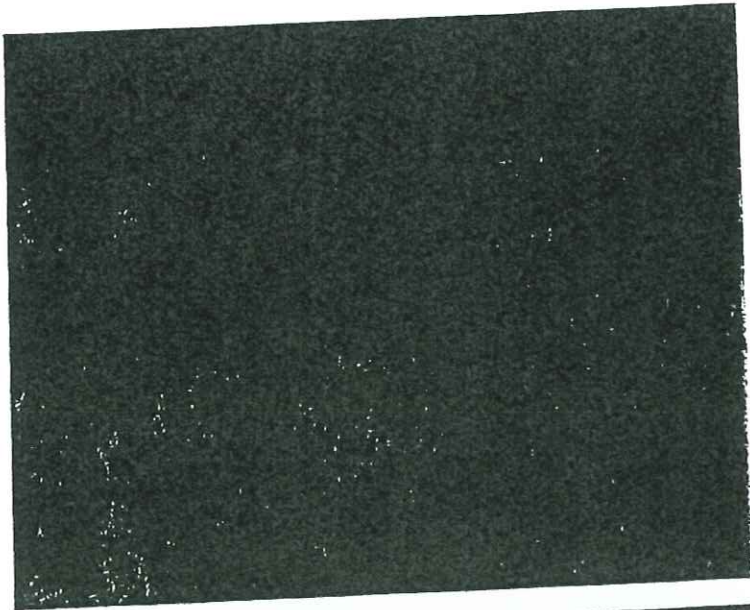


Photo #70

Date

11/1/2017

Location

Exterior

Notes

Corrosion on roof.

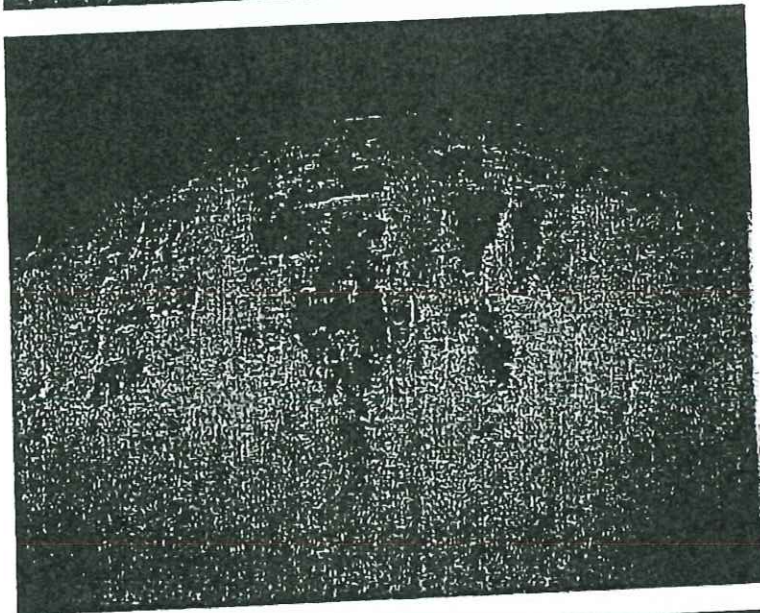


Photo #71

Date

11/1/2017

Location

Exterior

Notes

Corrosion on roof.

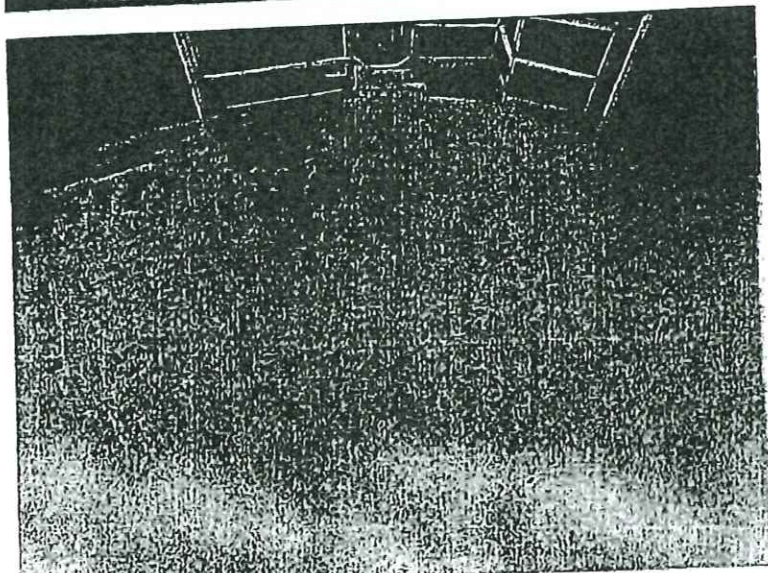


Photo #72

Date

11/1/2017

Location

Exterior

Notes

Corrosion on roof.

TBA Photo Log

1BA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal Standpipe

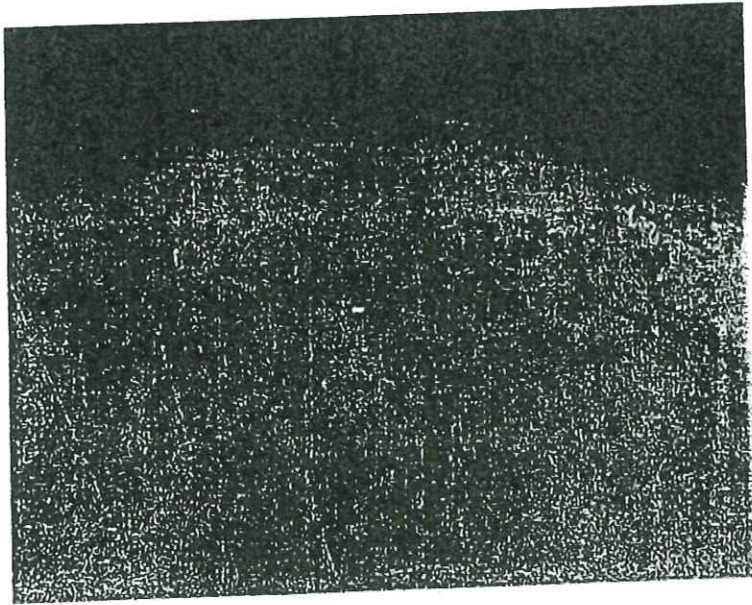


Photo #73

Date
11/1/2017

Location
Exterior

Note
Corrosion on roof.

Photo #74

Date
11/1/2017

Location
Exterior

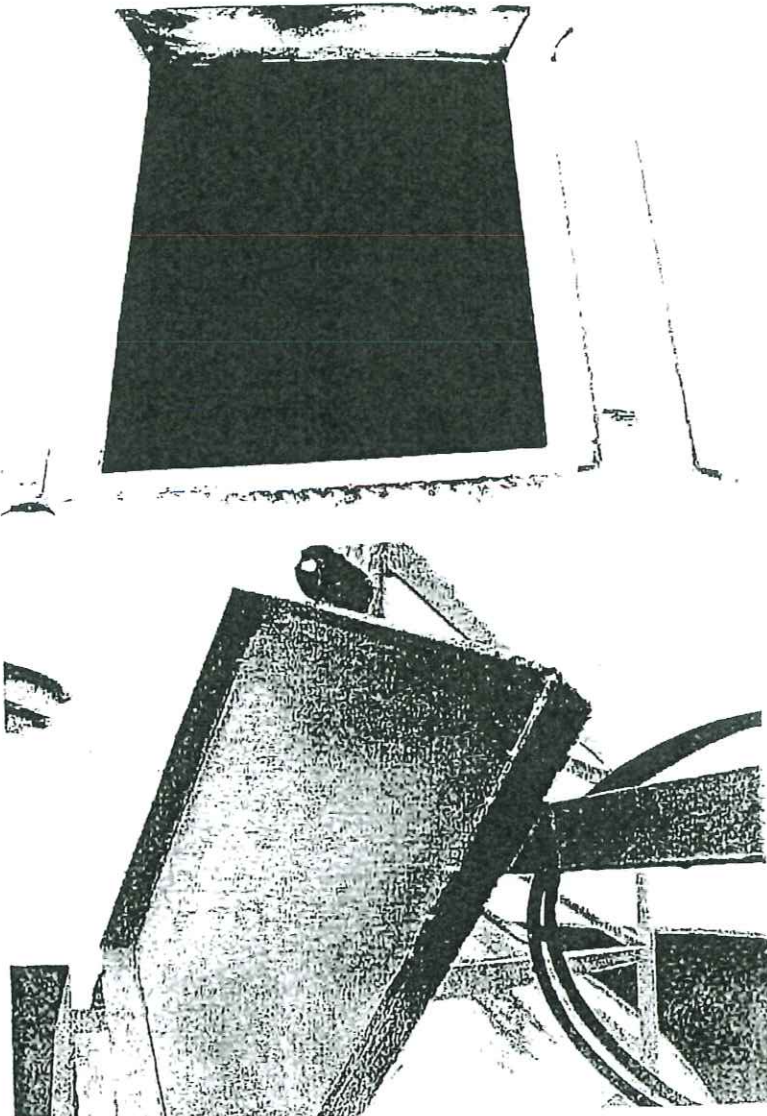
Note
Corrosion on 24" x 24" roof manhole rain lip.

Photo #75

Date
11/1/2017

Location
Exterior

Note
Coating on 24" x 24" roof manhole lid.



MBA Photo Log

MBA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ

Tank: 800,000 Gal. Standpipe

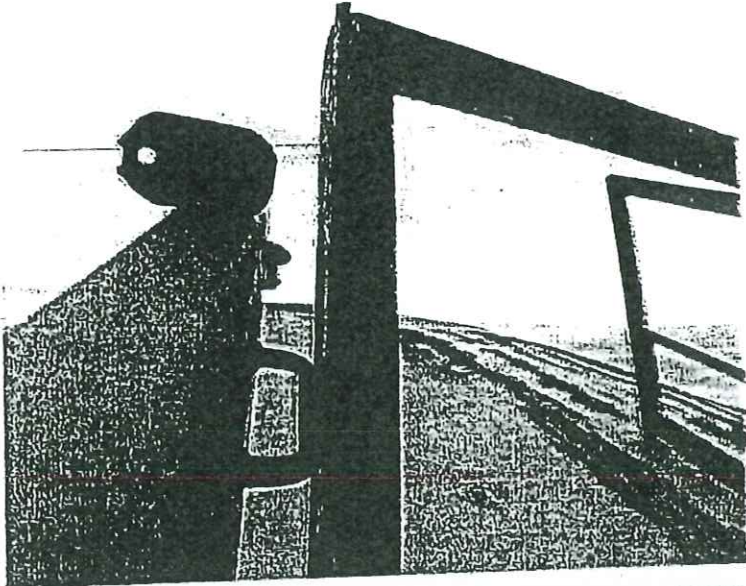


Photo # 76

Date

11/1/2017

Location

Exterior

Notes

24" x 24" roof manhole grab handle rests on roof handrail vertical post when opened.

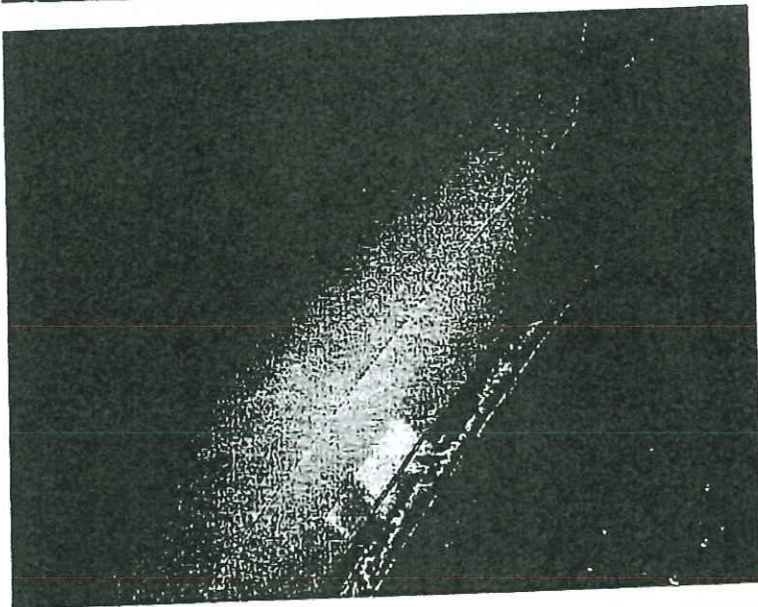


Photo # 77

Date

11/1/2017

Location

Interior Wet

Notes

Coating on shell and corrosion on painters angle.

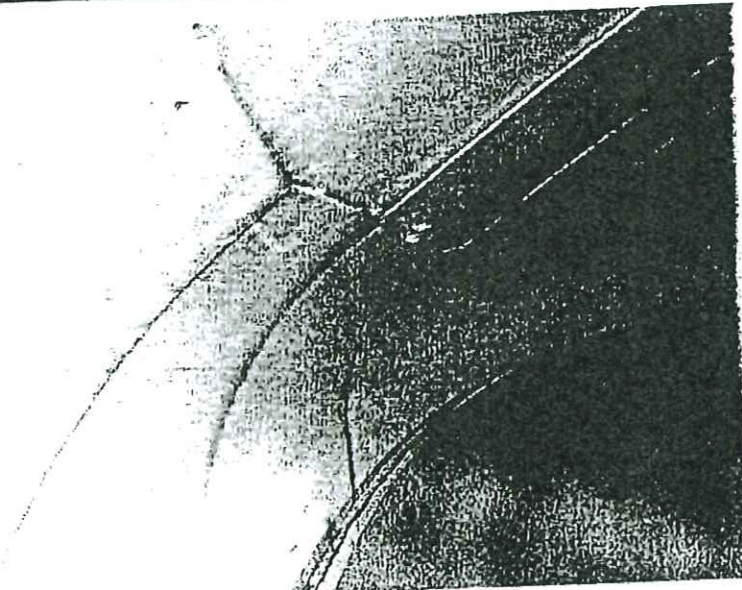


Photo # 78

Date

11/1/2017

Location

Interior Wet

Notes

Coating on shell and rust staining in lap seams.

TBA Photo Log

4BA Contract No. 173032R

Jobsite: Fairway Ave. Verona, NJ Tank: 800,000 Gal Standpipe

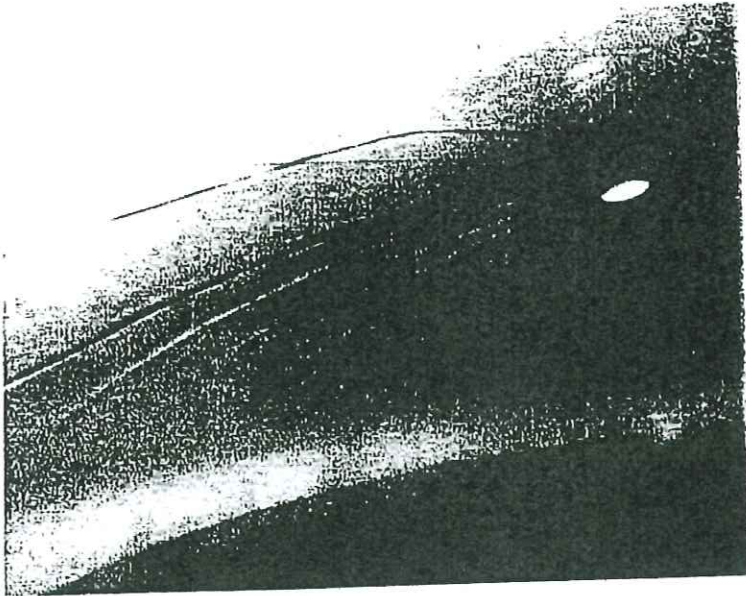


Photo #79

Date

11/1/2017

Location

Interior Wet

Notes:

Coating on roof and rust staining in lap seams.

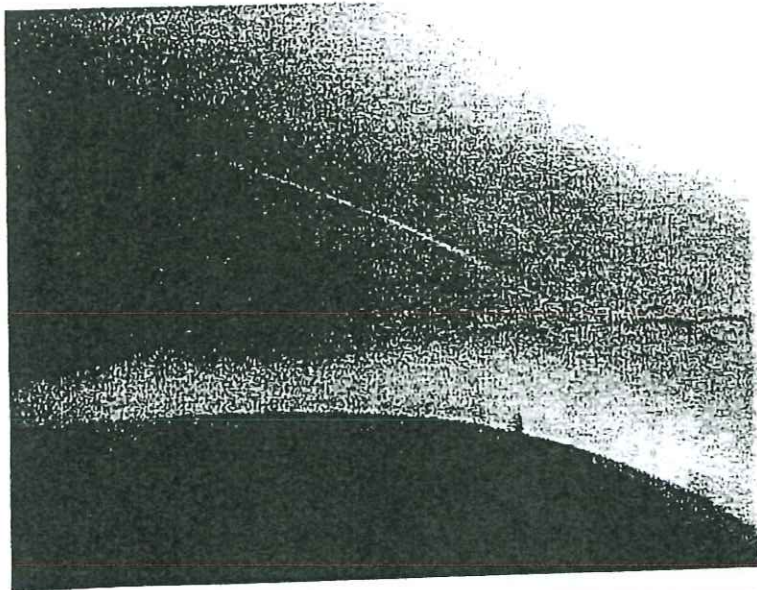


Photo #80

Date

11/1/2017

Location

Interior Wet

Notes:

Coating on roof and knuckle.

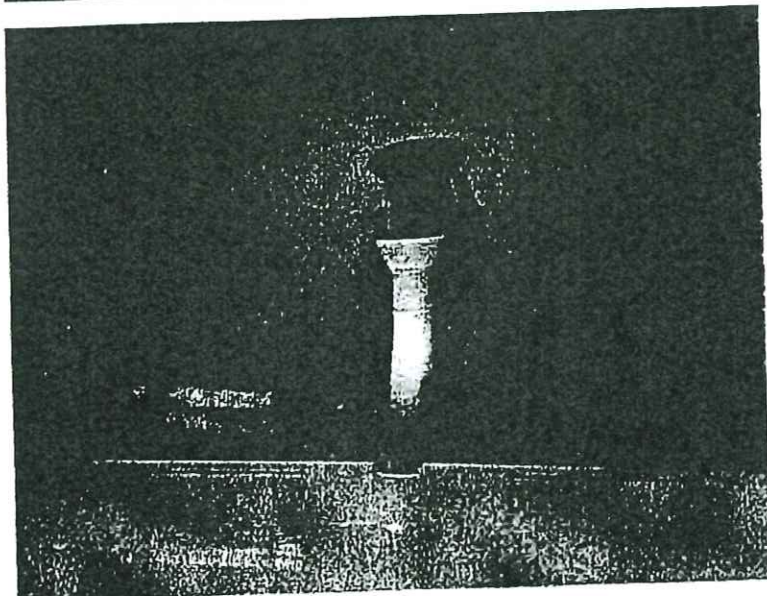


Photo #81

Date

11/1/2017

Location

Interior Wet

Coating on 6" dia. overflow pipe bell flange.



To Mark Tompeck
From Carol Walczyk
Date February 22, 2011
Project # 257512
Page 1 of 2
CC
Subject Township of Verona
Water Storage Tank Rehabilitation Projects
Status Report

Hatch Mott MacDonald has been assisting the Township of Verona with rehabilitation of three of its water storage tanks. Below is a summary of the status of each project.

Water Storage Tank Inspection and Evaluation

In late 2008, HMM and its subconsultant, Mumford Bjorkman Associates, conducted internal and external inspections of the Fairview Avenue Tank, Claridge Tank and White Rock Road Tank No. 3 (formerly known as the Jail Annex Tank). At the Fairview Avenue and Claridge tanks, a remote observation vehicle (ROV) was used to perform the interior inspection to allow the tanks to remain in service. The tank coatings were also tested for lead content. A report summarizing the findings and recommendations resulting from the inspection was provided to the Township in January of 2009.

Fairview Avenue Tank

HMM prepared design documents for the rehabilitation of the Fairview Avenue Tank, including contract drawings and specifications. HMM also assisted the Township with its application for New Jersey Environmental Infrastructure Trust funding for the project, by preparing the application package and supporting documents. This project has not yet been advertised for bidding.

Claridge Tank

HMM prepared design documents for the rehabilitation of the Claridge Tank, including contract drawings and specifications. HMM also provided assistance during the bid period, including response to inquiries from prospective bidders and preparation of the bid report. Bids were received for the project in September 2009 and the project was awarded to the lowest bidder, U.S. Tank Painting, for \$445,100.

The scope of the Claridge Tank rehabilitation project included surface preparation and painting of the tank interior, tank exterior, and valve vault piping; replacement and/or modification of the tank ladder, vents, overflow pipe, manways, handrails and other tank appurtenances to meet current codes and standards; and sitework to improve drainage and security at the site. HMM



To M. Tompeck
Date February 22, 2011
Page 2 of 2

prepared a NJDEP permit application to allow the Township to drain the tank before the rehabilitation work began. HMM also provided engineering services during construction, including part-time on-site observation, shop drawing review, Contractor coordination and processing of Contractor pay applications.

The project was completed on schedule in December of 2009. The final construction cost of the project was \$449,100. Change Order No. 1 resulted in a net additional cost of \$4,000. Change Order No. 1 was executed to delete the proposed retaining wall, after excavation during construction revealed that existing natural rock formations at the site would serve the intended purpose of the retaining wall; and to extend the proposed fencing to the perimeter of the entire site at the Township's request, after evidence of illegal dumping was discovered at the site.

White Rock Road Tank No. 3

HMM prepared design documents for the rehabilitation of White Rock Road Tank No. 3, including contract drawings and specifications. HMM also provided assistance during the bid period, including response to inquiries from prospective bidders and preparation of the bid report. Bids were received for the project in August 2010 and the project was awarded to the lowest bidder, Valley Painting, for \$248,850.

The scope of the White Rock Road Tank No. 3 rehabilitation project included surface preparation and painting of the tank interior, tank exterior, and valve vault piping; replacement and/or modification of the tank ladder, vents, overflow pipe, manways, handrails and other tank appurtenances to meet current codes and standards; and sitework to improve drainage and security at the site. HMM provided engineering services during construction, including part-time on-site observation, shop drawing review, Contractor coordination and processing of Contractor pay applications.

Change Order No. 1 has been executed at a net additional cost of \$9,950 for additional work requested by the Township, including replacement of the tank altitude and gate valves; placement of a weed mat and stone around the tank perimeter; and installation of a second fence gate. The majority of the work under the original contract and Change Order No. 1 was completed in December 2010. The remaining items will be completed when weather conditions are appropriate. The Township must obtain NJDEP approval before placing the tank into service in the Verona system. HMM is assisting the Township with obtaining the required approvals.

Appendix F. Asset Inventory and Criticality Ratings



BOSWELL ENGINEERING

ASSET MANAGEMENT

Township of Verona

Essex County, New Jersey

White Rock Rd Water Storage Reservoir Assets:

Asset Type	Approx Year Installed	Est. Useful Life	Remaining Life	Condition Rating	PoF	CoF	BRE
Tank	1986	60	20	Good	2	4	8
Transmission Main	1986	100	60	Good	1	4	4
Paint	UNK	20	UNK	Good	3	1	3
Underground Vault	1986	60	20	Good	2	3	6
Altitude Valve	2019	30	23	Good	3	4	12
Gate Valves	1986	30	-10	Good	3	3	9

Claridge Drive Water Storage Reservoir Assets:

Asset Type	Approx Year Installed	Est. Useful Life	Remaining Life	Condition Rating	PoF	CoF	BRE
Tank	1960	60	-6	Good	2	5	10
Underground Vault	1960	60	-6	Good	2	3	6
Paint	UNK	20	UNK	Good	3	1	3
Altitude Valve	2009	30	13	Good	3	5	15
Butterfly Valve	2009	30	13	Good	3	3	9
Check Valves	2009	30	13	Good	3	3	9

Fairway Ave Water Storage Standpipe Assets:

Asset Type	Approx Year Installed	Est. Useful Life	Remaining Life	Condition Rating	PoF	CoF	BRE
Standpipe	1970	60	4	Good	2	4	8
Paint	UNK	20	UNK	Good	3	1	3
Underground Vault	1970	60	4	Good	2	3	6
Altitude Valve	2009	30	13	Good	3	4	12
Gate Valves	2009	30	13	Good	3	3	9
Check Valve	2009	30	13	Good	3	3	9



BOSWELL ENGINEERING

ASSET MANAGEMENT
 Township of Verona
 Essex County, New Jersey

Linn Drive Well Facility Assets:

Asset Type	Approx Year Installed	Est. Useful Life	Remaining Life	Condition Rating	PoF	CoF	BRE
Booster Pumps	2002	15	-9	Good	3	3	9
Booster Pump Motor	2002	15	-9	Good	3	3	9
Well Casing	2002	35	11	Good	2	2	4
Well Pump	2021	15	10	Good	1	3	3
Well Pump Motor	2002	15	-9	Good	3	3	9
Piping	2025	40	39	Good	1	1	1
Arsenic Treatment System	2025	15	14	Very Good	1	3	3
Ion Exchange System	2025	15	14	Very Good	1	3	3

Fairview Avenue Well Facility Assets:

Asset Type	Approx Year Installed	Est. Useful Life	Remaining Life	Condition Rating	PoF	CoF	BRE
Well Pump	2019	15	8	Not in Service	1	3	3
Well Pump Motor	2019	15	8	Not in Service	1	3	3
Well Casing	2004	35	13	Not in Service	2	2	4
Piping	2004	40	18	Not in Service	1	1	1
Valving	2004	30	8	Not in Service	3	2	6
Air Stripper	2004	40	18	Not in Service	1	2	2
Arsenic Treatment System	In Construction	15	15	Not in Service	1	3	3
Ion Exchange System	In Construction	15	15	Not in Service	1	3	3

Appendix G. Field Visit Photo Report

CLIENT NAME: Township of Verona	SITE LOCATION: Claridge Drive Water Storage Tank	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 1.

Description:

Southwest view of water storage reservoir.



Photo No. 2.

Description:

Tank overflow system, located on the south eastern end of water storage reservoir.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Claridge Drive Water Storage Tank

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 3.

Description:

Claridge Drive Valve Vault



Photo No. 4.

Description:

Claridge Drive Storage Tank control system, inside valve vault.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Claridge Drive Water Storage Tank

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 5.

Description:

Claridge Drive Storage Tank control system, inside valve vault.



Photo No. 6.

Description:

Dehumidifier inside Claridge Drive valve vault.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairway Avenue Water Storage Tank

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 7.

Description:

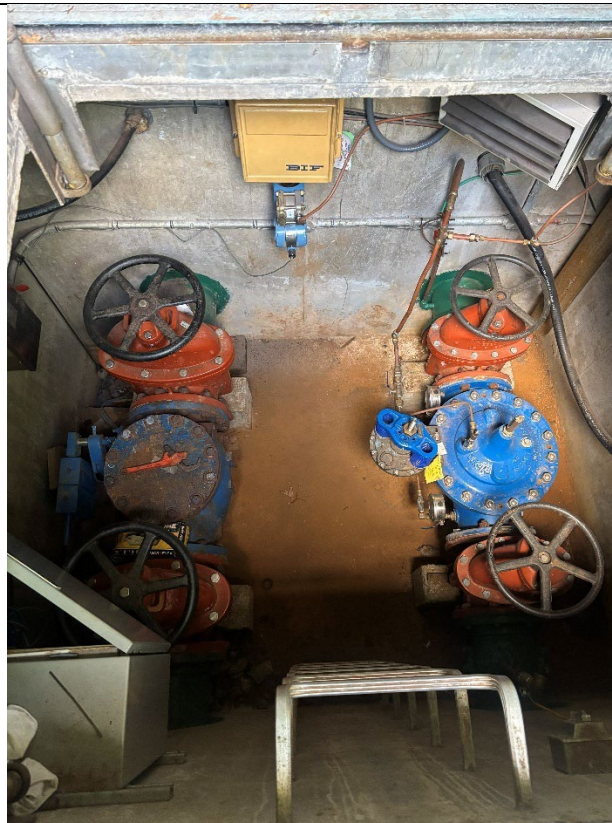
Southeast view of water storage standpipe and control building.



Photo No. 8.

Description:

Fairway Water Storage Tank valve vault.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairway Avenue Water Storage Tank

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 9.

Description:

Fairway Avenue Storage Tank control system, inside building.



Photo No. 10.

Description:

Fairway Avenue Storage Tank control system, inside building.



CLIENT NAME: Township of Verona	SITE LOCATION: Fairway Avenue Water Storage Tank	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 11.

Description:

Fairway Avenue Storage Tank control building.



CLIENT NAME: Township of Verona	SITE LOCATION: White Rock Road Water Storage Tank	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 12.

Description:

North view of water storage reservoir.



Photo No. 13.

Description:

Northwest view of water storage reservoir.



CLIENT NAME:

Township of Verona

SITE LOCATION:

White Rock Road Water Storage Tank

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 14.

Description:

West view of water storage reservoir and underground valve vault.



Photo No. 15.

Description:

White Rock Road underground valve vault.



CLIENT NAME:

Township of Verona

SITE LOCATION:

White Rock Road Water Storage Tank

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 16.

Description:

White Rock Road underground valve vault, depicting altitude valve and gate valves.



Photo No. 17.

Description:

Flow Meter display for White Rock Road Water Storage Tank.

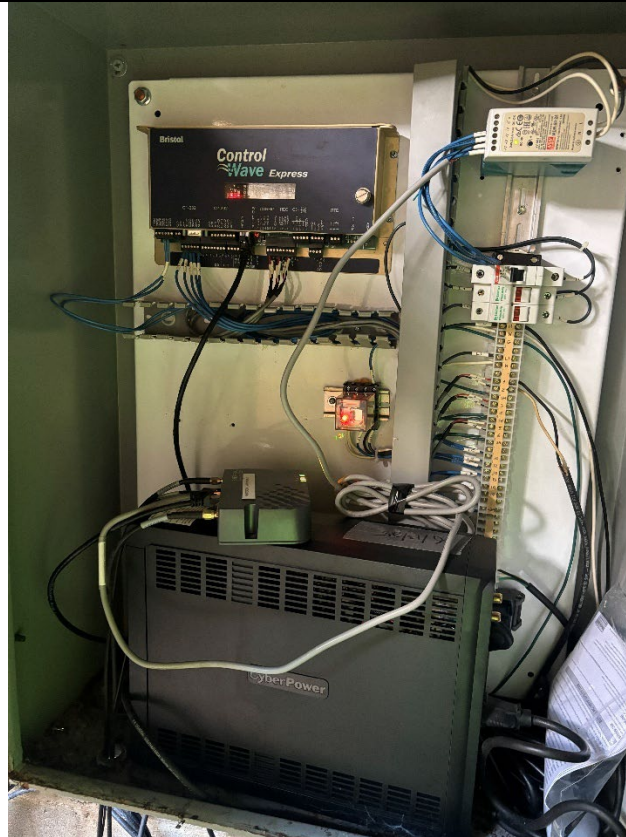


CLIENT NAME: Township of Verona	SITE LOCATION: White Rock Road Water Storage Tank	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 18.

Description:

White Rock Road Storage Tank Controls.



CLIENT NAME: Township of Verona	SITE LOCATION: Fairview Avenue Well Facility	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 19.

Description:

Fairview Avenue well head.



Photo No. 20.

Description:

Fairview Avenue well head.



CLIENT NAME: Township of Verona	SITE LOCATION: Fairview Avenue Well Facility	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 21.

Description:

Fairview Avenue well pump controls.



Photo No. 22.

Description:

Fairview Avenue well pump controls.



CLIENT NAME: Township of Verona	SITE LOCATION: Fairview Avenue Well Facility	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 23.

Description:

Buried meter manhole at Fairview Avenue well.



Photo No. 24.

Description:

Air stripper for volatile organic compound removal.



CLIENT NAME: Township of Verona	SITE LOCATION: Fairview Avenue Well Facility	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 25.

Description:

Air stripper for volatile organic compound removal.



Photo No. 26.

Description:

Name plate for air stripper at Fairview Avenue Well.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairview Avenue Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 27.

Description:

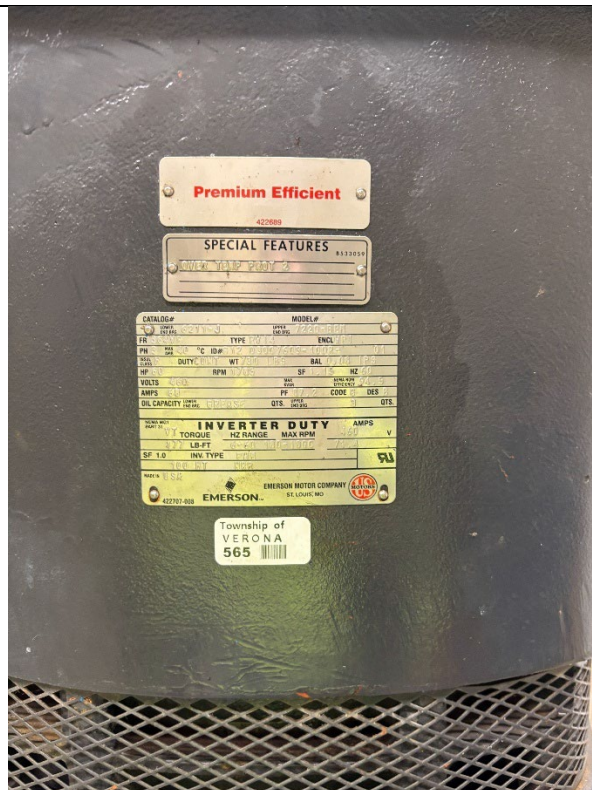
Clear Well Pump Motor.



Photo No. 28.

Description:

Clear Well pump motor name plate.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairview Avenue Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 29.

Description:

Condition of interior piping and air release valve.



Photo No. 30.

Description:

Condition of interior piping and air release valve.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairview Avenue Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 31.

Description:

Fairview Avenue Well: interior piping

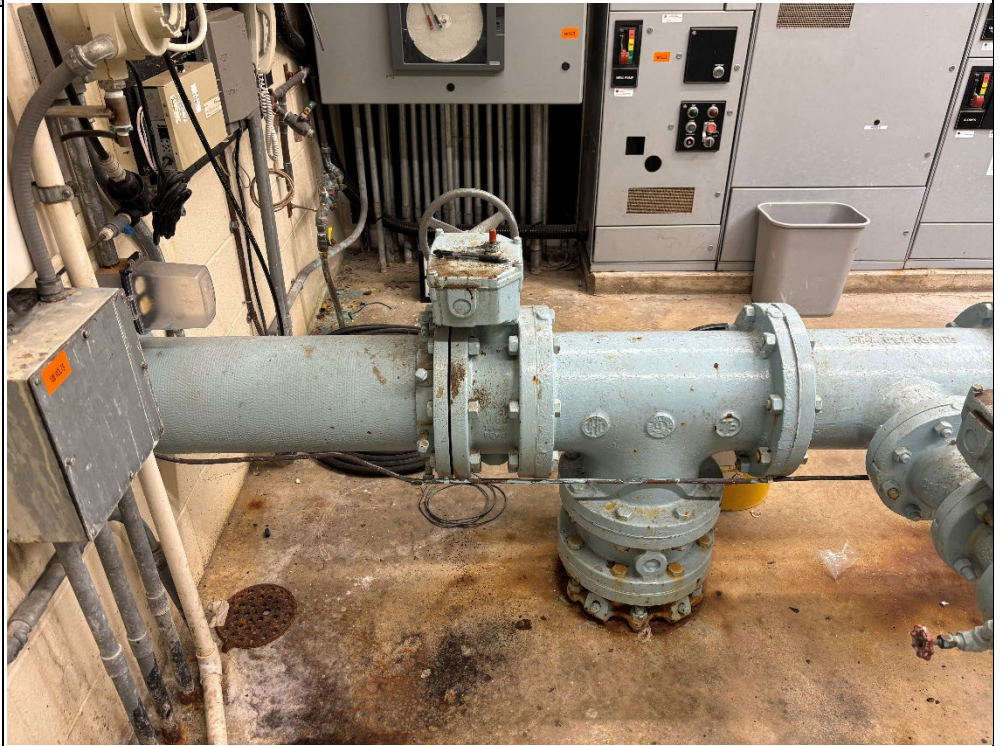


Photo No. 32.

Description:

Fairview Avenue Well: interior piping



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairview Avenue Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 33.

Description:

Interior piping: Gate valve name plate.



Photo No. 34.

Description:

Fairview Avenue Well: interior piping and check valve.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairview Avenue Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 35.

Description:

Interior piping: Check valve name plate.



Photo No. 36.

Description:

Fairview Avenue Well control system.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairview Avenue Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 37.

Description:

Fairview Avenue Well control system.



Photo No. 38.

Description:

Blower for air stripper unit.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairview Avenue Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 39.

Description:

Sodium Hypochlorite system and controls.



Photo No. 40.

Description:

Sodium Hypochlorite control panel.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Fairview Avenue Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 41.

Description:

Ortho polyphosphate system and controls.

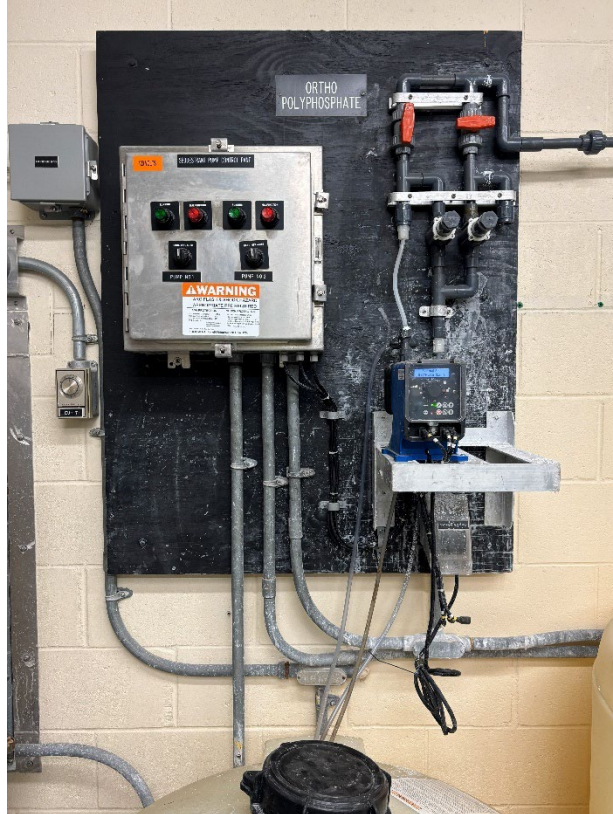


Photo No. 42.

Description:

Back-up generator for Fairview Avenue Well.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Linn Drive Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 43.

Description:

Linn Drive Well head located outside of well facility.



Photo No. 44.

Description:

Linn Drive Well head located outside of well facility.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Linn Drive Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 45.

Description:

Sodium Hypochlorite tank.



Photo No. 46.

Description:

Linn Drive Well: Interior valving.



EST 1924

CLIENT NAME: Township of Verona	SITE LOCATION: Linn Drive Well Facility	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 47.

Description:

Linn Drive Well: Pump 1 motor and interior piping connection.



Photo No. 48.

Description:

Linn Drive Well: Pump 1 motor plate.



EST 1924

CLIENT NAME: Township of Verona	SITE LOCATION: Linn Drive Well Facility	PROJECT NAME: Township of Verona 2026 Asset Management	PROJECT No.: 25VA108
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Photo No. 49.

Description:

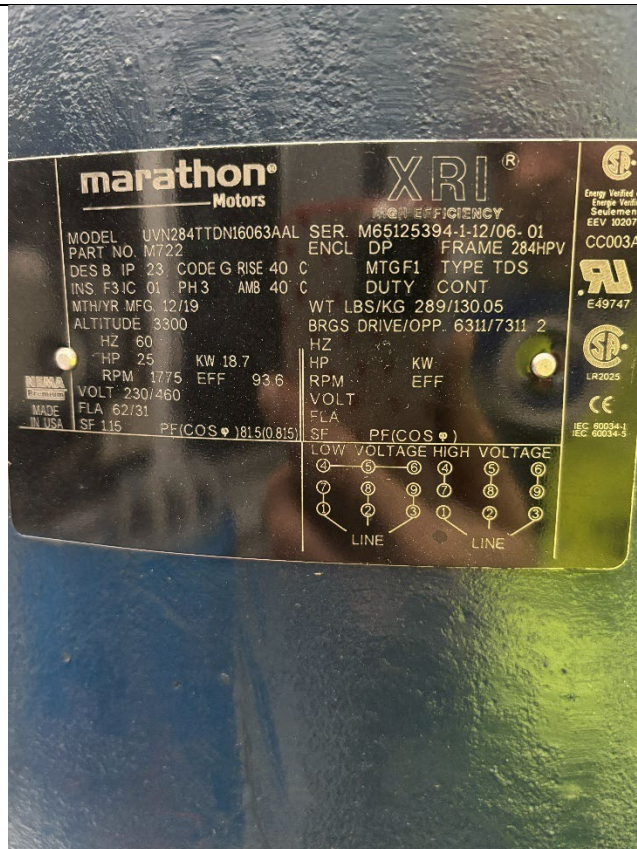
Linn Drive Well: Pump 2 motor and interior piping connection.



Photo No. 50.

Description:

Pump 2 motor plate.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Linn Drive Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 51.

Description:

Micron filter cartridges for raw water.



Photo No. 52.

Description:

Name plate for arsenic treatment Vessel A.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Linn Drive Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 53.

Description:

Arsenic treatment vessel and piping.



Photo No. 54.

Description:

Name plate for arsenic treatment Vessel B.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Linn Drive Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 55.

Description:

Ion exchange piping to arsenic treatment vessels.



Photo No. 56.

Description:

Linn Drive Well ion exchange valving.



CLIENT NAME:

Township of Verona

SITE LOCATION:

Linn Drive Well Facility

PROJECT NAME:

Township of Verona 2026 Asset Management

PROJECT No.:

25VA108

Photo No. 57.

Description:

Linn Drive Well ion exchange vessel name plate.



Photo No. 58.

Description:

Linn Drive Well back wash tank.



Appendix H. Water Loss Logs

WATER 2023

1 STREET SWEEPING 3970 GALLONS

2 SEWER CLOGS

1/5/23 1500 GALLONS

2/24/23 1500 GALLONS

3/7/23 2500 GALLONS

5/5/23 1500 GALLONS

6/20/23 2500 GALLONS

10/19/23 0 GALLONS

11/28/23 2000 GALLONS

TOTAL 11500 GALLONS

3 WATER BREAKS

2/22/23

5/10/23

5/15/23

6/10/23

8/22/23

10/10/23

11/22/23 TOTAL 30000 GALLONS

WATER 2023

4 HYD FLUSHING
10/2 TO 10/19 569 HYDRANTS

TOTAL 1618150 GALLONS

5 WATERING SAME AS 1

6 LAWN SPRINKLERS ALL METERED

7 FIRE DEPT N/A

8 CONTACTORS MIS 5300 GALLONS

WATER 2024

1 STREET SWEEPING
PLANT WATERING 001921.00 GALLONS

2 SEWER CLOGS
2/10/24 1500 GALLONS
3/06/24 1500 GALLONS
3/15/24 2000 GALLONS
4/24/24 1500 GALLONS
5/03/24 2500 GALLONS
6/09/24 1500 GALLONS
9/10/24 1500 GALLONS
STORM DRAIN CLEANING 8000 GALLONS

TOTAL 20000 GALLONS

3 WATER BREAKS
3/15/24
4/11/24
6/06/24
6/16/24 6/16/24
9/21/24 11/06/24 12/13/24

TOTAL 25000 GALLONS

WATER 2025

1 STREET SWEEPING

PLANT WATERING

METER

2 SEWER CLOGS

1/8/25

1500 GALLONS

3/10/25

1500 GALLONS

3/23/25

2000 GALLONS

6/24/25

1500 GALLONS

6/27/25

2000 GALLONS

7/09/25

1500 GALLONS

9/22/25

1500 GALLONS

11/18/25

1500 GALLONS

STORM DRAIN CLEANING

8000 GALLONS

TOTAL 20000 GALLONS

3 WATER BREAKS

1/14/25

1/31/25

2/25/25

1/15/25

2/11/25

4/21/25

1/15/25

2/15/25

1/17/25

2/20/25

1/31/25

2/20/25

TOTAL GALLONS 37000

WATER 2025

- 4 HYD FLUSHING
4/1/25 TO 4/17/25 569 HYDRANTS
TOTAL 1,175,100

- HYD FLUSHING 569 HYDRANTS
10/25 TO 11/25 TOTAL 1,343,500

- 5 WATERING SAME AS 1

- 6 LAWN SPRINKLERS ALL METERED

- 7 FIRE DEPT N/A

- 8 CONTACTORS MIS 2500 GALLONS

- Fill Pool May 17 2025 432,000 GALLONS

Appendix I. Cost Estimates: Planned Capital Improvements



BOSWELL ENGINEERING

ENGINEER'S ESTIMATE

Township of Verona

Essex County, New Jersey

Project: Lead Service Line Replacement Phase 1 Estimate

25VA108

Calculated by: CB

4/7/2026

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	PLAN QUANTITY	AMOUNT
1	Mobilization	L.S.	\$ 84,000.00	1	\$ 84,000.00
2	Select Fill	C.Y.	\$ 25.00	2,000	\$ 50,000.00
3	Test Pits	C.Y.	\$ 125.00	2,100	\$ 262,500.00
4	Installation of Wet Tap and Corporation Valve, 3/4-Inch	Unit	\$ 1,500.00	158	\$ 237,000.00
5	Installation of Curb Box and Curb Stop	Unit	\$ 1,500.00	158	\$ 237,000.00
6	Installation of New Service Lines, 3/4-Inch (Main to Curb)	L.F.	\$ 60.00	2,400	\$ 144,000.00
7	Installation of New Service Lines, 3/4-Inch (Curb to Meter)	L.F.	\$ 80.00	6,400	\$ 512,000.00
8	Maintenance and Protection of Traffic	L.S.	\$ 10,000.00	1	\$ 10,000.00
9	Allowance for Police Traffic Directors	L.S.	\$ 205,000.00	1	\$ 205,000.00
10	Allowance for Unforeseen Contingencies	L.S.	\$ 15,000.00	1	\$ 15,000.00

CONSTRUCTION COST \$ 1,757,000.00

15% CONTINGENCY \$ 263,600.00

SUBTOTAL \$ 2,020,600.00

ENGINEERING AND INSPECTION \$ 352,000.00

TOTAL \$ 2,372,600.00



BOSWELL ENGINEERING

ENGINEER'S ESTIMATE

Township of Verona

Essex County, New Jersey

Project: Lead Service Line Replacement Phase 2 Estimate

25VA108

Calculated by: CB

4/7/2026

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	PLAN QUANTITY	AMOUNT
1	Mobilization	L.S.	\$ 84,000.00	1	\$ 84,000.00
2	Select Fill	C.Y.	\$ 25.00	2,000	\$ 50,000.00
3	Test Pits	C.Y.	\$ 125.00	2,100	\$ 262,500.00
4	Installation of Wet Tap and Corporation Valve, 3/4-Inch	Unit	\$ 1,500.00	158	\$ 237,000.00
5	Installation of Curb Box and Curb Stop	Unit	\$ 1,500.00	158	\$ 237,000.00
6	Installation of New Service Lines, 3/4-Inch (Main to Curb)	L.F.	\$ 60.00	2,400	\$ 144,000.00
7	Installation of New Service Lines, 3/4-Inch (Curb to Meter)	L.F.	\$ 80.00	6,400	\$ 512,000.00
8	Maintenance and Protection of Traffic	L.S.	\$ 10,000.00	1	\$ 10,000.00
9	Allowance for Police Traffic Directors	L.S.	\$ 205,000.00	1	\$ 205,000.00
10	Allowance for Unforeseen Contingencies	L.S.	\$ 15,000.00	1	\$ 15,000.00

CONSTRUCTION COST \$ 1,757,000.00

15% CONTINGENCY \$ 263,600.00

SUBTOTAL \$ 2,020,600.00

ENGINEERING AND INSPECTION \$ 352,000.00

TOTAL \$ 2,372,600.00



BOSWELL ENGINEERING

ENGINEER'S ESTIMATE

Township of Verona

Essex County, New Jersey

Project: Fairview Avenue Water Main Replacement

Calculated by: CB

25VA108

4/7/2026

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	PLAN QUANTITY	AMOUNT
1	Mobilization	L.S.	\$ 47,000.00	1	\$ 47,000.00
2	Select Fill	C.Y.	\$ 25.00	1,800	\$ 45,000.00
3	Test Holes	C.Y.	\$ 125.00	10	\$ 1,250.00
4	Rock Excavation	C.Y.	\$ 125.00	540	\$ 67,500.00
5	8-Inch DIP Watermain	L.F.	\$ 200.00	2,580	\$ 516,000.00
6	8-Inch Gate Valve	Unit	\$ 3,000.00	8	\$ 24,000.00
7	Fire Hydrant Assembly	Unit	\$ 8,000.00	4	\$ 32,000.00
8	1" Service Connection Assembly, Short	Unit	\$ 2,000.00	11	\$ 22,000.00
9	1" Service Connection Assembly, Long	Unit	\$ 2,250.00	1	\$ 2,250.00
10	4" Service Connection Assembly, Short	Unit	\$ 3,000.00	1	\$ 3,000.00
11	6" x 6" x 8" Tapping Sleeve and Valve	Unit	\$ 6,500.00	2	\$ 13,000.00
12	8" x 8" x 8" Tapping Sleeve and Valve	Unit	\$ 7,500.00	5	\$ 37,500.00
13	12" x 12" x 8" Tapping Sleeve and Valve	Unit	\$ 8,000.00	1	\$ 8,000.00
14	8-Inch Line Stop	Unit	\$ 8,000.00	8	\$ 64,000.00
15	Maintenance and Protection of Traffic	Unit	\$ 20,000.00	1	\$ 20,000.00
16	Allowance for Police Traffic Directors	L.S.	\$ 50,000.00	1	\$ 50,000.00
17	Allowance for Unforeseen Contingencies	L.S.	\$ 10,000.00	1	\$ 10,000.00
18	Soil Erosion and Sediment Control	L.S.	\$ 10,000.00	1	\$ 10,000.00

CONSTRUCTION COST \$ 972,500.00

15% CONTINGENCY \$ 145,900.00

SUBTOTAL \$ 1,118,400.00

ENGINEERING AND INSPECTION \$ 194,500.00

TOTAL \$ 1,312,900.00



BOSWELL ENGINEERING

ENGINEER'S ESTIMATE

Township of Verona

Essex County, New Jersey

Project: Township of Verona Valve Exercising and Replacement

25VA108

Calculated by: CB

4/7/2026

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	PLAN QUANTITY	AMOUNT
1	Mobilization	L.S.	\$ 65,000.00	1	\$ 65,000.00
2	Select Fill	C.Y.	\$ 25.00	350	\$ 8,750.00
3	Rock Excavation	C.Y.	\$ 125.00	145	\$ 18,125.00
4	Exercise Water Valves	Unit	\$ 150.00	1,054	\$ 158,100.00
5	4-Inch Gate Valve	Unit	\$ 1,000.00	3	\$ 3,000.00
6	6-Inch Gate Valve	Unit	\$ 3,000.00	167	\$ 501,000.00
7	10-Inch Gate Valve	Unit	\$ 5,000.00	24	\$ 120,000.00
8	12-Inch Gate Valve	Unit	\$ 5,500.00	7	\$ 38,500.00
9	Leak Detection Allowance	L.F.	\$ 1.00	163,450	\$ 163,450.00
10	Hot Mix Asphalt 12.5M64 Surface Course, 2 inches	Tons	\$ 125.00	60	\$ 7,500.00
11	Hot Mix Asphalt 19M64 Base Course, 4 inches	Tons	\$ 60.00	110	\$ 6,600.00
12	Maintenance and Protection of Traffic	L.S.	\$ 15,000.00	1	\$ 15,000.00
13	Allowance for Police Traffic Directors	L.S.	\$ 225,000.00	1	\$ 225,000.00
14	Allowance for Unforeseen Contingencies	L.S.	\$ 10,000.00	1	\$ 10,000.00
15	Soil Erosion and Sediment Control	L.S.	\$ 15,000.00	1	\$ 15,000.00

CONSTRUCTION COST	\$	1,356,000.00
15% CONTINGENCY	\$	203,400.00
SUBTOTAL	\$	1,559,400.00

ENGINEERING AND INSPECTION	\$	271,200.00
TOTAL	\$	1,830,600.00

Appendix J. Potential SFY 2027 Drinking Water SRF Funding Packages and Principal Forgiveness

Potential SFY 2027 Drinking Water SRF Funding Packages & PF



Drinking Water Funding Packages	PF Share	PF Cap per Applicant	Projected PF Available	DEP Share (Loan + PF)	I-Bank Share
Base DWSRF- Public	-	-	-	50%	50%
Base DWSRF- Investor-Owned	-	-	-	50%	50%
Enhanced Base DWSRF (AC Score 100 or less)	-	-	-	75%	25%
Lead Service Line Replacement w/ no PF	-	-	-	80%	20%
Emerging Contaminants w/ no PF	-	-	-	75%	25%
High Rank Affordability Projects	100%	\$10M	\$10M	75% Min	25% Max
Drinking Water (DW) Affordability Projects	100%	\$2-\$3M ¹	\$19M	75% Min	25% Max
Nano (serving 10,000 customers or less)	50%	\$1M	\$5M	75% Min	25% Max
Very Small Water Systems (serving 1,000 or less)	100%	\$2M ²	\$5M	-	-
Lead Service Line Replacement	50-80%	\$10-\$16M ¹	\$133M	75-90% Min	25-10% Max
Emerging Contaminants (including PFAS)	100%	\$3M	\$22M	75% Min	25% Max
Resilient Statewide Water Supply Infrastructure	50%	\$2M	\$4.5M	75% Min	25% Max

Appendix K. Township of Verona Water and Sewer Rates

**TOWNSHIP OF VERONA
COUNTY OF ESSEX, NEW JERSEY**

ORDINANCE No. 2024-08

**AN ORDINANCE TO AMEND CHAPTER A565-1 "SCHEDULE OF FEES" OF
THE CODE OF THE TOWNSHIP OF VERONA TO AMEND WATER AND
SEWER RATES**

BE IT ORDAINED by the Township Council of the Township of Verona, County of Essex, New Jersey, as follows:

Chapter A565-1 Water and Sewers is hereby amended to reflect the following rates effective January 1, 2024:

	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>
Effective Date:	4/1/24	1/1/25	1/1/26	1/1/27	1/1/28
<u>WATER RATES:</u>					
	\$26.64	\$27.71	\$28.81	\$29.97	\$31.17
PFAS Surcharge (per meter)					
5/8"	\$ -	\$18.00	\$18.00	\$18.00	\$18.00
3/4"	\$ -	\$27.00	\$27.00	\$27.00	\$27.00
1"	\$ -	\$45.00	\$45.00	\$45.00	\$45.00
1 1/2"	\$ -	\$90.00	\$90.00	\$90.00	\$90.00
2"	\$ -	\$144.00	\$144.00	\$144.00	\$144.00
3"	\$ -	\$270.00	\$270.00	\$270.00	\$270.00
4"	\$ -	\$450.00	\$450.00	\$450.00	\$450.00
6"	\$ -	\$900.00	\$900.00	\$900.00	\$900.00
Volumetric Rate per Kgal					
	\$8.88	\$9.24	\$9.60	\$9.99	\$10.39
<u>SEWER RATES:</u>					
Quarterly Sewer Fee					
	\$159	\$165	\$172	\$179	\$186

BE IT FURTHER ORDAINED that any fees currently listed in A565-1 "Schedule of Fees" "Water and Sewers" not amended above shall remain unchanged unless amended by future ordinance.

SECTION 1. In case any one or more of the provisions of this Ordinance shall, for any reason, be held to be illegal or invalid, such illegality or invalidity shall not affect any other provision of this Ordinance shall be construed and enforced as if such illegal or invalid provision had not been contained herein.

SECTION 2. If any section, sub-section, paragraph, sentence or any other part of this ordinance is adjudged unconstitutional or invalid, such judgment shall not affect, impair or invalidate the remainder of this ordinance.

SECTION 3. All ordinances or parts of ordinances which are inconsistent with the provisions of this ordinance are hereby repealed to the extent of such inconsistency.

SECTION 4. This ordinance shall take effect 20 days after final passage and publication as prescribed by law.



ATTEST:

Jennifer Kiernan

JENNIFER KIERNAN
MUNICIPAL CLERK

NOTICE

I HEREBY CERTIFY THAT THE AFOREMENTIONED ORDINANCE WAS PUBLISHED IN THE STAR LEDGER, A NEWSPAPER PUBLISHED IN THE COUNTY OF ESSEX AND CIRCULATED IN THE TOWNSHIP OF VERONA, IN THE ISSUE OF MARCH 4, 2024 AND MARCH 15, 2024.

JENNIFER KIERNAN
MUNICIPAL CLERK

INTRODUCTION: February 26, 2024
PUBLIC HEARING: March 11, 2024
EFFECTIVE DATE: March 31, 2024