

**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION
DOCKET NO. 4243
Response Of The City Of Newport,
Utilities Division, Water Department
To The Portsmouth Water and Fire District's
Data Requests
Set 1**

PWFD 1-1: Please provide copies of any filings with the Division for approval of any of the proposed SRF loans sought in this docket.

Response: There have been no filings with the Division related to the proposed SRF loans referenced in this Docket. Filings are done with the Division after the rates are approved by the Commission. Thus, Newport will not be filing for approval of the proposed SRF loans with the Division until the completion of this docket. Nevertheless, I have provided some history of Newport's recent filings with the Division.

In January 2008, Newport Water filed Docket No. D-08-03 with the Division to borrow \$1,237,000 through a Bond Anticipation Note purchased from RICWFA for work to be performed by the City Agent.

In April 2008, Newport Water filed Docket No. D-08-15 with the Division for the loan to fund the repairs to Easton Pond Dam. As previously indicated in Docket 4025, dam projects are not eligible for SRF loans therefore the loan will be a non subsidized borrowing with RICWFA.

In August 2009, Newport Water filed Docket No. D-09-76 with the Division for a loan related to water main improvements. Newport Water updated the Division regarding the water treatment plants project and the need for a second borrowing of a \$2,300,000 Bond Anticipation Note for continued work by the City Agent for the water treatment plants project.

The \$2,300,000 BAN did not require Division approval, but the information was provided for an update as the short term borrowings for the water treatment plants project will be rolled into long term subsidized loans through DWSRF which will require future Division approval.

Prepared by: J. Forgeue

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PWFD 1-2: Please provide the basis for the assumption of the 6% interest rate (see RFC Schedule 5, footnote 4 and page 10, line 4 of Mr. Smith's testimony).

Response: Please see Newport Water's response to Division 1-18.

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PWFD 1-3: Please provide the basis for the assumption of the 13% borrowing or issuance costs (see page 9, line 18 of Mr. Smith's testimony).

Response: As mentioned in the response to Division 1-18, there is some uncertainty relating to the terms of the borrowings that will be used to fund projects in the capital improvement plan. As such, it was necessary to develop estimates of the borrowing costs. The estimates take into account Newport's recent experience with RICWFA borrowings in which costs related to items such as a loan origination fees, deposits to a debt service reserve fund held by a Trustee, financial advisors, and legal counsel have added between 7 percent and 9 percent to the amount to be borrowed. Additionally, on past projects, delays in obtaining Department of Health (DOH) approvals have required that Newport incur additional costs associated with the issuance of Bond Anticipation Notes (BANS) to begin funding projects until DOH approvals are obtained and permanent financing is secured. The cost associated with the issuance of these BANS is included in the estimated borrowing costs.

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PWFD 1-4: Please provide the basis of the assumption that Newport will begin making principal and interest payments on the full amount of the SRF loans in the year in which the debt is issued (see page 9, line 25-26 of Mr. Smith's testimony). Please provide any cash flow or construction drawdown analysis of the Lawton Valley WTP project that has been prepared. If one has not been prepared, please explain in detail, the basis for the annual construction costs presented in RFC Schedule 4. For example, will the \$20 million of costs in FY 2013 be spread throughout the year with roughly 1/12 each month?

Response: With regard to the assumptions related to principal and interest payments, please see Newport Water's response to Division 1-23.

As for a drawdown analysis for the Lawton Valley WTP, a detailed analysis has not been performed since the project will be delivered under a design/build (D/B) contract and the schedule will be contingent upon the successful proposer's project approach. Although more information regarding the construction schedule and annual project costs will be known when proposals are received in late May, the construction and cost drawdown schedules will not be finalized until the D/B contract is executed in early 2012.

The annual project cost estimates shown in RFC Schedule 4 were developed by CDM, Newport Water's advisor for the D/B procurement, based on their experience with similar projects.

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PWFD 1-5: Please explain the basis for deciding which projects on RFC Schedule 4 would be cash or rate financed. Why is Newport proposing system wide main improvements of?

- FY 2011: \$300,000
- FY 2012: \$0
- FY 2013: \$3,200,000
- FY 2014: \$300,000
- FY 2015: \$3,500,000

Why are the improvements of \$3 million plus proposed to be cash financed rather than debt financed? Are these the same projects presented in RFC Schedule A in Docket 3818 as system wide distribution improvements, as follows?

- FY 2008: \$250,000
- FY 2009: \$3,250,000
- FY 2010: \$300,000
- FY 2011: \$3,200,000

Please explain how much of the above projects for FY 2008 – FY 2011 have been completed to date.

Response: In this case, the decision regarding which projects would be debt funded and which would be rate funded was based on several factors. First, since the improvements to Station One and the new Lawton Valley plant will both be delivered under a single design/build (D/B) contract, it was determined that they should be funded from the same source. Then, since these projects have an expected useful life of greater than 25 years and the combined annual costs of the two projects are far greater than

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Newport Water's rate could support if they were funded with rate revenues, it was determined that they would be funded with debt. This decision resulted in the need for Newport Water to issue approximately \$83 million in debt over the next four years.

As shown on RFC Schedule 4 included in my original testimony, the decision to fund the D/B projects with debt left an annual average of approximately \$2.5 million in projects (including the System-wide Main Improvements) that require funding. While these additional projects could have been funded with debt, Newport Water must be mindful of the debt service coverage requirements imposed by its preferred lender, the RICWFA. The covenants of recent RICWFA loans to Newport Water have required that Newport Water demonstrate that its rates will support a debt service coverage ratio of at least 125% of annual debt service requirements. Funding the remaining \$2.5 million in average annual capital costs with debt would have worked contrary to meeting these debt service coverage objectives in that it would increase Newport Water's annual debt service requirements.

Docket 4234 -RFC Schedule 4 represents the current schedule for system wide distribution main improvements versus Docket 3818-RFC Schedule A. The following is a summary of the status system wide distribution improvements from Docket 3818 RFC Schedule A:

FY 2008 - \$250,000 design services completed
FY 2009- \$3,250,000 Construction services completion by May 31, 2011
FY 2010- \$300,000 Design Services – in progress and shown as FY2011 in Docket 4243
FY2011- \$3,200,000 Construction- postponed to FY2013 as shown in Docket 4243

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PWFD. 1-6: In Docket 4025, Newport Water included funding for the proposed 2009 SRF borrowing of \$6.35 million (see RFC Schedule 5 – Compliance) to be used to pay for some \$6 million of improvements to the Easton Pond Dam (see RFC Schedule 4 – Compliance). According to RFC Schedule 5 in this docket, the 2009 SRF Loan was only for \$3.3 million. Please explain what this was used for. What is the \$6 million for the Easton Pond dam in FY 2012 for (RFC Sch 4)? Is this in addition to the amounts provided for in docket 4025?

Response: The designations for the borrowings have changed between Docket 4025 and Docket 4243 based on the order the borrowings occur with the RICWFA. The current docket has the actual designations for borrowings which have occurred and are noted as “existing” in RFC Schedule 5.

The proposed borrowing in Docket 4025 RFC Schedule 5 - Compliance noted as “2010 SRF B” is the existing borrowing in Docket 4243 Schedule 5 noted as “2009 SRF A”. The borrowing funded the construction of water main improvements which will be completed by May 31, 2011 and is also funding the design for the water main improvements to be constructed in FY 2013.

In Docket 4025, Newport Water intended to borrow \$6.35M for design and construction of the improvements to the Easton Pond Dam. However a Certificate of Approval was required from RIDEM for the proposed dam improvements which we could not obtain until the design was completed. The City received a \$500,000 BAN for the final design and permitting. We have since completed the design and awarded the construction contract and are in the process of rolling the BAN into the Bond through RICWFA. The Easton Pond Dam project is not a SRF borrowing as dam related projects are not eligible.

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PWFD. 1-7: What is the "City Agent for New LVWTP and Sta 1 Improv." listed on RFC Schedule 4? Please provide a full description of all these costs.

Response: The "City Agent for the New LVWTP and Sta 1 Improv." was described in my direct testimony for Docket 4025 (pp. 8-9). However, in Docket 4025 the City Agent was referred to as the City Advisor. The following is an updated description of the role of the City Agent/ Advisor for the water treatment plant projects:

The City Agent's role is to assist as the City of Newport throughout the bidding and construction process of improvements to the Station 1 water treatment plant and the construction of a new Lawton Valley Water Treatment Plant (LVWTP). As such, the City Agent is not eligible to bid on the Design/Build (D/B) project. In March 2008, Newport water entered into a contract with CDM to act as the City's agent/advisor for implementation of long term improvements at the Lawton Valley and Station 1 treatment plants. CDM's work will consist of providing professional services in five phases:

- Phase 1- (A) Utility Ownership/Governance; and
(B) Project Delivery Strategy;
- Phase 2- Utility Financing;
- Phase 3- Engineering Studies and Preliminary Design;
- Phase 4- Procurement Documents and process; and,
- Phase 5- Monitoring of Contract awarded as part of Phase 4.

CDM has completed Phase 1. In the course of completing Phase 1(A), CDM examined all possible strategic options available to the City for the ownership, financing and governance of Newport Water and concluded that continued City ownership/governance with rate-payer financing would be in the best long-term interest of the City and its rate payers.

CDM prepared a Phase 1(B) report and presented it to the City Council at its December 10, 2008 meeting. As part of Phase 1(B), CDM developed, evaluated, and recommended project delivery options for the Station 1

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improvements and the new LVWTP. CDM recommended a single Performance-Based/Design Alternatives Design –Build (DB) contract procurement for both Station 1 and the new LVWTP.

As part of Phase 2, CDM will provide a range of financial consulting services to assist in the selection of the most advantageous design–build proposer and to obtain the financing necessary for design and construction of the improvements as well as related services. These services are being provided from the development of the RFP through the final financing transactions.

In Phase 3, CDM is providing the City with a detailed set of tasks that are required to address all engineering issues and design needs for the improvements at Station 1 and the new LVWTP. Major components that are critical to the development of clear and complete engineering evaluations and technical requirements include establishing water demand and supply (safe yield) for water treatment plant design capacity; site assessment and site selection for the new LVWTP; pilot testing at both water treatment plants to establish the process to treat water from multi-reservoir sources; geotechnical evaluations; permit planning; and, definition of technical project development (quality/performance) requirements.

In Phase 4, CDM will provide the City with support to legal counsel in preparation of the DB contract; assistance conducting the procurement process; and, negotiation of the final DB contract. Several of the tasks in Phases 2, 3, and 4 are proceeding concurrently.

After the award of a DB contract, Phase 5 will be implemented which is related and CDM will oversee construction and project closeout.

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PWFD 1-8: The Tariff for the existing rates says private fire services are rendered annually in advance (Schedule B). Is this how Newport bills these accounts? In what month was the last private fire service charges billed? Please indicate which of the past monthly cash flow reports the annual private fire service charges are reported in or reflected (the most recent only).

Response: Private fire service is billed annually each July 1 and is due in 30 days. The last annual private fire service charges were reflected primarily in the July 2010 monthly cash flows as part of retail consumption.

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PWFD 1-9: Regarding RFC Sch. D (Legal and Administrative):

- a. Please reconcile the Water Budget of \$19,543,071 with the expense claims in this filing.
- b. Please reconcile the FY 2011 Water Budget of \$19,543,071 with the amounts presented in NWD Quarterly Reports of a FY 2011 Budget of \$11,559,843 (from 12/31/2010 and 9/30/2010 Quarterly Reports)

Response:

- a. The \$19,543,071 represents the "Total Expenditures and Capital Outlays" of the Water Division in the City of Newport's Adopted FY 2011 Budget (budgetary basis of accounting). This was used to duplicate the methodology for computation that was specified in Docket 4025. The City's approved budget number used in Docket 4025 was replaced with the City's approved 2011 budget.
- b. See Attached Schedule.

Prepared by: J. Tracey

City of Newport - Utilities Department - Water Division
Docket 4243
PWFD I-9 b

	<u>2011 Budget Reconciliation</u>
Budget per quarterly reports	\$ 11,559,843
Capital Outlay funded with Bond Proceeds	6,562,790
Principal Debt repayment	927,448
Required Restricted Deposits	<u>492,990</u>
Adopted 2011 Water Division Budget	<u><u>\$ 19,543,071</u></u>

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PWFD 1-10: Please provide a detailed breakdown of the derivation of \$191,200 for the rate year data processing cost proposal.

Response: See Attached Schedule.

Prepared by: J. Tracey

City of Newport - Utilities Department - Water Division
Docket 4243
PWFD I-10

Development of Data Processing Charges

Determination of Budget Percentages

	FY2011 Adopted Budget	Percentage
Total General Fund Budget (Adopted)	76,424,833	
Add: Equipment Operations Fund	1,561,660	
Less:		
80 % of School Appropriation	(18,051,326)	
96% of Library Appropriation	(1,604,850)	
Civic Support Requests	(83,150)	
Total General Fund Budget For Allocation	58,247,167	56.83%
Water Fund	19,543,071	19.07%
WPC Fund	19,687,499	19.21%
Maritime Fund	876,406	0.86%
Beach Fund	1,006,214	0.98%
Parking Fund	3,125,729	3.05%
Combined Budgets	102,486,086	100.00%

Allocation of Data Processing Costs to Water Funds

Allocated Item	Cost To Be Allocated	Water %	Water Fund	
MIS - Communications Cost	\$ 261,576	7.90%	20,665	% from Docket 4025
MIS - Other Costs	\$ 894,364	19.07%	170,546	% from above

Data Processing (1) 191,211
rounded \$ 191,200

	FY2011 Adopted Budget
MIS Expenditures	
Salaries	\$ 267,641
Employee benefits	92,188
Technical training	7,200
Annual Software Maintenance fees	287,929
Annual Hardware Maintenance fees	93,401
Software License fee	11,520
Postage	53,175
Telephone & Communication	261,576
Mileage	300
Operating Supplies	22,991
MIS Equipment	38,075
Lease Purchases	19,944
Total	1,155,940
Less MIS - Communications Cost	261,576
MIS - Other Costs	<u>\$ 894,364</u>

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PWFD 1-11: Please explain the basis for the 80% increase from FY 2010 to FY 2012 for Employee Benefits – Financial Analyst.

Response: The Financial Analyst has a child eligible for dependent coverage to Age 26 and will be converting from single to family coverage on July 1, 2011.

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PWFD 1-12: Is the 3% increase to property taxes projected for the rate year just an estimate or does Newport Water have any other information upon which to base these?

Response: The 3% increase to property taxes projected for the rate year is an estimate. The communities to which we pay taxes will be establishing their 2012 tax rates in June 2011.

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PWFD 1-13: Please provide the basis for each of the Rate Year claims for consultant fees included in RFC Schedule B-1 as well as a general description of the work being provided for each category.

Response: See Attached Schedule.

Prepared by: J. Tracey

City of Newport - Utilities Department - Water Division
Docket 4243
PWFD 1-13
Rate Year Consultant Fees

	FY 2012
50222 Consultant Fees	
Legal Fees	
Keough & Sweeney	
General and specific legal services related to utility rate consultation and design build services related to the water treatment plants.	125,000
Financial Consultant	
Raftelis Financial Consultants, Inc.	
Financial consulting services related to rate and other filings before the RIPUC and the RIDPUC, financing and bonding issues, and preparation of financial coverage certificates.	128,400
Other Fees	
Division of Public Utilities and Carriers	
Rate and other filing expenses	66,800
Bond Advisor	
Wells Fargo 4 bond issues @ \$2,500 per issue	10,000
Code Red	
Emergency Notification System (20% of City's annual cost) (Reduced from filing based on additional information)	3,000
	<u>\$ 333,200</u>

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PWFD 1-14: Under Customer Service – please explain the charges support services related to Opal Maintenance and Reporting? Why is this not part of the Data Processing charges under Administration.

Response: The Support services - Opal Maintenance Contract specifically relate to the separate Opal water and sundry billing systems that are used for the Water Division' billing and collections. It includes updating the systems for rate changes. The Support services - Billing Consultant for Opal Reporting allows us to order tailor-made diagnostic reports to improve the billing process within the division. These are not part of the Data Processing charges under Administration because they specifically relate to water billing and are part of the Customer Service O & M expenses that are billed to the Water Pollution Control Division and the Town of Middletown.

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PWFD 1-15: Please provide an explanation of the wide variation in the cost of employee benefits as a percentage of salary (for example: 86% for principal account clerk vs. 26% for distribution/collection mechanic).

Response: The wide variation in the cost of employee benefits as a percentage of salary is due to 1) Health, dental and life insurance are fixed rates per employee, not a % of salary, 2) the difference between health and dental coverage under a single versus a married plan and 3) the optional \$1,000 health insurance buy back. A lower paid employee with family coverage will have a much greater % than a higher paid employee with a single coverage or the health insurance buy back.

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PWFD 1-16: Please explain how NWD determines which vehicles to purchase (RFC Sch. 4 – Equipment and Vehicle Replacement) vs. rent (RFC Sch. B-8 for example)? Please provide a listing of vehicles and equipment to be purchased (RFC Sch. 4) and the age and mileage of the vehicle or equipment being retired.

Response: Rental of heavy equipment described in RFC Sch. B-8 is done when equipment not owned by Newport Water, is needed to perform a specific task. A recent example of this would be for the emergency repair of the 24" water main break on West Main Road which occurred in September, 2010 for which an excavator and 10 wheel dump truck was rented to assist.

Equipment that is used on a regular basis is owned by Newport Water. This includes a backhoe, a 6 wheel dump truck, pick-up trucks, large mowers, etc.

Attached is the listing of NWD owned vehicles and equipment to be purchased as identified in RFC Schedule 4

Prepared by: K. Mason

City of Newport - Utilities Department Water Division Docket No. 4243
PWFD 1-16
Vehicle and Equipment Schedule

Year	Manufacturer	Model	DESCRIPTION	Mileage as of 5/6/11	FY11	FY12	FY13	FY14	FY15	
2006	Ford	Fusion	Dir - Util Car	13,893					22,000	
2006		Trackless MT5	Tractor					120,000		
2004	Chev	C-3500	Crew Cab Pickup	96,961		28,000				
2004	Chev	S-10	Pickup Truck	30,267			19,000			
2004	Chev	C-1500	Pickup Truck	78,721		23,000				
2004	Chev	K-3500	Dump Truck	73,763		40,000				
2004	Ing.Rand	P175WW	Air Compressor						16,000	
2004	Chev	S-10	Pickup Truck	61,916			19,000			
2004	Chev	G-30	Cargo Van	66,721		37,000				
2004	Chev	K2500	Pickup	18,851		23,000				
2004	Chev	S-10	Pickup	74,365			19,000			
2004	Chev	S-10	Pickup	35,178			19,000			
2011	Kut Kwik	Slopemaster	Mower		53,374					
2004	Bob Cat	4 wd off road veh	4wd Off Road Vehicle			28,000				
2002	Ing.Rand	P 185WJD	Trailer Air Compress				16,000			
2011	John Deere	410	Backhoe		97,480					
2000	Ford	Taurus	Dept. Director Vehicle	65,520		20,000				
2007	Chev	E-250	Van	41,116					28,000	
Total					150,854	199,000	92,000	120,000	66,000	

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PWFD 1-17: Please break out all the projects on RFC Sch. 4 (CIP) that are part of Newport Water's Infrastructure Replacement costs. Please reconcile these with the January 31, 2005 Infrastructure Replacement Report, Table 3-1. If this is not NWD's most recent IFR Report, please provide a copy of the most recent report and reconcile RFC Sch 4 to that more recent report.

Response: The Infrastructure Replacement Plan was updated and submitted to RIDOH in January, 2010. A copy of the January 2010 report is provided with this response. Using Table 3-1 from the January 2010 Report, Newport Water has provided a status of each project as it applies to RFC Sch. 4.

Prepared by: K. Mason

TABLE 3-1															
SUMMARY OF CAPITAL IMPROVEMENTS															
City of Newport, Rhode Island															
2010 Infrastructure Replacement Plan Update															
		Docket 4025	Debt Funded	Rate Funded	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016-2020	FY 2021-2025	FY 2026-2030	Status	Expended as of 4/30/11
CS	Remote Radio Read Meter System-Install (2008 SRF B \$2,800,000)	X	X		\$1,000,000	\$900,000								Ongoing	\$2,507,734.00
CS	Water Trench Restoration (Assume 4% increase/year)	X		X	\$75,000	\$78,000	\$81,120	\$84,365						Ongoing - Expenses for FY 2011	\$27,783.00
CS	Water Trench Restoration (Assume 4% increase/year)			X					\$87,740	\$91,249	\$514,000	\$625,000	\$761,000		
F	Fire Hydrant Replacement	X		X	\$17,000	\$17,000	\$18,000	\$18,000						Ongoing - Expenses for FY 2011	\$16,773.00
F	Fire Hydrant Replacement			X					\$19,000	\$19,000	\$100,000	\$110,000	\$120,000		
M	Equipment and Vehicle Replacement	X		X	\$118,000	\$160,000	\$199,000	\$92,000						Ongoing - Expenses for FY 2011	\$150,854.00
M	Equipment and Vehicle Replacement			X					\$120,000	\$160,000	\$660,000	\$800,000	\$980,000		
S	Dam and Dike Rehabilitation - Lawton Valley ²	X		X		\$100,000	\$800,000							Revised to FY 2012-2013	
S	Dam and Dike Rehabilitation - Lawton Valley (Construction)-\$2M ⁵		X					\$1,060,000	\$1,060,000						
S	Dam and Spillway Rehabilitation - Easton Pond Design	X		X				\$250,000							
S	Dam and Spillway Rehabilitation - Easton Pond Design			X					\$250,000						
S	Dam and Spillway Rehabilitation - Easton Pond (Construction)-\$6M ⁵		X						\$4,240,000	\$2,120,000					
S	Demolition of Old Nonquit Pump Station	X		X	\$125,000									Complete	\$19,700.00
S	Department of Utilities Office / Garage (70 Halsey Street) ³			X					\$400,000						
S	Distribution Main Improvements (Sherman St.) Design & Const.	X		X	\$156,952									Construction contract awarded FY 2011	\$5,811.00
S	Easton Pond Dam Improv.-N & W Embank. (2009 SRF A \$6,000,000)	X	X		\$3,000,000									Construction contract awarded FY 2011	\$0.00
S	Forest Avenue Pump Station Improvements	X		X		\$250,000								Revised to FY 2012	
S	General Dam Fund			X		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	\$300,000	\$350,000		
S	Intake at Paradise Pond	X		X		\$190,000								Assessment complete. Design in progress	\$2,924.00
S	Intake at Sissons	X		X		\$50,000								Assessment complete. Design in progress	\$2,924.00
S	Intake at Watson & Nonquit	X		X		\$250,000								Assessment complete. Design in progress	\$5,847.00
S	Meter Replacement (Assume 4% increase/year)	X		X	\$64,247	\$66,817	\$69,490	\$72,269						Ongoing - Expenses for FY 2011	\$38,071.00
S	Meter Replacement (Assume 4% increase/year) ⁴			X					\$75,160	\$200,000	\$901,000	\$2,740,000	\$1,330,000		
S	Main from Gardiner to Paradise Pond	X		X	\$150,000									Design contract awarded FY 2011	\$0.00
S	Main from Gardiner to Paradise Pond (2011 SRF B \$8,600,000)	X	X			\$1,600,000								Construction revised to FY 2013	
S	Paradise Pump Station ¹			X				\$83,750						Revised to FY 2012	
S	Sakonnet River Pump Station ³			X				\$151,250			\$12,500			Revised to FY 2012	
S	Sediment Assessment - Lawton Brook	X		X	\$35,000									Complete	\$34,793.00
S	Sediment Assesment - Lawton Brook (Construction)-\$250,000 ⁵		X			\$265,000								Project cancelled. Not required by RIDEM	
S	St. Mary's Pump Station ¹			X					\$183,750						
S	Station No. 1 Raw Water Pump Station ⁴			X				\$193,750							
S	Water Quality Protection Plan Update-RIWRB	X		X	\$80,000									Complete	\$18,727.00
S	Water Quality Protection Plan Update-RIWRB			X						\$85,000	\$90,000	\$100,000	\$110,000		
S	WSSMP 5-year update-RIWRB	X		X		\$80,000								Revised to FY 2013	
S	WSSMP 5-year update-RIWRB due July 2017			X							\$85,000	\$90,000	\$100,000		
ST	Storage Tanks - Cleaning and Inspection			X							\$60,000	\$60,000	\$75,000		
ST	Storage Tanks - Painting			X							\$700,000		\$1,500,000		
TD	Automatic Flushing Hydrants (3)			X		\$45,000								On Hold	
TD	Distribution Main Improvements - System-wide (2010 SRF B \$3,393,048)	X	X		\$3,093,048	\$300,000								Construction 95% complete. Design Contract awarded	\$2,064,072.00
TD	Distribution Main Improvements - System-wide (2011 SRF B \$8,600,000)	X	X				\$3,200,000	\$300,000	\$3,500,000						
TD	GIS and Hydraulic Modeling	X		X	\$90,000									95% complete	\$279,006.00
TD	GIS and Hydraulic Modeling (Assume 3% increase/year)			X		\$10,000	\$10,300	\$10,609	\$10,927	\$11,255	\$61,547	\$71,350	\$82,715		
TD	IRP Update-RIDOH due January 2010	X		X	\$80,000									Complete	\$48,370.00
TD	IRP Update-RIDOH due January 2015 (Assumes 3% increase/yr)			X						\$55,000	\$63,760	\$73,915	\$85,688		
TD	TD Distribution Main Improvements (System-wide) ^{1, 5}		X							\$337,366	\$13,279,131	\$10,969,237	\$17,846,042		
TR	City Agent for New LVWTP & STA 1 Imprv. (2010 SRF A \$6,725,950)	X	X		\$1,846,960	\$912,790	\$500,000	\$525,000	\$550,000					Ongoing	\$2,111,558.00
TR	Professional Services for New Plant & STA 1 - legal, etc. (2010 SRF A \$6,725,950)	X	X		\$450,000	\$350,000	\$125,000	\$125,000	\$125,000					Ongoing	\$67,330.00
TRL	Lawton Valley WTP - Chloramine Conversion Design	X		X	\$30,410									Initial compliance evaluation design completed	See below piloting
TRL	Lawton Valley WTP - New WTP - DB/Construction (2012 SRF A \$38,739,000)	X	X				\$8,910,000	\$24,405,000	\$5,424,000						
TRL	LVWTP Chloramine Conversion Construction (2008 SRF A \$2,144,185)	X	X		\$200,000									Piloting completed	\$244,153.00
TRN	Station 1 - Additional Pretreatment/Clarification Train - DB/Const. (2011 SRF A \$10,800,000)	X	X			\$2,500,000	\$5,806,000	\$2,494,000						Start FY 2012	
TRN	Station 1 Chloramine Conversion Construction (2008 SRF A \$2,144,185)	X	X		\$180,000									Piloting completed	\$244,153.00
CS	Station 1 WTP - Chloramine Conversion Design	X		X	\$30,410									Initial compliance evaluation design completed	See above piloting
Total Capital Improvements:					\$10,822,027	\$8,174,607	\$19,768,910	\$29,914,993	\$16,095,577	\$3,128,870	\$16,776,939	\$15,939,503	\$23,340,445		

Note:

¹ Distribution Main Improvements (System-wide): Design at \$300,000 every other year, Construction at \$3,500,000 every other year in FY2010 dollars. Distribution main improvement costs have been escalated at 3% per year from FY2013/2014

² Dam and Dike Rehabilitation-Lawton Valley: FY2011 Assessment, FY 2012 Design and Short-term improvements

³ Improvement costs include 25% engineering and contingency.

⁴ Meter Replacement: FY2015 (1,000 meters), FY2016-2020 (4,000 meters), FY2021-2025 (10,000 meters), FY 2026-2030 (4,000 meters)

⁵ Debt funded improvements include borrowing costs at 6% of total project cost

**CLEAN WATER INFRASTRUCTURE
REPLACEMENT PLAN UPDATE
for the
CITY OF NEWPORT, RHODE ISLAND**

JANUARY 2010



**CLEAN WATER INFRASTRUCTURE
REPLACEMENT PLAN UPDATE
FOR THE
CITY OF NEWPORT, RHODE ISLAND**

JANUARY 2010

Prepared By:

**Wright-Pierce
The Westminster Square Building
10 Dorrance Street, Suite 640
Providence, RI 02903**

**CLEAN WATER INFRASTRUCTURE
REPLACEMENT PLAN UPDATE
FOR THE
CITY OF NEWPORT, RHODE ISLAND**

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APPENDIX F - System-Wide Recommended Capital Improvements Map (36"x60")

Section 1

SECTION 1

INTRODUCTION

1.1 OVERVIEW

This Clean Water Infrastructure Replacement Plan (IRP) Update has been prepared in accordance with the Rules and Regulations for Clean Water Infrastructure Plans promulgated pursuant to the requirements and provisions of RIGL Chapter 46-15.6 Clean Water Infrastructure of the General Laws of Rhode Island, as amended, and maintains consistency with the Clean Water Infrastructure Act, Chapter 46-15.6 of the General Laws of Rhode Island, as amended. The Rhode Island Department of Health (RIDOH) requires that every water supplier develop a long-term management strategy of infrastructure replacement for its water supply system and update every 5 years.

This update was prepared in conformance with applicable provisions of State and Federal laws including the Federal Safe Drinking Water Act (42 USC Section 300 f eq. seq.) and Chapter 46-13 of the General Laws of Rhode Island, Public Drinking Water Supply.

Furthermore, this update maintains consistency with the goals and policies of the Comprehensive Community Plans of the City of Newport, and the Towns of Portsmouth and Middletown.

1.2 PURPOSE OF PLAN

The Infrastructure Replacement Act, Title 46, Chapter 15.6 designates the Rhode Island Department of Health (RIDOH) as the primacy agency to administer the program for Clean Water Infrastructure Plans. This Act requires all water purveyors that on an annual basis purchase or sell over 50 million gallons of water, to prepare, maintain and implement a detailed infrastructure plan of the principal components of the water system. Each water system is required to provide a funding mechanism to replace and/or rehabilitate identified components at the end of their useful life within the framework of the regulations.

Clean Water Infrastructure Plans must be submitted to RIDOH addressing all water system components. In January of 2005, Camp, Dresser, and McKee, Inc. (CDM) completed the last plan update. This served as an update to the previous plan submitted by Maguire Group, Inc. (MGI) in 1999. This original plan detailed four, five-year incremental phases of infrastructure replacement to cover the 20-year planning horizon required by the Clean Water Infrastructure Act. The Act also required this plan to be updated every five years. In June of 2009, the City contracted with Wright-Pierce (W-P) to complete the second five year update of the Plan. Following a detailed engineering evaluation of the City's infrastructure, W-P has developed this document which provides an effective infrastructure rehabilitation management and planning tool for use by the City. By employing the infrastructure replacement/rehabilitation methodologies presented in this document, the City can continue to efficiently and economically serve its existing customer base over the next twenty years.

Because it is a five-year update of a twenty-year program, currently being carried out by the City with ten years remaining, it was necessary to continue to utilize the methodologies presented in the original plan and subsequent 5-year update. These methodologies were also used when extending the planning horizon for an additional 5 years for the rolling 20 year planning horizon. However, in cases where costs are presented for use in financial analyses of the updated Plan, cost values presented have been adjusted to better reflect both costs in 2009 dollars and actual costs realized by the City in recent infrastructure rehabilitation projects.

1.3 GOALS OF PLAN

The goal of this IRP update is to revise the existing infrastructure plan to reflect work completed over the past 5 years and to comply with the provisions of the Act as detailed in the Rules and Regulations for Clean Water Infrastructure Plans. Reviewing the existing Plan and re-evaluating the condition of each of the major system infrastructure components accomplished this goal. Each component was then assigned a remaining useful life expectancy and necessary improvements were defined within the context of the regulations. The costs and schedule for identified improvements or replacements presented in the original plan were appropriately updated where required.

This effort to update the Plan also included reviewing the existing financial data used to establish the original Infrastructure Replacement Fund (IRF). The IRF was updated, as required by the Act, to ensure adequate funds were available to carry out the recommended improvements.

The City also recognizes that maintenance and component replacement should not be deferred until failure of a component necessitates replacement. It is current policy that all system components be continuously maintained to prevent malfunction or unexpected failure as emergency repairs can be costly and inconveniencing to the consumer. To that end, the City has established an infrastructure cataloging system (database) for its pipelines. The initial function was to create a system inventory of the transmission and distribution system piping components. This database was constructed utilizing an excel spreadsheet format to catalog and inventory the pipe system, and was also utilized in conjunction with a pipeline-rating schedule to identify those pipe sections with the highest priority for rehabilitation. Those pipelines with the highest priority for rehabilitation shall be considered by the City for the various improvement alternatives presented in the 2005 plan update.

The 2010 updated plan utilizes the same ranking protocol for pipeline replacement with the database being updated with the pipelines added since the original Plan development in 1999. Recently replaced pipelines are re-prioritized and moved to the "bottom of the list." The 2010 plan consists of four-5 year planning programs to cover the 20 year planning horizon. The costs for these rehabilitated/replaced pipelines have been updated to reflect today's values based on actual costs realized from recent IFR projects.

The City of Newport is committed to providing a safe, reliable, and adequate potable water supply to its customers. RIDOH's Rules and Regulations for Clean Water Infrastructure Plans require that Plans address all principal components of the water supply system. This plan covers all aspects of Newport's water system from supply through treatment to distribution. Improvements have been identified for all aspects of the supply system allowing Newport to provide a safe and high quality water supply to its customers for the next 20 years.

1.4 REPORT ORGANIZATION

The plan update is organized as follows:

- Section 2 describes the City of Newport's existing water supply system components including raw water supply and pumping stations, treatment plants, storage and distribution systems.
- Section 3 contains the evaluation of the system components along with recommended improvements, cost estimates, and an implementation schedule.
- Section 4 provides a financial analysis for the City's IRP update.
- Section 5 provides the references used to prepare the IRP update.

Section 2

SECTION 2

WATER SUPPLY SYSTEM DESCRIPTION

This section describes the City of Newport's water supply system including legal and managerial aspects, and physical infrastructure components of the water system.

2.1 ORGANIZATION AND LEGAL STRUCTURE

The following outlines a description of the organization and management framework of the City's system, along with the legal basis for the system and a description of the system's service territory.

The original water works in Newport started in 1876. The Newport Water Works Company was incorporated in 1881, and was succeeded by the Newport Water Corporation in 1929. Since 1936, the City of Newport has owned and operated the system. The City's legal authority to own and operate the system is stated in the City Charter and was established through RIGL Chapter 46-13-12.1. The Newport Water Division (NWD) is a division of the City of Newport's Department of Utilities and is responsible for the operation and maintenance of the system. The NWD operates as an enterprise fund and is responsible for its own financial accounting independent of the overall city budget. NWD is regulated by the Rhode Island Public Utilities Commission (PUC).

The NWD draws its water supply from a total of nine surface water ponds and storage reservoirs. Two water treatment facilities treat raw water from the reservoirs; Station 1 WTP in Newport and Lawton Valley WTP in Portsmouth. The distribution system services Newport, Middletown and parts of Portsmouth. NWD provides water on a wholesale basis to the Portsmouth Water & Fire District and Naval Station Newport.

NWD is responsible for providing drinking water that meets standards established by the US Environmental Protection Agency (USEPA) and the Rhode Island Department of Health (RIDOH). NWD is licensed by the RIDOH as a Public Water Supplier, License # 1592010. The

Water Division is also required to report to the Rhode Island Water Resources Board.

The Director of Utilities is responsible for the overall administrative management of the Department. The Director is assisted by the Deputy Utilities Director for Engineering, and the Deputy Utilities Director for Finance. Newport Water Division is required to conform to all requirements of the Safe Drinking Water Act (SDWA). The Rhode Island Department of Health and the USEPA ensures that the City complies with the SDWA so that the water supply is kept safe. Figure 2-1 provides a chart of the organization framework of the water system including job classifications and personnel description.

2.2 SERVICE AREA

The NWD serves customers in Newport, Middletown and parts of Portsmouth within the area bounded by the United States Naval Base, the Middletown town line, and the center of West Main Road. The water is sold on a retail basis to residential and non-residential customers in Newport and Middletown and portions of Portsmouth. Bulk sales are made to the U.S. Navy and the Portsmouth Water & Fire District (PWFD), who has purchased all of its water from the NWD since mid-1999. The PWFD then distributes the water to its customers in Portsmouth.

The NWD provides water directly to 100 percent of its residents and businesses in Newport, 75 percent in the Town of Middletown, and 3 percent in the Town of Portsmouth. According to 2009 data, the NWD services 14,449 area water customer accounts consisting of 14,344 residential, commercial, and industrial customer connections, 10 Navy connections, and 95 public connections, and one wholesale customer (PWFD). Among the commercial and industrial customers are the U.S. Naval Station-Newport (USN), and large businesses such as the Newport Housing Authority, the Newport Marriott, the Island Development Corporation, and Raytheon. All new growth in the City is expected to be served by the NWD.

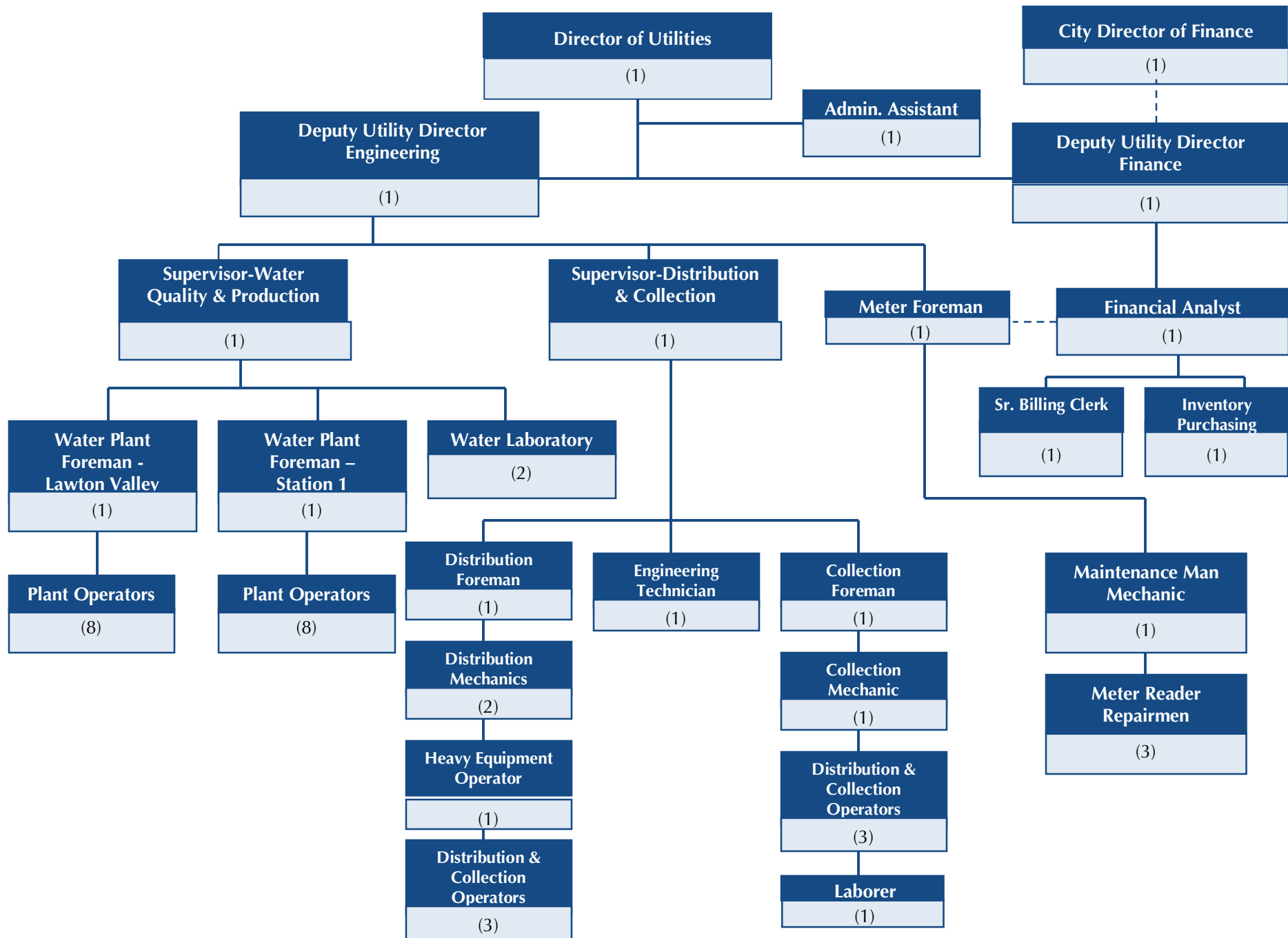


FIGURE 2-1
NEWPORT WATER DIVISION – ORGANIZATIONAL CHART

Note: (#) = # of persons

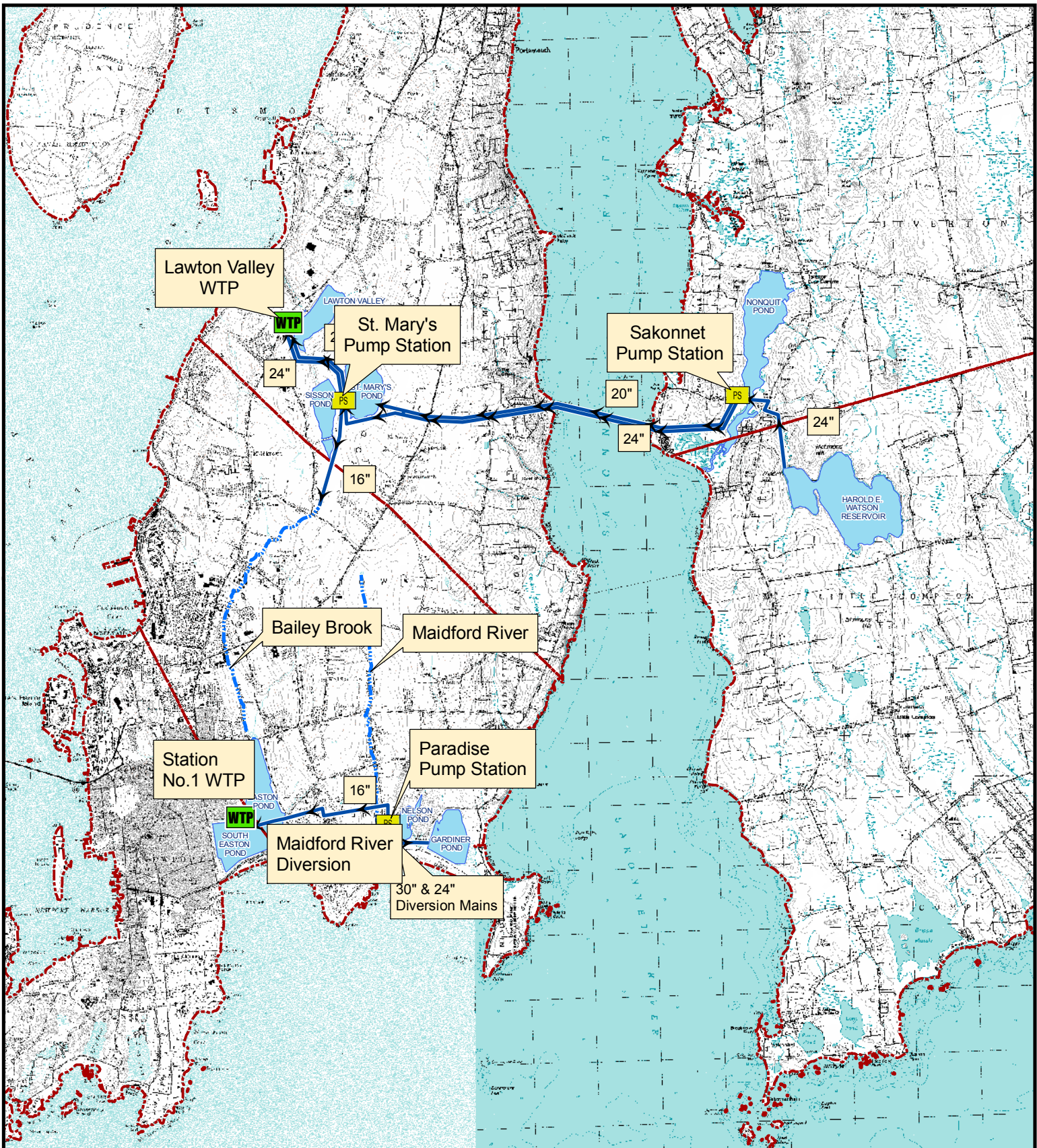
2.3 SYSTEM OVERVIEW

The City of Newport water supply system consists of nine surface water bodies and storage reservoirs that supply two water treatment plants. Seven of the water bodies are located on Aquidneck Island, and two are located on the mainland. Table 2-1 lists the water body name and its location with regard to the watershed area that contributes to the surface water.

TABLE 2-1
SURFACE WATER SOURCES

Surface Water Body	Location of Watershed
Aquidneck Island	
Easton Reservoir South	Newport / Middletown
Easton Reservoir North	Middletown
Nelson Pond	Middletown
Gardiner Pond	Middletown
Lawton Valley Reservoir	Portsmouth
Sisson Pond	Portsmouth
St. Mary's Pond	Portsmouth
Mainland	
Nonquit Pond	Tiverton
Watson Reservoir	Little Compton

The raw water from these water bodies is transmitted to either of the water treatment facilities, one located at the Easton Reservoirs and the other at the Lawton Valley Reservoir. Five of the sources can either directly or indirectly supply the Lawton Valley Water Treatment Plant (LVWTP); the Watson Reservoir, Nonquit Pond, St. Mary's Pond, Lawton Valley Reservoir, and Sisson Pond. Four of the sources can directly feed the Station 1 WTP including the Nelson's and Gardiner Ponds and North and South Easton Reservoirs. The reservoirs are interconnected through a network of pipelines and pumping stations. Figure 2-2 displays the geographic location of the surface water bodies and diagrammatically shows the interconnecting piping and pumping stations. This figure had originally been developed for the 2009 Reservoirs Safe Yield Study. Table 2-2 displays a summary of all raw water supply sources with related data and information.



Source:
USGS topographic maps obtained from RIGIS

0 4,000 8,000
Feet



Newport, RI
Reservoirs Safe Yield Study

Water Transmission Plan

PROJ NO: 11564A DATE: Jan 2010

WRIGHT-PIERCE
Engineering a Better Environment

FIGURE:
2-2

**TABLE 2-2
SUMMARY OF RAW WATER SUPPLY SOURCES**

Supply	Type	Function ⁽⁴⁾	Inflow	Storage (Total/Usable)	Intake ⁽³⁾ (Size/Elevation ¹)	Transmission
Harold E. Watson Reservoir	Surface Water	Storage	Surface Drainage	1,755 MG/1,677 MG	24"/23.68 feet Low-Level/27.68 feet	Sakonnet Pump Station to LVWTP, St. Mary's Pond or Bailey's Brook
Nonquit Pond	Surface Water	Storage	Surface Drainage	565 MG/403 MG	Tower/20"/-2.99 feet	Sakonnet Pump Station to LVWTP, St. Mary's Pond or Bailey's Brook
St. Mary's Pond	Surface Water	Storage and Distribution	Surface Drainage, Watson Reservoir, and Nonquit Pond	205 MG/189 MG	2@20"/169 feet	St. Mary's PS to LVWTP (1@20", 1@24") or 16" Bypass to Bailey's Brook
Lawton Valley Reservoir	Surface Water	Storage and Distribution	Surface Drainage and Sisson Pond	422 MG/422 MG	Tower with 3 intakes Main Low-Level/79.48 feet	Lawton Valley Raw Water PS to LVWTP
Sisson Pond	Surface Water	Storage	Surface Drainage and St. Mary's Pond	117 MG/117MG	24"/146.98 feet	Catches overflow from St. Mary's and flows to Lawton Valley Reservoir through 16" pipe and natural channel. Overflows to Bailey's Brook
North Easton Pond	Surface Water	Storage and Distribution	Surface Drainage, Bailey Brook, St. Mary's Pond, Paradise and Gardiner Ponds	685 MG/650 MG (combined with South)	30"/1.89 feet	Station 1 Raw Water PS to Station 1 WTP
South Easton Pond	Surface Water	Storage and Distribution	North Easton Pond, St. Mary's Pond, Paradise and Gardiner Ponds	685 MG/650 MG (combined with North)	24"/-1.62 feet	Station 1 Raw Water PS to Station 1 WTP
Paradise (Nelson) Pond	Surface Water	Storage	Surface Drainage	100 MG/66 MG	24"/7.39 feet	Paradise PS to North Easton Pond or Station 1 WTP
Gardiner Pond	Surface Water	Storage	Surface Drainage and Maidford River Diversion	425 MG/393 MG *290 MG	24"/2.27 feet	Paradise PS to North Easton Pond or Station 1 WTP

Notes: 1. Vertical Datum is referenced to NAVD 88.

2. *The usable storage of Gardiner Pond is 392.87 MG; however, the current Paradise Pump Station operating hydraulics restrict the actual usable capacity to 290 MG.

3. Intake elevations obtained through bathymetric survey conducted by Apex companies in 2004 and 2008.

4. Raw water sources denoted with a "distribution" function can be drawn upon directly from a treatment facility

2.4 RAW WATER SUPPLY SOURCES

As previously stated, the water supplies can be categorized based on the location of their watershed and the primary location for treatment. Source water from the Aquidneck Island (Portsmouth) watersheds and the Mainland watersheds is primarily treated at the LVWTP in Portsmouth. Five of the nine sources can either directly or indirectly supply the LVWTP:

- Harold E. Watson Reservoir - Little Compton
- Nonquit Pond - Tiverton
- Lawton Valley Reservoir - Portsmouth
- Sisson Pond - Portsmouth
- St. Mary's Pond - Portsmouth

Surface water from the Aquidneck Island (Middletown) watersheds is primarily treated at the Newport Water Treatment Plant (Station 1 WTP) in Newport. Four of the nine sources can directly feed the Station 1 WTP:

- Paradise and Gardiner Ponds - Middletown
- North and South Easton Ponds - Newport / Middletown

2.4.1 Harold E. Watson Reservoir

The Watson Reservoir is a surface water supply that is located in Little Compton and functions solely as a storage reservoir. The reservoir is the largest in the Newport System impounding a total volume of 1,755.07 MG with a useable volume of 1,677.41 MG as determined by Wright-Pierce in the 2009 Safe Yield Study. The drainage area of the supply is approximately 3.34 square miles. The reservoir has a surface area of 371 acres. Water from Watson Reservoir is pumped from the Sakonnet River Pumping Station through a 20-inch and a 24-inch subaqueous pipeline to either St. Mary's Pond, Lawton Valley Reservoir or the Lawton Valley Water Treatment Plant. The 24-inch outlet piping is located at elevation 23.68-feet. However, the low intake pipeline in the Watson Reservoir is at elevation 27.68-feet.

2.4.2 Nonquit Pond

Nonquit Pond is a surface water supply located in Tiverton and functions solely as a storage reservoir. The watershed drainage area of the reservoir is approximately 6.88 square miles distributed between Tiverton (93%) and Little Compton (7%). The surface area of the reservoir is about 196.0 acres. The primary impounded area of the reservoir, from Pond Bridge Road where the dam is located to near the Puncatest Neck Road, is the useable volume for water supply. The area below Pond Bridge Road is tidal, and not available for water supply. The total storage volume of the reservoir is about 565.27 MG. About 403.03 MG is available for pumping to the treatment facilities. The spillway elevation of Nonquit Pond is approximately 4.01-feet, and the intake to the Sakonnet River Pumping Station is approximately -2.99-feet. Water is pumped across the Sakonnet River by the Sakonnet River Pumping Station in the same manner as Watson Reservoir.

2.4.3 St. Mary's Pond

St. Mary's Pond is located in Portsmouth, functioning as both a storage and distribution reservoir. The watershed drainage area of the reservoir is 0.75 square miles. The surface area of the reservoir is 102.6 acres with a total storage capacity of 205.49 MG, 189.03 MG of this being useable volume. St. Mary's Pond receives water pumped across the Sakonnet River from either Nonquit Pond or Watson Reservoir as well as from its own drainage area. Raw water from the St. Mary's Pumping Station flows through two parallel pipelines; a 20-inch pipeline and/or a 24-inch pipeline directly to the LVWTP by gravity, or it can be pumped at a higher rate. The 24-inch pipe is typically used and was placed on-line during December 2007. Water can be transferred from St. Mary's Pond to either the Lawton Valley Reservoir or LVWTP. Water can also be transferred to North Easton Pond through a 16-inch gravity bypass line discharging to the head waters of Bailey Brook, which then flows via a natural swale to North Easton Pond. Two intake pipes draw from elevation 168.78-feet. The spillway elevation of St. Mary's Pond is approximately 175.96-feet and any spillage flows overland to the west and is captured by Sisson Pond. There is no natural channel or pipe interconnecting St. Mary's and Sisson Ponds.

2.4.4 Lawton Valley Reservoir

The Lawton Valley Reservoir is a surface water supply located in Portsmouth. It functions as a storage and distribution reservoir with an area of approximately 1.23 square miles. The surface area of the reservoir is 82.3 acres and the total storage capacity is 421.58 MG, all of which is useable capacity. The reservoir receives inflow from its own drainage area as well as water transferred from Sisson Pond, St. Mary's Pond, or Watson Reservoir and Nonquit Pond. The Lawton Valley Reservoir has a spillway elevation at approximately 109.47-feet and overflows toward the west into Narragansett Bay. Water is pumped from the reservoir to the LVWTP for treatment through a 16-inch intake pipeline. The intake elevation is approximately 79.48-feet.

2.4.5 Sisson Pond

Sisson Pond is located in Portsmouth, and is the smallest of all the reservoirs. It is a surface water supply that has a drainage area of 0.70 square miles. Its watershed is split between Portsmouth (0.54 square miles) and Middletown (0.16 square miles). The surface area of Sisson Pond is 60.5 acres with a total storage capacity of 116.98 MG, with all of this being useable. Together with its own drainage area, Sisson Pond receives any water spilled from St. Mary's Pond. Water from Sisson Pond is discharged through a 24-inch low level outlet pipe at elevation 146.98-feet, which flows through a natural channel (swale) leading to the Lawton Valley Reservoir. Sisson Pond also overflows to Bailey's Brook; however, it is common practice to allow water to flow to Lawton Valley Reservoir to avoid localized flooding of the brook.

2.4.6 Nelson (Paradise) and Gardiner Ponds

Nelson Pond and Gardiner Ponds are surface water supplies located in Middletown, which act as a storage reservoir. Nelson Pond lies approximately 0.2 miles west of Gardiner Pond. Both ponds receive water from their own drainage areas as well as from a diversion structure on the Maidford River. The Maidford River diversion is a 50-foot wide and 10-foot high embankment that directs water to an inlet structure with a 30-inch pipe outlet which discharges to either pond. The combined drainage area for the two ponds (including the Maidford River diversion) is 2.95 square miles. These ponds are essentially filled as a single source since the majority of the drainage area is derived from the Maidford River, although they are operated as separate

supplies. The water from either of these ponds can be pumped to the Newport WTP or North Easton Pond using the Paradise Pumping Station. Both intakes for the Paradise Pumping Station to the ponds are 24-inch diameter. The surface areas of Paradise and Gardiner Ponds are 32.9 acres and 101.1 acres, respectively. The storage capacity of Paradise Pond is 100.47 MG, with a useable capacity of 66 MG. The storage capacity of Gardiner Pond is 425.69 MG, with a useable capacity of 392.87 MG; however, the current Paradise Pump Station operating hydraulics limit the actual useable capacity of Gardiner Pond to 290 MG.

Paradise Pond has a spillway elevation of approximately 15.49-feet and overflows to the drainage channel surrounding the ponds discharging to Third Beach. The intake from Paradise Pond to the Paradise Pumping Station is at elevation 7.39-feet. Although there is no spillway, Gardiner Pond has an overflow elevation of approximately 15.01-feet and also overflows to the drainage channel surrounding the pond. The tower-type intake from Gardiner Pond to the Paradise Pumping Station is at elevation 2.27-feet.

2.4.7 North and South Easton Ponds

North and South Easton Ponds are located adjacent to each other on the Newport-Middletown Line, separated by an earthen embankment called Middle Dam. Both ponds act as storage and distribution reservoirs, with a total combined storage capacity of 685.14 MG, and a useable capacity of 650.76 MG. The watershed area contributing to the North and South Easton Ponds is 4.13 square miles combined and the surface area is 260.2 acres. The watershed of the ponds is split between Middletown (3.13 square miles) and Newport (1.00 square miles). The two ponds collect runoff from Bailey Brook watershed as well as any water discharged from St. Mary's Pumping Station. North Easton Pond has a spillway elevation of approximately 10.76-feet, and overflows to South Easton Pond. The spillway for the South Easton Pond is at elevation 8.56-feet, and overflows to Easton Bay.

Water from North Easton Pond and South Easton Pond flows by gravity to the low lift pumping station through separate intake pipes. North Easton flows through a 30-inch Johnson Style intake and South Easton flow through a 24-inch intake. The raw water intake from North Easton

Pond is at elevation 1.89-feet, while the intake from South Easton Pond is at elevation -1.62-feet. Raw water from both ponds is treated at the Station 1 WTP.

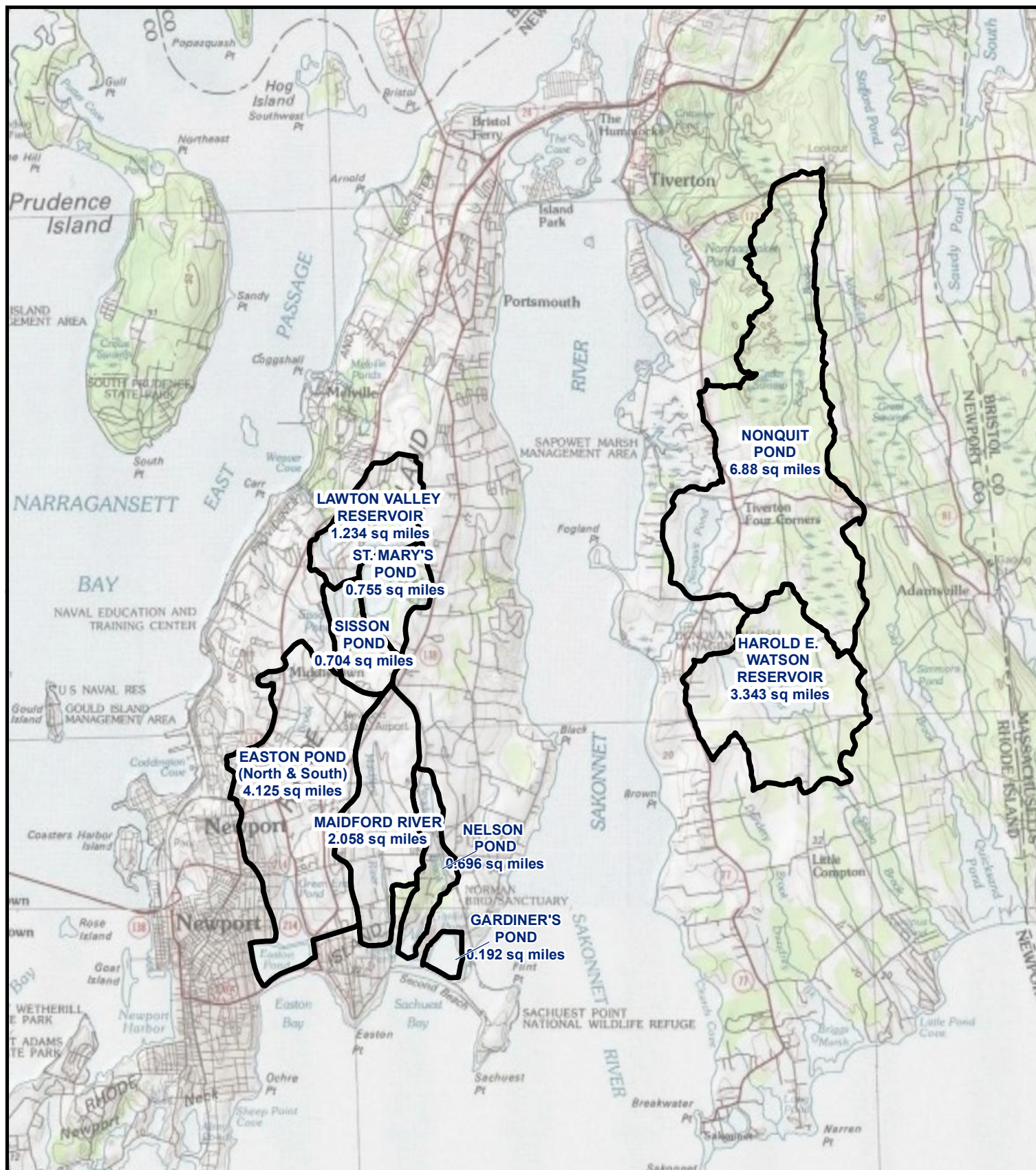
A summary of the characteristics of the surface water sources is presented in Table 2-3.

TABLE 2-3
CHARACTERISTICS OF SURFACE WATER SOURCES

Surface Water Source	Watershed Drainage Area (sq. mi.)	Water Surface Area (acres)	Total Storage (MG)	Usable Storage (MG)
<i>Newport - Middletown</i>				
Easton Ponds - North and South	4.13	260.2	685.14	650.76
Maidford River	2.06			
Nelson Pond	0.70	32.9	100.47	66.00
Gardiner Pond	0.19	101.1	425.69	290.00*
<i>Portsmouth</i>				
Lawton Valley Reservoir	1.23	82.3	421.58	421.58
Sisson Pond	0.70	60.5	116.98	116.98
St. Mary's Pond	0.75	102.6	205.49	189.03
<i>Mainland</i>				
Nonquit Pond	6.88	196.0	565.27	403.03
Watson Reservoir	3.34	371.0	1,755.07	1,677.41
Total	19.98	1,206.6	4,275.69	3,814.79

**The usable storage of Gardiner Pond is 392.87 MG; however, the current Paradise Pump Station operating hydraulics restrict the actual useable capacity to 290 MG.*

Figure 2-3 is a map of the watershed delineations for the NWD surface water supply sources. This figure had originally been developed for the 2009 Reservoirs Safe Yield Study.



Source:
USGS topographic maps acquired from the National Geographic Society

0 5,000 10,000
Feet



Newport, RI Reservoirs Safe Yield Study

Watershed Delineations

PROJ NO: 11564A DATE: Jan 2010

WRIGHT-PIERCE
Engineering a Better Environment

FIGURE:
2-3

2.5 RAW WATER PUMPING, TRANSMISSION, AND METERING

The Newport Water System has five pumping stations that supply water to the two WTPs. Three of the pump stations directly feed the Lawton Valley WTP:

- Sakonnet River Pump Station
- St. Mary's Pump Station
- Lawton Valley Raw Water Pump Station

Two of the pump stations directly feed the Station 1 WTP:

- Paradise Pump Station
- Station 1 Raw Water Pump Station

Table 2-4 provides a summary of the City's raw water pump stations:

TABLE 2-4
SUMMARY OF RAW WATER PUMPING STATIONS

Pump Station	From	To	Pump Type	Pump Capacity
Sakonnet River	Nonquit Pond and Watson Reservoir	Lawton Valley WTP, St. Mary's Pond, and Bailey's Brook	Horizontal, constant speed	2 @ 8 MGD 1 @ 6 MGD
St. Mary's	St. Mary's Pond	Lawton Valley WTP	Vertical Turbine, constant speed	1 @ 5 MGD 1 @ 7.5 MGD
Lawton Valley	Lawton Valley Reservoir	Lawton Valley WTP	Horizontal, constant speed	1 @ 2 MGD 1 @ 4 MGD
Paradise	Paradise and Gardner Ponds	Station 1 WTP	Horizontal, variable speed	2 @ 4.5 MGD
Station 1	North and South Easton Ponds	Station 1 WTP	Vertical Turbine, variable speed	2 @ 2 MGD 2 @ 4 MGD

2.5.1 Sakonnet River Pump Station

The Sakonnet River Pump Station, constructed in 1994, is located adjacent to Nonquit Pond in Tiverton. The new pump station replaced the existing World War II era station. It was designed to fully utilize the safe yield of Nonquit Pond and Watson Reservoir and to supply the maximum day demand for short periods if island sources become depleted. The 24-inch pipeline compliments the older existing 20-inch pipeline by providing redundancy for the two off-island supply sources. The two pipelines are interconnected at the pumping station, on both sides of the River, and at the system high point in Portsmouth. The 24-inch section terminates at the system high point, and the 30-inch section runs to the St. Mary's Pumping Station from the high point. From the high point, flow can travel through either the 30-inch section or through the existing 16-inch pipeline that runs into the east side of St. Mary's Pond. The Sakonnet Pump Station provides raw water transfer flexibility by allowing for direct pumping to the LVWTP, and also for replenishing of island sources depleted by summertime demand.

Raw water is pumped from a 24-inch reinforced concrete suction line, and a small length of 30-inch ductile iron pipe common with Nonquit Pond at Watson Reservoir. At Nonquit Pond, water is drawn through a 20-inch cast iron suction line, and also with the 30-inch pipe common with Watson Reservoir. The water is discharged from the pump station through approximately 19,000 feet of 24-inch ductile iron (and a small section of 30-inch ductile iron) to the LVWTP, Lawton Valley Reservoir, St. Mary's Pond, or St. Mary's Pump Station. The pump station has two horizontal constant speed 8 million gallons per day (MGD) pumps and one constant speed 6 MGD pump. The Sakonnet River Pump Station was evaluated by Wright-Pierce (W-P) on September 24 and October 14, 2009 as summarized in the technical memorandum in Appendix A.

2.5.2 St. Mary's Pump Station

St. Mary's Pumping Station was constructed in the late 1960's and was designed to increase raw water flow to the LVWTP. It is located adjacent to St. Mary's Pond in Portsmouth. It pumps raw water from two 20-inch cast iron suction lines, and then directs the raw water through two parallel pipelines of approximately 5,450-feet which are not typically used at the same time; an

older 20-inch transite main and or a newer 24-inch ductile iron main. The 24-inch main was placed on-line December 2007. The two parallel pipelines eventually converge with the pipe line from the Lawton Valley Reservoir, and raw water then flows into approximately 220-feet of 30-inch ductile iron main to the plant's rapid mix chambers. The pump station has two constant speed vertical turbine pumps, with capacities of 5.0 MGD and 7.5 MGD. The station's pumps are rarely used because the new 24-inch main has a hydraulic capacity of approximately 7.0 MGD when flowing by gravity. With pumping, the hydraulic capacity is increased to approximately 12.0 MGD. Raw water can also be transferred from St. Mary's Pond to Station 1 WTP via Bailey Brook through a 16-inch gravity bypass line that discharges to the head waters of Bailey Brook, and subsequently flows via a natural swale to North Easton Pond. Typically, NWD utilizes gravity flow to save on power costs. St. Mary's Pump Station was evaluated by W-P on September 24 and October 14, 2009 as summarized in the technical memorandum in Appendix A.

2.5.3 Lawton Valley Raw Water Pump Station

The Lawton Valley Raw Water Pumping Station is located at the center of the toe of the Lawton Valley Reservoir Dam in Portsmouth. Raw water is pumped to the LVWTP through approximately 950 feet of 16-inch cast iron main to a tee where it is normally blended with raw water from St. Mary's 20-inch cast iron main. There is approximately 220 feet of 30-inch main to Lawton Valley rapid mix chambers. The station is equipped with two horizontal split-case pumps; a constant speed 2 MGD pump, and a constant speed 4 MGD pump. The 2 MGD pump is rarely operated, and the main means of pumping to the WTP is via the 4 MGD pump. This pump station was evaluated and inspected by W-P on September 24 and October 14, 2009 as summarized in the technical memorandum in Appendix A.

2.5.4 Paradise Pump Station

The Paradise Pump Station is located in Middletown adjacent to Paradise Pond. The station is utilized to transfer water from Gardiner and Nelson (Paradise) Ponds through approximately 2 miles of 16-inch cast iron transmission main to the Station 1 WTP. The station contains two horizontal variable speed 4.5 MGD pumps. One is typically used as a standby while the other is

operational. A new raw water storage tank and rehabilitation of the suction well was completed in 2005. This pump station was evaluated on September 24 and October 14, 2009 as summarized in the technical memorandum in Appendix A.

2.5.5 Station 1 Raw Water Pump Station

The Station 1 Raw Water Pumping Station is located in the old ozone building adjacent to the Station 1 WTP and North Easton Pond. Raw water from North and South Easton Ponds is lifted into Station 1 WTP through a 30-inch main. The station is equipped with two vertical turbine pumps with a 2 MGD capacity, and also two 4 MGD vertical turbine pumps. The building houses a 110 KW diesel engine generator with an automatic transfer switch in the event of a failure. All four pumps have variable speed drives that were recently installed in 2004. A summary of the W-P inspection and evaluation is attached in Appendix A.

2.5.6 Raw Water Metering

Raw water drawn from the NWD's supply sources is either measured by flow meters or by utilizing run time of raw water pumps. The Sakonnet River Pump Station has a magnetic flow meter. The flow of raw water at the Paradise Pumping Station is measured by a Venturi meter and totalized by a flow recorder. Flow through the St. Mary's Pump Station to the LVWTP is determined using the WTP raw water meter. Flow to Bailey's Brook from St. Mary's Pond is estimated. Raw water flow is equivalent to finished water flow plus that used within the WTPs. Raw water metering is summarized in Table 2-5.

**TABLE 2-5
SUMMARY OF RAW WATER METERING**

Raw Water Measured	Location	Type	Date of Installation
Watson and Nonquit Ponds	Sakonnet River Pump Station	Magnetic	1994
Paradise and Gardiner Ponds	Paradise Pump Station	Venturi	1965
Lawton Valley, St. Mary's, Watson and Nonquit Ponds	Lawton Valley WTP	Venturi	1968
South and North Easton Ponds, Gardiner and Paradise Ponds	Station 1 Raw Water Pump Building	Venturi	1979

2.6 WATER TREATMENT FACILITIES

The City of Newport Water Division operates two surface water treatment plants:

- Lawton Valley - Portsmouth
- Station 1 - Newport

2.6.1 Lawton Valley WTP

The Lawton Valley Water Treatment Plant was constructed in 1942 by the U.S. Navy to serve the expanding naval facilities on Aquidneck Island. The WTP was enlarged in 1965 to its current capacity of 7 MGD by adding a third process train. Rehabilitation work was completed in 1991 as part of the Station 1 WTP improvements contract. Four filters were converted to dual media technology, spalling concrete was repaired in the sedimentation basins, a chlorine leak detection system was installed, and standby power was installed in the WTP booster station as well as Forest Avenue Pump Station. The WTP is a conventional surface water treatment plant that uses alum as a coagulant in its two rapid mix tanks. The supernatant overflows into collection troughs, then to the six dual media filters. Caustic and fluoride are added to the filtered water as it flows to the clearwell. Filtered water is chlorinated as it is pumped from the clearwell to the finished water reservoir. The Lawton Valley WTP incorporates the following processes:

- Preoxidation / Predisinfection
- Pretreatment with alum (coagulant)
- Rapid Mix
- Clari-Flocculation (called coagulation basin)
- Settling Basins
- Dual Media Filters
- Disinfection, Fluoridation, and pH adjustment

Figure 2-4 is a process flow diagram of the Lawton Valley WTP. An inventory of mechanical equipment is summarized in Table 2-6 and chemical systems are summarized in Table 2-7.

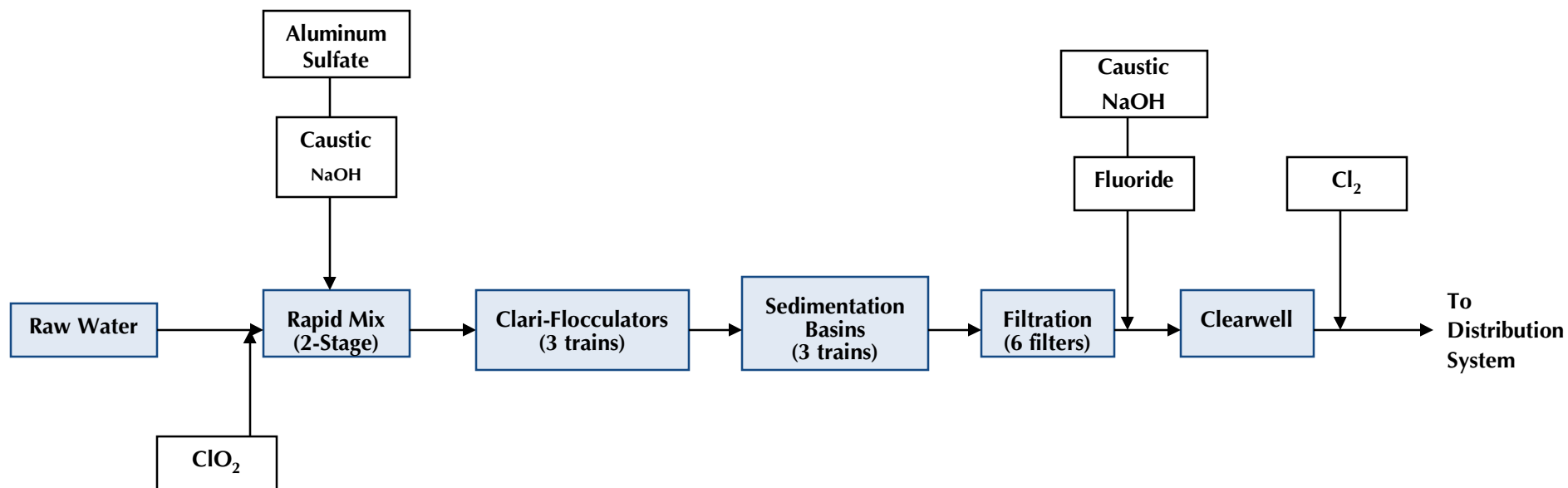


FIGURE 2-4
LAWTON VALLEY WATER TREATMENT PLANT
PROCESS FLOW DIAGRAM

TABLE 2-6
LAWTON VALLEY WTP - PROCESS EQUIPMENT INVENTORY

Equipment	Location	Type	Date Installation	Size / Capacity	Manufacturer	Motor
<i>Rapid Mix</i>						
Rapid Mixers 1 and 2	Operations Building - Main Floor	Mechanical	1942	6 RPM	N/A	1/2 hp
<i>Clari-Flocculator</i>						
Flocculator 1 and 2	Clari-Flocculator Basin 1 and 2	Horizontal Shaft	1942	DNA	DNA	DNA
Flocculator 3	Clari-Flocculator Basin 3	Horizontal Shaft	1965	DNA	DNA	DNA
<i>Filtration</i>						
Washwater Flow Rate Controller	Operations Building - Pipe Gallery	Venturi	1942	DNA	DNA	DNA
Surface Wash Pump	Operations Building - Basement	Horizontal Split Case	DNA	375 GPM	DNA	DNA
Backwash Meter	Operations Building - Basement	Venturi	1942	N/A	DNA	N/A
<i>Finished Water Pumping</i>						
High Service Pump 1	Operations Building - Basement	Horizontal Split Case	DNA	2 MGD	Allis Chalmers	DNA
High Service Pump 1	Operations Building - Basement	Horizontal Split Case	DNA	4 MGD	Allis Chalmers	DNA
High Service Pump 3	Operations Building - Basement	Horizontal Split Case	DNA	6 MGD	Delaval	DNA
Lawton Valley Standpipe Pump 1	Finished Water Pump House	DNA	1971/1972	6 MGD	Worthington	DNA
Lawton Valley Standpipe Pump 2	Finished Water Pump House	DNA	1971/1972	6 MGD	Worthington	DNA
Finished Water Meter	Outside Operations Building	Venturi	1942	DNA	Fischer	N/A

Legend:

DNA = Data Not Available

N/A = Not Applicable

**Data obtained from previous IRP Update*

**TABLE 2-7
LAWTON VALLEY WTP - CHEMICAL FEED SYSTEMS**

	Chemical	Aluminum Sulfate	Sodium Chlorite	Caustic (NaOH)	Sodium Fluorosilicate	Chlorine
General	<i>Purpose</i>	Coagulant	Used to generate ClO ₂	pH adjustment	Fluoridation	Disinfection
	<i>Location of Feed</i>	Rapid Mix	To Chlorine Dioxide	Rapid Mix (Pre) Filter Effluent (Post)	Filter Effluent	Rapid Mix Tanks Before high service pumps
	<i>Form</i>	Liquid	Liquid	Liquid	Dry	Gas
	<i>Delivery</i>	Bulk	Bulk	Bulk	50 lb. bags	Ton cylinders
Storage	<i>Storage</i>	Storage and Scale House	Outside	Storage and Scale House	Bags on pallets, upper floor	Storage and Scale House
	<i>Bulk Tank (volume, type)</i>	(2) @ 5,000 gal. cedar tanks	(1) 4,400 gal. poly	6,300 gallons	Hoppers on upper floor	N/A
	<i>Containment</i>	No	Double-wall	Yes	No	N/A
	<i>Scale</i>	No	No	No	No	Yes
	<i>Day Tank (volume, type)</i>	No	Yes	250 gallons	No	N/A
	<i>Transfer Pump (flow/head)</i>	N/A	Yes	N/A	N/A	N/A
	<i>Containment</i>	N/A	Yes	Yes	N/A	N/A
Feed System	<i>Scale</i>	N/A	No	N/A	N/A	N/A
	<i>Pump Capacity</i>	DNA	MR LMI 60 GPD	W & T Mixer Systems to Rapid Mix (Pre) 1 to Rapid Mix (Post)	1 BIF helix feeder system	3 vacuum regulators/2 eductors 1 to chlorine dioxide 1 to feed free chlorine 1 standby
	<i>Standby Pump</i>	Yes	Yes, manual switchover	post pH control	No	N/A
	<i>Calibration Tube</i>	No	Yes	No	No	N/A
	<i>Adjustment Method</i>	Manual	Manual	SCADA or Manual	Manual	Manual - with ability to be flow paced
	<i>Dose Range</i>	42-50 mg/L	DNA	Range: 40-80 mg/L	DNA	0-500 lbs. per day
	<i>Dilution</i>	No	No	No	No	No
Record Keeping	<i>Deliveries (Date/Volumes)</i>	Yes	Yes	Yes	Yes	Yes
	<i>Tank Weights</i>	N/A	N/A	N/A	No	Yes
	<i>Tank Levels</i>	Yes	Yes	No	No	N/A
	<i>Calibrated Dose</i>	No	No	No	No	No

Legend:

DNA = Data Not Available

N/A = Not Applicable

*Data obtained from previous IRP Update

Due to the fact that the LVWTP is being replaced within the next 5 years, WP's inspection and evaluation of this facility was cursory. Detailed investigations of pump stations, storage tanks, and reservoirs were given priority during field investigations.

2.6.1.1 Rapid Mix

Raw water is supplied to the rapid mix basins consisting of two chambers, each 5 feet wide by 5 feet long by 12 feet deep with a total volume of 300 cubic feet. Each chamber has a single speed mixer rated at ½ horsepower (hp) at 6 rpm. The rapid mixers are submerged and therefore were not visually inspected. The motor drives are originals and are outdated having little useful life remaining.

2.6.1.2 Clari-Flocculator

After rapid mix, the flow is split to three clari-flocculator basins. Two of the basins (1 and 2) are part of the original construction, while basin 3 was added in the 1965 improvements. The clari-flocculators are Permutit-type, a form of sludge blanket clarifier, which serves as both flocculation and pre-clarification at this facility. This basin utilizes flocculation paddle wheels on a single shaft, centered and running the length of the basin, covered by a triangular hood. The influent trough lies directly above the paddle shaft and drops influent flow into the flocculation paddle area. Water flows out under the hood and sludge settles to the bottom, while the clarified water rises and enters lateral effluent troughs.

Each basin is 46 feet long by 26 feet 10 inches long, with a water depth of 11 feet, for a total volume of 101,435 gallons each. The flocculation area under the hood has a volume of 26,500 gallons. Total hydraulic detention time is 1 hour 50 minutes at 4 MGD, and 55 minutes at 8 MGD. The flocculation area has hydraulic detention times of 29 minutes at 4 MGD, and 14 minutes at 8 MGD. The basins have a peak settling rate of 1.75 gpm/sf at a peak flow rate of 8 MGD. Sludge collects in channels at the side; the channel opens for 7 minutes every 20 minutes. In addition, there is an automatic blowdown to clean the channel every 4 hours. The collected solids are discharged to the residuals management storage tank, screened, and then pumped to the sanitary sewer collection system. In 2005, all equipment associated with the clari-

flocculators was deemed in poor condition with little remaining useful life. Due to the age of the equipment, the drives require frequent maintenance and parts are difficult to obtain. There is extensive corrosion on the equipment. The hoods for basins 1 and 2 were replaced in 1991, and are severely corroded. The hood for basin 3 was replaced in 1995.

2.6.1.3 Sedimentation

After the clari-flocculators, flow splits between three sedimentation basins. Each basin has two levels or "trays" stacked on top of each other. The water flows from the coagulation basins away from the plant along a bottom tray, and then up and back towards the plant in the top tray to a collector channel. Each settling basin has dimensions of 65 feet 6 inches long by 25 feet 6 inches wide and a water depth of 19 feet (water surface to bottom of lower tray). The top tray has a water depth of approximately 8.3 to 8.8 feet, and the bottom tray has a water depth of 10 feet. Each basin has a total volume of 237,400 gallons. Hydraulic detention time is 4 hours 16 minutes at 4 MGD and 2 hours 8 minutes at 8 MGD. Surface settling rate is 0.28 gpm/sf at 4 MGD and 0.55 gpm/sf at 8 MGD.

2.6.1.4 Filtration

From the sedimentation basins, flow is sent to six dual media filters. Filters 1 through 4 were constructed in 1942, and filters 5 and 6 were constructed in 1965. Filters 1 through 4 have dimensions of 24 feet by 18 feet with a water depth of 6.5 feet, and a volume of 21,000 gallons. Filters 5 and 6 have dimensions of 24 feet 10 inches by 21 feet with a water depth of 8.5 feet, and a volume of 32,240 gallons. Each filter has an effluent rate control valve.

Filters 1 through 4 have 18 inches of support gravel, 10 inches of silica sand (effective size 0.35 to 0.55), and 20 inches of anthracite coal. Filters 5 and 6 are Leopold Block. The filtration rate is 0.99 gpm/sf at 4 MGD and 2.0 gpm/sf at 8 MGD. With one filter offline, the filtration rate at 8 MGD is 2.5 gpm/sf. The filters have 7 feet of available head loss. For backwashing, washwater is taken from the discharge side of the finished water pumps. This line has a flow control valve and a venturi meter. Approximately 25% of backwash water is discharged to the Residuals Management System at the plant which discharges to the City of Newport WPC. The remainder

of the backwash water is discharged to a vegetated wetlands constructed and placed online in 2009 with final discharge to the Lawton Valley Brook.

2.6.1.5 Chemical Systems

Aluminum Sulfate

Aluminum sulfate (alum) is used as the primary coagulant and is typically added to a mixing chamber, which feeds Rapid Mix Tank 1. The aluminum sulfate system is summarized in Table 2-7 and consists of two bulk tanks, three metering pumps, and a mixing tank.

Sodium Chlorite

Sodium chlorite is mixed with chlorine gas to make chlorine dioxide. The chlorine dioxide system was not installed when the Lawton Valley WTP was originally constructed. The sodium chlorite and chlorine dioxide systems were installed and are currently operated by a contract operator (International Dioxide, Inc.). The sodium chlorite system consists of a bulk tank, transfer pump, and a day tank.

Caustic (Sodium Hydroxide)

Sodium hydroxide is utilized for pH adjustment. The caustic system at the LVWTP consists of a 6,300 gallon capacity bulk storage, and a 250 gallon capacity day tank that is refilled via a transfer pump. There are three feed pumps from the day tank and can be operated through the SCADA system or manually; two plumbed for post treatment pH control and one for pre-treatment pH control. The caustic system is summarized in Table 2-7.

Sodium Fluorosilicate

Sodium fluorosilicate (fluoride) is utilized to add fluoride to the finished water to promote dental health. The fluoride system is summarized in Table 2-7 and consists of a hopper, feeder system, and mix tank.

Chlorine Gas

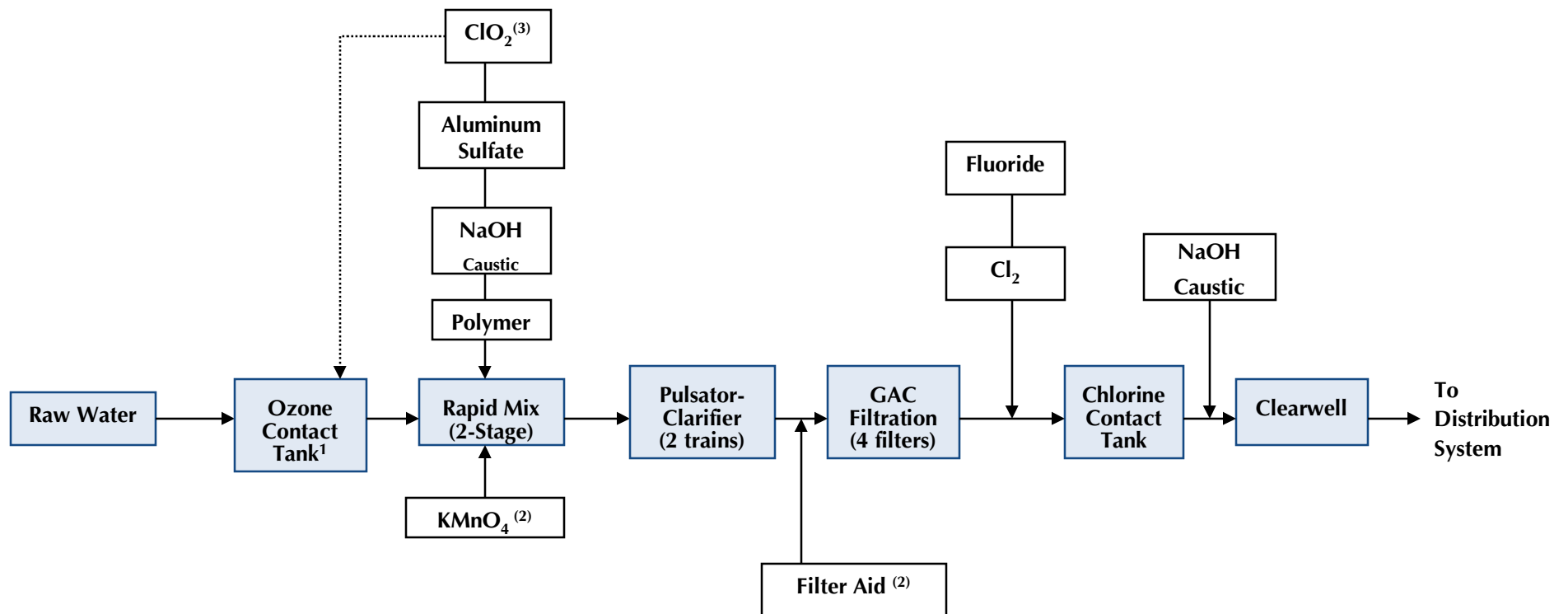
Chlorine is used as a disinfectant and has the ability to be fed to multiple locations; chlorine dioxide generator, rapid mix tanks, or prior to the finished water pumps. Since the chlorine dioxide system was installed, chlorine dioxide is currently fed to the rapid mix tanks. Summarized in Table 2-7, the chlorine system consists of one ton cylinders, vacuum regulators, and eductors. Approximately 5 years ago, the chlorine gas system was updated with new piping, vacuum regulators, feed controls, eductors and nitrogen actuated shut-off systems. The location of the vacuum regulators was also changed to minimize the amount of pressure piping. At this time, the City is in the process of investigating process alternatives to reduce the formation of disinfection by-products in the distribution system.

2.6.2 Station 1 WTP

The Station 1 WTP (also referred to as the Newport WTP) is located adjacent to North Easton Pond at the southern end of Aquidneck Island in Newport. The Station 1 WTP was replaced in 1991. The replacement included changing the treatment process from conventional sedimentation to pulsator-type clarifiers. The plant has an average design flow of 6 MGD, and a maximum design flow of 9 MGD. The Station 1 WTP is operated with the following processes:

- Predisinfection
- Pretreatment with coagulant, polymer and caustic
- Rapid mix tanks
- Pulsator clarifiers
- GAC filters
- Postdisinfection
- Chlorine contact tanks
- Fluoridation and pH adjustment

Figure 2-5 provides a process flow diagram of the Station 1 WTP processes. An inventory of mechanical equipment is summarized in Table 2-8 and chemical systems are summarized in Table 2-9.



Notes:

1. No ozone addition.
2. Systems/application points available but not in use.
3. Chlorine dioxide is generally fed to the ozone building during the summer months only.

TABLE 2-8
STATION 1 WTP - PROCESS EQUIPMENT INVENTORY

Equipment	Location	Type	Date Installation	Size / Capacity	Manufacturer	Motor
Rapid Mix						
Rapid Mixers 1 and 2	Operations Building - First Floor	Mechanical	1991	43-125 RPM	Philadelphia	15 hp, 1750 rpm with VFD's
Pulsator-Clarifier						
Vacuum Pumps 1, 2, 3 and 4	Operations Building - First Floor	Vacuum	1991	DNA	Inflico-Degremont	DNA
Sludge Pumps 1 and 2	Operations Building - Pipe Gallery	Horizontal-End Suction Centrifugal	1991	120 gpm - 20' TDH	Aurora	1.5 hp, 1160 rpm, Unimount Motor
Sludge Meter	Operations Building - Pipe Gallery	Magmeter	1991	DNA	Ficher & Porter	N/A
Clarifier Drain Pump	Operations Building - Pipe Gallery	End	1991	300 gpm - 30' TDH	Hayes Pump	2 hp
Air Compressor	Operations Building - Pipe Gallery	Two Stage	1991	12 SCFM	Speed Air	3 hp
Filtration						
Backwash Pumps 1 and 2	Operations Building - Pump Room	Horizontal Split Case - Double Suction	1991	5200 gpm - 44' TDH	Fairbanks Morse	75 hp, 1190 rpm
Backwash Meter	Operations Building - Pump Room	Flow Tube	1991	DNA	DNA	N/A
Filtered Water Meter	Operations Building - Pipe Gallery	Flow Tube	1991	DNA	DNA	N/A
Air Blowers 1 and 2	Operations Building - Blower Room	Positive Displacement	1991	1300 SCFM	Sutorbilt	60 hp, 1750 rpm
Mixers	Spent Washwater Tank	Mechanical	1991	DNA	Flygt	DNA
Spent Washwater Pumps 1 and 2	Operations Building - Basement	Self-Priming Centrifugal	1991	340 gpm - 40' TDH	Fairbanks Morse	10 hp, 1750 rpm
Washwater Recycle Meter	Operations Building - Basement	Magmeter	1991	DNA	DNA	N/A
Finished Water Pumping and Measurement						
High Service Pumps 1 and 3	Operations Building - Pump Room	Horizontal Split Case - Double Suction	1991	2100 gpm - 204' TDH	ITT A/C Pump	200 hp, 1770 rpm
High Service Pumps 2 and 4	Operations Building - Pump Room	Horizontal Split Case - Double Suction	1991	2100 gpm - 204' TDH	ITT A/C Pump	200 hp, 1770 rpm
High Service Meter	Operations Building - Pump Room	Magmeter	1991	DNA	Fischer & Porter	N/A
Lawton Valley Booster Pumps 1 and 2	Operations Building - Pump Room	Horizontal Split Case - Double Suction	1991	1050 gpm - 130' TDH	ITT A/C Pump	60 hp, 1770 rpm
Lawton Valley Meter	Operations Building - Pump Room	Magmeter	1991	DNA	DNA	N/A
Surge Tanks 1 and 2	Operations Building - Pump Room	DNA	1991	226 cf, 150 psi	Fluid Kinetics Corp.	N/A
Clearwell Drain Pump	Clearwell	Centrifugal	1991	150 gpm - 25' TDH	Fairbanks Morse	3 hp
Air Compressor	Operations Building - Pipe Gallery	DNA	1991	DNA	Ingersoll Rand	DNA
Sample Pumps						
Raw Water Sample Pump	Operations Building - Basement	Centrifugal	1995	DNA	Pacer	1 hp
Chlorine Filter Effluent Sample Pump	Operations Building - Pump Room	Centrifugal	1996	DNA	Pacer	1 hp
Filter Effluent Sample Pump	Operations Building - Pump Room	Centrifugal	2003	DNA	Pacer	1 hp
Rapid Mix Effluent Sample Pump	Operations Building - Pipe Gallery	Centrifugal	2002	DNA	Pacer	1 hp

Legend:

DNA = Data Not Available

N/A = Not Applicable

*Data obtained from previous IRP Update

TABLE 2-9
STATION 1 WTP - CHEMICAL FEED SYSTEMS

	Chemical	Aluminum Sulfate	Potassium Permanganate	Betz CP210P	Sodium Chlorite	Caustic (NaOH)	Filter Aid	Sodium Fluorosilicate	Chlorine
General	<i>Purpose</i>	Coagulant	Taste and Odor	Coagulant Aid	For ClO ₂ generation, with ClO ₂ for disinfection, T&O, Filter Control	pH adjustment	Filtration Aid	Fluoridation	Disinfection
	<i>Location of Feed</i>	30" Raw Water, Rapid Mix Tank 1, Rapid Mix Tank 2	Rapid Mix Tanks 1 and 2, Rapid Mix Effluent	Rapid Mix Tank 2, Rapid Mix Effluent	To ClO ₂ makeup, with ClO ₂ fed to rapid mix effluent during winter and to ozone contactor at other times of the year.	30" Raw Water, Rapid Mix Tanks 1 and 2, Chlorine Contact Tank Outlet	Clarifier Effluent	Chlorine Contact Tank Outlet	Rapid Mix Tank 1, Backwash Water, Recycle Water, Influent to Chlorine Contact Tank
	<i>Form</i>	Liquid	Dry	Dry	Liquid	Liquid	Dry	Dry	Gas
	<i>Delivery</i>	Bulk	Drum	50 lb. bags	Bulk	Bulk	50 lb. bags	50 lb. bags	1-ton cylinders
Storage	<i>Storage</i>	Basement	First Floor	First Floor	First Floor	First Floor	Basement	Separate Room	Separate Room
	<i>Bulk Tank (volume, type)</i>	(2) 5,000 gal. steel tanks	(1) 1,400 gal. steel tank	Solution Tank system	Poly	7,600 gallons	(1) 400 gal. tank	N/A	N/A
	<i>Containment (bulk)</i>	Yes	Yes	Yes	Yes	Yes	Yes	Separate Room	Yes
	<i>Scale</i>	No	No	No	No	No	No	Yes	Yes
	<i>Day Tank (volume, type)</i>	(1) 300 gal. steel tank	N/A	N/A	Yes	250 gallons	(1) 600 gal. tank	No	No
	<i>Transfer Pump (flow/head)</i>	25 gpm - 27" TDH	N/A	N/A	Yes	N/A	No	N/A	N/A
	<i>Containment (day)</i>	Yes	N/A	N/A	Yes	Yes	N/A	N/A	N/A
Feed System	<i>Scale</i>	No	N/A	N/A	No	N/A	N/A	N/A	N/A
	<i>Pump Capacity</i>	(2) 1.3-35.2 gph @ 40 psi	(2) 6-92 gph @ 30 psi	(2) 1.0-75 gph @ 40 psi	(1) 216 gpd	DNA	(2) 1-15 gph @ 40 psi	(2) 104-313 gph @ 30 psi	(Rapid Mix) 5-16 gpd (Wash) 2.6 gpd (Wash Recycle) 28.8 gpd (Filt. Water) 12-315 gpd
	<i>Standby Pump</i>	Yes	Yes	Yes	Yes, 96 gpd. manual switchover	Yes	Yes	Yes	N/A
	<i>Calibration Tube</i>	Yes	Yes	Yes	Yes	Yes	No	No	No
	<i>Adjustment Method</i>	Flow paced off raw	Flow paced off raw	Flow paced off raw	Flow paced off raw	Flow paced	Flow pace off raw	Flow paced off raw	Flow paced off raw
	<i>Dose Range</i>	7-60 mg/L	1-5 mg/L	0.02-0.5 mg/L	1.5-2.0 mg/L	Range: 40-80 mg/L	0.02-0.10 mg/L	1 mg/L	(Rapid Mix) 0.5-4.2 mg/L (Wash) 5 mg/L (Wash Recycle) 4 mg/L (Filt. Water) 4 mg/L
Record Keeping	<i>Dilution</i>	No	Yes	0.25%	No	No	0.25%	N/A	Eductor
	<i>Deliveries (Date/Volumes)</i>	Yes	N/A	Yes	Yes	Yes	N/A	Yes	Yes
	<i>Tank Weights</i>	No	N/A	No	N/A	No	N/A	Yes	Yes
	<i>Tank Levels</i>	Yes	N/A	N/A	Yes	Yes	N/A	Yes	No
	<i>Calibrated Dose</i>	No	N/A	No	No	No	N/A	No	No

Legend:

DNA = Data Not Available

N/A = Not Applicable

*Data obtained from previous IRP Update

2.6.2.1 Rapid Mix

Raw water is supplied to the rapid mix tanks, which operate in series (i.e. two-stage); they are divided by a partial wall which water flows under. Each tank is 4.5 feet long by 4.5 feet wide and 14 feet deep. Each tank has a mechanical, vertical, turbine mixer that is 15 hp and has an operating range of 43 to 125 revolutions per minute.

2.6.2.2 Pulsator Clarifiers

After rapid mixing, the flow is split to two Pulsator Clarifiers (north and south). Each clarifier, manufactured by Infilco-Degremont, consists of a clarifier tank with a vacuum chamber, vacuum pump, distribution piping, collection troughs, and a sludge collection and withdrawal system.

The clarifier tanks are each 46.5 feet wide by 54 feet long by 16 feet deep. Each clarifier has an effective surface area of 2,170 square feet (sf) and a volume of 300,000 gallons. The clarifiers were designed to have two vacuum pumps (one duty, one standby), however given the corrosive environment in the clarifier room, the standby pump has been removed and put in storage. Sludge is removed from the clarifiers via the sludge pits by two 120 gallon per minute (gpm) horizontal end suction centrifugal pumps. The sludge pumps are controlled by level switches in the sludge pits and pump through a flowmeter and out to the sewer system.

Additional mechanical equipment associated with the clarifier is the clarifier drain pump and air compressor for the pneumatic valves. The clarifier drain pump is utilized to empty the clarifiers when they are to be cleaned (generally before summer demand periods when one clarifier is shut down and cleaned). The air compressor is for the pneumatic valves on the clarifier sludge line in addition to other miscellaneous valves.

2.6.2.3 Filtration

Operations Building

After clarification, process flow goes into a header and is split into four filters. Filter media is 8x16 granular activated carbon (GAC) with an effective size of 1.2 to 1.35 mm. The GAC is

five feet deep. Each filter is 18 feet wide by 18 feet long, with a water depth of 13 feet. Total surface area for the four filters is 1,296 sf. The filter loading rate is 3.2 gpm/sf at 6 MGD and 4.8 gpm/sf at 9 MGD. With one filter out of service, the loading rate is 4.3 gpm/sf at 6 mgd and 6.4 gpm/sf at 9 mgd.

The filters have electrically operated valves for effluent flow control, backwash, and filter to waste. These can be operated manually, but normally are operated through the SCADA system. Filter backwash includes air and water. For air scour, there are two blowers that can provide up to 1,300 cfm, or about 3-4 cfm/sf. Washwater is pumped from the clearwell by the primary washwater pump; there is also an identical backup. Each is rated 5,200 gpm at 44 feet of head. Flow is controlled by a flow rate controller.

Spent Backwash Water Tank

Spent washwater is measured with a flow tube and is collected in the spent washwater tank. Note that when a filter is operated to waste, the filter effluent flows to the spent washwater tank. The volume of the spent water tank is 161,500 gallons. The tank contains two mixers. If the tank should overflow, the overflow discharges to North Easton Pond, and the settled material is pumped to the city sewer system by two spent washwater pumps.

2.6.2.4 Chlorine Contact Tanks

Filtered water flows to the two chlorine contact tanks. Each tank is 80,900 gallons with a single wall, dividing it into approximately two equal halves.

2.6.2.5 Chemical Feed Systems

Aluminum Sulfate

Aluminum sulfate (alum) is used as the primary coagulant and is typically added prior to Rapid Mix Tank 1. The aluminum sulfate system is summarized in Table 2-9 and consists of two bulk tanks, transfer pump, day tank, and two metering pumps.

Sodium Aluminate

The sodium aluminate system is no longer used and was converted to a caustic (sodium hydroxide) system. It includes a bulk tank, transfer pump, day tank, and metering pumps.

Potassium Permanganate

Potassium permanganate is typically used to eliminate taste and odors in the raw water. This system is not utilized and is summarized in Table 2-9. It consists of a mixing tank and two metering pumps.

Betz CP210P

Betz CP210P is a polymer used as a coagulant aid. The polymer system is used periodically to strengthen the floc particle formation. The polymer system is summarized in Table 2-9 and consists of a loading hopper, volumetric feeder, and two metering pumps.

Sodium Chlorite

Sodium chlorite is mixed with chlorine gas to make chlorine dioxide. The chlorine dioxide system was not installed when the WTP was originally built. These systems were installed and are operated by a contract operator (International Dioxide, Inc.). The sodium chlorite system consists of a bulk tank, transfer pump, and a day tank.

Caustic (Sodium Hydroxide)

Sodium hydroxide is added to the raw water prior to coagulation. In addition, caustic is added on a constant basis in advance of the clearwell for corrosion control by raising the pH to approximately 8.5. This system consists of a 7,600 gallon capacity bulk storage tank, and a 250 gallon capacity day tank that is refilled via a transfer pump, that are configured for pre and post-treatment pH adjustment. The pumps can either be operated manually or through the SCADA system. The caustic system is summarized in Table 2-9.

Filter Aid

A filter aid is fed to the clarifier effluent and aids in the removal of particles by the filters. The filter aid system is rarely used. This system is summarized in Table 2-9 and consists of a mixing tank, feed tank, and two metering pumps.

Sodium Fluorosilicate

Sodium fluorosilicate (fluoride) is used to add fluoride to the water to promote dental health. The fluoride system is summarized in Table 2-9, and consists of a fluoride feeding and dissolution system, and two metering pumps.

Chlorine

Chlorine is used as a disinfectant and has the ability to be fed to multiple locations; chlorine dioxide generator, rapid mix tanks, or prior to the finished water pumps. Since the chlorine dioxide system was installed, chlorine dioxide is currently fed to the rapid mix tanks. Summarized in Table 2-9, the chlorine system consists of one ton cylinders, vacuum regulators, and eductors. Approximately 5 years ago, the chlorine gas system was updated with new piping, vacuum regulators, feed controls, eductors and nitrogen actuated shut-off systems. The location of the vacuum regulators was also changed to minimize the amount of pressure piping. At this time, the City is in the process of investigating process alternatives to reduce the formation of disinfection by-products in the distribution system.

2.7 FINISHED WATER PUMPING FACILITIES

The NWD operates four finished water pumping stations. Two facilities pump directly from the Lawton Valley WTP.

- Lawton Valley WTP
- Lawton Valley Pumping Station

One facility pumps finished water directly from the Station 1 WTP.

- Station 1 WTP

One facility pumps water from the city's medium pressure zone to the high pressure zone.

- Forest Avenue Pumping Station

The finished water pumping stations are summarized in Table 2-10.

TABLE 2-10
SUMMARY OF FINISHED WATER PUMPING STATIONS

Pump Station	From	To	Pump Type	Pump Capacity
Lawton Valley WTP Finished Water Pumps	Lawton Valley Clearwell	Lawton Valley Finished Water Reservoir	Vertical, constant speed	1 @ 2 MGD 1 @ 4 MGD 1 @ 6 MGD
Lawton Valley Finished Water Pumping Station	Lawton Valley Finished Water Reservoir	Lawton Valley Standpipe	Vertical, constant speed	2 @ 6 MGD
Station 1 Finished Water Pumping Station	Station 1 Clearwell	Low Pressure Zone	Horizontal, constant and variable speed	3 @ 3 MGD 1 @ 6 MGD
	Low Pressure Zone	Medium Pressure Zone	Horizontal, constant speed	2 @ 2.5 MGD (one duty, one standby)
Forest Avenue Pumping Station	Medium Pressure Zone	High Pressure Zone	Horizontal, constant speed	2 @ 1 MGD

2.7.1 Lawton Valley WTP Finished Water Pumps

The Lawton Valley WTP contains three finished water pumps that pump finished water from the clearwell to the 4.0 million gallon (MG) Lawton Valley Finished Water Reservoir. The facility contains three pumps; a 2 MGD constant speed pump, a 4 MGD constant speed pump, and a 6 MGD constant speed pump.

2.7.2 Lawton Valley Finished Water Pumping Station

The Lawton Valley Finished Water Pumping Station is located adjacent to the Lawton Valley WTP and boosts water from the 24-inch discharge of the three Lawton Valley WTP Finished

Water Pumps to the Lawton Valley Standpipe. The pump station contains two constant speed 6 MGD pumps with one pump acting as duty and one as standby. The pump station has a 205 KW natural gas powered generator, housed separately, that is capable of providing full backup power to both pumps.

2.7.3 Station 1 WTP Finished Water Pumps

The Station 1 WTP contains four finished water pumps that pump from the Station 1 WTP clearwell to the low pressure zone based on the level in the Reservoir Road Storage Tank. Three of the pumps were installed in 1991; however, the pump was recently replaced in 2004 with a 6 MGD pump along with a variable frequency drive (VFD). One of the 3 MGD pumps has a constant speed drive and two have VFDs. Station 1 also has two constant speed 2.5 MGD booster pumps used to pump the 24-inch low system discharge header to the medium pressure zone.

2.7.4 Forest Avenue Pumping Station

The Forest Avenue Pumping Station, constructed in 1967, is located on Forest Avenue in Middletown. The station is used to pump finished water from the medium pressure zone to the high pressure zone and is controlled by the water level in the Goulart Lane Tank. The station includes two constant speed 1 MGD pumps (one duty, one standby). A separately housed 205 KW natural gas powered generator is capable of providing full backup power to both pumps. The Forest Avenue Pump Station was inspected and evaluated by W-P on September 24 and October 14, 2009 as summarized in the technical memorandum in Appendix A.

2.7.5 Finished Water Metering

Table 2-11 provides a summary of NWD's finished flow metering.

TABLE 2-11
SUMMARY OF FINISHED WATER METERING

Finished Water Measured	Location	Type	Date of Installation
Lawton Valley WTP	24-inch to 4.0 MG Reservoir	Venturi	1965
Lawton Valley WTP	Interconnection to PWFD @ Union Street Pump Station	Neptune	1988
Lawton Valley WTP	Interconnection to PWFD @ Mitchell's Lane	Oripac Meter	1993
Station 1 WTP	24-inch to low pressure zone	Magnetic	1991
Station 1 WTP	12-inch to medium pressure zone	Magnetic	1991

2.8 FINISHED WATER STORAGE FACILITIES

The Newport water system operates five finished water storage facilities located within the three service areas (high, medium, and low pressure zones) in the Newport distribution system.

- Lawton Valley Finished Water Reservoir
- Lawton Valley Standpipe
- Goulart Lane Standpipe
- Station 1 Clearwell
- Reservoir Road Tank

A summary of the city's finished water storage facilities is presented in Table 2-12.

TABLE 2-12
SUMMARY OF FINISHED WATER STORAGE FACILITIES

Storage Facility	Service Area	Total Capacity (MG)	Overflow Elevation (ft)	Bottom Elevation (ft)
Lawton Valley Finished Water Reservoir	PWFD and Medium Zone	4.0	201	181
Lawton Valley Standpipe	Medium Pressure Zone	2.0	251	181
Goulart Lane Standpipe	High Pressure Zone	1.5	333.5	263.5
Station 1 Clearwell	Low and Medium Zones	0.2	16	-2.5
Reservoir Road Tank	Low Pressure Zone	3.0	175	135

2.8.1 Lawton Valley WTP Finished Water Reservoir

The Lawton Valley Finished Water Reservoir was constructed in 1942 and is located adjacent to the Lawton Valley WTP in Portsmouth. The reservoir has a total capacity of 4 MG and provides water to the Lawton Valley Standpipe (medium pressure zone), the Portsmouth Water and Fire District (PWFD), and the U.S. Navy at Mellville. The reservoir is a covered concrete structure with an overflow elevation of 201 feet. Finished water is pumped to the reservoir through a 24-inch main from the Lawton Valley WTP Finished Water Pumps. The existing connection to the 2 MG standpipe may be operated manually. The reservoir was cleaned and inspected in 1999 by Underwater Solutions, Inc.

2.8.2 Lawton Valley Standpipe

The Lawton Valley Standpipe is a welded steel structure that was constructed in 1973. Located adjacent to the Lawton Valley WTP in Portsmouth, the standpipe has a capacity of 2 MG. Water is pumped to the standpipe from the Lawton Valley Finished Water Reservoir via the Lawton Valley high lift pumping station. The standpipe provides water to the medium pressure zone and sets the hydraulic gradient in the distribution system. The tank has an overflow elevation of 251 feet, to which the water level is normally maintained within six feet. The tank was painted in 1999, and cleaned and inspected in November 2009, with a recommendation for minor touch-up to exterior painting. The next recommended scheduled painting would be in 2019. The typical

useful life of a water storage tank is 30-60 years; therefore this tank should be re-evaluated by 2033 to determine if repair or replacement may be necessary.

2.8.3 Goulart Lane Standpipe

The Goulart Lane Standpipe was constructed in 1966 and is located off Goulart Lane in Portsmouth. The welded steel standpipe has a total capacity of 1.5 MG and provides water to the high pressure zone. An extensive rehabilitation of this tank was recently completed in 2009. It included cleaning, painting, electrical, security and site improvements. It is anticipated that this tank will be due for painting around 2029. A Tideflex[®] mixing system was installed in the tank as part of the 2009 rehabilitation improvements. This tank will be approaching the end of its recommended useful life during the planning period, and should be re-evaluated by 2026 to determine if repair or replacement may be necessary. The tank has an overflow elevation of 333.5 feet, and was inspected by WP on September 24, 2009 as summarized in the technical memorandum in Appendix A.

2.8.4 Station 1 Clearwell

The Station 1 clearwell was constructed in 1991, and is located adjacent to the Station 1 WTP in Newport. The clearwell provides finished water to the Station 1 finished water pumps which eventually provide water to the low and medium pressure zones. Finished water from the chlorine contact tanks flows over a weir into the clearwell. The clearwell consists of two concrete tanks with a total storage volume of 207,000 gallons and has an overflow elevation of 16 feet.

2.8.5 Reservoir Road Tank

The Reservoir Road Tank was constructed in 1966 and is located off Reservoir Road in Middletown. The tank has a capacity of 3 MG and maintains system pressures and provides peak demand and fire flows to the city's low pressure zone. The tank is constructed of welded steel and has an overflow elevation of 175 feet. In 2006, the interior and exterior of the tank was repainted and minor repairs were made including a Tideflex[®] mixing system. It is anticipated

that this tank will be due for painting around 2026. This tank will be approaching the end of its recommended useful life during the planning period, and should be re-evaluated by 2026 to determine if repair or replacement may be necessary. The Reservoir Road Tank was inspected and evaluated by WP on September 24, 2009 as summarized in the technical memorandum in Appendix A.

2.9 DISTRIBUTION SYSTEM

The NWD distribution system is divided into three pressure zones, or service areas. These areas include Newport, Middletown, and a small portion of Portsmouth. A system wide map of distribution pipes, color-coded by size is attached in Appendix F. The service areas (or pressure zones) include:

- *Low Pressure Zone* - Includes most of Newport and the section of Middletown between South Easton Pond and Paradise Pond.
- *Medium Pressure Zone* - Includes the remaining portion of Newport and the majority of Middletown.
- *High Pressure Zone* - Includes the remaining portion of Middletown and Portsmouth.

2.9.1 Low Pressure Zone

The low pressure zone is serviced by the Station 1 WTP via its three 3 MGD pumps and one 6 MGD pump. There are also two booster pumps located at Station 1 WTP, each rated at 2.5 MGD, which can supply water from the low to the medium pressure zones if necessary. Storage for this zone is provided by the 3 MG Reservoir Road Tank in Middletown, and the 0.2 MG clearwell at Station 1. The Reservoir Road Tank maintains system pressure and also provides fire flows to the low service area. It has an overflow elevation of 175 feet with water levels typically maintained around 167 feet.

Finished water is supplied to the distribution system from the Station 1 WTP through a 24-inch discharge main. This main joins an existing main at the intersection of Bliss Mine Road and Ellery Road. The low pressure zone has interconnections with the medium pressure zone at Bliss

Mine Road and at Station 1 WTP. Both 12" valves are normally closed. Other interconnections include Girard Avenue, Hillside Avenue, Broadway, Fenner Avenue, Admiral Kalbfus Road, and at Kay Street.

2.9.2 Medium Pressure Zone

The medium pressure zone is supplied by the Lawton Valley WTP. Treated water from the plant is discharged through a 24-inch main to the 4 MG Lawton Valley Finished Water Reservoir (overflow elevation of 201 feet) via three pumps (2, 4, and 6 MGD). The original direct feed line to the distribution system is normally closed. Water is then pumped from the 4 MG reservoir to the adjacent 2 MG Lawton Valley Standpipe via two alternately operated 6 MGD high lift pumps. The tank has an overflow elevation of 251 feet and supplies the medium pressure zone along with setting the hydraulic gradient in the distribution system. The water level in the standpipe and the finished water reservoir are typically maintained to within approximately 6 feet of the overflow elevations. The medium pressure zone can also be supplemented by two booster pumps, each rated at 2.5 MGD, located at Station 1. The Raytheon Corporation in Portsmouth draws water directly from the Lawton Valley Standpipe.

2.9.3 High Pressure Zone

The high pressure zone is supplied via the 1 MGD Forest Avenue Pump Station. Water is drawn from the 24-inch main on West Main Road supplying the medium pressure zone and pumped through a 12-inch main along Forest Avenue and East Main Road to the 1.5 MG Goulart Lane Standpipe. The tank has an overflow elevation of 333.5 feet and the water level is typically maintained to within 6 feet of that elevation. An interconnection exists between the high and medium pressure zones at the intersection of East Main Road and Valley Road. The gate valve is normally kept in the closed position.

2.9.4 Interconnections

The Portsmouth Water and Fire District (PWFD) is NWD's wholesale customer. There are three working interconnections maintained by NWD with the PWFD. The typically used

interconnection is located at the Lawton Valley Finished Water Reservoir from where the PWFD draws water to supply its Union Street Pump Station, from which it is then pumped into the Portsmouth distribution system. The second is located at the 2 MG Lawton Valley Standpipe from where PWFD may draw to supply its Union Street Pump Station. This connection is normally closed. The third is a two-way emergency interconnection located at Mitchells Lane, where water can flow and be measured in either direction.

2.9.5 Meters

Raw Water Meters

The amount of raw water drawn from the NWD's supply sources is measured by either flow meters or by recording the run time of the raw water pumping stations. The Sakonnet River Pump Station has a magnetic flow meter. The flow of water at the Paradise Pump Station is measured by a venturi meter and totaled by a flow recorder. Flow through the St. Mary's Pump Station to Lawton Valley WTP is measured at the WTP raw water meter, while flow to Bailey's Brook is estimated.

Finished Water Meters

NWD has master meters at both WTPs for measuring the flow of finished water to its customers. The Station 1 WTP has two master meters, a 24-inch meter to measure flow in to the low pressure zone, and a 12-inch meter for the medium pressure zone. These are both magmeter devices installed in 1991 with the new WTP, and are tested and calibrated annually. Flow is monitored continuously through the plant's SCADA system.

The Lawton Valley WTP has one 24-inch venturi meter which was installed in 1943. This meter is read daily through its digital readout. As with the Station 1 WTP meters, this meter is also tested and calibrated annually. The plant also has a 16-inch x 7.2-inch venturi meter which was installed in 1943.

The NWD has two metered interconnections with PWFD. The primary metered connection from the Lawton Valley Finished Water Reservoir uses a 10-inch ABB meter. The meter is read

monthly and calibrated annually. The emergency connection on Mitchell's Lane uses a 12-inch Oripac meter which can measure flow in either direction.

Distribution System Meters

Excluding fire hydrants and fire services, 100 percent of NWD services are metered. Any temporary hydrant connections for bulk water sales are measured with hydrant meters. In 1987, the NWD began a meter replacement program to replace the older dial-type meters with new ones with electronic reading capabilities. In 2008, NWD began a major capital improvement project to replace approximately 10,000 meters with new meters equipped with radio read technology. The remainder of the meters will be retrofitted with the radio read transponders devices. This project is scheduled for completion in 2011. Table 2-13 provides a breakdown of the types and sizes of meters in the city's system as of November 2009.

**TABLE 2-13
SUMMARY OF NWD METERS (AS OF NOV. 2009)**

Use Category	Size	Quantity
Residential/Commercial/Industrial	5/8"	10,729
	3/4"	2,419
	1"	535
	1 1/2"	292
	2"	267
	>2"	102
Subtotal:		14,344
U.S. Navy	3/4"	1
	6"	8
	10"	1
Subtotal:		10
Public	5/8"	14
	3/4"	11
	1"	7
	>1"	63
Subtotal:		95
Total:		14,449

Section 3

SECTION 3

EVALUATION AND IDENTIFICATION OF SYSTEM IMPROVEMENTS

3.1 GENERAL

The ultimate goal of this IRP is to provide a comprehensive planning and funding document for system-wide improvements from supply through distribution. This section discusses the recommended improvements for the 5-year and 20-year Infrastructure Replacement Plan (IRP) as required by the Rhode Island Department of Health's (RIDOH) rules and regulations for Clean Water Infrastructure Plans. Per Section 5.3 of the Rules and Regulations for Clean Water Infrastructure Plans (R46-15.6-INFRA), "water suppliers shall review and update their infrastructure replacement plans at a minimum frequency of every five years. Major modifications or revisions to the infrastructure replacement plan shall be submitted for review more frequently as necessary." Those improvements completed since the 2005 IRP update are the following:

Reservoirs Safe Yield Study (Completed March 2009)

A system-wide evaluation of Newport's source waters was completed during March 2009. The project included a bathymetric survey of the two (2) off-island, mainland reservoirs, Nonquit Pond (Tiverton) and Harold E. Watson Reservoir (Little Compton). This work completed survey efforts begun by the City in 2004 when bathymetric surveys of the seven (7) Aquidneck Island reservoirs were performed. Utilizing the bathymetric survey data of all nine (9) reservoirs, a safe yield study was performed based on a mass-balance model approach in accordance with RI Water Resources Board *Water Supply System Management Planning Rules & Regulations* and the latest engineering practice. The study also included an evaluation of the NWD ability to provide an adequate supply of potable water to existing and projected customers for the 20-year planning period. Study results were summarized in the Water System Description in Section 2 of this report.

Geographic Information System (GIS) and Hydraulic Modeling (Anticipated Completion 2009-2010)

Wright-Pierce is currently assisting the City with the generation of an updated GIS based hydraulic model of the entire water distribution system. This project is scheduled for completion during 2009-2010. This will provide the city with an up-to-date computer model of their distribution system, and will form a foundation for managing the existing water system and planning for any future system expansions. The GIS model has provided guidance in prioritizing distribution system improvements in this IRP update.

Easton Pond Dam and Moat Study/Improvements (Ongoing)

In September 2006, the City awarded a contract for engineering services to provide an assessment of the dam and appurtenant structures which form North and South Easton Pond, and an evaluation of the drainage moat which surrounds the dam. Work completed included an evaluation of existing systems, recommended remedial alternatives, and the development of short and long-term improvement recommendations. The City decided to implement the long-term improvements recommended in the study. The alternatives were identified, screened, and developed to identify practical solutions to provide NWD with an approach to resolve or mitigate these problems. Significant damage occurred to the northern and western embankments of the dam as a result of a storm in April 2007. The preliminary design of the required repairs was completed in December 2007. The contract to proceed with the final design and permitting of the Easton Pond Dam Improvements was awarded to Fuss & O'Neill in February 2009. The final design was presented at a City Council workshop on August 25, 2009; a final workshop is scheduled for mid January 2010 prior to advertising the project for construction bids.

Lawton Valley Raw Water Main Replacement (Completed 2007)

This project was identified in 2005 as the top priority for raw water supply and transmission due to the main's age, poor condition, and the vulnerability of the raw water supply to the Lawton Valley WTP. This project included the installation of approximately one mile of new 24-inch ductile iron water main, and was completed in December of 2007.

Replacement of Sluice Gates in Lawton Valley Reservoir Intake (Completed 2007)

The Lawton Valley Reservoir has three 30-inch square openings (with sluice gates) that allow Newport to draw water from different depths. All three sluice gates along with new screening were replaced per budgeting appropriated FY 2006 and FY 2007. Replacement of these sluice gates increased the useable capacity of the reservoir, and also helped to improve water quality by being able to flush the higher manganese concentrations to waste.

Intake at Gardiner Pond (Completed 2008)

Replacement of the intake at Gardiner's Pond was necessary to alleviate thermal variations in the clarifiers at Station 1 WTP. The structure was in good condition, but the sluice gates and operators were inoperable. Work completed as part of this project involved providing new sluice gates, a new catwalk and gravity main. It is our understanding that the City plans to replace the old wooden staircase leading up to the intake structure.

Lawton Valley WTP - Residuals Management (Completed 2007), Constructed Wetlands (2009)

This project addressed compliance issues with RIDEM regulations to improve the water quality of Lawton Valley Brook. It was originally identified in the 1999 IRP, and was completed in 2007. The plant's residuals are directed to an uncovered storage tank, and are then pumped via the new residuals pumping station to the sanitary sewer system. Approximately 25% of backwash water is discharged to the Residuals Management System at the plant, which discharges to the City of Newport WPC plant. The remainder of the backwash water is discharged to a vegetated wetlands constructed and placed online in 2009 with final discharge to the Lawton Valley Brook.

Station 1 WTP and Lawton Valley WTP - Chemical Feed Systems (Ongoing)

Since Lawton Valley WTP is due for replacement by FY 2013, only interim repairs and improvements that are necessary to maintain operation of the facility until a new WTP is on-line have been completed. In February 2004, NWD completed a comprehensive regulatory compliance evaluation of both of the water treatment facilities to evaluate the existing processes ability to maintain regulatory compliance with current and future drinking water regulations.

The final report recommended improvements at each facility for the short and long-term. In October 2004, NWD awarded a contract to CDM to design the recommended short-term improvements for each facility. In September 2008, the City converted the pH adjustment chemical from lime to caustic (sodium hydroxide) at both facilities.

Station 1 WTP and Lawton Valley WTP - Process Alternatives to Reduce DBP's (Ongoing)

At this time, NWD is in the process of investigating process alternatives to reduce the formation of disinfection by-products (DBPs) in the distribution system. The schedule for improvements presented in NWD's Capital Improvement Program projects the upgrades at Station 1 to be completed prior to the actual start of construction of the new LVWTP. This approach will give the City the reliability in the Station 1 WTP providing treatment at the design capacity of 9 MGD. In accordance with pending Consent Agreements with RIDOH and RIDEM, the goal is to have the new LVWTP online by the end of 2014.

Station 1 WTP - Additional Pretreatment/Clarification Train, New Lawton Valley WTP (Ongoing)

An additional pretreatment/clarification train at the Station 1 WTP was recommended to provide at least 9 MGD of reliable treatment capacity. Pilot testing was completed in 2009. The City is moving forward with construction of a new water treatment facility at Lawton Valley to replace the 1942 plant. The recommended treatment processes will be the same as those recommended for the upgrade to Station 1. This will provide the ability for the operators to work between both facilities, and also to ensure a consistent water quality in the distribution system. Work is now in the procurement phase with the design-build (DB) approach.

Reservoir Road Tank Improvements (Completed 2006)

The Reservoir Road Tank was last inspected in 2005. Minor repairs and painting were completed in 2006, which included painting of both the interior and exterior of the tank, and installation of a Tideflex[®] mixing system.

Goulart Lane Storage Tank Improvements (Completed 2009)

This project completed in June 2009, included the repainting of the interior and exterior of the tank, minor repairs to the tank, installation of a new Tideflex[®] tank mixing system, and upgraded lighting and fencing.

Meter Replacement Program (Ongoing)

As previously discussed, NWD maintains ownership of all water meters within its system. All customers have metered services that are read either monthly or triennially depending on the size of the customer. In May, 2008 the City Council approved a \$2.6 million contract to convert the current water meter system, which consists of approximately 15,000 meters, to a radio read system. The project consists of replacement of approximately 10,000 water meters and the installation of radio read transceiver units on all the new meters as well as retrofitting the remaining existing meters. Also included will be new handheld reading devices, new software interface with the current billing system and training for Water Division staff. The conversion of the entire meter system is expected to be completed by 2011. The end result of this project will enable the Water Division to consistently and accurately read all meters on a regularly scheduled basis, thus minimizing unaccounted for water, estimated billings, and customer inconveniences.

Lawton Valley Reservoir Aeration Project (Completed 2009)

In 2009, an Aeration System was installed in the Lawton Valley Reservoir. Its main function is to aid in metal oxidation at the supply source prior to treatment. The mechanical and electrical equipment for the system is housed in the Lawton Valley Raw Water Pump Station.

Lawton Valley Sediment Basin Improvements (Completed 2008)

In 2008, Sediment basin repairs were completed at Lawton Valley.

Transmission, Storage and Distribution Improvements

Distribution system piping improvements completed since the 2005 IRP are the following:

- Castle Hill Ave: 1,212 LF of 8-inch water main
- Ocean Ave: 5,829 LF of 8-inch water main
- Ridge Road: 376 LF of 8-inch water main
- Ledge Road: 1,677 LF of 8-inch water main
- McCallister Street: 550 LF of 8-inch water main
- Lakeview Avenue: 290 LF of 8-inch water main
- Xavier Terrace: 140 LF of 8-inch water main
- Halidon Terrace: 350 LF of 8-inch water main

In addition to the above described improvements completed since the 2005 IRP update, the City has continued to be proactive and complete improvements for the following:

- Leak Detection
- Meter Replacement
- Water Trench Restoration
- Fire Hydrant Replacement
- Scheduled Finished Water Storage Tank Inspection and Maintenance
- Equipment and Vehicle Replacement

Section 3.2 of this report provides "Non-Pipeline Water System Component Evaluation and Recommended Improvements", while Section 3.3 of this report provides "System Pipeline Water System Component Evaluation and Recommended Improvements." Table 3-1 provides a Summary of Capital Improvements (Debt and Rate Funded); it includes those proposed as described in Sections 3.2 and 3.3 of this report, capital improvements per Docket 4025 effective July 1, 2009, as well as typical recurring capital improvements that have been projected over the FY 2011 to FY 2030 planning period. The Chapter 4 Financial Evaluation within this report provides detail of the Rate and Debt Funded Capital Improvement projects (e.g., debt funded capital amortized for 20-years at 6.5%), with subsequent determination of revenue requirements.

TABLE 3-1													
SUMMARY OF CAPITAL IMPROVEMENTS													
City of Newport, Rhode Island													
2010 Infrastructure Replacement Plan Update													
		Docket 4025	Debt Funded	Rate Funded	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016-2020	FY 2021-2025	FY 2026-2030
CS	Remote Radio Read Meter System-Install (2008 SRF B \$2,800,000)	X	X		\$1,000,000	\$900,000							
CS	Water Trench Restoration (Assume 4% increase/year)	X		X	\$75,000	\$78,000	\$81,120	\$84,365					
CS	Water Trench Restoration (Assume 4% increase/year)			X					\$87,740	\$91,249	\$514,000	\$625,000	\$761,000
F	Fire Hydrant Replacement	X		X	\$17,000	\$17,000	\$18,000	\$18,000					
F	Fire Hydrant Replacement			X					\$19,000	\$19,000	\$100,000	\$110,000	\$120,000
M	Equipment and Vehicle Replacement	X		X	\$118,000	\$160,000	\$199,000	\$92,000					
M	Equipment and Vehicle Replacement			X					\$120,000	\$160,000	\$660,000	\$800,000	\$980,000
S	Dam and Dike Rehabilitation - Lawton Valley ²	X		X		\$100,000	\$800,000						
S	Dam and Dike Rehabilitation - Lawton Valley (Construction)-\$2M ⁵		X					\$1,060,000	\$1,060,000				
S	Dam and Spillway Rehabilitation - Easton Pond Design	X		X				\$250,000					
S	Dam and Spillway Rehabilitation - Easton Pond Design			X					\$250,000				
S	Dam and Spillway Rehabilitation - Easton Pond (Construction)-\$6M ⁵		X						\$4,240,000	\$2,120,000			
S	Demolition of Old Nonquit Pump Station	X		X	\$125,000								
S	Department of Utilities Office / Garage (70 Halsey Street) ³			X					\$400,000				
S	Distribution Main Improvements (Sherman St.) Design & Const.	X		X	\$156,952								
S	Easton Pond Dam Improv.-N & W Embank. (2009 SRF A \$6,000,000)	X	X		\$3,000,000								
S	Forest Avenue Pump Station Improvements	X		X		\$250,000							
S	General Dam Fund			X		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	\$300,000	\$350,000
S	Intake at Paradise Pond	X		X		\$190,000							
S	Intake at Sissons	X		X		\$50,000							
S	Intake at Watson & Nonquit	X		X		\$250,000							
S	Meter Replacement (Assume 4% increase/year)	X		X	\$64,247	\$66,817	\$69,490	\$72,269					
S	Meter Replacement (Assume 4% increase/year) ⁴			X					\$75,160	\$200,000	\$901,000	\$2,740,000	\$1,330,000
S	Main from Gardiner to Paradise Pond	X		X	\$150,000								
S	Main from Gardiner to Paradise Pond (2011 SRF B \$8,600,000)	X	X			\$1,600,000							
S	Paradise Pump Station ³			X				\$83,750					
S	Sakonnet River Pump Station ³			X				\$151,250			\$12,500		
S	Sediment Assessment - Lawton Brook	X		X	\$35,000								
S	Sediment Assesment - Lawton Brook (Construction)-\$250,000 ⁵		X			\$265,000							
S	St. Mary's Pump Station ³			X					\$183,750				
S	Station No. 1 Raw Water Pump Station ³			X				\$193,750					
S	Water Quality Protection Plan Update-RIWRB	X		X	\$80,000								
S	Water Quality Protection Plan Update-RIWRB			X						\$85,000	\$90,000	\$100,000	\$110,000
S	WSSMP 5-year update-RIWRB	X		X		\$80,000							
S	WSSMP 5-year update-RIWRB due July 2017			X							\$85,000	\$90,000	\$100,000
ST	Storage Tanks - Cleaning and Inspection			X							\$60,000	\$60,000	\$75,000
ST	Storage Tanks - Painting			X							\$700,000		\$1,500,000
TD	Automatic Flushing Hydrants (3)			X		\$45,000							
TD	Distribution Main Improvements - System-wide (2010 SRF B \$3,393,048)	X	X		\$3,093,048	\$300,000							
TD	Distribution Main Improvements - System-wide (2011 SRF B \$8,600,000)	X	X				\$3,200,000	\$300,000	\$3,500,000				
TD	GIS and Hydraulic Modeling	X		X	\$90,000								
TD	GIS and Hydraulic Modeling (Assume 3% increase/year)			X		\$10,000	\$10,300	\$10,609	\$10,927	\$11,255	\$61,547	\$71,350	\$82,715
TD	IRP Update-RIDOH due January 2010	X		X	\$80,000								
TD	IRP Update-RIDOH due January 2015 (Assumes 3% increase/yr)			X						\$55,000	\$63,760	\$73,915	\$85,688
TD	TD Distribution Main Improvements (System-wide) ^{1, 5}		X							\$337,366	\$13,279,131	\$10,969,237	\$17,846,042
TR	City Agent for New LVWTP & STA 1 Imprv. (2010 SRF A \$6,725,950)	X	X		\$1,846,960	\$912,790	\$500,000	\$525,000	\$550,000				
TR	Professional Services for New Plant & STA 1 - legal, etc. (2010 SRF A \$6,725,950)	X	X		\$450,000	\$350,000	\$125,000	\$125,000	\$125,000				
TRL	Lawton Valley WTP - Chloramine Conversion Design	X		X	\$30,410								
TRL	Lawton Valley WTP - New WTP - DB/Construction (2012 SRF A \$38,739,000)	X	X				\$8,910,000	\$24,405,000	\$5,424,000				
TRL	LVWTP Chloramine Conversion Construction (2008 SRF A \$2,144,185)	X	X		\$200,000								
TRN	Station 1 - Additional Pretreatment/Clarification Train - DB/Const. (2011 SRF A \$10,800,000)	X	X			\$2,500,000	\$5,806,000	\$2,494,000					
TRN	Station 1 Chloramine Conversion Construction (2008 SRF A \$2,144,185)	X	X		\$180,000								
CS	Station 1 WTP - Chloramine Conversion Design	X		X	\$30,410								
Total Capital Improvements:					\$10,822,027	\$8,174,607	\$19,768,910	\$29,914,993	\$16,095,577	\$3,128,870	\$16,776,939	\$15,939,503	\$23,340,445

Note:

¹ Distribution Main Improvements (System-wide): Design at \$300,000 every other year, Construction at \$3,500,000 every other year in FY2010 dollars. Distribution main improvement costs have been escalated at 3% per year from FY2013/2014.

² Dam and Dike Rehabilitation-Lawton Valley; FY2011 Assessment, FY 2012 Design and Short-term improvements

³ Improvement costs include 25% engineering and contingency.

⁴ Meter Replacement: FY2015 (1,000 meters), FY2016-2020 (4,000 meters), FY2021-2025 (10,000 meters), FY 2026-2030 (4,000 meters)

⁵ Debt funded improvements include borrowing costs at 6% of total project cost



3.2 NON-PIPELINE WATER SYSTEM COMPONENT EVALUATION AND RECOMMENDED IMPROVEMENTS

This section provides a description and analysis of the City's major water infrastructure components. Specifically, this includes a discussion of the various system components listed related to:

- Component Condition
- Component Function
- Original Date of Construction
- Future Life Expectancy
- Pertinent Maintenance and Repair History
- Other Events which have Impacts on the Remaining Useful Life

Visual inspection and observation, inquiry with NWD staff, record plans, available engineering and inspection reports and studies were primarily utilized to determine component condition and future life expectancy. Life expectancy of a particular component may vary from the guidelines provided in the Regulations based on the source determination.

Detailed field investigations of nine buildings operated by the NWD were conducted on September 24 and October 14, 2009; Lawton Valley Finished Water Pump Station, Lawton Valley Raw Water Pump Station, St. Mary's Pump Station, Forest Avenue Pump Station, Paradise Pump Station, Station No. 1 Water Treatment Facility, Station No. 1 Raw Water Pump Station, Sakonnet River Pump Station, and the Department of Utilities Office/Garage. All major system components were subjected to a thorough inspection and photographic survey. Key elements for observation included:

- General Structural Condition
- Structural Code Deficiencies
- Required Structural Improvements
- General Mechanical Condition

- Component Capabilities
- Mechanical/Design/Safety Code Deficiencies
- Required Mechanical/Process Improvements
- Estimated Remaining Useful Life

Please note that structures were not thoroughly inspected for Code requirements in terms of load resistance (snow, wind or seismic). Review of the City's maintenance procedures reflects that the City is employing proper routine maintenance to the extent that replacement of critical items and "wear use" components results in an extension of the useful life expectancy of a particular system component.

Detailed technical memorandums which evaluate the nine buildings, and have been organized by discipline (e.g., electrical) to describe observations/existing conditions, subsequent code and design related recommendations, and cost estimates for implementing recommended improvements were prepared. Each of the four (4) technical memorandums organized by discipline are provided within Appendix A of this report.

- Technical Memorandum - Process/Mechanical
- Technical Memorandum - Architectural/Structural
- Technical Memorandum - Electrical
- Technical Memorandum - Instrumentation/Controls

A summary of major findings and recommendations for each of the nine facilities is described in Sections 3.2.1 through 3.2.9. Table 3-2 summarizes the cost estimates for the recommended improvements at each facility by discipline. Although inspected and evaluated, cost estimates for the Lawton Valley Finished Water Pump Station, Lawton Valley Raw Water Pump Station, Forest Avenue Pump Station, and Station No. 1 Water Treatment Facility are not included in Table 3-2 because capital improvement work at these facilities has already been accounted for per Docket 4025 Capital Improvement projects.

TABLE 3-2
RECOMMENDED FACILITY CAPITAL IMPROVEMENTS

St. Mary's Pump Station		
Mechanical / Process		\$0
Architectural / Structural		\$70,000
Electrical		\$75,000
Instrumentation / Controls		\$2,000
Sub-Total:		\$147,000
Engineering & Contingency (25%)		\$36,750
TOTAL St. Mary's Pump Station:		\$183,750
Paradise Pump Station		
Mechanical / Process		\$0
Architectural / Structural		\$60,000
Electrical		\$5,000
Instrumentation / Controls		\$2,000
Sub-Total:		\$67,000
Engineering & Contingency (25%)		\$16,750
TOTAL Paradise Pump Station:		\$83,750
Station No. 1 Raw Water Pump Station		
Mechanical / Process		\$0
Architectural / Structural		\$80,000
Electrical		\$75,000
Instrumentation / Controls		\$0
Sub-Total:		\$155,000
Engineering & Contingency (25%)		\$38,750
TOTAL Station No.1 Raw Water Pump Station:		\$193,750
Sakonnet River Pump Station		
Mechanical / Process		\$0
Architectural / Structural		\$110,000
Electrical		\$1,000
Instrumentation / Controls		\$20,000
Sub-Total:		\$131,000
Engineering & Contingency (25%)		\$32,750
TOTAL Sakonnet River Pump Station:		\$163,750
Department of Utilities Office / Garage (70 Halsey Street)		
Mechanical / Process		\$0
Architectural / Structural		\$310,000
Electrical		\$10,000
Instrumentation / Controls		\$0
Sub-Total:		\$320,000
Engineering & Contingency (25%)		\$80,000
TOTAL Department of Utilities Office / Garage:		\$400,000

3.2.1 Lawton Valley Finished Water Pump Station

Component Description: An approximately 20' by 20' pre-engineered metal building built in 1973.

Component Function: Boosts water from the Lawton Valley Finished Water Reservoir to the Lawton Valley Standpipe.

Code Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* No major code related concerns.
- *Electrical:* Provide emergency battery lighting in the building as backup in the event of generator failure.
- *Instrumentation/Controls:* To meet OSHA requirements, each pump is required to have a locally mounted, red, mushroom-head maintained emergency stop pushbutton that will immediately shut down the associated pump motor.

Design Related Recommendations:

- *Mechanical/Process:* Consider replacement of natural gas generator within the next 5 years because it is in poor condition due to corrosion. The City should consider painting the top of the Lawton Valley Standpipe. Also, replacement of motor starters with VFD's or soft starters should be considered.
- *Architectural/Structural:* At over 35 years old, many of the components of the building have seen their useful life expectancy. Main issues with the shell involve corrosion of the metal panels and broken windows. This allows water, rodents and insects to enter the building.
 - Remove existing shell down to the existing foundation.
 - Construct new shell with CMU backup and masonry veneer wall and wood truss roof and metal roofing.

- Remove trees and shrubs away from building.
- Remove a strip of ground vegetation away from building around the perimeter and install a crushed stone drip strip.
- *Electrical:* Provide a complete electrical systems upgrade including but not limited to all new distribution equipment, lighting, and controls.
- *Instrumentation/Controls:*
 - Currently there is no way an operator could know, while at the pump station, who has control of the pumps (either at the WTP or at the motor starter). The Hand/Off/Auto hand-switch should be relocated from the WTP to the Finish Water Pump building. The H/O/A switch could be located on a local control station at the pump, or on the face of the motor starter enclosure.
 - Provide local Emergency Stop switches adjacent to each Finished Water pump. Each Emergency Stop hand switch should immediately shut down the associated pump.
 - As part of the Water Treatment Plant upgrade, the telemetry between the Lawton Valley Standpipe and the WTP should be upgraded. Radio telemetry should be investigated.
 - The automatic finish water pump control should be included as part of the WTP's controls upgrade. The relay logic should be replaced by a PLC. The PLC at the WTP could be programmed to start and stop the pumps in an alternating sequence based on adjustable level setpoints from the Lawton Valley Standpipe. The same PLC could be used to monitor the run status, elapsed runtime, overload alarm, and fail-to-start alarm of each pump. It is assumed that the new WTP will have a SCADA computer to view this information.
 - When replacing the motor starters, VFDs or Soft Starters should be considered. If a VFD or soft starter is used, it must be determined if the motor is suitable for use with a VFD or Soft Starter.

Cost Estimate:

- *Mechanical/Process*: \$50,000 (VFD's), \$100,000 (Generator), \$20,000 (Painting)
- *Architectural/Structural*: \$80,000
- *Electrical*: \$75,000
- *Instrumentation/Controls*: Included under *Electrical*.

Estimated Remaining Useful Life: This pump station has 20+ years of estimated remaining useful life with proper maintenance and completion of the above described design related recommendations. However, per the City moving forward with completing construction of a new Lawton Valley Treatment Facility by FY 2013, the above described recommendations and associated cost estimates may not be necessary.

3.2.2 Lawton Valley Raw Water Pump Station

Component Description: A masonry building approximately 20' by 30' built in the 1940s. The electrical distribution equipment was installed in 1993.

Component Function: Directs raw water from the Lawton Valley Reservoir to the LVWTP.

Code Related Recommendations:

- *Mechanical/Process*: None.
- *Architectural/Structural*: No major code related concerns.
- *Electrical*: Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power failure. There is a pipe that appears to be closer than the code required 4-ft working space in front of the 480V electrical equipment. This equipment should be relocated further down the wall to avoid the existing pipe.
- *Instrumentation/Controls*: To meet OSHA requirements, each pump is required to have a locally mounted, red, mushroom-head maintained emergency stop pushbutton that will immediately shut down the associated pump motor

Design Related Recommendations:

- *Mechanical/Process:* Complete upgrade/rehabilitation of this pump station is recommended with the design and construction of the new WTP.
- *Architectural/Structural:* Although an old building, it is constructed of durable materials and many of the systems are in fair or serviceable condition. The main issues with the shell are that the wood trim is in need of repair and repainting. The following recommendations are all options that we recommend undertaking within the next 5 years.
 - Remove any high vegetation growing near the building and reseal the exposed concrete foundation walls.
 - Repoint mortar joints in the exterior face brick requiring repointing (we estimate 25% of the bricks need repointing).
 - Clean the organic growth from the slate tiles and recaulk all penetrations.
 - Repair and repaint the wood trim. We estimate about 25% of the existing wood will need to be replaced. Remove all loose paint from existing wood to remain and prep surface for new paint. Install new downspouts.
 - Remove the existing glass block that is infilling the window openings and replace with new aluminum double hung windows with insulated glazing and a Kynar finish. One of the existing window openings is infilled with plywood on the interior and exterior. We recommend removing this infill and replacing with a new window also.
 - Remove the existing wood door leafs and prep the opening for a new hollow metal door and frame with a pair of leafs. The existing wood casing trim is to remain. Remove any loose paint from the trim and prep for repainting.
 - Remove the 4 existing louvers and replace with new aluminum louvers with a Kynar finish.
 - Remove all paint on the concrete floor, prep and seal.
 - Remove any loose paint from the ceiling, prep and repaint.
- *Electrical:* Provide new 1x4 surface mounted fluorescent enclosed and gasketed fixtures, and provide a new exterior mounted lighting fixture above the door.
- *Instrumentation Controls:*
 - Add Hand/Off/Remote hand controls at the pumps.

- Consider replacing the motor starter with VFDs, to allow operators to better adjust the raw water flow to the plant. It must be determined if the motor is suitable for use with a VFD.
- Consider adding a flow meter to the discharge side of the pumps, in order to measure the flow entering the WTP.

Cost Estimate:

- *Mechanical/Process:* \$0
- *Architectural/Structural:* \$35,000
- *Electrical:* \$10,000
- *Instrumentation/Controls:* \$2,000 (emergency stop pushbuttons), \$20,000 (updating motor starter to VFDs), \$7,500 (raw water electromagnetic flow meter).

Estimated Remaining Useful Life: This pump station was built in 1943 with electrical upgrades in 1993. The pump station has 20+ years of remaining useful life with proper maintenance and completion of the above described design related recommendations.

3.2.3 St. Mary's Pump Station

Component Description: An approximately 28' by 23' single wythe CMU building constructed in 1965.

Component Function: Directs raw water from St. Mary's Pond to the LVWTP.

Code Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* Per the fire code, in industrial buildings without automatic sprinkler systems, one exit is allowed if an occupant can reach an exit within 50' from the most remote point in the building. If an occupant must traverse stairs in their travel, the distance must be measured along the diagonal plane of the stair nosings. In this building, it appears that the distance from the most remote point to the exit is somewhere around

50'. If it is over 50' an additional door should be added as part of any renovation project. It appears that a door can easily be added at the end of the ground level platform. This is included in the recommendations.

- *Electrical:* Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power failure.
- *Instrumentation/Controls:*
 - To meet OSHA requirements, each pump is required to have a locally mounted, red, mushroom-head maintained emergency stop pushbutton that will immediately shut down the associated pump motor.
 - The belt guard was taken off of the air compressor at the time of the site visit. Since this equipment can start automatically at any time, the belt guard should be re-attached.

Design Related Recommendations:

- *Mechanical/Process:* If this pump station will be used on a more regular basis, a complete electrical systems upgrade should be considered.
- *Architectural/Structural:* Generally the architectural components of the St. Mary's Pump Station are in poor but serviceable condition. The higher cost option for increasing the longevity of the building is the following:
 - Re-grade on the reservoir side to drain rain water away from the building.
 - On the exterior walls provide a layer of 2x3 strapping and 1½" of rigid insulation, then a continuous layer of ¾" insulation and on the exterior surface provide aluminum siding with a Kynar finish.
 - Remove all existing roofing, reseal joints between the concrete planks, and provide a new adhered EPDM and insulation roofing system. Provide new roof edge trim also.
 - Replace the windows with new aluminum windows with insulated glazing.
 - Remove the existing hollow metal door and frame and replace with a new hollow metal door and frame.
 - Install a new hollow metal door and frame on the opposite end of the building from the existing door.

- Remove all paint on the concrete floor, prep and seal.
- Remove any loose paint from the ceiling, prep and repaint.
- Remove any loose paint from the walls, prep and repaint.
- Remove any corrosion from steel beams, prep and repaint.
- Remove any corrosion from the interior painted steel railings and repaint.
- *Electrical:* If this pump station will be used on a more regular basis, a complete electrical systems upgrade should be considered. The upgrade should include but not be limited to all new power distribution equipment, lighting, emergency lighting system, fire alarm system, etc. within the building.
- *Instrumentation/Controls:* Given the unused status of the pump station, there are no controls upgrades recommended for this station at this time. Consistent with the previous recommendations, if the pump station is to be used on a more regular basis, upgrading the controls system would be included.

Cost Estimate:

- *Mechanical/Process:* \$0
- *Architectural/Structural:* \$70,000
- *Electrical:* \$75,000
- *Instrumentation/Controls:* \$2,000

Estimated Remaining Useful Life: This pump station was built in 1965. The pump station has 20+ years of remaining useful life with proper maintenance and completion of the above described design related recommendations.

3.2.4 Forest Avenue Pump Station

Component Description: A masonry building approximately 20' by 30' with brick veneer built in 1966.

Component Function: Pumps finished water from the medium pressure zone to the high pressure zone via the Goulart Lane Standpipe.

Code Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* No major code related concerns.
- *Electrical:* Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power/generator failure.
- *Instrumentation/Controls:* To meet OSHA requirements, each pump is required to have a locally mounted, red, mushroom-head maintained emergency stop pushbutton that will immediately shut down the associated pump motor.

Design Related Recommendations:

- *Mechanical/Process:* See *Instrumentation*.
- *Architectural/Structural:* Although an old building, it is constructed of durable materials and many of the systems are in fair or serviceable condition. The main issues with the shell are that the wood trim is in need of repair and repainting. The following recommendations are all options that we recommend undertaking within the next 5 years.
 - Shore up the walkway near the main entrance.
 - Reseal the exposed concrete foundation walls.
 - Repoint all mortar joints in the exterior face brick and reseal.
 - Remove the existing asphalt shingle roof and install new asphalt shingle roofing. Cut in and install a ridge vent when installing the new shingles.
 - Replace any rotted wood trim. Build out rake trim to receive new aluminum siding on the gable faces. Install break metal over existing wood trim and new rake trim. Install continuous eave vents. Install new aluminum siding in the gable faces.
 - Remove existing gutters and downspouts and install new.
 - Remove the louvers on the front of the building and replace with new aluminum double hung windows with insulated glazing and a Kynar finish. Replace the decorative wooden louvers with high quality vinyl ones.
 - Remove the existing hollow metal doors and frames and replace with a new hollow metal doors and frames.

- Remove existing ceiling tile system and attic insulation. Install new attic insulation, a vapor barrier and an FRP panel ceiling system.
- Remove any corrosion from steel beams, prep and repaint.
- *Electrical:*
 - Provide a complete electrical systems upgrade including but not limited to all new distribution equipment, lighting, fire alarm and controls (including VFDs). The existing generator shall remain.
 - Provide a new junction box with cover for the telephone system. Redo all telephone splices
- *Instrumentation/Controls:*
 - Replace the automatic pump controls with a PLC based control panel.
 - Investigate replacing the three leased lines with radio telemetry.

Cost Estimate:

- *Mechanical/Process:* \$0
- *Architectural/Structural:* \$40,000
- *Electrical:* \$75,000
- *Instrumentation/Controls:* \$2,000 (emergency stop pushbuttons), \$15,000 (New PLC-based Control Panel), \$10,000 (radio telemetry system).

Estimated Remaining Useful Life: This pump station was built in 1966. The pump station has 20+ years of remaining useful life with proper maintenance and completion of the above described design related recommendations.

3.2.5 Paradise Pump Station

Component Description: Cast-in-place concrete walled building with a concrete plank roof that was upgraded in 2005. Building was constructed in 1966.

Component Function: Pumps raw water from Gardiner and Nelson Ponds to the Station 1 WTP.

Code Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* Per the fire code, in industrial buildings without automatic sprinkler systems, one exit is allowed if an occupant can reach an exit within 50' from the most remote point in the building. If an occupant must traverse stairs in their travel, the distance must be measured along the diagonal plane of the stair nosings. In this building it appears that the distance from the most remote point to the exit is close to 50' but that it is less than 50'. If it is over 50' an additional door will need to be added as part of any renovation project. Adding a door is not included in the recommendations because the length of travel does appear to be less than 50'.
- *Electrical:* Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power failure.
- *Instrumentation/Controls:* None

Design Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* Generally the architectural components of the Paradise Pump Station are in poor but serviceable condition. The higher cost longer life expectancy option is described below.
 - Repair chipped areas at the concrete steps.
 - On the exterior walls provide a layer of 2x3 strapping and 1½" of rigid insulation, then a continuous layer of ¾" insulation and on the exterior surface provide aluminum siding with a Kynar finish.
 - Remove all existing roofing, reseal joints between the concrete planks, and provide a new adhered EPDM and insulation roofing system including new roof edge trim.
 - Replace the windows with new aluminum windows with insulated glazing.
 - Remove the existing hollow metal door and frame and replace with a new hollow metal door and frame.
 - Remove all paint on the concrete floor, prep and seal.

- Remove any loose paint from the ceiling, prep and repaint.
- Remove any loose paint from the walls, prep and repaint.
- Remove any corrosion from steel beams, prep and repaint.
- Remove any corrosion from the interior painted steel railings and repaint.
- Approximate Cost: \$60,000.
- *Electrical:* None.
- *Instrumentation/Controls:* While the emergency stop at the VFD fulfills the emergency stop requirement, an operator would not be able to reach it if they had a mishap at the pump. We recommend adding a second Emergency Stop pushbutton adjacent to each pump.

Cost Estimate:

- *Mechanical/Process:* \$0
- *Architectural/Structural:* \$60,000
- *Electrical:* \$5,000
- *Instrumentation/Controls:* \$2,000

Estimated Remaining Useful Life: This pump station was built in 1966. The pump station has 20+ years of remaining useful life with proper maintenance and completion of the above described design related recommendations.

3.2.6 Station No. 1 Water Treatment Facility

Component Description: Cast-in-place concrete framed building with a flat roof built in 1991. CMU backup is used to infill between the concrete framing members and the exterior skin and consists of face brick veneer in some areas and ground faced precast concrete panels in other areas.

Component Function: Water treatment facility located in Newport with a maximum day design capacity of 9 MGD.

Code Related Recommendations:

- *Mechanical/Process*: None.
- *Architectural/Structural*: No major architectural code related concerns.
- *Electrical*:
 - The motor control centers do not appear to have the code required 4' working clearance.
 - There is a dry-type transformer located in a corner with another transformer blocking access to this transformer. This is in violation of the code required working clearance of 4'.
 - Panel PBA and the sub-panel both located in the basement and both are in violation of the code required working clearance. There is no access to the sub panel since it is located on the other side of a pit. Panel PBA is located half over the pit and half over the landing.
 - The electrical room is also used as a storage room.
- *Instrumentation/Controls*: None

Design Related Recommendations:

- *Mechanical/Process*: It is recommended that the laboratory be upgraded and rehabilitated which will be incorporated with the new treatment facility construction. Also, the finished water discharge piping should be considered for replacement. The existing header is made from stainless steel and is exhibiting substantial corrosion throughout. Since the existing piping would need to remain in service, alternate routing of the discharge piping and all new supports would need to be designed. Replacement of the piping with ductile iron piping should be scheduled over the next 5 to 10 years.
- *Architectural/Structural*: The building is less than 20 years old and is constructed of durable materials. Predominantly the architectural systems are in good condition. There are some concerns and we recommend undertaking the following concerns within the next 5 years.

- Verify that the settled walkway has finished settling and top with additional concrete to re-level the walkway.
- At the tankage remove all loose cementitious coating and loose concrete. Repair and recoat all surfaces with a high performance, trowel grade repair mortar.
- Remove all of the existing cementitious coating from the exposed concrete foundation walls. Patch the concrete at the areas where concrete is missing. Apply a new cementitious coating to the exposed concrete surfaces.
- Reseal the exterior face brick and the precast concrete panels.
- Re-flash all penetrations in the existing EPDM roofing.
- Replace all skylights with new skylights with fall protection rated safety glass.
- Provide a new aluminum cap with an anodized finish to match existing over the precast concrete parapet.
- Re-caulk around all of the exterior openings.
- Replace the roll-up door.
- Remove all VCT flooring and replace.
- Remove all loose epoxy flooring and patch those areas. Recoat all areas with epoxy flooring with a coloring top coat.
- Replace all ACT ceilings.
- Repair painted ceiling finishes that are damaged.
- Remove loose paint, prep and repaint walls with water damage.
- In addition to the above concerns the owner should plan on removing the entire ballasted EPDM roofing system and replacing with an adhered EPDM and rigid insulation roofing system in 5 to 10 years.
- *Electrical:*
 - Emergency lighting should be upgraded.
 - Some of the light fixtures in the LAB appear to have water damage. The fixtures that have suffered water damage should be replaced.
 - Some of the conduits appear to have started to rust in the filter area. Consider upgrading these conduits.

- A new Fire Alarm Control Panel should be installed to replace the older Edward's control panel.
- *Instrumentation/Controls*: While many of the original instruments from the original 1991 installation still function, an instrument and control upgrade should be planned for over the next 10-years.

Cost Estimate:

- *Mechanical/Process*: \$100,000 (finished water discharge piping)
- *Architectural/Structural*: \$285,000 (design related recommendations), \$200,000 (roofing system replacement within 5 to 10-years)
- *Electrical*: \$100,000
- *Instrumentation/Controls*: \$16,000 (replacement of the four ultrasonic level transducers), \$20,000 (replacement of the three magnetic flow meters), \$15,000 (computer and software upgrade).

Estimated Remaining Useful Life: The existing plant was constructed in 1991 and overall is in good physical condition. With proper maintenance and completion of the above described design related recommendations, this facility has another 20+ years of remaining useful life.

3.2.7 Station No. 1 Raw Water Pump Station

Component Description: Cast-in-place concrete building constructed in the 1970s, which was previously used as the treatment plant.

Component Function: Pumps raw water to the Station 1 WTP.

Code Related Recommendations:

- *Mechanical/Process*: None.
- *Architectural/Structural*: No major architectural code related concerns were noticed.
- *Electrical*: Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power failure.

- *Instrumentation/Controls*: None.

Design Related Recommendations:

- *Mechanical/Process*: None.
- *Architectural/Structural*: Although an older building, it is constructed of durable materials and many of the systems are in fair or serviceable condition. The main issues with the shell is that the masonry surfaces need to be thoroughly cleaned and resealed, the roofing needs to be replaced and the glazing needs to be replaced. Structurally the building appears in fair condition. The following recommendations are all options that we recommend undertaking within the next 5 years.
 - Replace the sections of railing that are missing from the exterior steps.
 - Clean the exterior concrete surfaces and face brick and reseal.
 - Remove the existing ballasted tar roofing and replace with a new adhered and insulated EPDM roofing system. When installing the new roofing, install new aluminum roof edge trim with the outside face extending down onto the face of the concrete walls.
 - Re-caulk around all openings in the exterior walls.
 - Install new insulated glazing in all of the exterior windows.
 - A ladder and roof hatch provides access to the roof. This system appears mainly in good condition but the operating parts of the hatch should be serviced to ensure continued longevity and safety.
- *Electrical*: Provide a complete electrical systems upgrade including but not limited to all new distribution equipment, lighting, and fire alarm. (VFD's are new and can remain). The removal of the two motor starters which are not used should be considered.
- *Instrumentation/Controls*: None.

Cost Estimate:

- *Mechanical/Process:* \$0
- *Architectural/Structural:* \$80,000
- *Electrical:* \$75,000
- *Instrumentation/Controls:* \$0

Estimated Remaining Useful Life: The Station 1 Raw Water Pump station was built in the 1970's, and had previously been used as a treatment plant until 1991 prior to construction of the new Station No. 1 Water Treatment Facility. The pump station has 20+ years of remaining useful life with proper maintenance and completion of the above described design related recommendations.

3.2.8 Sakonnet River Pump Station

Component Description: Concrete framed building clad with a face brick veneer built in 1993.

Component Function: Pumps raw water from Watson Reservoir and Nonquit Pond to the LVWTP or St. Mary's Pond.

Code Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* Per the Rhode Island State Fire Code, for an area to have only one exit, an occupant must reach an exit within 50'. For the Rhode Island State Building Code this allowance is 75'. From the most remote point in the basement level it appears that an occupant would need to travel almost 150' to reach the exit (measured per code requirements). Another situation exasperating this problem is that the basement exhaust is being drawn through the stair opening. It appears that if the open stair was enclosed at both levels and separated from the rest of the building with 1-hour rated construction, the distance to an exit from the most remote point in the basement could be reduced to about 75'. At the ground level a door to the exterior will need to be provided in the stair enclosure. This could meet the building code and make the basement level a lot safer, but

it would not meet the fire code. Local code enforcement may accept this as a viable fix for this existing non-compliance. We estimate the approximate cost for this work to be \$50,000. If local code enforcement insists on providing two means of egress from this space, they may accept adding a ladder and a hatch as a second means of egress. It may be possible to add one in the loading dock area.

Another option to enclosing the stair and/or adding a ladder would be to classify the basement as a permit required confined space.

From the office and loading dock area, the only code recognized exit is the entrance door at the other end of the building. From the most remote point in the office it appears that an occupant would need to travel around 90' to reach this exit. Another exit from the loading dock area should be created with exterior steps to grade. The loading dock doors are not recognized as an exit because they are held shut with a locking bar and there is no steps leading from them to the level of grade. We estimate the approximate cost for this work to be \$20,000.

The top 6' of the concrete walls in the basement level are insulated with polystyrene rigid insulation on the basement side. Code does not allow this insulation to remain exposed to interior occupied spaces. In a fire it will emit deadly off gasses. We recommend covering over the existing insulation with 1/2" of a heavy duty aluminum faced polyisocyanurate rigid foam insulation rated for interior exposure like Thermax by Dow. This will add insulation value and provide the cover required for the existing polystyrene. The existing stair handrail should be removed, solid wood blocking installed to even with the face of the polyisocyanurate and the handrail reinstalled. Paint the blocking to match the color of the aluminum face of the polyisocyanurate. We estimate the approximate cost for this work to be \$20,000.

- *Electrical*: None.
- *Instrumentation/Controls*: None.

Design Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* The building is fairly current and for the most part the architectural systems are in good condition.
 - Caulk the joint on the back of the building that is missing caulk.
 - Remove the existing roll-up door. Install a narrower roll-up door that will fit between the concrete beams above the opening. Provide steel or masonry infill at the jambs to allow for the narrower door.
 - Re-stain the wood trim and siding.
- *Electrical:* Consider installing some emergency battery units on the exterior at the entrance door.
- *Instrumentation/Controls:* Install automated controls/SCADA system. This would include an operator interface, telemetry equipment, and a PLC based control system that would allow remote control and monitoring of the pumps from the WTP.

Cost Estimate:

- *Mechanical/Process:* \$0
- *Architectural/Structural:* \$10,000 (design related), \$10,000 (new roofing system within 5 to 10-years), up to \$90,000 for fire code related issues as described above.
- *Electrical:* \$1,000
- *Instrumentation/Controls:* \$20,000 (automated controls/SCADA system)

Estimated Remaining Useful Life: This pump station was built in 1993, and is in very good physical condition. The pump station has 20+ years of remaining useful life with proper maintenance and completion of the above described design related recommendations.

3.2.9 Department of Utilities Office/Garage

Component Description: Pre-engineered metal building built in 1967.

Component Function: Department of Utilities Office/Garage.

Code Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* The wall insulation in the garage bays does not appear to be rated for interior exposure and should be enclosed. We recommend covering with ACX grade plywood and painting. This will enclose the insulation and provide a durable surface for the garage.
- *Electrical:* None.
- *Instrumentation/Controls:* None.

Design Related Recommendations:

- *Mechanical/Process:* None.
- *Architectural/Structural:* At over 40 years old, many of the components of the building have seen their life expectancy. The main issues with the shell are that the roof is leaking and a lot of surface corrosion is the aesthetics of the building. The interior also suffers from dated materials that effect the aesthetics of the building. A higher cost option for increasing the longevity of the building has been evaluated.
 - Remove the existing, exterior metal wall panels, the metal roof panels, edge trim, gutters and bagged insulation.
 - Install new aluminum wall and roof panels.
 - Replace the exterior doors.
 - Replace the windows with new aluminum windows with insulated glazing.
 - Replace the interior floor finishes in the office spaces.
 - Apply drywall over the paneling surfaces and paint.
 - Repaint existing drywall finishes in the office areas.
 - Replace the doors in the office areas.
 - Replace the ACT ceiling tile system.
- *Electrical:* Provide a new panelboard to replace the original panel located in the building.
- *Instrumentation/Controls:* None

Cost Estimate:

- *Mechanical/Process*: \$0
- *Architectural/Structural*: \$10,000 (ACX plywood), \$300,000 (building renovations)
- *Electrical*: \$10,000
- *Instrumentation/Controls*: \$0

Estimated Remaining Useful Life: This building was built in 1967, and is in fair condition. The building has 20+ years of remaining useful life with proper maintenance and completion of the above described design related recommendations.

3.2.10 Finished Water Storage Facilities

The NWD maintains two concrete tanks (Lawton Valley Finished Water Reservoir and Station 1 Clearwell) and three steel tanks (Lawton Valley, Goulart Lane, and Reservoir Road). The City performs required maintenance tasks including cleaning and inspection every five years. Typically, storage tanks are painted approximately every 20 years. RIDOH's Rules and Regulations for Clean Water Infrastructure Plans Guidelines give a typical life expectancy for storage tanks as 30 - 60 years.

- *Reservoir Road Tank* - Constructed in 1966, the tank was last painted in 2006. Both the interior and exterior of the tank were inspected, repainted, and minor repairs were made. Repairs included new security measures such as fencing and motion detection lighting, along with rehabilitation of gate, check, and altitude valves. A baffled mixing system was also installed, including an electrical upgrade. The tank will be due for painting again in 2026; however, due to the tank's age, replacement should be considered as it will be approaching its useful life expectancy.

Estimated Remaining Useful Life: Based on the age of this facility, it has a remaining useful life of 15+ years with proper maintenance. This tank should be internally inspected and cleaned every 5 to 7 years.

- Goulart Lane Standpipe - Constructed in 1966, the tank was recently painted in 2009. Both the interior and exterior of the tank were inspected, repainted, and minor repairs were made. Repairs included new security measures such as fencing and motion detection lighting, along with rehabilitation of gate, check, and altitude valves. A baffled mixing system was also installed. The tank will be due for painting again in 2029; however, due to the tank's age, replacement should be considered as it will be approaching its useful life expectancy.

Estimated Remaining Useful Life: Based on the age of this facility, it has a remaining useful life of 15+ years with proper maintenance. This tank should be internally inspected and cleaned every 5 to 7 years.

- Lawton Valley Standpipe - Constructed in 1973, the tank was last painted in 1999, and was cleaned and inspected in 2000. The tank will be due for painting again in 2019, however based on discussions with NWD staff and field inspections; it appears that the top of the tank may require attention prior to 2019. As shown in Table 3-3, a capital improvement budget for painting at FY 2016 to FY 2020 is recommended.

Estimated Remaining Useful Life: Based on the age of this facility, it has a remaining useful life of 20+ years with proper maintenance. This tank should be internally inspected and cleaned every 5 to 7 years.

- Lawton Valley Finished Water Reservoir - This 4 MGD underground storage tank was constructed in 1942. This facility was last cleaned and inspected in March/April of 1999. This may be the site of the new Lawton Valley WTP; therefore this reservoir may be demolished as part of the new construction.

Estimated Remaining Useful Life: Based on the age of this facility, it has a remaining useful life of 20+ years with proper maintenance. This tank should be internally inspected and cleaned every 5 to 7 years.

- Station 1 Clearwell - This tank is cleaned and inspected on a yearly basis by plant personnel. Refer to the structural / architectural recommendations and memos for improvements related to this structure.

Estimated Remaining Useful Life: Based on the age of this facility, it has a remaining useful life of 20+ years with proper maintenance. This tank should be internally inspected and cleaned every 5 to 7 years.

3.3 SYSTEM PIPELINE WATER SYSTEM COMPONENT EVALUATION AND RECOMMENDED IMPROVEMENTS

This section provides an evaluation of the NWD piping system. The 2005 IRP database was updated to assess all of the piping within the raw and finished water distribution system within Newport, Middletown, and a small portion of Portsmouth and Tiverton. Pipe rating for the database was done in the same manner as the 2005 IRP, taking into account the main size, age, number of water main breaks, type of pipe, location (density), and whether the pipe was on a dead end. Table 3-3 provides the Selected Pipe Evaluation Criteria methodology and weighting.

Appendix F contains a large NWD distribution system map, and Appendices B and C contain the water main database in excel spreadsheet format sorted by pipe rating and town/street, respectively. The database is also sorted by fiscal year in Appendix D to be used strictly as a planning tool for the City. The cost estimate within the database was developed based upon an estimated linear foot (LF) cost for each pipe size:

- \leq 8-inch diameter at \$165/LF
- 10 - 12 inch diameter at \$175/LF
- 16 - 20 inch diameter at \$200/LF
- \geq 20-inch diameter at \$225/LF

**TABLE 3-3
Pipe Evaluation Criteria**

Number	Criteria	Range	Description	Rating	Weight
1	Main Size	0 to 5	A pipeline candidate receives up to 5 points depending on main size	<div>< 6 inch diameter = 5 points</div> <div>6 inch diameter = 2.5 points</div> <div>> 6 inch diameter = 0 points</div>	0.25
2	Age	0 to 5	A pipeline candidate receives up to 5 points depending on date of installation	<div>> 100 years old = 5 points</div> <div>80 to 100 years old = 4 points</div> <div>60 to 80 years old = 3 points</div> <div>40 to 60 years old = 2 points</div> <div>20 to 40 years old = 1 point</div> <div>< 20 years old = 0 points</div>	0.25
3	Water Main Breaks	0 to 5	A pipeline candidate receives up to 5 points if there are frequent water main breaks	<div>More than one break on main = 5 points</div> <div>One break on main = 2.5 points</div> <div>No breaks on main = 0 points</div>	0.15
4	Type of Pipe	0 to 5	A pipeline candidate receives up to 5 points depending on the type of material	<div>Galvanized Iron = 5 points</div> <div>Unlined Cast Iron = 5 points</div> <div>Tin = 5 points</div> <div>Wrought Iron = 5 points</div> <div>Asbestos Cement = 5 points</div> <div>Cement Lined Cast Iron = 3 points</div> <div>Copper Tubing = 3 points</div> <div>PVC = 2 points</div> <div>Ductile Iron = 0 points</div>	0.15
5	Location	0 to 5	A pipeline candidate receives up to 5 points depending on location	<div>High population density/customer base = 5 points</div> <div>Medium population density/customer base = 2.5 points</div> <div>Low population density/customer base = 0 points</div>	0.1
6	Dead End Mains	0 to 5	A pipeline candidate receives 5 points if it is a dead end main	5 points	0.1

Section 4

SECTION 4

FINANCIAL EVALUATION

4.1 INTRODUCTION AND APPROACH

This section contains the financial evaluation of the Capital Improvement Program (CIP) for the projects identified in Section 3 of this report. The recommended plan prioritizes projects and the timeframe in which they will be implemented over the next twenty years; FY 2011 to FY 2030. The purpose and goal of this section is to evaluate the impact of the capital plan on the ratepayers in the City's service area.

The water system is operated by the Newport Water Division (NWD). The NWD is a division of the Public Works Department and operates as an enterprise account financially independent of the overall city budget. NWD is regulated by the Rhode Island Public Utilities Commission (PUC). As a PUC requirement, the NWD regularly submits rate filings to the PUC for review and approval outlining the division's water revenue requirement and resulting water rate schedule. We have used the FY 2010 rate filing as the base for this evaluation; Docket 4025 Effective July 1, 2009. *The exact impact and required changes in water rates and charges will be determined in future rate studies. In this section, Wright-Pierce only assesses the approximated financial impact of the CIP using simplifying assumptions, not actual water rates themselves.*

Rules and Regulations for Clean Water Infrastructure Plans were promulgated by the Department of Health in August of 1994 to comply with requirements of RIGL Chapter 46-15.6. Key elements of the regulations deal with funding proposed for the infrastructure plan. Water suppliers subject to the Act are expected to develop plans for the orderly repair, replacement and rehabilitation of existing infrastructure. Revenues derived to pay for the program are to come from existing users in proportion to their use of the system. Funds are to be deposited in a separate account and dedicated to improvements outlined in the plan. The Act requires a special, restricted account (designated as the "Infrastructure Replacement Fund") be set up "solely to

implement and carry out the replacement and rehabilitation of infrastructure in accordance with the approved plan."

This analysis is a simplification of the actual financial situation of the utility. It is unlikely that the revenue requirements over the 20-year planning period will be as projected in this analysis. NWD currently makes debt service payments on outstanding bonds. These debt service payments will likely vary from year to year based on the repayment structure. For example, a constant principal repayment schedule results in higher debt service payments in early years. In addition, operating and maintenance expenditures will increase reflecting changes in wages, benefits, and operations of the utility in general.

The financial evaluation has been performed on an incremental basis over the 20-year planning period to include all of the projects presented in Table 3-1 Summary of Capital Improvements. This includes both Debt Funded and Rate Funded Capital Improvements from Docket 4025, as well as proposed Capital Improvement projects over the 20-year planning period; FY 2011 to FY 2030. It has been assumed that annual increases in rate revenue proportionally impact the water rates and billing charges. Debt service payments for proposed projects utilize the same interest rates as Docket 4025. Operating expenditures and revenue offsets were assumed to remain constant throughout the planning period.

The methodology for this analysis has been chosen to provide framework for the evaluation of the CIP over the 20-year planning period, not the development of annual rate schedules. Therefore, this analysis is a simplification of the actual financial situation of the utility, and it provides a basis on the overall impact of the CIP with projected changes in average household bills as a result of the funding of the capital improvements.

4.2 DATA

The analysis is based on the Capital Improvement Plan contained within Docket 4025 (effective July 1, 2009) and proposed Debt and Rate Funded Capital Improvement projects over the 20-year planning period. Table 4-1 and Table 4-2 provide the Debt and Rate Funded Capital

Improvement projects in the same format as Docket 4025, respectively, as well as proposed projects not approved under Docket 4025.

The proposed projects consist of Wright-Pierce recommended improvements following our evaluation of the facilities (e.g., Paradise Pump Station), our understanding of projects needed which have not been included in Docket 4025 (e.g., Dam and Spillway Rehabilitation-Easton Pond) and projection of recurring items over the 20-year planning period (e.g., Equipment and Vehicle Replacement).

The Docket 4025 Rate Schedule was utilized as the baseline to determine the average household bill; Billing Charge at \$15.31, Metered Sales at \$5.25 per thousand gallons for residential, commercial and governmental.

TABLE 4-1 DEBT FUNDED CAPITAL									
City of Newport, Rhode Island 2010 Infrastructure Replacement Plan Update									
	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016-2020	FY 2021-2025	FY 2026-2030
Docket 4025 Debt Funded Capital Effective July 1, 2009 - Capital Improvement Plan									
2008 SRF A \$2,144,185 TRL LVWTP Chloramine Conversion Construction TRN Station 1 Chloramine Conversion Construction	\$200,000 \$180,000								
	\$380,000								
2008 SRF B \$2,800,000 CS Remote Radio Read Meter System-Install	\$1,000,000 \$1,000,000	\$900,000 \$900,000							
2009 SRF A \$6,000,000 S Easton Pond Dam Improv. (N & W Embank.)	\$3,000,000 \$3,000,000								
2010 SRF A \$6,725,950 TR City Agent for New LVWTP & STA 1 Imprv. TR Professional Services for New Plant & STA 1 (legal, etc.)	\$1,846,960 \$450,000 \$2,296,960	\$912,790 \$350,000 \$1,262,790	\$500,000 \$125,000 \$625,000	\$525,000 \$125,000 \$650,000	\$550,000 \$125,000 \$675,000				
2010 SRF B \$3,393,048 TD Distribution Main Improvements (System-wide)	\$3,093,048 \$3,093,048	\$300,000 \$300,000							
2011 SRF A \$10,800,000 TRN Station 1 - Additional Pretreatment/Clarification Train (DB/Const.)		\$2,500,000 \$2,500,000	\$5,806,000 \$5,806,000	\$2,494,000 \$2,494,000					
2011 SRF B \$8,600,000 S Main from Gardiner to Paradise Pond TD Distribution Main Improvements (System-wide)		\$1,600,000 \$1,600,000	\$3,200,000 \$3,200,000	\$300,000 \$300,000	\$3,500,000 \$3,500,000				
2012 SRF A \$38,739,000 TRL Lawton Valley WTP - New WTP (DB/Construction)			\$8,910,000 \$8,910,000	\$24,405,000 \$24,405,000	\$5,424,000 \$5,424,000				
Docket 4025 Debt Funded Capital²	\$9,770,008	\$6,562,790	\$18,541,000	\$27,849,000	\$9,599,000				
Docket 4025 Debt Funded Capital Fiscal Year (FY) Contribution³	\$1,893,101	\$2,684,716	\$4,555,537	\$6,657,962	\$6,492,049	\$7,497,917	\$37,567,692	\$37,918,943	\$37,924,431
Proposed Debt Funded Capital Not Approved Under Docket 4025 - Capital Improvement Plan									
2011 to 2030 SRF Proposed S Sediment Assessment - Lawton Brook (Construction)-\$250,000 S Dam and Spillway Rehabilitation - Easton Pond (Construction)-\$6M S Dam and Dike Rehabilitation - Lawton Valley (Construction)-\$2M TD Distribution Main Improvements (System-wide) ¹		\$250,000		\$1,000,000	\$4,000,000 \$1,000,000	\$2,000,000			
Proposed Debt Funded Capital:²	\$0	\$250,000	\$0	\$1,000,000	\$5,000,000	\$2,318,270	\$12,527,482	\$10,348,337	\$16,835,889
Proposed Debt Funded Capital with Borrowing Costs at 6%⁴	\$0	\$265,000	\$0	\$1,060,000	\$5,300,000	\$2,457,366	\$13,279,131	\$10,969,237	\$17,846,042
Proposed Debt Funded Capital Amortized (20-years at 6.5%)⁵	\$0	\$24,050	\$0	\$96,202	\$481,009	\$223,022	\$1,205,166	\$995,528	\$1,619,642
Total Debt Funded Capital (Docket 4025 & Proposed):	\$9,770,008	\$6,827,790	\$18,541,000	\$28,909,000	\$14,899,000	\$2,457,366	\$13,279,131	\$10,969,237	\$17,846,042
Total Debt Funded Capital FY Contribution (Docket 4025 & Proposed):	\$1,893,101	\$2,708,766	\$4,555,537	\$6,754,164	\$6,973,058	\$7,720,939	\$38,772,858	\$38,914,471	\$39,544,073

Note: Proposed Debt Funded Capital is not approved under Docket 4025.

¹ Distribution Main Improvements (System-wide): Design at \$300,000 every other year, Construction at \$3,500,000 every other year in FY2010 dollars. Distribution main improvement costs have been escalated at 3% per year from FY2013/2014.

² Docket 4025 RFC Schedule 4 Compliance (Amended 01-06-2010)

³ Docket 4025 RFC Schedule 5 Compliance and Schedule C Compliance.

⁴ Consistent with Docket 4025 RFC Schedule 5 Compliance; proposed borrowing costs are assumed to be 6% of total project costs.

⁵ Amortized for 20-years at 6.5%. Consistent with Docket 4025 Schedule C Compliance.

TABLE 4-2									
RATE FUNDED CAPITAL									
City of Newport, Rhode Island									
2010 Infrastructure Replacement Plan Update									
	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016-2020	FY 2021-2025	FY 2026-2030
Docket 4025 Rate Funded Capital Effective July 1, 2009 - Capital Improvement Plan									
TD GIS and Hydraulic Modeling	\$90,000								
TD IRP Update-RIDOH due January 2010	\$80,000								
S Water Quality Protection Plan Update-RIWRB	\$80,000								
S WSSMP 5-year update-RIWRB		\$80,000							
S Sediment Assessment - Lawton Brook	\$35,000								
S Main from Gardiner to Paradise Pond	\$150,000								
S Intake at Paradise Pond		\$190,000							
S Intake at Watson & Nonquit		\$250,000							
S Intake at Sissons		\$50,000							
S Demolition of Old Nonquit Pump Station	\$125,000								
S Dam and Dike Rehabilitation - Lawton Valley ²		\$100,000	\$800,000						
S Dam and Spillway Rehabilitation - Easton Pond Design				\$250,000					
TRL Lawton Valley WTP - Chloramine Conversion Design	\$30,410								
TRN Station 1 WTP - Chloramine Conversion Design	\$30,410								
S Distribution Main Improvements (Sherman St.) Design & Const.	\$156,952								
S Meter Replacement (Assume 4% increase/year)	\$64,247	\$66,817	\$69,490	\$72,269					
S Forest Avenue Pump Station Improvements		\$250,000							
CS Water Trench Restoration (Assume 4% increase/year)	\$75,000	\$78,000	\$81,120	\$84,365					
F Fire Hydrant Replacement	\$17,000	\$17,000	\$18,000	\$18,000					
M Equipment and Vehicle Replacement	\$118,000	\$160,000	\$199,000	\$92,000					
Gross Rate Funded Capital:	\$1,052,019	\$1,241,817	\$1,167,610	\$516,634					
Funding From Reserves:	\$0	\$0	\$0	\$0					
Docket 4025 Total Net Rate Funded Capital:	\$1,052,019	\$1,241,817	\$1,167,610	\$516,634					
Proposed Rate Funded Capital Not Approved Under Docket 4025 - Capital Improvement Plan									
TD GIS and Hydraulic Modeling (Assume 3% increase/year)		\$10,000	\$10,300	\$10,609	\$10,927	\$11,255	\$61,547	\$71,350	\$82,715
TD IRP Update-RIDOH due January 2015 (Assumes 3% increase/yr)						\$55,000	\$63,760	\$73,915	\$85,688
S Water Quality Protection Plan Update-RIWRB						\$85,000	\$90,000	\$100,000	\$110,000
S WSSMP 5-year update-RIWRB due July 2017							\$85,000	\$90,000	\$100,000
S Dam and Spillway Rehabilitation - Easton Pond Design					\$250,000				
S Meter Replacement (Assume 4% increase/year) ¹					\$75,160	\$200,000	\$901,000	\$2,740,000	\$1,330,000
CS Water Trench Restoration (Assume 4% increase/year)					\$87,740	\$91,249	\$514,000	\$625,000	\$761,000
F Fire Hydrant Replacement					\$19,000	\$19,000	\$100,000	\$110,000	\$120,000
M Equipment and Vehicle Replacement					\$120,000	\$160,000	\$660,000	\$800,000	\$980,000
S General Dam Fund		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	\$300,000	\$350,000
S St. Mary's Pump Station ³					\$183,750				
S Paradise Pump Station ³				\$83,750					
S Station No. 1 Raw Water Pump Station ³				\$193,750					
S Sakonnet River Pump Station ³				\$151,250			\$12,500		
S Department of Utilities Office / Garage (70 Halsey Street) ³					\$400,000				
TD Automatic Flushing Hydrants (3)		\$45,000							
ST Storage Tanks - Cleaning and Inspection							\$60,000	\$60,000	\$75,000
ST Storage Tanks - Painting							\$700,000		\$1,500,000
Proposed Rate Funded Capital:	\$0	\$105,000	\$60,300	\$489,359	\$1,196,577	\$671,504	\$3,497,808	\$4,970,266	\$5,494,403
Total Rate Funded Capital (Docket 4025 & Proposed):	\$1,052,019	\$1,346,817	\$1,227,910	\$1,005,993	\$1,196,577	\$671,504	\$3,497,808	\$4,970,266	\$5,494,403

Note: Proposed Rate Funded Capital is not approved under Docket 4025.

¹ Meter Replacement: FY2015 (1,000 meters), FY2016-2020 (4,000 meters), FY2021-2025 (10,000 meters), FY 2026-2030 (4,000 meters)

² Dam and Dike Rehabilitation-Lawton Valley; FY2011 Assessment, FY 2012 Design and Short-term improvements

³ Improvement costs include 25% engineering and contingency.



4.3 ASSUMPTIONS

The assumptions used to develop the analysis are the following:

- The FY 2010 rate year was used as the baseline for projecting revenue requirements.
- Operating Revenue Requirements assumed to escalate at 3% per year through the 20-year planning period. An Operating Reserve funded at 3% of the total Operating Revenue Requirements, which is consistent with Docket 4025.
- Revenue Offsets assumed to escalate at 3% per year through the 20-year planning period.
- Calculation of average household bill is based on the current water rate schedule, monthly billing cycles, and average water consumption of 75,000 gallons.
- Capital Improvements that are recurring on an annual basis were escalated at the same rate as Docket 4025 (e.g., Water Trench Restoration at an increase of 4% per year).
- Recommended improvements at the nine facilities include 25% engineering and contingency.
- Proposed Debt Funded Capital Improvement borrowing costs assumed to be 6% of total project costs.
- Proposed Debt Funded Capital Improvements amortized for 20-years at 6.5%, which is consistent with the Debt Service contained within Docket 4025.

4.4 REVENUE REQUIREMENT AND FINANCIAL IMPACT

The revenue requirement is the sum of operating and capital requirements less revenue offsets. Table 4-3 provides the estimated revenue requirements during the 20-year planning period in terms of average household bill (75,000 Gallons) and cost per thousand gallons (\$/1,000 gallons) for residential/commercial/ governmental metered sales.

**TABLE 4-3
REVENUE REQUIREMENTS**

	FY 2010 ⁵	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016-2020	FY 2021-2025	FY 2026-2030
Operating Revenue Requirements¹									
Administration	\$2,130,301	\$2,194,210	\$2,260,036	\$2,327,837	\$2,397,673	\$2,469,603	\$13,504,800	\$15,655,764	\$18,149,322
Customer Service	\$716,920	\$738,428	\$760,580	\$783,398	\$806,900	\$831,107	\$4,544,832	\$5,268,706	\$6,107,875
Source of Supply - Island	\$546,896	\$563,303	\$580,202	\$597,608	\$615,536	\$634,002	\$3,466,985	\$4,019,186	\$4,659,338
Source of Supply - Mainland	\$143,300	\$147,599	\$152,027	\$156,588	\$161,285	\$166,124	\$908,434	\$1,053,124	\$1,220,859
Treatment - Newport Plant (Station One)	\$1,705,900	\$1,757,077	\$1,809,789	\$1,864,083	\$1,920,005	\$1,977,606	\$10,814,358	\$12,536,805	\$14,533,593
Treatment - Lawton Valley	\$1,601,750	\$1,649,803	\$1,699,297	\$1,750,275	\$1,802,784	\$1,856,867	\$10,154,111	\$11,771,398	\$13,646,276
Water Laboratory	\$248,850	\$256,316	\$264,005	\$271,925	\$280,083	\$288,485	\$1,577,556	\$1,828,820	\$2,120,104
Transmission & Distribution Maintenance	\$1,018,696	\$1,049,257	\$1,080,735	\$1,113,157	\$1,146,551	\$1,180,948	\$6,457,907	\$7,486,484	\$8,678,887
Fire Protection	\$14,500	\$14,935	\$15,383	\$15,845	\$16,320	\$16,809	\$91,921	\$106,562	\$123,534
Total Operating Requirements	\$8,127,113	\$8,370,926	\$8,622,054	\$8,880,716	\$9,147,137	\$9,421,551	\$51,520,905	\$59,726,849	\$69,239,788
Capital Revenue Requirements									
Debt Funded Capital Improvements (Docket 4025)	\$2,010,823	\$2,684,716	\$4,555,537	\$6,657,962	\$6,492,049	\$7,497,917	\$37,567,692	\$37,918,943	\$37,924,431
Debt Funded Capital Improvements (Proposed)	\$0	\$24,050	\$0	\$96,202	\$481,009	\$223,022	\$1,205,166	\$995,528	\$1,619,642
Rate Funded Capital Improvements (Docket 4025)	\$1,146,918	\$1,241,817	\$1,167,610	\$516,634	\$0	\$0	\$0	\$0	\$0
Rate Funded Capital Improvements (Proposed)	\$0	\$105,000	\$60,300	\$489,359	\$1,196,577	\$671,504	\$3,497,808	\$4,970,266	\$5,494,403
Total Capital Requirements	\$3,157,741	\$4,055,583	\$5,783,447	\$7,760,157	\$8,169,635	\$8,392,443	\$42,270,666	\$43,884,737	\$45,038,476
Subtotal Revenue Requirements	\$11,284,854	\$12,426,510	\$14,405,501	\$16,640,873	\$17,316,772	\$17,813,994	\$93,791,570	\$103,611,586	\$114,278,264
Additional Revenue Requirements ²	\$243,813	\$251,128	\$258,662	\$266,421	\$274,414	\$282,647	\$1,545,627	\$1,791,805	\$2,077,194
Revenue Requirements before Offsets	\$11,528,667	\$12,677,638	\$14,664,163	\$16,907,294	\$17,591,187	\$18,096,641	\$95,337,198	\$105,403,392	\$116,355,458
Less Revenue Offsets ³	(\$740,378)	(\$762,589)	(\$785,467)	(\$809,031)	(\$833,302)	(\$858,301)	(\$4,693,542)	(5,441,101)	(6,307,728)
TOTAL REVENUE REQUIREMENT	\$10,788,289	\$11,915,048	\$13,878,696	\$16,098,263	\$16,757,885	\$17,238,340	\$90,643,656	\$99,962,291	\$110,047,730
Additional Annual Revenue Needed	\$0	\$1,126,759	\$1,963,648	\$2,219,567	\$659,622	\$480,455	\$300,487	\$390,483	\$403,663
Annual % Revenue Increase Required	\$0	10.44%	16.48%	15.99%	4.10%	2.87%	1.69%	2.00%	1.88%
Average Household Bill (75,000 gallons) ⁴	\$454.99	\$502.51	\$585.33	\$678.94	\$706.75	\$727.02	\$764.57	\$843.17	\$928.24
Residential, Commercial and Governmental \$/1,000 gallons	\$5.25	\$5.80	\$6.75	\$7.83	\$8.16	\$8.39	\$8.82	\$9.73	\$10.71

Notes:

¹ Operating Revenue Requirements assumed to increase at 3% per year

² Consistent with Docket 4025 RFC Schedule 1 Compliance. Used to fund operating reserve. Rate year amount equal to 3% of Total Operating Requirements.

³ Docket 4025 RFC Schedule 6. FY2010 value assumed to escalate at 3% per year.

⁴ Docket 4025 RFC Schedule 8 & 9 Compliance; FY 2010 Billing Charge of \$15.31 and FY 2010 Bill at Current Rates of \$98.44 for quarterly consumption of 18,750 gallons.

⁵ FY 2010 Debt and Rate Funded Capital Improvements in accordance with Docket 4025 RFC Schedule 1 Capital Revenue Requirements.

Figure 4-1 presents the estimated financial impact to the average household bill based on 75,000 gallons during the 20-year planning period. The projected increase for an average household is from \$455 in FY 2010 to \$958 in FY 2030.

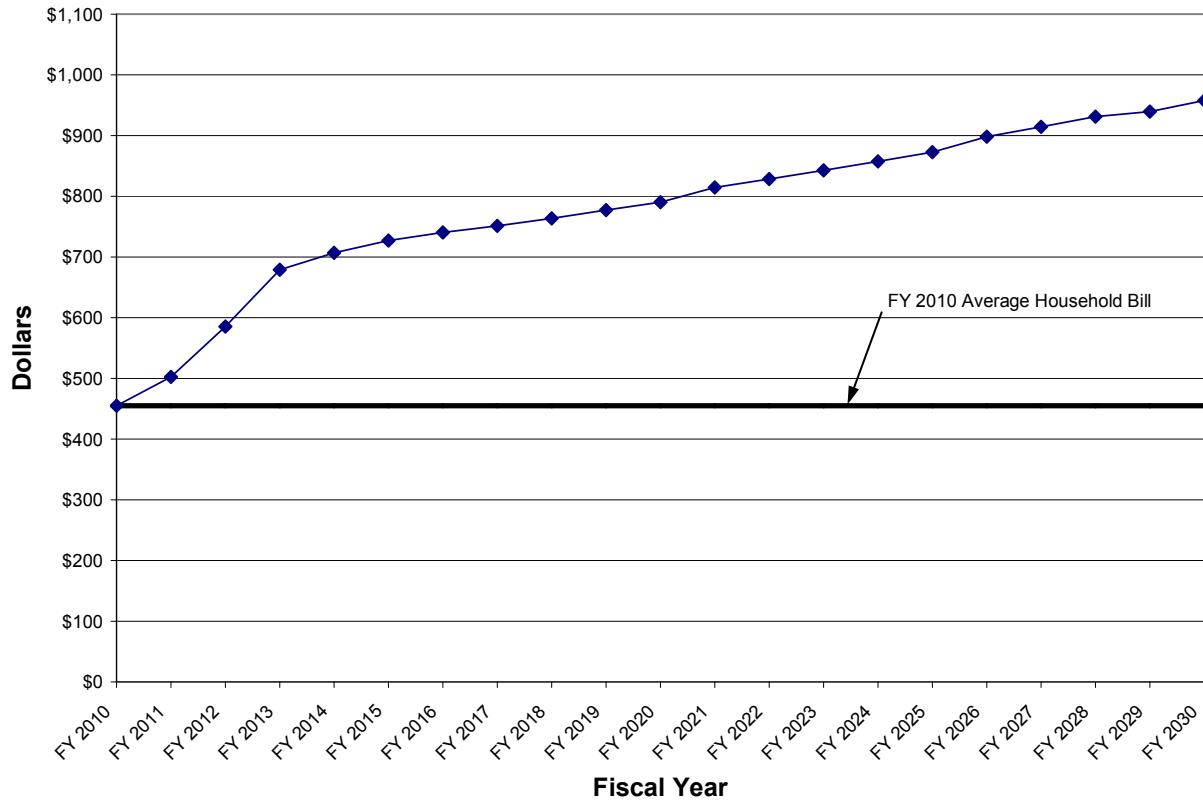


FIGURE 4-1
AVERAGE HOUSEHOLD BILL (75,000 GALLONS)

Figure 4-2 presents the estimated financial impact to residential, commercial and governmental metered sales based on cost per thousand gallons (\$/1,000 gallons). The projected increase is from \$5.25 per 1,000 gallons in FY 2010 to \$11.05 per thousand gallons in FY 2030.

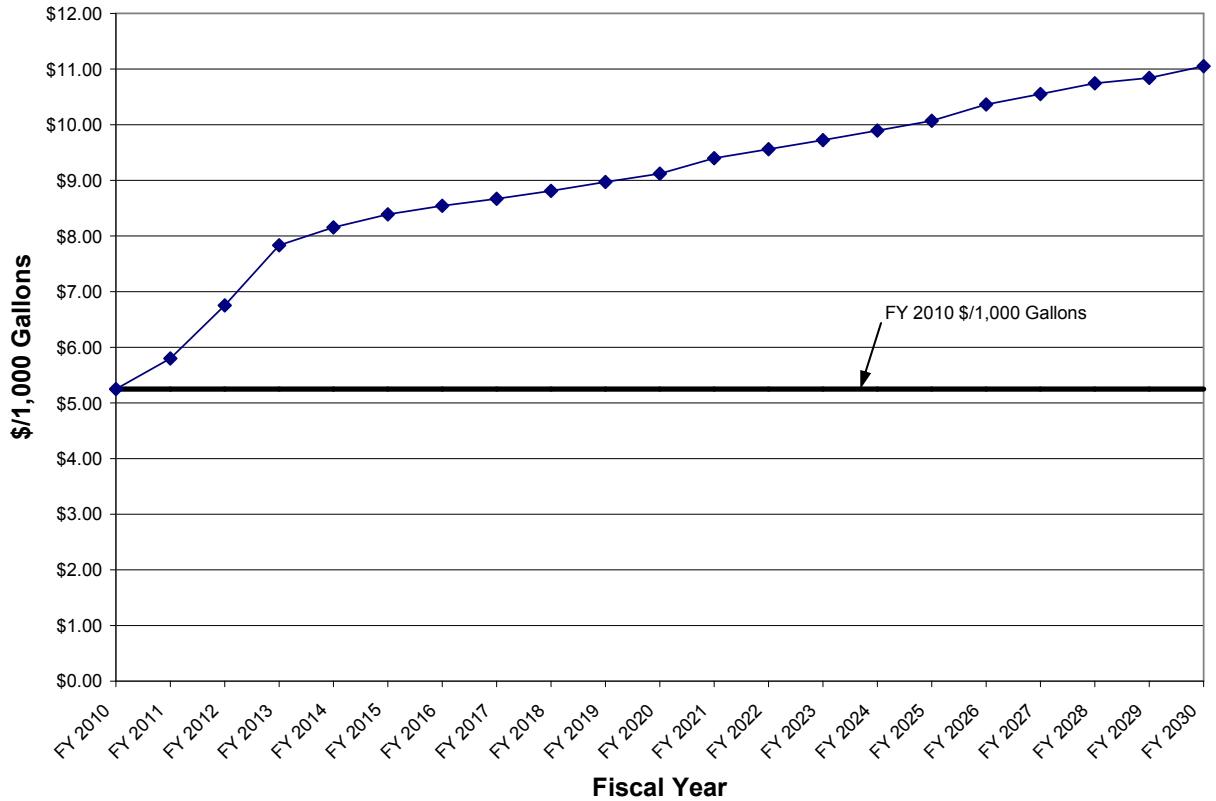


FIGURE 4-2
RESIDENTIAL, COMMERCIAL AND GOVERNMENTAL (\$/1,000 GALLONS)

4.5 SUMMARY

The recommended capital improvements identified within this Infrastructure Replacement Plan update have a significant impact on the NWD's Revenue Requirements over the 20-year planning period. This analysis is a simplification of the actual financial situation of the utility, but it provides a basis for determining the overall impact of capital improvements on projected revenue requirements, and it prioritizes projects and the timeframe in which they will be implemented over the next twenty years; FY 2011 to FY 2030. Assumptions used to complete this analysis should be further refined per the best available information as the NWD completes future rate adjustments.

Section 5

SECTION 5

REFERENCES

The following are the references used in the preparation of the Infrastructure Replacement Plan update:

- *Water Supply System Management Plan Update for the City of Newport, Rhode Island*, Prepared by the Newport Water Division, July 2007.
- *City of Newport, Rhode Island, Infrastructure Replacement Plan Update, Report*, CDM, January 31, 2005.
- *City of Newport, Rhode Island, Reservoirs Safe Yield Study #08-047*, Wright-Pierce, March 2009.
- *City of Newport, Rhode Island, Rhode Island Public Utilities Commission Rate Filing Docket # 4025*, Effective July 1, 2009.
- *Newport Utilities Water Division, Infrastructure Replacement Plan, City of Newport, Rhode Island*, Maguire Group, Inc., July 26, 1999 (revised October 14, 1999).
- *Rules and Regulations for Clean Water Infrastructure Plans [R46-15.6-INFRA]*, State of Rhode Island and Providence Plantations, Department of Health, October 1994 (last revised January 2002, re-filing in accordance with the provisions of section 42-35-4.1 of the RI General Laws, as amended).
- *City of Newport, Rhode Island, WTP Compliance Evaluation, Final Report*, CDM, February 20, 2004.
- *Easton Pond Dam and Moat Study -Final Report*, Fuss & O'Neill, September 2007.
- *EPA Fact Sheets*
- Plant, pump station, and storage tank visits by Wright-Pierce staff and discussions with the City of Newport staff.

APPENDIX A

TECHNICAL MEMORANDUMS SUMMARIZING FIELD INSPECTIONS

Technical Memorandum
Mechanical/Process
September 24, 2009

MEMORANDUM

TO:	Tom Simbro, Peter Quern	DATE:	November 6, 2009
FROM:	Bryan Weiner, Chris Grillo	PROJECT NO.:	11564A
SUBJECT:	City of Newport, RI Comprehensive Pump Station Assessment Technical Memorandum - Process / Mechanical		

Lawton Valley Finished Water PS

Existing Conditions:

The pump station is a metal building on a slab at grade constructed in 1973. The pump station has a 205 KW natural gas generator adjacent to the building for backup power, which is in poor condition due to corrosion, and not operating well. This station is used to transfer finished water from the 4 MG Lawton Valley Finished Water Reservoir to the 2 MG Lawton Valley Standpipe through a 16-inch pipeline. The station contains two constant speed 6 MGD capacity split-case centrifugal pumps.

Code Related Recommendations:

Refer to architectural, electrical, and instrumentation memos.

Design Related Recommendations:

Consider replacement of the natural gas generator within the next 5-years. Consider painting the top of the Lawton Valley Standpipe.

Cost:

Approximate Cost for this work is \$100,000 for the generator, \$20,000 for painting, and \$50,000 for VFD's.

Lawton Valley Raw Water Pump Station

Existing Conditions:

The pump station is a brick masonry building constructed in the 1940s. The concrete floors are cracked, the pumps are old, and the engine drive does not work. There is a new residuals pump station adjacent to the Raw Water Pump Station constructed in 2007. A Kaeser Aeration system was installed recently to help oxidized manganese in the Lawton Valley Reservoir. Pump No.2 (north) is corroded, and the generator engine dates back to the 1940's and does not work.

Code Related Recommendations:

Refer to architectural, electrical, and instrumentation memos.

Design Related Recommendations:

Both pumps were manufactured by Worthington, and were installed in the 1940's with some minor maintenance repair work completed in the 1960's. This pump station would most likely be replaced as part of the construction of a new Lawton Valley WTP incorporating the latest technology in pumps, motors, and instrumentation.

Cost:

Repair to the concrete floor is covered under the Architectural memorandum. The approximate cost for this work is - \$10,000. The costs associated with construction of a new pump station are included in the amount allotted for the new treatment plant.

St. Marys Pump Station

Existing Conditions:

St. Mary's Pump Station is located off of Union Street in Portsmouth, Rhode Island adjacent to St. Mary's Pond. The pump station pumps raw water from St. Mary's Pond to either Bailey's Brook or the Lawton Valley WTP. The pump station was constructed in 1965, and houses one 5.0 MGD pump and one 7.5 MGD pump. Both pumps are dry-pit submersible type manufactured by Worthington with 50 hp and 60 hp motors, respectively. It was reported that these pumps have not been used to pump water to either location in a long time since water can flow by gravity to the Lawton Valley WTP. The station also has a vacuum priming system that is reportedly operational.

Code Related Recommendations:

Refer to architectural, electrical, and instrumentation memos.

Design Related Recommendations:

If this pump station is to be operation again a complete electrical systems upgrade should be considered. The Upgrade should include but not be limited to all new power distribution equipment, lighting, emergency lighting system, fire alarm system, etc. The pumps can only be operated locally; they are well maintained, but have not been operated in many years. The transmission main to the Lawton Valley WTP has recently been upgraded to a larger diameter pipe, so if necessary the pumps may be operated again. If the city plans to operate the pumps again, it is recommended that the station receive a complete electrical upgrade.

Cost:

Cost for this work is covered in the electrical estimate.

Forest Ave Pump Station

Existing Conditions:

The Forest Avenue Pump Station is located on Forest Avenue in Middletown, Rhode Island adjacent to Bailey's Brook. The station is utilized to boost water from the medium pressure zone to the high pressure zone by way of the Goulart Lane Tank. The station was constructed in 1966. The station consists of two 1.0 MGD split-case centrifugal pumps; one primary, and one standby. The pumps are manufactured by Worthington with 75 hp GE Triclad induction motors.

Code Related Recommendations:

Refer to electrical, and instrumentation memos.

Design Related Recommendations:

There are no process/mechanical improvements recommended. Recommendations for this station are covered in the Instrumentation Memo.

Cost:

N/A

Paradise Pump Station

Existing Conditions:

The Paradise Pump Station is used to transfer raw water from Gardner and Nelson Ponds to the Station 1 WTP. The station contains two 4.5 MGD dry-pit submersible pumps with variable frequency drives. One pump is normally in operation and one acts as backup. Installation of a new raw water storage tank was completed in 2005 to provide pre-screening of the raw water. Overall, the station is in good physical condition. The pump motors and VFD's are relatively new with 5 to 10 years of useful life remaining.

Code Related Recommendations:

Refer to architectural and electrical memos.

Design Related Recommendations:

There are no process/mechanical improvements recommended.

Cost:

N/A

Station No.1 Water Treatment Facility

Existing Conditions:

The construction of the 7 MGD Station 1 WTP was completed in 1991. The WTP is located at 100 Bliss Mine Road in Newport at the site of the former treatment facility. The plant is staffed and operated 24-hours a day, 365 days a year. All night, weekend, and holiday calls concerning water emergencies are directed to this facility.

The WTP consists of conventional pre-treatment (rapid mixing and flocculation), suspended bed clarifiers, carbon filters, finished water storage and pumping, chemical feed systems and building support systems including a control room, office space, toilet facilities and a laboratory.

Code Related Recommendations:

Refer to electrical memo.

Design Related Recommendations:

Based on discussions with NWD staff, the plant laboratory is planned to be upgraded and rehabilitated. It is recommended that the finished water discharge piping be replaced. The existing header is made from stainless steel and is exhibiting substantial corrosion throughout. Since the existing piping would need to remain in service, alternate routing of the discharge piping and all new supports would need to be designed. Replacement of the piping with ductile iron piping should be scheduled over the next 5 to 10 years.

Cost:

Approximate Cost for this work is - \$100,000

Station No.1 Raw Water Pump Station

Existing Conditions:

Raw water from North and South Easton Ponds is lifted into the Station 1 WTP via this station. It contains two 2 MGD and two 4 MGD vertical turbine pumps, which are controlled by the level in the WTP clearwells. It is equipped with a 110 KW diesel engine generator and automatic transfer switch. Overall, the pumps are in good physical condition, and with proper maintenance should have another 10 years of useful life remaining.

Code Related Recommendations:

Refer to electrical memo.

Design Related Recommendations:

There are no process/mechanical improvements recommended.

Cost: N/A

Sakonnet Pump Station

Existing Conditions:

The Sakonnet River Pump Station is located in Little Compton, Rhode Island adjacent to Nonquit Pond. The pump station can draw water from both the Watson Reservoir and Nonquit Pond and pump to either St. Mary's Pond, Bailey's Brook or the Lawton Valley WTP. The station was constructed in 1993 and replaced the old Nonquit Pump Station.

The pump station has one 6 MGD (400 hp motor) horizontal split case pump and two 8 MGD (450 hp motors) horizontal split case pumps. All three are manufactured by Fairbanks Morse with US Electric motors. The pumps are in good physical conditions, but are only operated periodically.

Code Related Recommendations:

Refer to architectural memo.

Design Related Recommendations:

There are no process/mechanical improvements recommended.

Cost:

N/A

DPW Garage/Office

Design Related Recommendations:

N/A

Cost:

N/A

Technical Memorandum
Architectural / Structural
October 14, 2009

TO:	Tom Simbro, Chris Grillo	DATE:	October 15, 2009
FROM:	Ron Williams	PROJECT NO.:	11564A
SUBJECT:	City of Newport, RI Comprehensive Pump Station Assessment Technical Memorandum - Architectural		

Dear Tom & Chris,

The following memo outlines my observations and recommendations of nine buildings operated by the Newport Water Division in Rhode Island. These comments are based on a site visit conducted on October 14, 2009. In addition to the observations and recommendations, are cost estimates for the recommendations. The cost estimates include contractor's overhead and profit but do not include any contingency. The costs are also in today's dollars and do not include escalation factors for inflation.

General

The facilities operated by the Newport Water Division include two treatment plants and a number of pump stations. The Lawton Valley Water Treatment Plant is scheduled for complete replacement, and was not observed. The pump stations and treatment plant are listed below in the order we visited them. We also visited the Office Building/Maintenance Garage which is listed at the end.

At all of the stations with guardrails, the guardrails are the old style at handrail height and also serve as a handrail. If major modifications are undertaken at any building with this style of handrail, they may need to be replaced with the higher guardrails required by current codes and separate handrails at handrail height. This report assumes that only repairs are planned for the buildings and does not include any replacement of these guardrails.

All of the buildings included in the site visit do not have automatic sprinkler systems.

Due to the age of some of the buildings, if not already completed, an asbestos survey should be completed before planning any repair work. If any of the buildings contain asbestos, repair cost could be much higher than listed below. No costs for asbestos removal have been included in this memo.

Lawton Valley Finished Water PS

General:

The Lawton Valley Finished Water Pump Station is an approximately 20' by 20', pre-engineered metal building built in 1973. It is about 10' to 11' high. Typical of pre-engineered buildings, the structure is clad in metal panels to form the walls and roof. The roof is a very low slopped gable roof, also typical of these types of buildings. The interior is one open space and all at one level at grade.

Existing Conditions:

- The grade at the perimeter is close to the floor elevation and consists of grass or bituminous pavement. Along two sides of the building the grade is very close to the elevation of the floor slab and grass is growing up against the building, which can help create moisture problems with the building.
- The foundation consists of frost walls with the tops even with the top of the slab (there are no curbs).
- The wall panels are exposed fastener metal panels fastened to structural framing. The enamel finish is faded and there is a lot of corrosion, mainly where the panels meet the concrete foundation.
- The roofing panels could not be observed however there is evidence on the interior of roof leaks. Roof leaking is likely at locations where the fasteners penetrate the roofing.
- The gutters exhibit significant corrosion and large holes. Water can freely run through the gutter and down against the building. Because of the closeness of the grade this situation can cause excess water at the base of the wall speeding up the corrosion issue there. Water running off the roof and through the gutters exacerbates this issue.
- The windows are aluminum double hung windows with single pane glass. Some of the panes are broken.
- There is one pair of hollow metal doors and frames. The door appears to be in fair condition but is due for repainting.
- A galvanized metal louver appears to be in fair condition.
- The floor finish is sealed concrete and appears to be in fair condition.
- The interior wall surface is metal panels and appears to be in fair condition.
- The ceiling surface is bagged insulation spanning over the structural roof framing. The insulation system has suffered from roof leaking. It is stained, torn and deteriorating. The girts show some minor deterioration.
- The building has accumulated a lot of cob webs, dirt and other debris and needs to be thoroughly cleaned.
- At the ceiling level, structural steel framing and metal girts are exposed. The surface is in fair condition and shows some corrosion.

Code Related Recommendations:

The building is small enough to only require one exit. It is centrally located offering the most egress safety in a one exit building. No major architectural code related concerns were noticed.

Design Related Recommendations:

At over 35 years old, many of the components of the building have seen their life expectancy. Main issues with the shell involve corrosion of the metal panels and broken windows. This allows water, rodents and insects to enter the building. Following are three options for increasing the longevity of the building; a low cost option, a mid cost option and a higher cost option. Each increase in cost offers higher quality and increased longevity. We recommend choosing one of the options and completing within the next five years.

Low-cost Option

- At the base of the building, cut a few inches off of the exterior metal wall panels.
- Install new flashing, up and under the existing metal wall panels and down and over the concrete foundation.
- Seal the fastener penetrations in the roof, prep the metal surface for re-painting and paint.
- Remove the existing edge trim, gutters and bagged insulation and replace with new.
- Paint the existing metal wall panels to match the new roof panels.
- Paint the doors.
- Remove corrosion from the exposed steel framing and repaint.
- Replace the windows with new aluminum windows with insulated glazing.
- Remove trees and shrubs away from building.
- Remove a strip of ground vegetation away from building around the perimeter and install a crushed stone drip strip.
- Clean the interior.
- Approximate Cost: \$25,000.

Mid-cost Option

- Remove the existing, exterior metal wall panels, the metal roof panels, edge trim, gutters and bagged insulation.
- Install new aluminum wall and roof panels.
- Install a new pair of doors.
- Replace the windows with new aluminum windows with insulated glazing.
- Install a new louver.
- Remove corrosion from the exposed steel framing and repaint.
- Remove trees and shrubs away from building.
- Remove a strip of ground vegetation away from building around the perimeter and install a crushed stone drip strip.

- Approximate Cost: \$40,000.

Higher-cost Option

- Remove existing shell down to the existing foundation.
- Construct new shell with CMU backup and masonry veneer wall and wood truss roof and metal roofing.
- Remove trees and shrubs away from building.
- Remove a strip of ground vegetation away from building around the perimeter and install a crushed stone drip strip.
- Approximate Cost: \$80,000.

Lawton Valley Raw Water Pump Station

General:

The Lawton Valley Raw Water Pump Station is an approximately 20' by 30', masonry building built in the 1940's. It is about 9' high to the eaves. It has a pitched roof with slate tile roofing. The interior is one open space and all at one level at grade.

Existing Conditions:

- The grade at the perimeter is down about a foot from the floor elevation and consists of grass and gravel. There is some high vegetation growing near the building that should be removed but for the most part there are not concerns noticed with the grading.
- The foundation consists of frost walls with the tops even with the top of the slab (there are no curbs). The exterior surface of the foundation that is above grade should be resealed.
- The structure appears to be 3-wythe thick brick walls with interior and exterior surfaces of face brick. It appears that about 25% of the exterior face brick should be repointed. The exterior surface should also be resealed as part of any improvement project to ensure the longevity of the building.
- The roofing is slate roofing tiles. There is some organic growth on the tiles that should be cleaned off. There is a little evidence of roof leaking on the ceiling inside which appears to be at roofing penetrations.
- The roof trim is wood and includes integral wood gutters at the eaves. The trim exhibits a lot of peeling paint and some rotting. Rotting is especially evident where the downspouts connect. The downspouts are missing. It appears that about 25% of the wood trim should be replaced.
- Window openings are infilled with glass block. Many of the glass blocks are broken, much of the mortar is missing and there is unfinished wood stops on the outside of the windows.
- There is one pair of wood doors and frames. The door leafs are failing and the wood trim exhibits a lot of peeling paint.

- There are two louver openings into the pump room. One has what appears to be an original wood louver which is blocked with a glass sash on the inside. The other opening is infilled with wood down to a smaller galvanized louver which is connected to an exhaust fan. There is also a small wood gable louver in each gable end. The wood work at these openings exhibits a lot of peeling paint.
- The floor finish is painted concrete which exhibits a lot of peeling.
- The ceiling surface is painted panels with strapping. The finish is in fair condition but is due for repainting.

Code Related Recommendations:

The building is small enough to only require one exit. It is centrally located offering the most egress safety in a one exit building. No major architectural code related concerns were noticed.

Design Related Recommendations:

Although an old building, it is constructed of durable materials and many of the systems are in fair or serviceable condition. The main issues with the shell is that the wood trim is in need of repair and repainting. The following recommendations are all options that we recommend undertaking within the next 5 years.

- Remove any high vegetation growing near the building and reseal the exposed concrete foundation walls.
- Repoint mortar joints in the exterior face brick requiring repointing (we estimate 25% of the bricks need repointing).
- Clean the organic growth from the slate tiles and recaulk all penetrations.
- Repair and repaint the wood trim. We estimate about 25% of the existing wood will need to be replaced. Remove all loose paint from existing wood to remain and prep surface for new paint. Install new downspouts.
- Remove the existing glass block that is infilling the window openings and replace with new aluminum double hung windows with insulated glazing and a Kynar finish. One of the existing window openings is infilled with plywood on the interior and exterior. We recommend removing this infill and replacing with a new window also.
- Remove the existing wood door leafs and prep the opening for a new hollow metal door and frame with a pair of leafs. The existing wood casing trim is to remain. Remove any loose paint from the trim and prep for repainting.
- Remove the 4 existing louvers and replace with new aluminum louvers with a Kynar finish.
- Remove all paint on the concrete floor, prep and seal.
- Remove any loose paint from the ceiling, prep and repaint.
- Approximate Cost: \$35,000.

St. Marys Pump Station

General:

The St. Marys Pump Station is an approximately 28' by 23' single wythe CMU building with a low slope concrete plank roof built in 1965. It is about 10' high. The interior is one open space. The access to the building is in one corner and a walkway at the level of grade extends from that door to the other end of the building along the long wall. The rest of the space is down about 5' from that level and contains the pumps.

Existing Conditions:

- The grade at the perimeter consists of either grass or pavement against the foundation wall and is mostly down the floor elevation. The grade on the reservoir side pitches directly to the building and it would be good to provide a swale at this location to direct rail water away from the building.
- The foundation consists of foundation walls with the tops even with the top of the ground level slab (there are no curbs). The exterior surface of the foundation that is painted which is peeling.
- The structure consists of single wythe, 8" CMU walls supporting concrete planks at the roof. The exterior surface of the CMU is painted. Much of the painted surface has worn away and moisture is penetrating the wall and peeling the paint on the inside.
- The roofing is a ballasted tar roof that is past its useful life. Many leaks are evident and the system needs to be replaced.
- The roof trim is mill finish aluminum and in fair condition but should be replaced when the roofing system is replaced.
- There is a single hollow metal door and frame in one corner of the building. The door and frame is in poor condition and should be replaced.
- The windows are aluminum jalousie style windows with single pane glass.
- The floor finish is painted concrete which exhibits a lot of peeling.
- The interior wall finish is painted CMU which exhibits a lot of peeling from water and water vapor infiltration.
- Cast-in-place concrete steps with painted steel rails on the interior provide access from the entrance level to the lower level. The painted steel is due for repainting.
- The underside of the concrete plank is painted to provide the ceiling finish. It is in fair condition but is due for repainting.
- Painted steel beams are provided to assist with pump and equipment removals. The paint is in fair condition but is due for repainting.

Code Related Recommendations:

Per the fire code, in industrial buildings without automatic sprinkler systems, one exit is allowed if an occupant can reach an exit within 50' from the most remote point in the building. If an occupant must traverse stairs in their travel, the distance must be measured along the diagonal plane of the stair nosings. In this building it appears that the distance from the most remote point

to the exit is somewhere around 50'. If it is over 50' an additional door should be added as part of any renovation project. It appears that a door can easily be added at the end of the ground level platform. This is included in the recommendations.

Design Related Recommendations:

Generally the architectural components of the St Marys Pump Station are in poor but serviceable condition. Following are two options for increasing the longevity of the building; a lower cost, lower life expectancy option and a higher cost, longer life expectancy option. We recommend choosing one of the options and completing within the next five years. If the district anticipates continuing operation of this pump station for more than 10 years, we recommend implementing the higher cost option.

Lower-cost Option

- Remove any loose paint from the exterior surface of the CMU and foundation walls, prep for new paint and re-paint with an elastomeric painting system.
- Remove all existing roofing, reseal joints between the concrete planks, and provide a new adhered EPDM and insulation roofing system including new roof edge trim.
- Replace the windows with new aluminum windows with insulated glazing.
- Remove the existing hollow metal door and frame and replace with a new hollow metal door and frame.
- Install a new hollow metal door and frame on the opposite end of the building from the existing door.
- Remove all paint on the concrete floor, prep and seal.
- Remove any loose paint from the ceiling, prep and repaint.
- Remove any loose paint from the walls, prep and repaint.
- Remove any corrosion from steel beams, prep and repaint.
- Remove any corrosion from the interior painted steel railings and repaint.
- Approximate Cost: \$55,000.

Higher-cost Option

- Re-grade on the reservoir side to drain rain water away from the building.
- On the exterior walls provide a layer of 2x3 strapping and 1½" of rigid insulation, then a continuous layer of ¾" insulation and on the exterior surface provide aluminum siding with a Kynar finish.
- Remove all existing roofing, reseal joints between the concrete planks, and provide a new adhered EPDM and insulation roofing system. Provide new roof edge trim also.
- Replace the windows with new aluminum windows with insulated glazing.
- Remove the existing hollow metal door and frame and replace with a new hollow metal door and frame.

- Install a new hollow metal door and frame on the opposite end of the building from the existing door.
- Remove all paint on the concrete floor, prep and seal.
- Remove any loose paint from the ceiling, prep and repaint.
- Remove any loose paint from the walls, prep and repaint.
- Remove any corrosion from steel beams, prep and repaint.
- Remove any corrosion from the interior painted steel railings and repaint.
- Approximate Cost: \$70,000.

Forest Ave Pump Station

Existing Conditions:

The Forest Ave Pump Station is an approximately 20' by 30', masonry building with brick veneer built in 1966. It is about 9' high to the eaves. It has a pitched roof with asphalt tile roofing. The interior is one open space and all at one level at about the level of grade.

Existing Conditions:

- The grade at the perimeter is close to the floor elevation and consists of grass, bituminous pavement and concrete pavement. Some of the base under the concrete walk at the main entrance has been washed out. This should be shored back up.
- The foundation consists of frost walls with the tops even with the top of the slab (there are no curbs). The exterior surface of the foundation that is above grade should be resealed.
- The structure consists of a glazed block back-up with a face brick veneer. The mortar joints in the face brick show a lot of deterioration and all of them should be repointed. The exterior surface should also be resealed as part of any improvement project to ensure the longevity of the building.
- The roofing is asphalt roofing tiles and are past their useful life.
- The roof trim and gable siding is painted wood. The trim exhibits a lot of peeling paint and some rotting. It appears that about 15% of the wood trim may need to be replaced.
- Roof venting consists of only a few round vents in the soffits and a small louver in each gable.
- The gutters are past their useful life and some of the downspouts are missing.
- There is a single hollow metal door and frame at one corner of the building and a double hollow metal door and frame centered on the opposite end. The doors and frames are in poor condition and should be replaced.
- There are two louver openings into the pump room that are not required for ventilation and have been blocked up. The owner should consider removing the louvers and replacing with aluminum windows with insulated glazing to bring some natural light into

the space. There are also decorative wooden louvers at these openings that exhibit a lot of peeling paint.

- The floor finish is terracotta tile and appears to be in good condition.
- The interior wall finish is glazed block and appears to be in good condition.
- The ceiling surface appears to be 12" x 12" adhered acoustical tiles with some staining from roof leaks. These types of tiles from the era of this building often contained asbestos and should be tested prior to removal.
- Painted steel beams are provided to assist with pump and equipment removals. The paint is in fair condition but is due for repainting.

Code Related Recommendations:

The building has two exits, one near each end of the building, which offers good egress safety. No major architectural code related concerns were noticed.

Design Related Recommendations:

Although an old building, it is constructed of durable materials and many of the systems are in fair or serviceable condition. The main issues with the shell is that the wood trim is in need of repair and repainting. The following recommendations are all options that we recommend undertaking within the next 5 years.

- Shore up the walkway near the main entrance.
- Reseal the exposed concrete foundation walls.
- Repoint all mortar joints in the exterior face brick and reseal.
- Remove the existing asphalt shingle roof and install new asphalt shingle roofing. Cut in and install a ridge vent when installing the new shingles.
- Replace any rotted wood trim. Build out rake trim to receive new aluminum siding on the gable faces. Install break metal over existing wood trim and new rake trim. Install continuous eave vents. Install new aluminum siding in the gable faces.
- Remove existing gutters and downspouts and install new.
- Remove the louvers on the front of the building and replace with new aluminum double hung windows with insulated glazing and a Kynar finish. Replace the decorative wooden louvers with high quality vinyl ones.
- Remove the existing hollow metal doors and frames and replace with a new hollow metal doors and frames.
- Remove existing ceiling tile system and attic insulation. Install new attic insulation, a vapor barrier and an FRP panel ceiling system.
- Remove any corrosion from steel beams, prep and repaint.
- Approximate Cost: \$40,000.

Paradise Pump Station

General:

The Paradise Pump Station is an approximately 30' by 15' cast-in-place concrete walled building with a low slope concrete plank roof. It is about 4' high from grade to the entry level and about 10' high above the entry level to the roof. The interior is one open space. The access to the building is near the corner in one of the end walls and a walkway at the level of grade extends along that end wall. The rest of the space is down about 4' from that level and contains the pumps.

Existing Conditions:

- The grade at the perimeter consists of either grass or pavement against the foundation wall and is down about 4' the entrance elevation.
- Cast-in-place concrete steps with galvanized rails on the exterior provide access from grade to the entrance elevation. Some of the concrete at these steps is chipped and missing.
- The foundation and exterior bearing walls are cast-in-place. The exterior surface of the foundation that is painted exhibits some peeling and deterioration.
- The roofing is a ballasted tar roof that is past its useful life. Many leaks are evident and the system needs to be replaced.
- The roof trim is mill finish aluminum and in fair condition but should be replaced when the roofing system is replaced.
- There is a single hollow metal door and frame in one corner of the building. The door and frame is in poor condition and should be replaced.
- The windows are aluminum jalousie style windows with single pane glass.
- The floor finish is painted concrete which exhibits a lot of peeling.
- Cast-in-place concrete steps with painted steel rails on the interior provide access from the entrance level to the lower level. The painted steel is due for repainting.
- The interior wall finish is the interior surface of the concrete bearing walls and is painted. It exhibits some peeling and deterioration from water and water vapor infiltration.
- The underside of the concrete plank is painted to provide the ceiling finish. It is in fair condition but is due for repainting.
- Painted steel beams are provided to assist with pump and equipment removals. The paint is in fair condition but is due for repainting.

Code Related Recommendations:

Per the fire code, in industrial buildings without automatic sprinkler systems, one exit is allowed if an occupant can reach an exit within 50' from the most remote point in the building. If an occupant must traverse stairs in their travel, the distance must be measured along the diagonal plane of the stair nosings. In this building it appears that the distance from the most remote point to the exit is close to 50' but that it is less than 50'. If it is over 50' an additional door will need to

be added as part of any renovation project. Adding a door is not included in the recommendations because the length of travel does appear to be less than 50'.

Design Related Recommendations:

Generally the architectural components of the Paradise Pump Station are in poor but serviceable condition. Following are two options for increasing the longevity of the building; a lower cost, lower life expectancy option and a higher cost, longer life expectancy option. We recommend choosing one of the options and completing within the next five years. If the district anticipates continuing operation of this pump station for more than 10 years, we recommend implementing the higher cost option.

Lower-cost Option

- Repair chipped areas at the concrete steps.
- Remove any loose paint from the exterior surface of the concrete and foundation walls, prep for new paint and re-paint with an elastomeric painting system.
- Remove all existing roofing, reseal joints between the concrete planks, and provide a new adhered EPDM and insulation roofing system. Provide new roof edge trim also.
- Replace the windows with new aluminum windows with insulated glazing.
- Remove the existing hollow metal door and frame and replace with a new hollow metal door and frame.
- Remove all paint on the concrete floor, prep and seal.
- Remove any loose paint from the ceiling, prep and repaint.
- Remove any loose paint from the walls, prep and repaint.
- Remove any corrosion from steel beams, prep and repaint.
- Remove any corrosion from the interior painted steel railings and repaint.
- Approximate Cost: \$50,000.

Higher-cost Option

- Repair chipped areas at the concrete steps.
- On the exterior walls provide a layer of 2x3 strapping and 1½" of rigid insulation, then a continuous layer of ¾" insulation and on the exterior surface provide aluminum siding with a Kynar finish.
- Remove all existing roofing, reseal joints between the concrete planks, and provide a new adhered EPDM and insulation roofing system including new roof edge trim.
- Replace the windows with new aluminum windows with insulated glazing.
- Remove the existing hollow metal door and frame and replace with a new hollow metal door and frame.
- Remove all paint on the concrete floor, prep and seal.
- Remove any loose paint from the ceiling, prep and repaint.
- Remove any loose paint from the walls, prep and repaint.

- Remove any corrosion from steel beams, prep and repaint.
- Remove any corrosion from the interior painted steel railings and repaint.
- Approximate Cost: \$60,000.

Station No. 1 Water Treatment Facility

General:

The Station No. 1 Water Treatment Facility is an approximately 140' long by 90' wide, cast-in-place concrete framed building with a flat roof. CMU backup is used to infill between the concrete framing members and the exterior skin consists of face brick veneer in some areas and ground faced precast concrete panels in other areas. It was built in 1991, replacing an existing water treatment plant on the site. Most of the building is about 15' high to the underside of the concrete roof deck. The support spaces at the main entrance are about 12' to the underside of the concrete roof deck. The floor elevation of the support spaces are also about 4' lower than the rest of the building. These spaces include a lab, admin space, utility rooms, locker rooms and a lunchroom.

Existing Conditions:

- Around the building there is exposed concrete tankage, foundation walls, and banding near the base of the exterior walls. As part of the original project, this concrete received a cementitious coating. This coating has failed with much of it missing and flaking off. At the tanks, in addition to the coating, much of the concrete surface has also spalled off. At some point water likely infiltrated the coating and was held between the coating and the tanks and in freezing weather has caused the concrete to spall. Except for at the tanks, most of the concrete appears to be in fair condition with exception of the failed coating.
- The concrete walk at one set of exterior cast in place concrete steps has settled.
- Exterior railings are mill finish aluminum and appear to be in fair condition.
- The exterior skin consists of face brick in some areas and ground faced, precast concrete panels in others. Both systems appear to be in fair condition. Both systems should be resealed as part of any improvement project and the joints between the precast panels should be re-caulked.
- At the top of the walls with brick veneer is a precast concrete block parapet. This parapet has exposed joints between the blocks on the sides and on the top. These joints have failed and water is getting in the joints and efflorescing on the face brick below.
- The doors and windows are storefront style aluminum with a black anodized finish. They appear to be in good condition however as part of any improvement project the joints at the edges of these openings should be re-caulked. Also many of the screens on the interior of the windows are damaged and should be replaced.
- The louvers are aluminum with a black anodized finish and appear to be in fair condition.

- There is one roll-up door in the exterior walls. It has a painted steel finish. It is not sealed at the top on the interior side. This door is past its useful life and should be replaced.
- There is a lot of evidence of roof leaking in the interior of the building. The roofing is a ballasted EPDM roof system over the concrete roof deck. The EPDM appears to be in fair condition however the flashing details at curbs are an old built-up tar and gravel style that doesn't work with EPDM. Water is likely entering at penetrations in the EPDM membrane. The roof has several square acrylic domed skylights. The outer acrylic dome on most of these is broken and water is also likely entering the building through these skylights. The aluminum roof edge trim at the areas with the precast concrete wall panels appears to be in good condition.
- Most of the floors use what appears to be an epoxy coating on the concrete slab. It exhibits a fair amount of peeling. Some of the floors in the support areas use VCT. The VCT is stained and looks bad.
- Most of the wall surfaces consist of paint on CMU and concrete. For the most part this system appears to be in good condition. There is some peeling on walls that separate tanks from occupied space. The interior surface of the exterior wall at the clarifier tanks and at the truck bay also exhibits some peeling. The walls in the support spaces use glazed block which appears in good condition.
- For ceiling systems, some areas have paint on the concrete roof deck above and some areas have suspended ACT. There is evidence of roof leaks in both systems. The tiles in the ACT system also exhibit a lot of sagging and should be replaced. A gypsum board soffit system provides a transition from the ACT ceiling system to the skylight in corridor adjacent to the clarifier tanks. This gypsum board soffit system has a lot of water damage.
- Most of the interior doors and all of the interior windows are storefront style aluminum with a black anodized finish and appear to be in fair condition. Many of the doors in the support spaces are painted hollow metal doors in frames and appear to be in fair condition.
- The interior stairs are aluminum with a mill finish and appear to be in good condition.
- One of the interior stairs provides access to the roof through a hatch. The hatch appeared to be in good operating condition.
- Painted steel beams are provided to assist with equipment removals. The paint is in fair condition but is due for repainting.

Code Related Recommendations:

No major architectural code related concerns were noticed.

Design Related Recommendations:

The building is less than 20 years old and is constructed of durable materials. Predominantly the architectural systems are in good condition. There are some concerns and we recommend undertaking the following concerns within the next 5 years.

- Verify that the settled walkway has finished settling and top with additional concrete to re-level the walkway.
- At the tankage remove all loose cementitious coating and loose concrete. Repair and recoat all surfaces with a high performance, trowel grade repair mortar.
- Remove all of the existing cementitious coating from the exposed concrete foundation walls. Patch the concrete at the areas where concrete is missing. Apply a new cementitious coating to the exposed concrete surfaces.
- Reseal the exterior face brick and the precast concrete panels.
- Re-flash all penetrations in the existing EPDM roofing.
- Replace all skylights with new skylights with fall protection rated safety glass.
- Provide a new aluminum cap with an anodized finish to match existing over the precast concrete parapet.
- Re-caulk around all of the exterior openings.
- Replace the roll-up door.
- Remove all VCT flooring and replace.
- Remove all loose epoxy flooring and patch those areas. Recoat all areas with epoxy flooring with a coloring top coat.
- Replace all ACT ceilings.
- Repair painted ceiling finishes that are damaged.
- Remove loose paint, prep and repaint walls with water damage.
- Approximate Cost: \$285,000.

In addition to the above concerns the owner should plan on removing the entire ballasted EPDM roofing system and replacing with an adhered EPDM and rigid insulation roofing system in 5 to 10 years. The approximate cost for this work, in today's dollars is \$200,000.

Station No.1 Raw Water Pump Station

General:

The Station No. 1 Raw Water Pump Station was the original treatment building on the site constructed in the 70's. Since the new treatment building was built, it has been used as a pumping facility to pump water from the reservoir to the new treatment building. It is an approximately 80' long by 40' wide, cast-in-place concrete framed building with a flat roof. The concrete frame is exposed on the interior and exterior with CMU backup and exterior brick veneer used to infill between the concrete framing members. The ground floor of the building is about 4' above grade and the top of the building is about 14' above that. At one corner of the building, for the full height of the building is a cast-in-place concrete wet well.

Existing Conditions:

- The grade at the perimeter consists of either grass or pavement against the foundation wall and is down about 4' the entrance elevation.
- Cast-in-place concrete steps with dark brown anodized aluminum rails on the exterior provide access from grade to the entrance elevation at each end of the building. The concrete is in fair condition but some of the aluminum railing is missing.
- The exterior wall surfaces consist of face brick and the concrete framing members. The concrete surface shows some minor degradation and organic build-up and the face brick appears to be in fair condition. Both systems should be cleaned and resealed.
- The doors and windows are storefront style aluminum with a dark brown anodized finish. The doors are in fair condition. The window framing is also in fair condition but the glazing is in poor condition. The seal on many of the glazing units have failed and many of the units are broken. The exterior aluminum surfaces also exhibits a lot of chalking.
- The louvers are aluminum with a dark brown anodized finish and appear to be in fair condition.
- The joints around the openings should be recaulked.
- The roofing is a ballasted tar roof that is in poor condition. There are many holes in the flashing and the entire roofing system needs to be replaced. New roof edging should be installed with the new roofing. The edging should extend down onto the exterior face of the building. Above the wet well there is a piece of equipment that is no longer used and should be removed.
- The floor is sealed concrete slabs and appears to be in good condition.
- The interior wall surfaces are sealed concrete and natural finish CMU. Both surfaces appear to be in fair condition.
- The ceiling surface is cast-in-place sealed concrete and appears to be in fair condition.
- Interior doors are hollow metal doors in hollow metal frames and appear to be in fair condition.

Code Related Recommendations:

The building has two exits, one near each end of the building, which offers good egress safety. No major architectural code related concerns were noticed.

Design Related Recommendations:

Although an older building, it is constructed of durable materials and many of the systems are in fair or serviceable condition. The main issues with the shell is that the masonry surfaces need to be thoroughly cleaned and resealed, the roofing needs to be replaced and the glazing needs to be replaced. Structurally the building appears in fair condition. The following recommendations are all options that we recommend undertaking within the next 5 years.

- Replace the sections of railing that are missing from the exterior steps.
- Clean the exterior concrete surfaces and face brick and reseal.

- Remove the existing ballasted tar roofing and replace with a new adhered and insulated EPDM roofing system. When installing the new roofing, install new aluminum roof edge trim with the outside face extending down onto the face of the concrete walls.
- Re-caulk around all openings in the exterior walls.
- Install new insulated glazing in all of the exterior windows.
- A ladder and roof hatch provides access to the roof. This system appears mainly in good condition but the operating parts of the hatch should be serviced to ensure continued longevity and safety.
- Approximate Cost: \$80,000.

Sakonnet Pump Station

General:

The Sakonnet Pump Station is an approximately 62' by 36' concrete framed building clad with a face brick veneer. Infilling between the concrete framing members is CMU backup. On top of the concrete frame is a pitched roof framed of wood to house HVAC equipment. The building is about 13' high to the eaves and was built in 1993. Grade is generally down from the ground floor elevation about 3' around the building. At one corner the grade rises to the level of the ground floor elevation at the main entrance and a roll-up door.

Existing Conditions:

- The grade at the perimeter consists of either grass or pavement against the foundation wall and is mostly down about 3' the entrance elevation.
- Cast-in-place concrete steps with clear anodized aluminum rails on the exterior at one of the access points appears to be in good condition.
- Exterior wall surfaces are face brick and appear to be in good condition. On the back end of the building the caulking in a joint around a panel in the face brick is missing.
- The doors, windows and louvers are aluminum with a clear anodized finish and appear to be in good condition.
- There is one aluminum roll-up door with some damage. The original intention was to have this door mounted on the interior face of the wall. Due to interferences with the concrete frame it was installed on the exterior face of the wall.
- The roofing is 3-tab asphalt shingle roofing. It appears to still have some life left but does appear to be nearing the end of its useful life.
- The roof trim at the rakes, eaves and soffits is solid color stained wood. A gable dormer style overhang at the main entrance also uses wood clapboard siding with a solid color stain. The wood appears to be in fair condition but the stain has some fading and a new coat of stain should be applied.
- The roof is vented with strip vents at the eaves and gable vents at the top. When reroofing we recommend cutting in ridge vents for more even venting.
- The floor is painted concrete slabs and appears to be in good condition.

- The interior wall surfaces are painted CMU and appear to be in good condition.
- The ceiling surface is cast-in-place sealed concrete and appears to be in fair condition.
- Floor, wall and ceiling finishes in the basement are sealed concrete and appear to be in good condition.
- Interior doors are painted hollow metal doors and frames and appear to be in good condition.

Code Related Recommendations:

Per the Rhode Island State Fire Code, for an area to have only one exit, an occupant must reach an exit within 50'. For the Rhode Island State Building Code this allowance is 75'. From the most remote point in the basement level it appears that an occupant would need to travel almost 150' to reach the exit (measured per code requirements). Another situation exasperating this problem is that the basement exhaust is being drawn through the stair opening. It appears that if the open stair was enclosed at both levels and separated from the rest of the building with 1-hour rated construction, the distance to an exit from the most remote point in the basement could be reduced to about 75'. At the ground level a door to the exterior will need to be provided in the stair enclosure. This could meet the building code and make the basement level a lot safer, but it would not meet the fire code. Local code enforcement may accept this as a viable fix for this existing non-compliance. We estimate the approximate cost for this work to be \$50,000.

If local code enforcement insists on providing two means of egress from this space, they may accept adding a ladder and a hatch as a second means of egress. It may be possible to add one in the loading dock area.

Another option to enclosing the stair and/or adding a ladder would be to classify the basement as a permit required confined space.

From the office and loading dock area, the only code recognized exit is the entrance door at the other end of the building. From the most remote point in the office it appears that an occupant would need to travel around 90' to reach this exit. Another exit from the loading dock area should be created with exterior steps to grade. The loading dock doors are not recognized as an exit because they are held shut with a locking bar and there is no steps leading from them to the level of grade. We estimate the approximate cost for this work to be \$20,000.

The top 6' of the concrete walls in the basement level are insulated with polystyrene rigid insulation on the basement side. Code does not allow this insulation to remain exposed to interior occupied spaces. In a fire it will emit deadly off gasses. We recommend covering over the existing insulation with 1/2" of a heavy duty aluminum faced polyisocyanurate rigid foam insulation rated for interior exposure like Thermax by Dow. This will add insulation value and provide the cover required for the existing polystyrene. The existing stair handrail should be removed, solid wood blocking installed to even with the face of the polyisocyanurate and the

handrail reinstalled. Paint the blocking to match the color of the aluminum face of the polyisocyanurate. We estimate the approximate cost for this work to be \$20,000.

Design Related Recommendations:

The building is fairly current and for the most part the architectural systems are in good condition.

- Caulk the joint on the back of the building that is missing caulk.
- Remove the existing roll-up door. Install a narrower roll-up door that will fit between the concrete beams above the opening. Provide steel or masonry infill at the jambs to allow for the narrower door.
- Re-stain the wood trim and siding.
- Approximate Cost: \$10,000.

In addition to the above concerns the owner should plan on installing a new asphalt shingle roofing system in 5 to 10 years. The approximate cost for this work, in today's dollars is \$10,000.

DPW Garage/Office

General:

The DPW Garage/Office is an approximately 100' long by 40' wide, pre-engineered metal building built in 1967. It is about 14' high to the eaves. Typical of pre-engineered buildings, the structure clear spans the interior from side wall to side wall and is clad in metal panels to form the walls and roof. The roof is a very low sloped gable roof, also typical of these types of buildings. The interior is one level at grade.

Existing Conditions:

- The grade at the perimeter is essentially at the floor elevation and consists of bituminous and concrete pavement against the building slab.
- The wall panels are exposed fastener metal panels fastened to structural framing. The enamel finish is significantly weathered away and there is a lot of surface corrosion.
- The roofing panels could not be observed however there is evidence on the interior of roof leaks. Roof leaking is likely at locations where the fasteners penetrate the roofing.
- Gutters and down spouts also show significant surface corrosion.
- The windows are aluminum double hung windows with single pane glass. The windows are near the end of their useful life and should be replaced.
- The exterior doors are mainly hollow metal doors and frames. One former overhead door opening was infilled with T1-11 sheathing. A residential style metal clad wood door and frame was also installed in this infill. The doors are near the end of their useful life and should be replaced.
- The garage bays use insulated aluminum overhead doors and appear to be in fair condition.

- The garage bays and service areas utilize concrete floor finishes which appear to be in fair condition. The office areas use vinyl and carpet finishes which are in poor condition.
- The wall finishes in the garage areas are craft paper faced fiberglass batt insulation. This system must be covered with an approved material to meet code. The craft paper face is also ripped in many areas.
- The office areas utilize many wall surfaces including 70's style paneling, painted CMU and painted drywall. Most of these systems are in fair structural condition but could use a fresh coat of paint.
- The ceiling surface is bagged insulation spanning over the structural roof framing in the garage area and the office area has an ACT ceiling system. The insulation system has suffered from roof leaking. It is stained, torn and deteriorating. The girts show some minor deterioration. With the exception of water stained tiles, the ACT system appears to be in fair condition.
- The interior doors are mostly wood doors in wood frames and are in poor condition.

Code Related Recommendations:

Egress safety in the building appears to be good. The wall insulation in the garage bays does not appear to be rated for interior exposure and should be enclosed. We recommend covering with ACX grade plywood and painting. This will enclose the insulation and provide a durable surface for the garage. We estimate the approximate cost for this work to be \$10,000.

Design Related Recommendations:

At over 40 years old, many of the components of the building have seen their life expectancy. The main issues with the shell are that the roof is leaking and a lot of surface corrosion is the aesthetics of the building. The interior also suffers from dated materials that effect the aesthetics of the building. Following are two options for increasing the longevity of the building; a low cost option and a higher cost option. The higher cost option offers higher quality and increased longevity. When making a decision on which direction to proceed in, for comparison purposes, a building of the same size and mix of uses but with an upgrade in durability could be expected to cost approximately \$800,000.

Low-cost Option

- Seal the fastener penetrations in the roof, prep the metal surface for re-painting and paint.
- Prep and paint the existing metal wall panels, gutters and downspouts.
- Replace the exterior doors.
- Replace the windows with new aluminum windows with insulated glazing.
- Replace the interior floor finishes in the office spaces.
- Repaint the walls in the office areas.
- Replace the doors in the office areas.
- Replace the ceiling tiles that are damaged.

- Approximate Cost: \$165,000.

Higher-cost Option

- Remove the existing, exterior metal wall panels, the metal roof panels, edge trim, gutters and bagged insulation.
- Install new aluminum wall and roof panels.
- Replace the exterior doors.
- Replace the windows with new aluminum windows with insulated glazing.
- Replace the interior floor finishes in the office spaces.
- Apply drywall over the paneling surfaces and paint.
- Repaint existing drywall finishes in the office areas.
- Replace the doors in the office areas.
- Replace the ACT ceiling tile system.
- Approximate Cost: \$300,000.

Conclusion

For each facility visited we have made recommendations as listed above. The estimated costs for these recommendations do include contractor's overhead and profit but do not include any costs for contingency or asbestos removal. All costs are also in today's dollars and do not include any escalation factors for completing the work in the future.

Technical Memorandum
Electrical
October 14, 2009

MEMORANDUM

TO:	Tom Simbro, Chris Grillo	DATE:	October 15, 2009
FROM:	Dan Marchand	PROJECT NO.:	11564A
SUBJECT:	City of Newport, RI Comprehensive Pump Station Assessment Technical Memorandum - Electrical		

Lawton Valley Finished Water PS

Existing Conditions:

The pump station was built in 1973 and has all the original electrical equipment. The electrical equipment consists of a Westinghouse Motor Control Center, Two 480-120/208V transformers one feeding the garage and the other feeds the 120/208V equipment within the PS. There is a Russ Electric ATS and an Emergency Circuit Breaker. Existing generator is located in the basement of the Lawton Valley Treatment Plant. All equipment is in fair condition

Building lighting consists of 1x4 enclosed fluorescent fixtures, which are original equipment in Fair condition. There are no lighted exit signs or emergency battery lighting in the building.

Wiring devices such as switches and receptacles are in good condition. Conduit systems, boxes, and fittings within the building all appear in good condition. The conduits from the "tin can" to the building are not sealed. NEMA ratings for electrical equipment appear to be correct for all areas.

No fire alarm or security systems were noted in the building.

Code Related Recommendations:

Provide emergency battery lighting in the building as backup in the event of generator failure.

Design Related Recommendations:

Provide a complete electrical systems upgrade including but not limited to all new distribution equipment, lighting, and controls.

Cost:

Approximate Cost for this work is - \$75,000

Lawton Valley Raw Water Pump Station

Existing Conditions:

The electrical distribution equipment for this pump station was installed in 1993 and appears to be in good working condition. The main circuit breakers appears to be a 480V, 600A Cutler-

Hammer circuit breaker. This circuit breaker then feeds several other smaller disconnects which feed the electrical heat, motor starters and lighting.

Building lighting consists of incandescent pendant mounted fixtures, which are original equipment in good condition. There are no lighted exit signs or emergency battery lighting in the building.

No fire alarm or security systems were noted in the building.

Code Related Recommendations:

Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power failure.

There is a pipe that appears to be closer than the code required 4' working space in front of the 480V electrical equipment. This equipment should be relocated further down the wall to avoid the existing pipe.

Design Related Recommendations:

Provide new 1x4 surface mounted Fluorescent enclosed and gasketed fixtures.

Provide a new exterior mounted lighting fixture above the door.

Cost:

Approximate Cost for this work is - \$10,000

St. Marys Pump Station

Existing Conditions:

The electrical distribution equipment for this pump station was installed in the 1960's. The incoming electrical service is underground from Union Street to a pad mounted transformer. The incoming service appears to be 480V, 225A, 3-phase, 3-wire. There is a Westinghouse Motor Control center located in the pump station. This MCC is original and in poor condition. The pump station is not operated on a regular basis.

Building lighting consists of fluorescent pendant mounted fixtures, which are original equipment in poor condition. There are no lighted exit signs or emergency battery lighting in the building.

No fire alarm or security systems were noted in the building.

Code Related Recommendations:

Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power failure.

Design Related Recommendations:

If this pump station will be used on a more regular basis, a complete electrical systems upgrade should be considered. The Upgrade should include but not be limited to all new power distribution equipment, lighting, emergency lighting system, fire alarm system, etc. within the building.

Cost:

Approximate Cost for this work is - \$75,000

Forest Ave Pump Station

Existing Conditions:

The electrical distribution equipment for this pump station was installed in the 1960's. The incoming electrical service is underground from a utility riser pole to a pad mounted transformer. The incoming service appears to be 480V, 225A, 3-phase, 3-wire. There is a GE Motor Control center located in the pump station. This MCC is original and in fair condition.

There is a 125KVA natural gas Generac emergency generator and a Generac ATS. The generator is located in an outdoor enclosure in the back of the pump station. The ATS is located in the pump station next to the motor control center. The generator and ATS were installed in 1993 and appear to be in good condition.

Building lighting consists of 1x4 fluorescent recessed fixtures with acrylic lenses, which are original equipment in fair condition. There are no lighted exit signs or emergency battery lighting in the building. There is no exterior mounted lights or emergency lights.

No fire alarm or security systems were noted in the building.

There is telephone service to this pump station. It appeared that there are 4 separate lines to the building. The telephone wiring is located in a junction box which was missing a cover. The wiring was spliced together and wrapped with black electrical tape.

Code Related Recommendations:

Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power/generator failure.

Design Related Recommendations:

Provide a complete electrical systems upgrade including but not limited to all new distribution equipment, lighting, fire alarm and controls. The existing generator shall remain.

Provide a new junction box with cover for the telephone system. Redo all telephone splices.

Cost:

Approximate Cost for this work is - \$75,000

Paradise Pump Station

Existing Conditions:

The electrical distribution equipment for this pump station was installed in the 2005. The incoming electrical service is overhead from pole mounted transformers located on a utility riser pole. The incoming service appears to be 480V, 700A, 3-phase, 3-wire. There is a 480V power distribution panel which feeds all the loads within the pump station. Two Dan Foss VFD's are located in the lower portion of the pump station next to the motors. There appears to be rust forming on the VFD's.

Building lighting consists of 1x4 fluorescent enclosed pendant mounted fixture, which are original equipment in good condition. There are no lighted exit signs or emergency battery lighting in the building. There are no exterior mounted emergency lights.

No fire alarm or security systems were noted in the building.

There is telephone service to this pump station. It appeared that there was one single line to the building.

Code Related Recommendations:

Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power failure.

Cost:

Approximate Cost for this work is - \$5,000

Station No.1 Water Treatment Facility

Existing Conditions:

The electrical distribution equipment for this treatment facility was installed in 1991. The incoming electrical service appears to be 480V, 1200A, 3-phase, 3-wire. There is a 1200A, 480V Main circuit breaker which feeds 2 separate 1200A Siemens motor control centers. All equipment is original and appears to be in good condition.

Building lighting consists of 2x2 and 2x4 fluorescent recessed fixtures with acrylic lenses in the office area and 1x4 fluorescent enclosed pendant mounted fixture in all other areas. Fixtures are original equipment in good condition. The emergency battery units are original and appear to be in fair to poor condition.

There is an Edward's fire alarm control panel which appears to be in fair to poor condition. There are fire alarm devices located throughout the facility. All devices appear to be in good condition.

There is a National Security system installed in the facility. The security system appears to be new and in good condition.

There is telephone service to this pump station.

Code Related Recommendations:

The motor control centers do not appear to have the code required 4' working clearance.

There is a dry-type transformer located in a corner with another transformer blocking access to this transformer. This is in violation of the code required working clearance of 4'.

Panel PBA and the sub-panel both located in the basement and both are in violation of the code required working clearance. There is no access to the sub panel since it is located on the other side of a pit. Panel PBA is located half over the pit and half over the landing.

The electrical room is also used as a storage room.

Design Related Recommendations:

Emergency lighting should be upgraded.

Some of the light fixtures in the LAB appear to have water damage. The fixtures that have suffered water damage should be replaced.

Some of the conduits appear to have started to rust in the filter area. Consider upgrading these conduits.

A new Fire Alarm Control Panel should be installed to replace the older Edward's control panel.

Cost:

Approximate Cost for this work is - \$100,000

Station No.1 Raw Water Pump Station

Existing Conditions:

The electrical distribution equipment for this pump station was installed in 1979. The incoming electrical service is underground from a utility riser pole to a pad mounted transformer. There is a Westinghouse 5 star Motor Control center located in the pump station. This MCC is original and in fair condition. There are 4 new Dan Foss VFD's feeding the Raw Water Pumps. There is a complete Ozone system which is no longer used.

Building lighting consists of 1x4 industrial pendant mounted fluorescent fixtures, which are original and in fair condition. There are no lighted exit signs or emergency battery lighting in the building. There are no exterior mounted emergency lights.

There is a Honeywell fire alarm system. The control panel is a fire-lite control panel. The only devices noted in the building were heat detectors.

No security system was noted in the building.

Code Related Recommendations:

Provide emergency battery lighting in the building and outside at the entrance door as backup in the event of power failure.

Design Related Recommendations:

Provide a complete electrical systems upgrade including but not limited to all new distribution equipment, lighting, and fire alarm. (VFD's are new and can be remain)

The removal of the two motor starters which are not used should be considered.

Cost:

Approximate Cost for this work is - \$75,000

Sakonnet Pump Station

Existing Conditions:

The electrical distribution equipment for this pump station was installed in 1992. The incoming electrical service is underground from a utility riser pole to a pad mounted transformer located outside in a fenced in area. The service appears to be 2400V, 3-phase, 3-wire. The underground service feeds a 2400V, 1200A Square D main circuit breaker. The main circuit breaker feeds 4 Square D Iso-Flex motor Starters and 1 Square D motor control center. Power is then distributed throughout the facility from this motor control center. All equipment is in good condition.

Building lighting consists of 1x4 industrial pendant mounted fluorescent fixtures in the electrical room and 1x4 enclosed and gasketed fluorescent fixtures though out the rest of the pump station. There are exit signs and emergency battery lighting located throughout the pump station. All lighting equipment is in good condition.

There is a fire alarm and security system in the facility. The fire alarm system is a simplex system and is in good condition. The security system is not operational.

Code Related Recommendations:

None

Design Related Recommendations:

Consider installing some emergency battery units on the exterior at the entrance door.

Cost:

Approximate Cost for this work is - \$1,000

DPW Garage/Office

Design Related Recommendations:

Provide a new panelboard to replace the original panel located in the building.

Cost:

Approximate Cost for this work is - \$10,000

Technical Memorandum
Instrumentation/Controls
October 14, 2009

MEMORANDUM

TO:	Tom Simbro, Chris Grillo	DATE:	November 6, 2009
FROM:	Rob Meharg	PROJECT NO.:	11564A
SUBJECT:	City of Newport, RI Comprehensive Pump Station Assessment Technical Memorandum - Instrumentation & Control		

Lawton Valley Finished Water Pump Station

Existing Conditions:

There are currently two 125HP Worthington finished water pumps used to fill the Lawton Valley Standpipe. Each pump has manual start/stop pushbuttons and a run indicating light located on its respective motor starter enclosure. The pumps are automatically started in a lead / standby sequence based on the Lawton Valley Standpipe level.

Each pump has a Hand/Off/Auto hand switch located in the Water Treatment Plant, below the Lawton Valley Standpipe chart recorder. In Hand, the pump control is transferred to the Start/Stop pushbuttons on the Motor Starter. In Auto, the lead pump is started at a Standpipe elevation of 63' and stopped at 75'. The Standpipe level is communicated via an analog leased line by a pulse signal.

Code Related Recommendations:

- To meet OSHA requirements, each pump is required to have a locally mounted, red, mushroom-head maintained emergency stop pushbutton that will immediately shut down the associated pump motor.

Design Related Recommendations:

- Currently there is no way an operator could know, while at the pump station, who has control of the pumps (either at the WTP or at the motor starter). The Hand/Off/Auto hand-switch should be relocated from the WTP to the Finish Water Pump building. The H/O/A switch could be located on a local control station at the pump, or on the face of the motor starter enclosure.
- Provide local Emergency Stop switches adjacent to each Finished Water pump. Each Emergency Stop hand switch should immediately shut down the associated pump.
- As part of the Water Treatment Plant upgrade, the telemetry between the Lawton Valley Standpipe and the WTP should be upgraded. Radio telemetry should be investigated.
- The automatic finish water pump control should be included as part of the WTP's controls upgrade. The relay logic should be replaced by a PLC. The PLC at the WTP

could be programmed to start and stop the pumps in an alternating sequence based on adjustable level setpoints from the Lawton Valley Standpipe. The same PLC could be used to monitor the run status, elapsed runtime, overload alarm, and fail-to-start alarm of each pump. It is assumed that the new WTP will have a SCADA computer to view this information.

- When replacing the motor starters, VFDs or soft starters should be considered. If a VFD or soft starter is used, the pump motors must be upgraded to be inverter duty rated.

Costs:

- Relocating H/O/A switches - This cost is covered under electrical upgrade section.
- Emergency Stops - This cost is covered under electrical upgrade section.
- Lawton Valley Standpipe Telemetry Upgrade - This cost is assumed to be included as part of the future WTP upgrade and is not listed here.
- Automatic Controls Upgrade - The controls are considered part of the WTP plant and the cost is assumed to be part of the future WTP upgrade.
- Replacement of Motor Starters with VFDs or Soft Starters - The VFD or soft start cost is covered under the electrical upgrade estimate. The cost for upgrading the motors is covered under the process equipment upgrade estimate.

Lawton Valley Raw Water Pump Station

Existing Conditions:

There are two existing Raw Water pumps, a 2 MGD pump and a 4 MGD pump. Each motor starter has manual Start/Stop pushbuttons to manually start and stop the pump.

According to operators, there is an additional hand switch for each pump located in the office area of the WTP. Operators manually start each pump depending on how much water they need for that day.

Code Related Recommendations:

- To meet OSHA requirements, each pump is required to have a locally mounted, red, mushroom-head maintained emergency stop pushbutton that will immediately shut down the associated pump motor.

Design Related Recommendations:

- Add Hand/Off/Remote hand controls at the pumps.
- Consider replacing the motor started with VFDs, to operators to better adjust the raw water flow to the plant. Note that the pump motors would need to be upgraded to inverter duty rated motors. This cost is not covered in this section.

- Consider adding a flow meter to the discharge side of the pumps, in order to measure the flow entering the WTP.

Costs:

- Emergency Stop pushbuttons for each pump - \$2,000
- Updating Motor Starter to VFDs - \$20,000
- Raw Water Electromagnetic Flow Meter - \$7,500

St. Marys Pump Station

Existing Conditions:

The St. Mary's pump station consists of two pumps, a 7.5 MGD pump and a 5 MGD pump. There is no automatic or remote control at the station and there are no remote monitoring capabilities.

The pumps can be started by Start/Stop pushbuttons at the MCC. The station's pumps have not been started in many years. Water passes through the station by gravity.

An air compressor is used to keep air out of the line.

Code Related Recommendations:

- To meet OSHA requirements, each pump is required to have a locally mounted, red, mushroom-head maintained emergency stop pushbutton that will immediately shut down the associated pump motor.
- The belt guard was taken off of the air compressor at the time of the site visit. Since this equipment can start automatically at any time, the belt guard should be re-attached.

Design Related Recommendations:

- There are no controls upgrades recommended for this station at this time.

Cost:

- Emergency Stop pushbuttons for each pump - \$2,000

Forest Ave Pump Station

Existing Conditions:

The Forest Avenue pump station consists of two pumps that fill the Goulart Lane water storage tank.

Each pump has a Hand/Off/Auto hand switch at their respective MCC. In the Auto position, the pumps are controlled by the Goulart Land tank level by the following set points:

- Lead On - 62' Lead Off - 72'
- Lag On - 63' Lag Off - 70.5'

According to operators, only one pump is used at a time, and they are manually switched. Pump 1's hand switch during our site visit was in the Off position.

The Goulart Tank Level is transmitted to Forest Ave by a pulse signal via a leased line. Tank level is displayed at the station by a LED digital indicator.

The Forest Ave flow is measured by a differential pressure flow element. The flow value is converted from 4-20mA to a pulse signal and is sent to a chart recorder at the Lawton Valley WTP via a leased line. Operators have indicated that they have had connectivity problems with this phone line.

The Low Pressure zone pressure is measured by a Fisher-Porter 0-100psig pressure transmitter. The 4-20mA signal is converted to a pulse signal and transmitted to Station 1 via a leased line.

The telemetry system termination box is missing a cover and the three leased line connections held together with electrical tape.

Code Related Recommendations:

- To meet OSHA requirements, each pump is required to have a locally mounted, red, mushroom-head maintained emergency stop pushbutton that will immediately shut down the associated pump motor.

Design Related Recommendations:

- Replace the automatic pump controls with a PLC based control panel.
- Investigate replacing the three leased lines with radio telemetry.

Cost:

- Emergency Stop pushbuttons for each pump - \$2,000
- New PLC-based Control Panel - this will include hardware, fabrication of the panel, and programming - \$15,000
- Radio Telemetry System - radio telemetry must be investigated on a case by case basis. We recommend doing a full radio survey to ensure that radio is feasible. Assuming that radio telemetry is possible: \$10,000 for radio equipment and radio survey.

Paradise Pump Station

Existing Conditions:

The Paradise pump station consists of two pumps that pump out of Nelson & Gardner ponds. This station was recently upgraded in 2005 with all new electrical systems, a new control panel with radio telemetry, and two new VFDs.

Each pump can be started and stopped locally through the VFD keypad. In automatic mode, the PLC in the RTU panel starts and stops the pumps. Emergency stop pushbuttons are located on each VFD.

The RTU panel monitors the pump station flow and the raw water tank level. The RTU panel was fabricated by RE Erickson. It uses an Allen Bradley MicroLogix PLC. The telemetry system is 900MHz spread spectrum and connects to Station 1 through a repeater located at Reservoir Road.

Code Related Recommendations:

- None

Design Related Recommendations:

- While the emergency stop at the VFD fulfills the emergency stop requirement, an operator would not be able to reach it if they had a mishap at the pump. We recommend adding a second Emergency Stop pushbutton adjacent to each pump.

Cost:

- Emergency Stop pushbuttons for each pump - \$2,000

Station No.1 Water Treatment Facility

Existing Conditions:

The Station 1 Control System was installed by RE Erickson in 2004. The double door NEMA 12 control panel is located in the control room adjacent to the SCADA computers. The control panel uses redundant Allen Bradley SLC 5/05 processors.

The SCADA system consists of two SCADA server computers running WonderWare InTouch SCADA software.

The plant's filter system is automated through SCADA and can be run manually using from a control panel located in the filter gallery.

Each filter's level is measured by a Fischer-Porter ultrasonic level transducer. These instruments are original to the plant, installed in 1991.

The finished water flow is measured by two Fisher Porter magnetic flow meters. The 12" meter measures flow to Lawton Valley. The 20" flow meter measures flow to the distribution system.

The backwash sludge is measured by an 8" Fisher Porter magnetic flow meter. All flow meters are original to the plant, installed in 1991.

Each filter's turbidity is measured by a Hach 1720C low range turbidity meter. Each filter's effluent flow is measured by a differential pressure flow element. Each filter's flow is regulated by an electrically actuated butterfly valve.

Code Related Recommendations:

- None

Design Related Recommendations:

While many of the original instruments from the original 1991 installation still function, Newport should plan on an instrument and control upgrade plan over the next ten years. We recommend the following:

Costs:

- Replacement of the 4 Ultrasonic Level Transducers - \$16,000
- Replacement of the 3 Magnetic Flow Meters - \$20,000
- Computer & Software Upgrade Plan - \$15,000 every 5-7 years

Sakonnet Pump Station

Existing Conditions:

The Sakonnet Pump station consists of three pumps, a 6 MGD pump and two 8 MGD pumps.

This station does not have any automatic controls. It is always manned when operated.

Each pump has a Hand/Off/Auto switch located on the MCC. In Auto, control is transferred to the station control panel. This panel, built by Sheridan Engineering, has an alarm annunciator panel, start/stop pushbuttons for each pump, and running/stopped indicating lights for each pump. The panel includes an autodialer, but it has been disconnected.

Station flow is measured by a differential pressure element.

Code Related Recommendations:

- None

Design Related Recommendations:

- None

APPENDIX B

**WATER MAIN DATABASE
SORTED BY PIPE RATING**

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/ Fin					Exist Pipe Dia (in)	Exist Pipe Material	Pipe Age	Age (years)	Dead End (Y/N)	Main Break	Locat.						Dead End	Total Rating	Pipe Ranking	Cost Estimate	Cum Cost Est	
Town	Fin	Street Name	From	To		Pipe Lth (ft)							Size	Age	Break	Mater.	Locat.						
New	Fin	Cozzens Ct	Thames St			180.12	2	Iron Pipe	4/15/1900	109	Y	2	High	5	5	5	5	5	5	5	1	\$29,720	\$29,720
New	Fin	Colonial St	Broadway			207	4	Cast Iron	7/20/1904	105	Y	1	High	5	5	2.5	5	5	5	4.625	2	\$34,155	\$63,875
New	Fin	Elizabeth St	Catherine St	End		323.6	2	Iron Pipe	4/8/1902	107	Y	1	High	5	5	2.5	5	5	5	4.625	3	\$53,394	\$117,269
New	Fin	Johnson Ct	Kingston Ave	W of Kingston A		166.25	1.5	cem Lined	1/1/1897	107	Y	1	High	5	5	2.5	5	5	5	4.625	4	\$27,431	\$144,700
New	Fin	Prescott Pl	Hall Ave	End		127	1.5	Cem Lined	3/10/1903	106	Y	1	High	5	5	2.5	5	5	5	4.625	5	\$20,955	\$165,655
New	Fin	Dixon St	Thames St			397.37	4	Tin	1/1/1886	118	N	2	High	5	5	5	5	5	0	4.5	6	\$65,566	\$231,221
New	Fin	Everett St	S of Kay St	Francis St		513	2	Iron Pipe	1/1/1892	112	N	2	High	5	5	5	5	5	0	4.5	7	\$84,645	\$315,866
New	Fin	Fir St	Old Beach Rd	Catherine St		515	2	Cem Lined	6/6/1902	107	N	2	High	5	5	5	5	5	0	4.5	8	\$84,975	\$400,841
New	Fin	Goodwin St	Thames St	End		304	2	Cem Lined	10/08/1890	114	N	2	High	5	5	5	5	5	0	4.5	9	\$50,160	\$451,001
New	Fin	McCallister St	Thames St	Spring St		180	1.5	Iron Pipe	7/9/1889	115	N	2	High	5	5	5	5	5	0	4.5	10	\$29,700	\$480,701
New	Fin	Gladding Ct	Sunshine Ct	End		158	2	Cem Lined	9/10/1926	83	Y	1	High	5	4	2.5	5	5	5	4.375	11	\$26,070	\$506,771
New	Fin	Allens Ct	Spring St	southerly		142.47	2	Cem Lined	6/20/1894	110	Y		High	5	5	0	5	5	5	4.25	12	\$23,508	\$530,279
New	Fin	Anderson Pl				132	1.5	Cem Lined	4/1/1906	103	Y		High	5	5	0	5	5	5	4.25	13	\$21,780	\$552,059
New	Fin	Colonial St	Broadway			39.66	4	Cast Iron	7/20/1904	105	Y		High	5	5	0	5	5	5	4.25	14	\$6,544	\$558,603
New	Fin	Griswold Pl	Rhode Island Ave	End		162	2	Cem Lined	12/16/1880	124	Y		High	5	5	0	5	5	5	4.25	15	\$26,730	\$585,333
New	Fin	Guerney Ct	Cherry St	End		115	1.5	Cem Lined	8/27/1894	110	Y		High	5	5	0	5	5	5	4.25	16	\$18,975	\$604,308
New	Fin	Hoffman Pl	Cranston Ave	End		200.45	1.5	Cement	01/01/1889	115	Y		High	5	5	0	5	5	5	4.25	17	\$33,074	\$637,382
New	Fin	Hunt Ct	Spring St	End		130.73	1	Cem Lined	11/25/1904	105	Y		High	5	5	0	5	5	5	4.25	18	\$21,570	\$658,952
New	Fin	Johnson Ct	Kingston Ave	E of Kingston A		200	2	Cem Lined	1/1/1902	107	Y		High	5	5	0	5	5	5	4.25	19	\$33,000	\$691,952
New	Fin	Lee's Wharf	Thames St	Westerly		500	2	Cem Lined	7/27/1885	119	Y		High	5	5	0	5	5	5	4.25	20	\$82,500	\$774,452
New	Fin	River Ln				143.12	2	Iron Pipe	06/25/1890	114	Y		High	5	5	0	5	5	5	4.25	21	\$23,615	\$798,067
New	Fin	Seaview Ave	Cliff Ave	Easterly		500.61	4	Cast Iron	03/16/1881	123	Y		High	5	5	0	5	5	5	4.25	22	\$82,601	\$880,668
New	Fin	Spring Wharf	Thames St	Westerly		264	4	Cast iron	6/2/1902	107	Y		High	5	5	0	5	5	5	4.25	23	\$43,560	\$924,228
New	Fin	Bacheller St				417	1.5	Iron Pipe		117	N	1	High	5	5	2.5	5	5	0	4.125	24	\$68,805	\$993,033
New	Fin	Everett Pl	Francis St	Ayrault Ct		318	2	Cem Lined	1/1/1889	115	N	1	High	5	5	2.5	5	5	0	4.125	25	\$52,470	\$1,045,503
New	Fin	Fountain St	Anthony St	Spring St		200	1.5	Cem Lined	1/5/1892	112	N	1	High	5	5	2.5	5	5	0	4.125	26	\$33,000	\$1,078,503
New	Fin	Freeborn St		S of Vernon Ave		60	1.5	Cem Lined	8/1/1946	63	Y	1	High	5	3	2.5	5	5	5	4.125	27	\$9,900	\$1,088,403
New	Fin	Gidley St	Spring St			392	2	Cem Lined	1/1/1900	109	N	1	High	5	5	2.5	5	5	0	4.125	28	\$64,680	\$1,153,083
New	Fin	Hope St	Rhode Island Ave	Powell Ave		328	2	Cem Lined	1/1/1893	111	N	1	High	5	5	2.5	5	5	0	4.125	29	\$54,120	\$1,207,203
New	Fin	Morton Pl	Morton Ave	Northerly		166	2	Cem Lined	1/1/1914	95	Y	1	Med	5	4	2.5	5	2.5	5	4.125	30	\$27,390	\$1,234,593
New	Fin	Mt Vernon St				716.07	4	Cast Iron	9/13/1901	108	N	1	High	5	5	2.5	5	5	0	4.125	31	\$118,152	\$1,352,744
New	Fin	Wesley St	Rhode Island Ave	Cranston Ave		506	2	Cem Lined	1/1/1900	109	N	1	High	5	5	2.5	5	5	0	4.125	32	\$83,490	\$1,436,234
New	Fin	Bartlett Ct	Broadway	Easterly		160	2	Iron Pipe	1/1/1913	96	Y		High	5	4	0	5	5	5	4	33	\$26,400	\$1,462,634
New	Fin	Berkeley Ter	Berkeley Ave			155.5	2	Cem Lined	7/11/1925	84	Y		High	5	4	0	5	5	5	4	34	\$25,658	\$1,488,292
New	Fin	Boss Ct	Wellington Ave	S of Wellington		167.76	2	Cast Iron	01/01/1893	118	Y		Med	5	5	0	5	2.5	5	4	35	\$27,680	\$1,515,972
New	Fin	Cliff Ter	Cliff Ave	End		473.25	4	Cast Iron	5/3/1915	94	Y		High	5	4	0	5	5	5	4	36	\$78,086	\$1,594,058
New	Fin	Coddington Whf	Thames St			14.2	2	Brass	7/1/1929	80	Y		High	5	4	0	5	5	5	4	37	\$2,343	\$1,596,401
New	Fin	Green Pl	Spring St	End		140.87	2	Cem Lined	4/7/1921	88	Y		High	5	4	0	5	5	5	4	38	\$23,244	\$1,619,645
New	Fin	Guinn Ct	Fillmore St	End		147.3	1.5	Cem Lined	7/8/1927	82	Y		High	5	4	0	5	5	5	4	39	\$24,305	\$1,643,949
New	Fin	Hayden Ct	Memorial Blvd	End		120	1.25	Cem Lined	5/9/1906	103	Y		Med	5	5	0	5	2.5	5	4	40	\$19,800	\$1,663,749
New	Fin	Hunter Ave	Ellery Rd	S of Kay St		313	2	Cem Lined	1/1/1923	86	Y		High	5	4	0	5	5	5	4	41	\$51,645	\$1,715,394
New	Fin	Kay Ter	Kay St	End		278	4	Cast Iron	10/30/1913	96	Y		High	5	4	0	5	5	5	4	42	\$45,870	\$1,761,264
New	Fin	Sunshine Ct	Third St	End		310	2	Cem Lined	9/10/1926	83	Y		High	5	4	0	5	5	5	4	43	\$51,150	\$1,812,414
New	Fin	Third St Ext	Training Station R	Northerly		278	2	Cem Lined	11/3/1920	89	Y		High	5	4	0	5	5	5	4	44	\$45,870	\$1,858,284
New	Fin	Gordon St	Coggeshall Ave			300	1.5	Cem Lined	1/1/1890	114	N	1	Med	5	5	2.5	5	2.5	0	3.875	45	\$49,500	\$1,907,784
New	Fin	Howard St	Spring St	E of Thames St		500	6	Cast Iron	1/1/1881	123	N	4	High	2.5	5	5	5	5	0	3.875	46	\$82,500	\$1,990,284
New	Fin	Armstrong Pl				156.25	1.5	Cem Lined	4/1/1931	78	Y		High	5	3	0	5	5	5	3.75	47	\$25,781	\$2,016,066
New	Fin	Ashurst Pl	Calvert Sr			175	2	Cem Lined	1/1/1895	109	N		High	5	5	0	5	5	0	3.75	48	\$28,875	\$2,044,941
New	Fin	Ayrault Ct	Easterly	Everett Pl		200	1.5	Cem Lined	4/1/1882	122	N		High	5	5	0	5	5	0	3.75	49	\$33,000	\$2,077,941
New	Fin	Bacheller St				10	4	Cast Iron	6/1/1903	106	N		High	5	5	0	5	5	0	3.75	50	\$1,650	\$2,079,591
New	Fin	Bedlow Pl	Bedlow Ave			356	2	Cem Lined	5/26/1927	82	Y		Med	5	4	0	5	2.5	5	3.75	51	\$58,740	\$2,138,331
New	Fin	Blackwell Pl				352.3	2	Cem Lined	6/16/1927	82	Y		Med	5	4	0	5	2.5	5	3.75	52	\$58,130	\$2,196,460
New	Fin	Casey Ct	Coggeshall Ave			314	2	Cem Lined	1/1/1888	116	Y		Low	5	5	0	5	0	5	3.75	53	\$51,810	\$2,248,270
New	Fin	Casino Ter	Bellevue Ave	End		221	2	Cem Lined	10/1/1932	77	Y		High	5	3	0	5	5	5	3.75	54	\$36,465	\$2,284,735
New	Fin	Coddington Whf	Thames St	Kirwin's 5th Wa		370	1.5	Iron Pipe	4/29/1886	118	N		High	5	5	0	5	5	0	3.75	55	\$61,050	\$2,345,785
New	Fin	Commercial Whf	W of Thames St	W of Thames St		101	2	Iron Pipe	10/1/1940	69	Y		High	5	3	0	5	5	5	3.75	56	\$16,665	\$2,362,450
New	Fin	Dixon St		Spring St		365.46	4	Cast Iron	1/1/1903	106	N		High	5	5	0	5	5	0	3.75	57	\$60,301	\$2,422,751
New	Fin	Downing St	Bellevue Ave	Liberty St		328.23	2	Cem Lined	1/1/1896	108	N		High	5	5	0	5	5	0	3.75	58	\$54,158	\$2,476,909
New	Fin	Fair St	Spring St	Thames St		444	4	Cast Iron	3/28/1903	106	N		High	5	5	0	5	5	0	3.75	59	\$73,260	\$2,550,169
New	Fin	Gardiner St	Gibbs Ave	Friendship St		300	2	Iron Pipe	5/10/1899	105	N		High	5	5	0	5	5	0	3.			

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Hope St	Powell Ave	Friendship St	225	1.5	Cem Lined	1/1/1896	108	N		High	5	5	0	5	5	0	3.75	63	\$37,125	\$2,717,479
New	Fin	Hozier St	Broadway	Spring St	200	1.5	Cem Lined	5/19/1903	106	N		High	5	5	0	5	5	0	3.75	64	\$33,000	\$2,750,479
New	Fin	Mt Vernon St	Tuoro		263.26	4	Cast Iron	9/13/1901	108	N		High	5	5	0	5	5	0	3.75	65	\$43,438	\$2,793,917
New	Fin	Pine St	Second St	Third St	233.08	4	Cast Iron	7/10/1908	101	N		High	5	5	0	5	5	0	3.75	66	\$38,458	\$2,832,375
New	Fin	Record St	Warner St	Channing St	263	2	Iron Pipe	8/31/1905	104	N		High	5	5	0	5	5	0	3.75	67	\$43,395	\$2,875,770
New	Fin	Red Cross Ter	Red Cross Ave	Westerly	277	4	AC	7/27/1938	71	Y		High	5	3	0	5	5	5	3.75	68	\$45,705	\$2,921,475
New	Fin	Red Cross Ter	Westerly	End	142.8	4	AC	12/1/1947	62	Y		High	5	3	0	5	5	5	3.75	69	\$23,562	\$2,945,037
New	Fin	Rose St			132	2	Cem Lined	7/14/1923	86	Y		Med	5	4	0	5	2.5	5	3.75	70	\$21,780	\$2,966,817
New	Fin	Tyler St	Rhode Island Ave	Cranston Ave	380	4	AC	9/1/1902	107	N		High	5	5	0	5	5	0	3.75	71	\$62,700	\$3,029,517
New	Fin	Webster Pl	Webster St	End	167	2	Cem Lined	1/1/1915	94	Y		Med	5	4	0	5	2.5	5	3.75	72	\$27,555	\$3,057,072
Midd	Fin	Fairview Ave	Boulevard	N of Boulevard	123	2	Cem Lined	3/20/1919	90	Y		Med	5	4	0	5	2.5	5	3.75	73	\$20,295	\$3,077,367
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	126.83	2	Cem Lined	6/18/1928	81	Y		Med	5	4	0	5	2.5	5	3.75	74	\$20,927	\$3,098,294
New	Fin	Casey Ct		End	80	2	WI - CL	8/1/1940	69	Y	1	Low	5	3	2.5	5	0	5	3.625	75	\$13,200	\$3,111,494
New	Fin	Commercial Whf	W of Thames St	End	69	6	Cast Iron	1/1/1880	124	Y		High	2.5	5	0	5	5	5	3.625	76	\$11,385	\$3,122,879
New	Fin	Aborn St			172	6	AC	3/1/1949	60	Y	1	High	2.5	3	2.5	5	5	5	3.5	77	\$28,380	\$3,151,259
New	Fin	Arnold Ave			115	1.5	Cem Lined	6/25/1954	55	Y		High	5	2	0	5	5	5	3.5	78	\$18,975	\$3,170,234
New	Fin	Channing Pl	Channing St	Warner St	344.7	4	Cast Iron	10/1/1914	95	N		High	5	4	0	5	5	0	3.5	79	\$56,876	\$3,227,110
New	Fin	Clinton Ave	Broadway	Warner St	772.38	4	Cast Iron	1/1/1911	98	N		High	5	4	0	5	5	0	3.5	80	\$127,443	\$3,354,552
New	Fin	Cottage St	Redwood St	Old Beach Rd	212.73	4	Cast Iron	1/1/1912	97	N		High	5	4	0	5	5	0	3.5	81	\$35,100	\$3,389,653
New	Fin	Feke St	Tilden Ave	Edward St	192	2	Cem Lined	2/19/1917	92	N		High	5	4	0	5	5	0	3.5	82	\$31,680	\$3,421,333
New	Fin	Gordon St	Bellevue Ave		248	2	Cem Lined	4/2/1901	108	N		Med	5	5	0	5	2.5	0	3.5	83	\$40,920	\$3,462,253
New	Fin	Katzman Pl			20	2	Iron Pipe	1/31/1955	54	Y		High	5	2	0	5	5	5	3.5	84	\$3,300	\$3,465,553
New	Fin	King Philip Rd	Adm Kalbfus Rd	S of Adm Kalbfu	147.6	2	Iron Pipe	4/5/1939	70	Y		Med	5	3	0	5	2.5	5	3.5	85	\$24,354	\$3,489,907
New	Fin	Loyola Ter		E of Holten Ave	79	2	Iron Pipe	10/1/1952	57	Y		High	5	2	0	5	5	5	3.5	86	\$13,035	\$3,502,942
New	Fin	Manning Ter	Holten Ave	W of Holten Ave	250	2	Cem Lined	11/1/1954	55	Y		High	5	2	0	5	5	5	3.5	87	\$41,250	\$3,544,192
New	Fin	Manning Ter		W of Holten Ave	48	2	Iron Pipe	10/10/1957	52	Y		High	5	2	0	5	5	5	3.5	88	\$7,920	\$3,552,112
New	Fin	Manning Ter	Holten Ave	S of Holten Ave	172	2	Cem Lined	12/1/1952	57	Y		High	5	2	0	5	5	5	3.5	89	\$28,380	\$3,580,492
New	Fin	Porter Ave	Greene Ln	Southerly	95	2	Cem Lined	10/1/1952	57	Y		High	5	2	0	5	5	5	3.5	90	\$15,675	\$3,596,167
New	Fin	School St	Mary St		33.7	4	Cast Iron	8/24/1926	83	N		High	5	4	0	5	5	0	3.5	91	\$5,561	\$3,601,727
New	Fin	Sullivan St	Harrison Ave	S to End	292	2	Cem Lined	11/10/1927	82	Y		Low	5	4	0	5	0	5	3.5	92	\$48,180	\$3,649,907
New	Fin	Vanderbilt Ave			85	2	Cem Lined	3/1/1938	71	Y		Med	5	3	0	5	2.5	5	3.5	93	\$14,025	\$3,663,932
New	Fin	Vanderbilt Ave			35	1.5	Cem Lined	3/1/1938	71	Y		Med	5	3	0	5	2.5	5	3.5	94	\$5,775	\$3,669,707
New	Fin	Yznaga Ave			21	4	Cast Iron	11/11/1910	99	Y		Low	5	4	0	5	0	5	3.5	95	\$3,465	\$3,673,172
New	Fin	Yznaga Ave			174.7	4	Cast Iron	1/11/1910	99	Y		Low	5	4	0	5	0	5	3.5	96	\$28,826	\$3,701,998
Midd	Fin	Crescent St	N of Purgatory Rd	N of Purgatory R	161.67	2	WI - CL	7/1/1948	61	Y		Med	5	3	0	5	2.5	5	3.5	97	\$26,676	\$3,728,673
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	33.5	2	Cem Lined	5/17/1935	74	Y		Med	5	3	0	5	2.5	5	3.5	98	\$5,528	\$3,734,201
Midd	Fin	O'Connell Street	Tuckerman Ave	W. of Tuckerma	258	2	Wrought Iron	Apr-39	70	Y		Med	5	3	0	5	2.5	5	3.5	99	\$42,570	\$3,776,771
Midd	Fin	Rosa Rd	S of Maple		12	4	Cast Iron	Jul-48	61	Y		Med	5	3	0	5	2.5	5	3.5	100	\$1,980	\$3,778,751
Midd	Fin	Rosa Rd		Dead End	394	4	AC	Jul-48	61	Y		Med	5	3	0	5	2.5	5	3.5	101	\$65,010	\$3,843,761
Midd	Fin	Rosedale Ct	Stockton Dr	Beginning of Lo	260	4	AC	Jan-44	65	Y		Med	5	3	0	5	2.5	5	3.5	102	\$42,900	\$3,886,661
Midd	Fin	Rosedale Ct	Beginning of Loop	End of Loop	250	2	Wrought Iron	Jan-44	65	Y		Med	5	3	0	5	2.5	5	3.5	103	\$41,250	\$3,927,911
Midd	Fin	Sherman Lane	Maple Ave	North	826	2	Cem Lined	Aug-48	61	Y		Med	5	3	0	5	2.5	5	3.5	104	\$136,290	\$4,064,201
Ports	Fin	Harbor View Rd	Redwood Rd	north	500	4	AC	Jan-57	52	Y	1	Low	5	2	2.5	5	0	5	3.375	105	\$82,500	\$4,146,701
New	Fin	Arnold Ave			26.2	6	Cast iron	7/1/1923	86	Y		High	2.5	4	0	5	5	5	3.375	106	\$4,323	\$4,151,024
New	Fin	Arnold Ave			396	6	Cast iron	10/26/1928	81	Y		High	2.5	4	0	5	5	5	3.375	107	\$65,340	\$4,216,364
New	Fin	Byrnes St			100	2	WI - CL			Y	1	High	5	0	2.5	5	5	5	3.375	108	\$16,500	\$4,232,864
New	Fin	Casino Ter	Bellevue Ave		20.4	6	Cast iron	10/1/1924	85	Y		High	2.5	4	0	5	5	5	3.375	109	\$3,366	\$4,236,230
New	Fin	Commercial Whf	W of Thames St	W of Thames St	186	6	Cast iron	1/1/1923	86	Y		High	2.5	4	0	5	5	5	3.375	110	\$30,690	\$4,266,920
New	Fin	Findlay Pl	Bliss Rd	End	366.9	6	Cast iron	4/15/1916	93	Y		High	2.5	4	0	5	5	5	3.375	111	\$60,539	\$4,327,458
New	Fin	Freeborn St	Bliss Rd	Northerly	520.8	6	Cast Iron	11/1/1922	87	Y		High	2.5	4	0	5	5	5	3.375	112	\$85,932	\$4,413,390
New	Fin	Greene Ln	Broadway	Porter Ave	94.25	6	Cast iron	5/2/1919	90	Y		High	2.5	4	0	5	5	5	3.375	113	\$15,551	\$4,428,942
New	Fin	Greene Ln	Broadway	Porter Ave	96	6	Cast iron	10/17/1921	88	Y		High	2.5	4	0	5	5	5	3.375	114	\$15,840	\$4,444,782
New	Fin	Greene Ln	Broadway	Porter Ave	84.5	6	Cast iron	3/22/1927	82	Y		High	2.5	4	0	5	5	5	3.375	115	\$13,943	\$4,458,724
New	Fin	Greene Ln	Broadway	Porter Ave	60.5	6	Cast iron	10/30/1928	81	Y		High	2.5	4	0	5	5	5	3.375	116	\$9,983	\$4,468,707
New	Fin	Greene Ln	Broadway	Porter Ave	126.5	6	Cast iron	9/24/1929	80	Y		High	2.5	4	0	5	5	5	3.375	117	\$20,873	\$4,489,579
New	Fin	Kilburne Ct	Broadway		23	6	Cast Iron	7/3/1915	94	Y		High	2.5	4	0	5	5	5	3.375	118	\$3,795	\$4,493,374
New	Fin	Kilburne Ct	Broadway	End	264	6	Cast Iron	12/6/1918	91	Y		High	2.5	4	0	5	5	5	3.375	119	\$43,560	\$4,536,934
New	Fin	Sherman St			100	4	Cast Iron			Y	1	High	5	0	2.5	5	5	5	3.375	120	\$16,500	\$4,553,434
New	Fin	Underwood Ct			100	2	Iron Pipe			Y	1	High	5	0	2.5	5	5	5	3.375	121	\$16,500	\$4,569,934
New	Fin	Whitwell Pl	Kay St	Northerly	378.8	6	Cast Iron	6/1/1929	80	Y		High	2.5	4	0	5	5	5	3.375	122	\$62,502	\$4,632,436
Midd	Fin	Adelaide Rd	E of Boulevard	Sheri Ln	469	6	AC	Mar-56	53	Y	2	Med	2.5	2	5	5	2.5	5	3.375	123	\$77,385	\$4,709,821
New	Fin	Calvert St	Broadway	Cranston Ave	923	6	Cast Iron	5/25/1914	95	N	1	High	2.5	4	2.5	5	5	0	3.25	124	\$152,295	\$4,862,116
New	Fin	Division St			342.68	4	Cast Iron	3/1/1932	77	N		High	5	3	0	5	5	0	3.25	125	\$56,542	\$4,918,658

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Division St			587.34	4	Cast Iron	3/1/1932	77	N		High	5	3	0	5	5	0	3.25	126	\$96,911	\$5,015,569
New	Fin	Ellwood Pl	Friendship St	End	158.33	2	Iron Pipe	4/1/1967	42	Y		Med	5	2	0	5	2.5	5	3.25	127	\$26,124	\$5,041,694
New	Fin	Equality Park Pl	Pond Ave	Broadway	187.19	4	Cast Iron			N	2	High	5	0	5	5	5	0	3.25	128	\$30,886	\$5,072,580
New	Fin	Ernest Pl	Old Fort Rd	End	364	4	AC	10/1/1965	44	Y		Med	5	2	0	5	2.5	5	3.25	129	\$60,060	\$5,132,640
New	Fin	Harold St	Carroll Ave	Easterly	268.75	2	Cem Lined	5/1/1935	74	Y		Low	5	3	0	5	0	5	3.25	130	\$44,344	\$5,176,984
New	Fin	Haskell Ave	Bliss Rd	Brooks Ave	340.5	2	Cem Lined	7/15/1931	78	N		High	5	3	0	5	5	0	3.25	131	\$56,183	\$5,233,166
New	Fin	Katzman Pl			109	2	Iron Pipe	11/1/1972	37	Y		High	5	1	0	5	5	5	3.25	132	\$17,985	\$5,251,151
New	Fin	Katzman Pl		End	26	2	Iron Pipe	1/1/1977	32	Y		High	5	1	0	5	5	5	3.25	133	\$4,290	\$5,255,441
New	Fin	Lakeview Ave			36.9	2	Iron Pipe	7/16/1903	106	N		Low	5	5	0	5	0	0	3.25	134	\$6,089	\$5,261,530
New	Fin	Redwood St	Bellevue Ave	Cottage St	495	6	Cast Iron	5/8/1926	83	N	1	High	2.5	4	2.5	5	5	0	3.25	135	\$81,675	\$5,343,205
New	Fin	Rowland Rd	Northerly		154	2	Cem Lined	5/1/1928	81	N		Med	5	4	0	5	2.5	0	3.25	136	\$25,410	\$5,368,615
New	Fin	Rowland Rd	Northerly		105.5	2	Cem Lined	7/25/1929	80	N		Med	5	4	0	5	2.5	0	3.25	137	\$17,408	\$5,386,022
New	Fin	Sagamore St	Canonicus Ave	Adm Kalbfus Rd	271	2	Cem Lined	3/31/1920	89	N		Med	5	4	0	5	2.5	0	3.25	138	\$44,715	\$5,430,737
New	Fin	Walnut St	W of Third St	Washington St	512.81	2	Iron Pipe			N	2	High	5	0	5	5	5	0	3.25	139	\$84,581	\$5,515,318
New	Fin	Yale St	Bedlow Ave		139	2	Cem Lined	1/1/1923	86	N		Med	5	4	0	5	2.5	0	3.25	140	\$22,935	\$5,538,253
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonomi	150	2	Gal - CL	Jan-21	88	N		Med	5	4	0	5	2.5	0	3.25	141	\$24,750	\$5,563,003
Midd	Fin	Boulevard Terr	Boulevard	End	609	6	Cl - C	Apr-37	72	Y	1	Med	2.5	3	2.5	5	2.5	5	3.25	142	\$100,436	\$5,663,439
Midd	Fin	Crescent St	N of Purgatory Rd	N of Purgatory Rd	7	2	Wl - CL	8/12/1950	59	Y		Med	5	2	0	5	2.5	5	3.25	143	\$1,155	\$5,664,594
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	123	2	Cem Lined	9/1/1956	53	Y		Med	5	2	0	5	2.5	5	3.25	144	\$20,295	\$5,684,889
Midd	Fin	Renfrew Park	East	End	231	2	Wrought Iron	May-45	64	Y		Low	5	3	0	5	0	5	3.25	145	\$38,115	\$5,723,004
Midd	Fin	Sherri Lane	Adeliade Ave	Blow Off	369	2	Wrought Iron	4/10/1956	53	Y		Med	5	2	0	5	2.5	5	3.25	146	\$60,885	\$5,783,889
Midd	Fin	Simmons Terr	Miantonomi Ave		219	2	Gal - CL	6/29/1954	55	Y		Med	5	2	0	5	2.5	5	3.25	147	\$36,135	\$5,820,024
Midd	Fin	West Main Road	point b	south	430	2	Wrought Iron	Jan-29	80	N		Med	5	4	0	5	2.5	0	3.25	148	\$70,950	\$5,890,974
Midd	Fin	Dexter St	West Main Rd	W of West Main	6	2	Copper	Aug-41	68	Y		Med	5	3	0	3	2.5	5	3.2	149	\$990	\$5,891,964
Midd	Fin	Dexter St	W of West Main	W of West Main	337	1.25	Copper	Aug-41	68	Y		Med	5	3	0	3	2.5	5	3.2	150	\$55,605	\$5,947,569
Midd	Fin	Dexter St	W of West Main	W of West Main	52	1.25	Copper	Jan-48	61	Y		Med	5	3	0	3	2.5	5	3.2	151	\$8,580	\$5,956,149
New	Fin	Aborn St			227	6	AC	12/1/1941	68	Y		High	2.5	3	0	5	5	5	3.125	152	\$37,455	\$5,993,604
New	Fin	Bradford Ave			11.74	6	Cast Iron	04/29/1893	111	N		High	2.5	5	0	5	5	0	3.125	153	\$1,937	\$5,995,541
New	Fin	Brandt St			170.23	6	Cast Iron	1/1/1900	109	N		High	2.5	5	0	5	5	0	3.125	154	\$28,088	\$6,023,629
New	Fin	Champlin Pl North	Ellery Rd	Northerly	71.5	6	Cast Iron	12/1/1938	71	Y		High	2.5	3	0	5	5	5	3.125	155	\$11,798	\$6,035,426
New	Fin	Champlin Pl North			95.5	6	Cast Iron	7/1/1939	70	Y		High	2.5	3	0	5	5	5	3.125	156	\$15,758	\$6,051,184
New	Fin	Cliff Ave	Dresser St	Cliff Ave Ext	92	6	Cast Iron	8/21/1931	78	Y		High	2.5	3	0	5	5	5	3.125	157	\$15,180	\$6,066,364
New	Fin	Edgar Ct	Memorial Blvd		12	6	Cast Iron	3/1/1933	76	Y		High	2.5	3	0	5	5	5	3.125	158	\$1,980	\$6,068,344
New	Fin	Edgar Ct	Memorial Blvd		79	6	Cast Iron	1/1/1945	64	Y		High	2.5	3	0	5	5	5	3.125	159	\$13,035	\$6,081,379
New	Fin	Freeborn St	Vernon Ave		27	6	Cast Iron	8/1/1946	63	Y		High	2.5	3	0	5	5	5	3.125	160	\$4,455	\$6,085,834
New	Fin	Greene Ln	Broadway	Porter Ave	174.5	6	Cast iron	2/1/1930	79	Y		High	2.5	3	0	5	5	5	3.125	161	\$28,793	\$6,114,626
New	Fin	Greene Ln	Broadway	Porter Ave	41.5	6	Cast iron	10/1/1940	69	Y		High	2.5	3	0	5	5	5	3.125	162	\$6,848	\$6,121,474
New	Fin	Holten Ave	Kempsen St	Northerly	102	6	AC	8/1/1949	60	Y		High	2.5	3	0	5	5	5	3.125	163	\$16,830	\$6,138,304
New	Fin	Mumford Ave		Porter Ave	192	6	Cast Iron	11/1/1936	73	Y		High	2.5	3	0	5	5	5	3.125	164	\$31,680	\$6,169,984
New	Fin	Red Cross Ter	Red Cross Ave		9.5	6	Cast Iron	1/1/1939	70	Y		High	2.5	3	0	5	5	5	3.125	165	\$1,568	\$6,171,551
Midd	Fin	Admiral Ct	King Rd	End	155	2	Wrought Iron			Y	1	Med	5	0	2.5	5	2.5	5	3.125	166	\$25,575	\$6,197,126
Midd	Fin	Boulevard	West Main Rd	Fenner Ave	1845	6	AC	Jan-40	69	N	2	Med	2.5	3	5	5	2.5	0	3.125	167	\$304,343	\$6,501,469
Ports	Fin	Harbor View Rd	point	north	30	4	AC	6/1/1961	48	Y		Low	5	2	0	5	0	5	3	168	\$4,950	\$6,506,419
Ports	Fin	Pioneer Lane	Redwood Rd	south	280	2	Wrought Iron	Jan-57	52	Y		Low	5	2	0	5	0	5	3	169	\$46,200	\$6,552,619
New	Fin	Annandale Ter	Annandale Rd		46	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	170	\$7,590	\$6,560,209
New	Fin	Ayrault Ct	Ayrault St	Easterly	73	1.5	Iron Pipe	6/1/1960	49	N		High	5	2	0	5	5	0	3	171	\$12,045	\$6,572,254
New	Fin	Ayrault St	Broadway	Kay St	990	6	Cast iron		76	N	1	High	2.5	3	2.5	5	5	0	3	172	\$163,350	\$6,735,604
New	Fin	Barclay Square			22	4	Cast Iron			Y		High	5	0	0	5	5	5	3	173	\$3,630	\$6,739,234
New	Fin	Barclay Square	Cliff Ave Ext	End	392	4	AC			Y		High	5	0	0	5	5	5	3	174	\$64,680	\$6,803,914
New	Fin	Barney Ct	Barney St	Easterly	154.4	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	175	\$25,476	\$6,829,390
New	Fin	Bartlett Ct	Broadway	Easterly	19	4	Cast Iron			Y		High	5	0	0	5	5	5	3	176	\$3,135	\$6,832,525
New	Fin	Bayside Ave	Van Zandt Ave		154.43	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	177	\$25,481	\$6,858,006
New	Fin	Bellevue Ct	Bellevue Ave	Westerly	567.3	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	178	\$93,605	\$6,951,610
New	Fin	Bowler Ln	Brinley St	Easterly	209.94	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	179	\$34,640	\$6,986,250
New	Fin	Catherine St	Gibbs Ave	Easterly	438	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	180	\$72,270	\$7,058,520
New	Fin	Gibson Park Rd	Bliss Rd	End	293	4	AC			Y		High	5	0	0	5	5	5	3	181	\$48,345	\$7,106,865
New	Fin	Gravel Ct	Narragansett Ave	Northerly	266.17	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	182	\$43,918	\$7,150,783
New	Fin	Gravel Ct	Narragansett Ave	Northerly	120.26	4	Cast Iron			Y		High	5	0	0	5	5	5	3	183	\$19,843	\$7,170,626
New	Fin	Harrison Ln			338	2	Iron Pipe	9/1/1952	57	Y		Low	5	2	0	5	0	5	3	184	\$55,770	\$7,226,396
New	Fin	Hunt Ct	Spring St		23	4	AC			Y		High	5	0	0	5	5	5	3	185	\$3,795	\$7,230,191
New	Fin	Katzman Pl	Third St	E of Third St	134	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	186	\$22,110	\$7,252,301
New	Fin	LaSalle Pl	Third St		340.97	2	Cem Lined			Y		High	5	0	0	5	5	5	3	187	\$56,260	\$7,308,561
New	Fin	Lees Wharf			323.47	2	Cem Lined			Y		High	5	0	0	5	5	5	3	188	\$53,373	\$7,361,934

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

Town	Raw/ Fin	Street Name	From	To	Pipe Lth (ft)	Exist Pipe Dia (in)	Exist Pipe Material	Pipe Age	Age (years)	Dead End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	Dead End	Total Rating	Pipe Ranking	Cost Estimate	Cum Cost Est
New	Fin	Lees Wharf			86.05	2	Cem Lined			Y		High	5	0	0	5	5	5	3	189	\$14,198	\$7,376,132
New	Fin	Marchant St	* replaced with 1	Grafton - W. Na	100	1.5	Iron Pipe			N	5	Med	5	0	5	5	2.5	0	3	190	\$16,500	\$7,392,632
New	Fin	Rowland Rd	Northerly	Adm Kalbfus Rd	81	2	Cem Lined	4/1/1932	77	N		Med	5	3	0	5	2.5	0	3	191	\$13,365	\$7,405,997
New	Fin	Scotts Wharf	Thames St	Westerly	116.9	2	Cem Lined			Y		High	5	0	0	5	5	5	3	192	\$19,289	\$7,425,285
New	Fin	Stacy Ave	Norman Ave	Palmer Ave	215	6	Cast iron	11/1/1915	94	N	1	Med	2.5	4	2.5	5	2.5	0	3	193	\$35,475	\$7,460,760
New	Fin	Stoddard Ct			80.95	2	Cem Lined			Y		High	5	0	0	5	5	5	3	194	\$13,357	\$7,474,117
New	Fin	Tompkins Ct	Fillmore St	End	85	2	Cem Lined			Y		High	5	0	0	5	5	5	3	195	\$14,025	\$7,488,142
New	Fin	West Extension St	Thames St	Westerly	265	1.5	Iron Pipe			Y		High	5	0	0	5	5	5	3	196	\$43,725	\$7,531,867
New	Fin	Xavier Ter	Eustis Ave	Holten Ave	335	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	197	\$55,275	\$7,587,142
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	45	2	Gal - CL	Jan-30	79	N		Med	5	3	0	5	2.5	0	3	198	\$7,425	\$7,594,567
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	95	1.5	Gal - CL	Jan-30	79	N		Med	5	3	0	5	2.5	0	3	199	\$15,675	\$7,610,242
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	133	1.5	Gal - CL	Jan-39	70	N		Med	5	3	0	5	2.5	0	3	200	\$21,863	\$7,632,105
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	22	1.5	Gal - CL	Jan-40	69	N		Med	5	3	0	5	2.5	0	3	201	\$3,630	\$7,635,735
Midd	Fin	Easton Farm	W of Paradise	W of Paradise	407	4	AC	9/3/1957	52	Y		Low	5	2	0	5	0	5	3	202	\$67,155	\$7,702,890
Midd	Fin	Easton Terr	Wolcott Ave	W of Wolcott Av	230	2	WI - CL	11/26/1952	57	Y		Low	5	2	0	5	0	5	3	203	\$37,950	\$7,740,840
Midd	Fin	Freeborn St	Miantonomi Ave	N of Hoppin Rd	565	6	AC	Sep-49	60	N	1	High	2.5	3	2.5	5	5	0	3	204	\$93,225	\$7,834,065
Midd	Fin	Jude St	Park Dr	N of Park Dr	94.5	2	Wrought Iron	Apr-52	57	Y		Low	5	2	0	5	0	5	3	205	\$15,593	\$7,849,657
Midd	Fin	Jude St	N of Park Dr	N of Park Dr	28	2	Wrought Iron	Sep-52	57	Y		Low	5	2	0	5	0	5	3	206	\$4,620	\$7,854,277
Midd	Fin	Paradise Ave	6" Transite Pipe	S. of Prospect D	595.5	6	AC	May-40	69	Y	1	Low	2.5	3	2.5	5	0	5	3	207	\$98,258	\$7,952,535
Midd	Fin	Paradise Ave	S. of Prospect Dr	Paradise Schoo	783	6	AC	Mar-42	67	Y	1	Low	2.5	3	2.5	5	0	5	3	208	\$129,195	\$8,081,730
Midd	Fin	Sachuest Beach	Gate @ Paradise	Meter Pit near B	3201	4	AC	May-63	46	Y		Low	5	2	0	5	0	5	3	209	\$528,165	\$8,609,895
Midd	Fin	West Main Road	gate	north to gate	110	1.5	Wrought Iron	10/1/1945	64	N		Med	5	3	0	5	2.5	0	3	210	\$18,150	\$8,628,045
Midd	Fin	West Main Road	gate	north	102	1.5	Wrought Iron	4/1/1949	60	N		Med	5	3	0	5	2.5	0	3	211	\$16,830	\$8,644,875
Midd	Fin	Yarnell Ave	south	Maple Ave	140	2	WI - CL	6/1/1944	65	N		Med	5	3	0	5	2.5	0	3	212	\$23,100	\$8,667,975
Midd	Fin	Dexter St	W of West Main R	W of West Main	77.5	1.25	Copper	6/30/1952	57	Y		Med	5	2	0	3	2.5	5	2.95	213	\$12,788	\$8,680,762
New	Fin	Aborn St			73	6	AC	1/27/1953	56	Y		High	2.5	2	0	5	5	5	2.875	214	\$12,045	\$8,692,807
New	Fin	Aborn St			20	6	AC	3/1/1966	43	Y		High	2.5	2	0	5	5	5	2.875	215	\$3,300	\$8,696,107
New	Fin	America's Cup Ave	Thames St	Westerly	15	6	Cast Iron	6/1/1969	40	Y		High	2.5	2	0	5	5	5	2.875	216	\$2,475	\$8,698,582
New	Fin	Anthony St	Pope St	Bowery St	347	6	Cast Iron	1/1/1915	94	N		High	2.5	4	0	5	5	0	2.875	217	\$57,255	\$8,755,837
New	Fin	Bayview Ave			40	6	Cast Iron	6/1/1923	86	N		High	2.5	4	0	5	5	0	2.875	218	\$6,600	\$8,762,437
New	Fin	Boughton Rd	Broadway		712	6	Cast Iron	9/30/1929	80	N		High	2.5	4	0	5	5	0	2.875	219	\$117,480	\$8,879,917
New	Fin	Bowery St	Spring St	Bellevue Ave	1129	6	Cast Iron	1/1/1915	94	N		High	2.5	4	0	5	5	0	2.875	220	\$186,285	\$9,066,202
New	Fin	Burdick Ave	Malbone Rd	Thurston Ave	780	6	Cast Iron	9/19/1917	92	N		High	2.5	4	0	5	5	0	2.875	221	\$128,700	\$9,194,902
New	Fin	Butler St	Evart St	Southmayd St	349	6	Cast Iron	4/12/1905	104	N		Med	2.5	5	0	5	2.5	0	2.875	222	\$57,585	\$9,252,487
New	Fin	Canonicus Ave	Broadway	Sagamore St	956.67	6	Cast iron	10/17/1909	100	N		Med	2.5	5	0	5	2.5	0	2.875	223	\$157,851	\$9,410,338
New	Fin	Champlin Pl	Champlin St	Ellery Rd	501.5	6	Cast Iron	6/1/1929	80	N		High	2.5	4	0	5	5	0	2.875	224	\$82,748	\$9,493,085
New	Fin	Champlin Pl North			338	6	AC	4/1/1950	59	Y		High	2.5	2	0	5	5	5	2.875	225	\$55,770	\$9,548,855
New	Fin	Charles St	Coddington St	Marlborough St	210	6	Cast Iron	1/1/1922	87	N		High	2.5	4	0	5	5	0	2.875	226	\$34,650	\$9,583,505
New	Fin	Come St	Mill St	Pelham St	234	6	Cast Iron	4/1/1927	82	N		High	2.5	4	0	5	5	0	2.875	227	\$38,610	\$9,622,115
New	Fin	Cottage St	Catherine St	Redwood St	234.33	6	Cast Iron	1/1/1926	83	N		High	2.5	4	0	5	5	0	2.875	228	\$38,664	\$9,660,780
New	Fin	Daniel St	Ellery Rd		3	6	Cast iron	3/2/1953	56	Y		High	2.5	2	0	5	5	5	2.875	229	\$495	\$9,661,275
New	Fin	Dixon St	Spring St	Bellevue Ave	886.5	6	Cast Iron	5/1/1926	83	N		High	2.5	4	0	5	5	0	2.875	230	\$146,273	\$9,807,547
New	Fin	Everett St	Broadway	N of Kay St	976	6	Cast Iron	6/13/1910	99	N		High	2.5	4	0	5	5	0	2.875	231	\$161,040	\$9,968,587
New	Fin	Exeter St	Training Station Rd		22.5	6	Cast iron	5/16/1932	77	Y		Med	2.5	3	0	5	2.5	5	2.875	232	\$3,713	\$9,972,300
New	Fin	Florence Ave	Ruggles Ave	Northerly	159	6	Cast iron	3/1/1938	71	Y		Med	2.5	3	0	5	2.5	5	2.875	233	\$26,235	\$9,998,535
New	Fin	Florence Ave			112.5	6	Cast Iron	5/1/1939	70	Y		Med	2.5	3	0	5	2.5	5	2.875	234	\$18,563	\$10,017,097
New	Fin	Florence Ave			112	6	Cast Iron	11/1/1940	69	Y		Med	2.5	3	0	5	2.5	5	2.875	235	\$18,480	\$10,035,577
New	Fin	Florence Ave			160	6	Cast Iron	1/1/1949	60	Y		Med	2.5	3	0	5	2.5	5	2.875	236	\$26,400	\$10,061,977
New	Fin	Freeborn St			72	6	AC	5/1/1957	52	Y		High	2.5	2	0	5	5	5	2.875	237	\$11,880	\$10,073,857
New	Fin	Friendship St	Broadway		21	6	Cast Iron	1/1/1923	86	N		High	2.5	4	0	5	5	0	2.875	238	\$3,465	\$10,077,322
New	Fin	Guthrie St	Bliss Mine Rd		26.5	6	AC	8/5/1950	59	Y		High	2.5	2	0	5	5	5	2.875	239	\$4,373	\$10,081,695
New	Fin	Guthrie St	Bliss Mine Rd		355	6	AC	4/25/1950	59	Y		High	2.5	2	0	5	5	5	2.875	240	\$58,575	\$10,140,270
New	Fin	Halsey St			35	6	Cast Iron	1/1/1933	76	Y		Med	2.5	3	0	5	2.5	5	2.875	241	\$5,775	\$10,146,045
New	Fin	Halsey St			626	6	AC	12/1/1938	71	Y		Med	2.5	3	0	5	2.5	5	2.875	242	\$103,290	\$10,249,335
New	Fin	Harold St	Carroll Ave		63	6	Cast Iron	10/17/1922	87	Y		Low	2.5	4	0	5	0	5	2.875	243	\$10,395	\$10,259,730
New	Fin	Holten Ave			47.25	6	AC	4/1/1952	57	Y		High	2.5	2	0	5	5	5	2.875	244	\$7,796	\$10,267,526
New	Fin	Holten Ave			201	6	AC	8/27/1952	57	Y		High	2.5	2	0	5	5	5	2.875	245	\$33,165	\$10,300,691
New	Fin	Holten Ave	Loyola Ter	Northerly	100	6	AC	11/1/1951	58	Y		High	2.5	2	0	5	5	5	2.875	246	\$16,500	\$10,317,191
New	Fin	Holten Ave			253	6	AC	5/1/1952	57	Y		High	2.5	2	0	5	5	5	2.875	247	\$41,745	\$10,358,936
New	Fin	Kay Blvd	Kay		752.1	6	Cast iron	8/14/1917	92	N		High	2.5	4	0	5	5	0	2.875	248	\$124,097	\$10,483,032
New	Fin	Leonard Ter	Holten Ave	W of Holten Ave	268	6	AC	4/10/1953	56	Y		High	2.5	2	0	5	5	5	2.875	249	\$44,220	\$10,527,252
New	Fin	Marion St	Kay St		40.5	6	Cast iron	6/1/1952	57	Y		High	2.5	2	0	5	5	5	2.875	250	\$6,683	\$10,533,935
New	Fin	Marion St	Kay St	S of Kay St	149.5	6	AC	6/1/1952	57	Y		High	2.5	2	0	5	5	5	2.875	251	\$24,668	\$10,558,602

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	McAllister St	Thames St		25.4	6	Cast iron	7/17/1915	94	N		High	2.5	4	0	5	5	0	2.875	252	\$4,191	\$10,562,793
New	Fin	Michael Ter	Eustis Ave	End	223	6	AC	8/1/1956	53	Y		High	2.5	2	0	5	5	5	2.875	253	\$36,795	\$10,599,588
New	Fin	Michael Ter	Eustis Ave		9	6	Cast iron	10/17/1956	53	Y		High	2.5	2	0	5	5	5	2.875	254	\$1,485	\$10,601,073
New	Fin	Michael Ter	Eustis Ave		3	6	AC	10/17/1956	53	Y		High	2.5	2	0	5	5	5	2.875	255	\$495	\$10,601,568
New	Fin	Mumford Ave	Broadway		36	6	Cast iron	1/1/1923	86	N		High	2.5	4	0	5	5	0	2.875	256	\$5,940	\$10,607,508
New	Fin	Mumford Ave			132	6	Cast iron	9/30/1927	82	N		High	2.5	4	0	5	5	0	2.875	257	\$21,780	\$10,629,288
New	Fin	Old Beach Rd	Greenough Pl	Rhode Island Av	782.7	6	Cast iron	4/26/1922	87	N		High	2.5	4	0	5	5	0	2.875	258	\$129,146	\$10,758,434
New	Fin	Peckham Ave	Broadway		14	6	Cast Iron	1/1/1923	86	N		High	2.5	4	0	5	5	0	2.875	259	\$2,310	\$10,760,744
New	Fin	Peckham Ave	Broadway	Russell Ave	680	6	Cast Iron	1/1/1910	99	N		High	2.5	4	0	5	5	0	2.875	260	\$112,200	\$10,872,944
New	Fin	Pell St	Greenough Pl	Northerly	157.83	6	Cast iron	11/7/1919	90	N		High	2.5	4	0	5	5	0	2.875	261	\$26,042	\$10,898,986
New	Fin	Pell St	Northerly	Kay St	294.42	6	Cast iron	5/5/1920	89	N		High	2.5	4	0	5	5	0	2.875	262	\$48,579	\$10,947,565
New	Fin	Perry Mill Whf	Thames St	Westerly	325	6	AC	9/1/1969	40	Y		High	2.5	2	0	5	5	5	2.875	263	\$53,625	\$11,001,190
New	Fin	Pond Ave	Wheatland Blvd		30	4	Cast iron			N	1	High	5	0	2.5	5	5	0	2.875	264	\$4,950	\$11,006,140
New	Fin	Price's Cove Rd	Ocean Ave	Southerly	1043	6	Cast iron	6/7/1915	94	Y		Low	2.5	4	0	5	0	5	2.875	265	\$172,095	\$11,178,235
New	Fin	School St	Church St		12.7	6	Cast iron	9/27/1921	88	N		High	2.5	4	0	5	5	0	2.875	266	\$2,096	\$11,180,331
New	Fin	School St	Church St	Touro St	565.8	6	Cast iron	8/24/1926	83	N		High	2.5	4	0	5	5	0	2.875	267	\$93,357	\$11,273,688
New	Fin	School St	Touro St		18	6	Cast iron	9/23/1926	83	N		High	2.5	4	0	5	5	0	2.875	268	\$2,970	\$11,276,658
New	Fin	Shepard Ave	Bellevue Ave	Lawrence Ave	1490	6	Cast iron	1/1/1903	106	N		Med	2.5	5	0	5	2.5	0	2.875	269	\$245,850	\$11,522,508
New	Fin	Sylvan St	Berkeley Ave	Sylvan Ter	326	6	Cast iron	9/21/1912	97	N		High	2.5	4	0	5	5	0	2.875	270	\$53,790	\$11,576,298
New	Fin	Sylvan St	Sylvan Ter	Parker Ave	281	6	Cast iron	6/22/1927	82	N		High	2.5	4	0	5	5	0	2.875	271	\$46,365	\$11,622,663
New	Fin	Walnut St	Washington St		18	6	Cast iron	10/20/1917	92	N		High	2.5	4	0	5	5	0	2.875	272	\$2,970	\$11,625,633
New	Fin	Yznaga Ave			313	6	Cast iron	1/1/1922	87	Y		Low	2.5	4	0	5	0	5	2.875	273	\$51,645	\$11,677,278
Midd	Fin	Allston Ave	Purgatory Rd	S of Purgatory	73	6	AC	6/19/48	61	Y		Med	2.5	3	0	5	2.5	5	2.875	274	\$12,045	\$11,689,323
Midd	Fin	Dudley Pl North	Phelps Rd	W of Phelps Rd	13	6	Cast Iron	2/1/1949	60	Y		Med	2.5	3	0	5	2.5	5	2.875	275	\$2,145	\$11,691,468
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	313	6	AC	2/1/1949	60	Y		Med	2.5	3	0	5	2.5	5	2.875	276	\$51,645	\$11,743,113
Midd	Fin	Dudley Pl South	Phelps Rd	W of Phelps Rd	335	6	Cast Iron	7/15/1940	69	Y		Med	2.5	3	0	5	2.5	5	2.875	277	\$55,275	\$11,798,388
Midd	Fin	Hill Top Avenue	Boulevard	N. of Boulevard	468	6	AC	Dec-39	70	Y		Med	2.5	3	0	5	2.5	5	2.875	278	\$77,220	\$11,875,608
Midd	Fin	Linden Street	Evergreen Ave	S. of Evergreen	83.25	6	AC	Apr-49	60	Y		Med	2.5	3	0	5	2.5	5	2.875	279	\$13,736	\$11,889,344
Midd	Fin	Linden Street	Evergreen Ave	N of Evergreen	289	6	AC	Oct-49	60	Y		Med	2.5	3	0	5	2.5	5	2.875	280	\$47,685	\$11,937,029
Midd	Fin	Rosa Rd	Maple Ave	S of Maple	38	6	Cast Iron	Jul-48	61	Y		Med	2.5	3	0	5	2.5	5	2.875	281	\$6,270	\$11,943,299
New	Fin	Annandale Rd	Narraqansett Ave	Memorial Blvd	2967	20	Cast iron	8/1/1939	70	N	3	High	0	3	5	5	5	0	2.75	282	\$593,400	\$12,536,699
New	Fin	Bayview Ave			550	4	Cast Iron		30	N		High	5	1	0	5	5	0	2.75	283	\$90,750	\$12,627,449
New	Fin	Eustis Ave	Ellery Rd	Bliss Rd	2240	16	Cast iron	8/1/1939	70	N	2	High	0	3	5	5	5	0	2.75	284	\$448,000	\$13,075,449
New	Fin	Vanderbilt Ave			35	1.5	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	285	\$5,775	\$13,081,224
New	Fin	Vanderbilt Ave			60	2	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	286	\$9,900	\$13,091,124
New	Fin	Vanderbilt Ave			60	2	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	287	\$9,900	\$13,101,024
New	Fin	West St	Perry St		5	4	Cast iron	2/1/1970	39	N		High	5	1	0	5	5	0	2.75	288	\$825	\$13,101,849
Midd	Fin	Everett St	Boulevard	N of Boulevard	12	4	Cast Iron	8/1/1950	59	N		Med	5	2	0	5	2.5	0	2.75	289	\$1,980	\$13,103,829
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	255	4	AC	8/1/1950	59	N		Med	5	2	0	5	2.5	0	2.75	290	\$42,075	\$13,145,904
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	78	4	AC	6/1/1951	58	N		Med	5	2	0	5	2.5	0	2.75	291	\$12,870	\$13,158,774
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	178.42	4	AC	5/6/1952	57	N		Med	5	2	0	5	2.5	0	2.75	292	\$29,439	\$13,188,213
Midd	Fin	Gibson Park Road	Bliss Rd	S of Sherwood	275	4	AC			Y		Med	5	0	0	5	2.5	5	2.75	293	\$45,375	\$13,233,588
Midd	Fin	Harbor View Court	Maple Ave	N. on Harbor Vie	18	2	Wrought Iron	Dec-97	12	Y		Med	5	0	0	5	2.5	5	2.75	294	\$2,970	\$13,236,558
Midd	Fin	Harbor View Court	N. of Maple Ave	N. on Harbor Vie	510	1	Wrought Iron	Dec-97	12	Y		Med	5	0	0	5	2.5	5	2.75	295	\$84,150	\$13,320,708
Midd	Fin	Sherwood Road	North	N of Gibson Par	331	4	AC			Y		Med	5	0	0	5	2.5	5	2.75	296	\$54,615	\$13,375,323
Midd	Fin	Stockton Dr	West Main Rd	Rosedale Ave	1110	6	AC	1/1/1944	65	N	1	Med	2.5	3	2.5	5	2.5	0	2.75	297	\$183,150	\$13,558,473
New	Fin	Cozzens Ct			29.01	2	Copper	3/1/1996	13	Y		High	5	0	0	3	5	5	2.7	298	\$4,787	\$13,563,260
New	Fin	Johnson Ct	Kingston Ave		30.5	1.25	Copper			Y		High	5	0	0	3	5	5	2.7	299	\$5,033	\$13,568,292
New	Fin	Maitland Ct	Third St	End	325	1.5	Copper	7/1/1995	14	Y		High	5	0	0	3	5	5	2.7	300	\$53,625	\$13,621,917
New	Fin	Sagamore St	Adm Kalbfus Rd		21.3	1.5	Copper	7/1/1941	68	N		Med	5	3	0	3	2.5	0	2.7	301	\$3,615	\$13,625,432
New	Fin	Sunshine Ct	Third St		14	1.5	Copper			Y		High	5	0	0	3	5	5	2.7	302	\$2,310	\$13,627,742
New	Fin	Xavier Ter	Holten Ave		41	2	Copper			Y		High	5	0	0	3	5	5	2.7	303	\$6,765	\$13,634,507
Midd	Fin	Casey Dr	N of Murphy Cir	N of Murphy Cir	98	1.25	Copper	7/1/1964	45	Y		Low	5	2	0	3	0	5	2.7	304	\$16,170	\$13,650,677
Midd	Fin	Sullivan Terr	W of West Main	Motel	100	2	Copper	5/1/1957	52	Y		Low	5	2	0	3	0	5	2.7	305	\$16,500	\$13,667,177
New	Fin	Aphorp Ave	Bedlow Ave	Canonicus Ave	513.73	6	Cast Iron	4/21/1916	93	N		Med	2.5	4	0	5	2.5	0	2.625	306	\$84,765	\$13,751,942
New	Fin	Ashurst Pl		Cranston Ave	20	6	Cast iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	307	\$3,300	\$13,755,242
New	Fin	Battery St	Washington St	Second St	363	6	Cast Iron	4/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	308	\$59,895	\$13,815,137
New	Fin	Bayside Village			30	6	AC	8/1/1972	37	Y		High	2.5	1	0	5	5	5	2.625	309	\$4,950	\$13,820,087
New	Fin	Brandt St	Van Zandt Ave		23.62	6	Cast Iron	6/1/1930	79	N		High	2.5	3	0	5	5	0	2.625	310	\$3,897	\$13,823,985
New	Fin	Brandt St			134	6	AC	5/1/1948	61	N		High	2.5	3	0	5	5	0	2.625	311	\$22,110	\$13,846,095
New	Fin	Brandt St		Evarts	16	6	Cast Iron	5/1/1948	61	N		High	2.5	3	0	5	5	0	2.625	312	\$2,640	\$13,848,735
New	Fin	Calvert St	Cranston Ave		20.5	6	Cast Iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	313	\$3,383	\$13,852,117
New	Fin	Champlin Pl	Ellery Rd		57.5	6	Cast iron	8/15/1932	77	N		High	2.5	3	0	5	5	0	2.625	314	\$9,488	\$13,861,605

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/					Exist	Exist			Dead								Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Pipe Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	Age (years)	End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Cost Est
New	Fin	Cliff Ave	S of Merton Rd	Dresser St	250	6	Cast Iron	2/1/1930	79	N		High	2.5	3	0	5	5	0	2.625	315	\$41,250	\$13,902,855
New	Fin	Curry Ave	Bedlow Ave	Northerly	369.3	6	Cast iron	9/6/1916	93	N		Med	2.5	4	0	5	2.5	0	2.625	316	\$60,935	\$13,963,789
New	Fin	Curry Ave			72	6	Cast iron	6/15/1915	94	N		Med	2.5	4	0	5	2.5	0	2.625	317	\$11,880	\$13,975,669
New	Fin	Curry Ave		Canonicus Ave	57.6	6	Cast iron	8/1/1923	86	N		Med	2.5	4	0	5	2.5	0	2.625	318	\$9,504	\$13,985,173
New	Fin	Eadie St	Gibbs Ave	Whitwell Ave	357	6	Cast Iron	5/12/1937	72	N		High	2.5	3	0	5	5	0	2.625	319	\$58,905	\$14,044,078
New	Fin	East Bowery St	Middleton Ave	Annandale Rd	430	6	Cast Iron			N	3	High	2.5	0	5	5	5	0	2.625	320	\$70,950	\$14,115,028
New	Fin	Edward St	White St	Wheatland Blvd	788	6	Cast iron	6/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	321	\$130,020	\$14,245,048
New	Fin	Feke St	Tilden Ave		9.5	6	Cast Iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	322	\$1,568	\$14,246,616
New	Fin	Gibbs Ave	Ellery Rd	Old Beach Rd	2060	6	Cast Iron			N	3	High	2.5	0	5	5	5	0	2.625	323	\$339,900	\$14,586,516
New	Fin	Gilroy St	Palmer St		154	6	Cast Iron	1/1/1918	91	N		Med	2.5	4	0	5	2.5	0	2.625	324	\$25,410	\$14,611,926
New	Fin	Harvard St	Pennacook St	Southerly	227.9	6	Cast Iron	11/22/1921	88	N		Med	2.5	4	0	5	2.5	0	2.625	325	\$37,604	\$14,649,529
New	Fin	Harvard St	S of Pennacook St	Bedlow Ave	187.8	6	Cast Iron	6/13/1927	82	N		Med	2.5	4	0	5	2.5	0	2.625	326	\$30,987	\$14,680,516
New	Fin	Homer St	Garfield St	N to end	163	6	AC	1/1/1957	52	Y		Med	2.5	2	0	5	2.5	5	2.625	327	\$26,895	\$14,707,411
New	Fin	Houston Ave	Wellington Ave	W Narragansett	678	6	Cast Iron	11/6/1910	99	N		Med	2.5	4	0	5	2.5	0	2.625	328	\$111,870	\$14,819,281
New	Fin	Kay Blvd			176	6	Cast iron	9/26/1936	73	N		High	2.5	3	0	5	5	0	2.625	329	\$29,040	\$14,848,321
New	Fin	Kay Blvd		Bliss	48	6	Cast iron	3/6/1939	70	N		High	2.5	3	0	5	5	0	2.625	330	\$7,920	\$14,856,241
New	Fin	Kay St	Friendship St	Eustis Ave	775	6	Cast iron	6/5/1931	78	N		High	2.5	3	0	5	5	0	2.625	331	\$127,875	\$14,984,116
New	Fin	Keeher Ave	Bliss Rd	S of Bliss Rd	12	6	Cast Iron	4/1/1930	79	N		High	2.5	3	0	5	5	0	2.625	332	\$1,980	\$14,986,096
New	Fin	Keeher Ave	Kay St	N of Kay St	28	6	Cast Iron	11/1/1945	64	N		High	2.5	3	0	5	5	0	2.625	333	\$4,620	\$14,990,716
New	Fin	Keeher Ave			44	6	Cast iron	10/6/1947	62	N		High	2.5	3	0	5	5	0	2.625	334	\$7,260	\$14,997,976
New	Fin	Kempson St	Eustis Ave		156.5	6	Cast iron	5/1/1941	68	N		High	2.5	3	0	5	5	0	2.625	335	\$25,823	\$15,023,799
New	Fin	Kempson St			279	6	Cast Iron	8/1/1949	60	N		High	2.5	3	0	5	5	0	2.625	336	\$46,035	\$15,069,834
New	Fin	Kempson St			82	6	AC	8/1/1949	60	N		High	2.5	3	0	5	5	0	2.625	337	\$13,530	\$15,083,364
New	Fin	Marchant St	Wellington Ave	S of Wellington	183	6	Cast Iron	12/5/1916	93	N		Med	2.5	4	0	5	2.5	0	2.625	338	\$30,195	\$15,113,559
New	Fin	Morgan St	Palmer St	Northerly	249	6	Cast Iron	1/1/1918	91	N		Med	2.5	4	0	5	2.5	0	2.625	339	\$41,085	\$15,154,644
New	Fin	Mumford Ave			192	6	Cast iron	8/5/1931	78	N		High	2.5	3	0	5	5	0	2.625	340	\$31,680	\$15,186,324
New	Fin	Mumford Ave			93	6	Cast iron	7/26/1932	77	N		High	2.5	3	0	5	5	0	2.625	341	\$15,345	\$15,201,669
New	Fin	Norman Ave	Old Fort Rd	Palmer Ave	513	6	Cast iron	11/1/1918	91	N		Med	2.5	4	0	5	2.5	0	2.625	342	\$84,645	\$15,286,314
New	Fin	Palmer St	Carroll Ave	Westerly	710.8	6	Cast Iron	11/1/1918	91	N		Med	2.5	4	0	5	2.5	0	2.625	343	\$117,282	\$15,403,596
New	Fin	Pennacook St	Sagamore St	Westerly	208	6	Cast iron	9/10/1920	89	N		Med	2.5	4	0	5	2.5	0	2.625	344	\$34,320	\$15,437,916
New	Fin	Pennacook St			183.75	6	Cast Iron	10/19/1928	81	N		Med	2.5	4	0	5	2.5	0	2.625	345	\$30,319	\$15,468,234
New	Fin	Pennacook St			84.5	6	Cast iron	9/16/1929	80	N		Med	2.5	4	0	5	2.5	0	2.625	346	\$13,943	\$15,482,177
New	Fin	Rowland Rd	Canonicus Ave	Northerly	43.4	6	Cast Iron	5/1/1928	81	N		Med	2.5	4	0	5	2.5	0	2.625	347	\$7,161	\$15,489,338
New	Fin	Sagamore St	Canonicus Ave	Pennacook St	91.2	6	Cast iron	9/10/1920	89	N		Med	2.5	4	0	5	2.5	0	2.625	348	\$15,048	\$15,504,386
New	Fin	Spring St	Perry St	N of Narragansett	1450	6	Cast Iron			N	2	High	2.5	0	5	5	5	0	2.625	349	\$239,250	\$15,743,636
New	Fin	Tilden Ave	Warner St	Wheatland Blvd	650.47	6	Cast Iron	6/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	350	\$107,328	\$15,850,963
New	Fin	Touro St	Spring St		23	6	Cast iron	10/1/1946	63	N		High	2.5	3	0	5	5	0	2.625	351	\$3,795	\$15,854,758
New	Fin	Tyler St	Cranston Ave		14	6	Cast iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	352	\$2,310	\$15,857,068
New	Fin	Wesley St			97	6	Cast Iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	353	\$16,005	\$15,873,073
Midd	Fin	Adelaide Rd	Boulevard	E of Boulevard	6	6	Cast Iron	Mar-56	53	Y		Med	2.5	2	0	5	2.5	5	2.625	354	\$908	\$15,873,981
Midd	Fin	Adelaide Rd	Sheri Ln	E of Sheri Ln	156	6	AC	May-57	52	Y		Med	2.5	2	0	5	2.5	5	2.625	355	\$25,740	\$15,899,721
Midd	Fin	Adelaide Rd	E of Sheri Ln	E of Sheri Ln	113	6	AC	Oct-68	41	Y		Med	2.5	2	0	5	2.5	5	2.625	356	\$18,563	\$15,918,283
Midd	Fin	Ames Plaza (off West)	Gate	West straight	100	6	AC	Jan-68	41	Y		Med	2.5	2	0	5	2.5	5	2.625	357	\$16,500	\$15,934,783
Midd	Fin	Beacon St	Beacon Terr North	N of Beacon St	17.25	6	Cast Iron	Feb-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	358	\$2,846	\$15,937,630
Midd	Fin	Beacon Terr North	Beacon St	N of Beacon St	42	6	Cast Iron	Feb-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	359	\$6,930	\$15,944,560
Midd	Fin	Beacon Terr North	N of Beacon St	N of Beacon St	336	6	AC	Feb-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	360	\$55,440	\$16,000,000
Midd	Fin	Beacon Terr North	N of Beacon St	N of Beacon St	107	6	AC	May-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	361	\$17,655	\$16,017,655
Midd	Fin	Bristol Rd	Ludlow Rd	Woolsey Rd	465	6	AC	8/1/1955	54	Y		Med	2.5	2	0	5	2.5	5	2.625	362	\$76,725	\$16,094,380
Midd	Fin	Buck Rd	Ludlow Rd	Woolsey Rd	646	6	AC	Aug-55	54	Y		Med	2.5	2	0	5	2.5	5	2.625	363	\$106,590	\$16,200,970
Midd	Fin	Clayton St	Boulevard	N of Boulevard	400	6	AC	May-52	57	Y		Med	2.5	2	0	5	2.5	5	2.625	364	\$66,000	\$16,266,970
Midd	Fin	Clayton St	N of Boulevard	N of Boulevard	13	6	AC	7/22/1955	54	Y		Med	2.5	2	0	5	2.5	5	2.625	365	\$2,145	\$16,269,115
Midd	Fin	Collins Terr	Miantonomi Ave	N of Miantonom	5	6	Cast Iron	9/16/1957	52	Y		Med	2.5	2	0	5	2.5	5	2.625	366	\$825	\$16,269,940
Midd	Fin	Collins Terr	N of Miantonomi	N of Miantonom	365	6	AC	9/16/1957	52	Y		Med	2.5	2	0	5	2.5	5	2.625	367	\$60,225	\$16,330,165
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	48	6	AC	5/16/1951	58	Y		Med	2.5	2	0	5	2.5	5	2.625	368	\$7,920	\$16,338,085
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	13.5	6	AC	1/27/1954	55	Y		Med	2.5	2	0	5	2.5	5	2.625	369	\$2,228	\$16,340,312
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	22	6	AC	1/1/1955	54	Y		Med	2.5	2	0	5	2.5	5	2.625	370	\$3,630	\$16,343,942
Midd	Fin	Dudley Pl South	W of Phelps Rd	S of Dudley Pl	152	6	Cast Iron	8/1/1950	59	Y		Med	2.5	2	0	5	2.5	5	2.625	371	\$25,080	\$16,369,022
Midd	Fin	Dudley Pl South	S of Dudley Pl	N of Dudley Pl	56	6	Cast Iron	10/1/1951	58	Y		Med	2.5	2	0	5	2.5	5	2.625	372	\$9,240	\$16,378,262

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/					Exist	Exist			Dead								Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Pipe Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	Age (years)	End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Cost Est
Midd	Fin	Linden Street	N of Evergreen A	N of Evergreen A	52	6	AC	Sep-52	57	Y		Med	2.5	2	0	5	2.5	5	2.625	378	\$8,580	\$16,440,385
Midd	Fin	Linden Street	N of Evergreen A	N of Evergreen A	152	6	AC	Nov-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	379	\$25,080	\$16,465,465
Midd	Fin	Ludlow Road	Buck Rd	Woolsey Rd	1200	6	AC	Jul-55	54	Y		Med	2.5	2	0	5	2.5	5	2.625	380	\$198,000	\$16,663,465
Midd	Fin	O'Donnell Road	Purgatory Rd	S of Purgatory	30	6	Cast Iron	Apr-49	60	Y		Low	2.5	3	0	5	0	5	2.625	381	\$4,950	\$16,668,415
Midd	Fin	O'Donnell Road	S of Purgatory	S of Purgatory	69	6	Cast Iron	May-49	60	Y		Low	2.5	3	0	5	0	5	2.625	382	\$11,385	\$16,679,800
Midd	Fin	O'Donnell Road	S of Purgatory	S of Purgatory	348	6	AC	May-49	60	Y		Low	2.5	3	0	5	0	5	2.625	383	\$57,420	\$16,737,220
Midd	Fin	Paquin Place	Maple Ave	North of Maple A	448	6	AC	Nov-52	57	Y		Med	2.5	2	0	5	2.5	5	2.625	384	\$73,920	\$16,811,140
Midd	Fin	Paquin Place	North of Maple Ave	6" DI Pipe	45	6	AC	Sep-58	51	Y		Med	2.5	2	0	5	2.5	5	2.625	385	\$7,425	\$16,818,565
Midd	Fin	Paradise Ave	Reservoir Rd	N. to 6" Transite	21.5	6	Cast Iron	May-40	69	Y		Low	2.5	3	0	5	0	5	2.625	386	\$3,548	\$16,822,112
Midd	Fin	Restmere Terrace	Blow Off	Dead end	100	6	AC	Jun-69	40	Y		Med	2.5	2	0	5	2.5	5	2.625	387	\$16,500	\$16,838,612
Midd	Fin	Ridgewood Rd	N of Oakwood Rd	Oakwood Rd	175	6	AC	8/10/1953	56	Y		Med	2.5	2	0	5	2.5	5	2.625	388	\$28,875	\$16,867,487
Midd	Fin	Rosedale Ave	Stockton Dr	E of Stockton	158	6	AC	Nov-51	58	Y		Med	2.5	2	0	5	2.5	5	2.625	389	\$26,070	\$16,893,557
Midd	Fin	Rosedale Ave	E of Stockton	E of Stockton	156.5	6	AC	3/29/1954	55	Y		Med	2.5	2	0	5	2.5	5	2.625	390	\$25,823	\$16,919,380
Midd	Fin	Rosedale Terrace	Rosedale Ave	Dead end	377.5	6	AC	3/31/1954	55	Y		Med	2.5	2	0	5	2.5	5	2.625	391	\$62,288	\$16,981,667
Midd	Fin	Seaboard Court	High St	Blow Off	187	6	AC	Sep-59	50	Y		Med	2.5	2	0	5	2.5	5	2.625	392	\$30,855	\$17,012,522
Midd	Fin	Shaw Court	High St	Blow Off	169	6	AC	Jul-51	58	Y		Med	2.5	2	0	5	2.5	5	2.625	393	\$27,885	\$17,040,407
Midd	Fin	Underwood Lane	Maple Ave	North	785	6	AC	9/17/1954	55	Y		Med	2.5	2	0	5	2.5	5	2.625	394	\$129,525	\$17,169,932
New	Fin	Longwood Pl	Evart St	End	143.25	2	PVC			Y		High	5	0	0	2	5	5	2.55	395	\$23,636	\$17,193,568
New	Fin	Annandale Ter	Annandale Rd	Loop	444	1.5	Iron Pipe			N		High	5	0	0	5	5	0	2.5	396	\$73,260	\$17,266,828
New	Fin	Annandale Ter	Annandale Rd	Loop	220	1.5	Iron Pipe			N		High	5	0	0	5	5	0	2.5	397	\$36,300	\$17,303,128
New	Fin	Brenton Rd	Ocean Ave	Northerly	269.44	2	Iron Pipe	5/1/1956	53	N		Low	5	2	0	5	0	0	2.5	398	\$44,458	\$17,347,586
New	Fin	Caleb Earl St		Wheatland Blvd	5	4	Cast iron			N		High	5	0	0	5	5	0	2.5	399	\$825	\$17,348,411
New	Fin	Champlin Pl North	Ellery Rd		20	8	Cast Iron	12/1/1938	71	Y		High	0	3	0	5	5	5	2.5	400	\$3,300	\$17,351,711
New	Fin	Cherry St	Second St	Third St	207	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	401	\$34,155	\$17,385,866
New	Fin	Cottons Ct	Thames St	Easterly	147.55	2	Cem Lined			N		High	5	0	0	5	5	0	2.5	402	\$24,346	\$17,410,212
New	Fin	Davis Ct	Callender St	Burnside Ave	180.25	2	Iron Pipe			N		High	5	0	0	5	5	0	2.5	403	\$29,741	\$17,439,953
New	Fin	Dean Ave	Spring St		24	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	404	\$3,960	\$17,443,913
New	Fin	DeBlois St	Bellevue Ave	End	129	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	405	\$21,285	\$17,465,198
New	Fin	Dennison St	Spring St	Thames St	470	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	406	\$77,550	\$17,542,748
New	Fin	Freebody St	East Bowery St		4	4	Cast iron			N		High	5	0	0	5	5	0	2.5	407	\$660	\$17,543,408
New	Fin	Gidley St	Thames St		39	4	Cast iron			N		High	5	0	0	5	5	0	2.5	408	\$6,435	\$17,549,843
New	Fin	Green St	Spring St	Thames St	495	4	Cast iron			N		High	5	0	0	5	5	0	2.5	409	\$81,675	\$17,631,518
New	Fin	Harrison Ave	Roseneath Ave	Ridge Rd	8586	12	Cast Iron	6/21/1912	97	N	2	Low	0	4	5	5	0	0	2.5	410	\$1,502,550	\$19,134,068
New	Fin	Holland St	Thames St	Spring St	641.28	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	411	\$105,811	\$19,239,879
New	Fin	Hozier St	Broadway		41.75	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	412	\$6,889	\$19,246,768
New	Fin	Loyola Ter	Eustis Ave	E of Eustis Ave	215	8	AC	1/1/1945	64	Y		High	0	3	0	5	5	5	2.5	413	\$35,475	\$19,282,243
New	Fin	Loyola Ter			80	8	AC	12/1/1949	60	Y		High	0	3	0	5	5	5	2.5	414	\$13,200	\$19,295,443
New	Fin	Maher Ct			340.81	2	Cem Lined			Y		Low	5	0	0	5	0	5	2.5	415	\$56,234	\$19,351,677
New	Fin	Merton Rd	Annandale Rd	Middleton Ave	470	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	416	\$77,550	\$19,429,227
New	Fin	Merton Rd	Middleton Ave	Freebody St	160	2	Iron Pipe			N		High	5	0	0	5	5	0	2.5	417	\$26,400	\$19,455,627
New	Fin	Murray Pl	Coggeshall Ave	Westerly	200	2	Cem Lined			Y		Low	5	0	0	5	0	5	2.5	418	\$33,000	\$19,488,627
New	Fin	Ocean Ave	Prices Cove Rd	W of Green Brid	2770	8	Cast iron	5/1/1915	94	N	2	Low	0	4	5	5	0	0	2.5	419	\$457,050	\$19,945,677
New	Fin	Pope St	Easterly	Spring St	124	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	420	\$20,460	\$19,966,137
New	Fin	Training Station Rd	Third St	Westerly	720	12	Cast iron	11/1/1914	95	Y		Med	0	4	0	5	2.5	5	2.5	421	\$126,000	\$20,092,137
New	Fin	Van Zandt Ave	Second St	Bayside Ave	215	4	Cast iron			N		High	5	0	0	5	5	0	2.5	422	\$35,475	\$20,127,612
New	Fin	Wheatland Ct	Coggeshall Ave		156.58	2	Iron Pipe			Y		Low	5	0	0	5	0	5	2.5	423	\$25,836	\$20,153,447
New	Fin	Willow St	Third St	Washington St	540	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	424	\$89,100	\$20,242,547
Midd	Fin	Stimpson St			100	2	Wrought Iron			Y		Low	5	0	0	5	0	5	2.5	425	\$16,500	\$20,259,047
New	Fin	Vanderbilt Ave			15	2	Copper	9/1/2001	8	Y		Med	5	0	0	3	2.5	5	2.45	426	\$2,475	\$20,261,522
Ports	Fin	Redwood Rd	extended	westerly	150	6	AC	7/1/1963	46	Y		Low	2.5	2	0	5	0	5	2.375	427	\$24,750	\$20,286,272
Ports	Fin	Redwood Rd	extended	westerly	160	6	AC	4/1/1965	44	Y		Low	2.5	2	0	5	0	5	2.375	428	\$26,400	\$20,312,672
Ports	Fin	Redwood Rd	extended	westerly	90	6	AC	10/1/1965	44	Y		Low	2.5	2	0	5	0	5	2.375	429	\$14,850	\$20,327,522
Ports	Fin	Redwood Rd	extended	westerly	584	6	AC	6/1/1966	43	Y		Low	2.5	2	0	5	0	5	2.375	430	\$96,360	\$20,423,882
Ports	Fin	Slate Lane	main in Mailcoach	6" gate at Mailco	37	6	AC	Jan-57	52	Y		Low	2.5	2	0	5	0	5	2.375	431	\$6,105	\$20,429,987
Ports	Fin	Slate Lane	6" gate at Mailcoach	point	20	6	AC	10/1/1967	42	Y		Low	2.5	2	0	5	0	5	2.375	432	\$3,300	\$20,433,287
New	Fin	Aborn St	Ellery Rd		22.5	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	433	\$3,713	\$20,437,000
New	Fin	Aborn St			33	6	AC			Y		High	2.5	0	0	5	5	5	2.375	434	\$5,445	\$20,442,445
New	Fin	Almy Ct			32.55	6	Cast Iron	7/31/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	435	\$5,371	\$20,447,816
New	Fin	Almy Ct			289.04	6	AC	7/31/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	436	\$47,692	\$20,495,507
New	Fin	Bayview Ave		Warner St	43	6	Cast Iron	1/1/1966	43	N		High	2.5	2	0	5	5	0	2.375	437	\$7,095	\$20,502,602
New	Fin	Bellevue Ct	Bellevue Ave	Westerly	30	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	438	\$4,950	\$20,507,552
New	Fin	Bradford Ave	Friendship St		12.06	6	AC	1/1/1953	56	N		High	2.5	2	0	5	5	0	2.375	439	\$1,990	\$20,509,542
New	Fin	Bradford Ave		Bliss	493.31	6	AC	10/1/1953	56	N		High	2.5	2	0	5	5	0	2.375	440	\$81,396	\$20,590,938

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Butler St	Van Zandt Ave	Evar St	346	6	Cast Iron	12/1/1939	70	N		Med	2.5	3	0	5	2.5	0	2.375	441	\$57,090	\$20,648,028
New	Fin	Cliff Ter	Cliff Ave		35	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	442	\$5,775	\$20,653,803
New	Fin	Connection St	Thames St	Marchant St	555	6	Cast Iron	8/1/1947	62	N		Med	2.5	3	0	5	2.5	0	2.375	443	\$91,575	\$20,745,378
New	Fin	County St	Almy St	Broadway	617	16	Cast Iron	9/1/1939	70	N	1	High	0	3	2.5	5	5	0	2.375	444	\$123,400	\$20,868,778
New	Fin	Cozzens Ct			20.12	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	445	\$3,320	\$20,872,098
New	Fin	Dudley Ave	Hillside Ave	Sagamore St	820	6	AC	7/1/1952	57	N		High	2.5	2	0	5	5	0	2.375	446	\$135,300	\$21,007,398
New	Fin	Elliott Pl	Broadway	End	410	6	AC	4/1/1980	29	Y		Med	2.5	1	0	5	2.5	5	2.375	447	\$67,650	\$21,075,048
New	Fin	Evar St	Butler St	Easterly	50	6	Cast Iron	3/1/1941	68	N		Med	2.5	3	0	5	2.5	0	2.375	448	\$8,250	\$21,083,298
New	Fin	Evar St	E of Butler St	Homer St	711	6	Cast Iron	6/1/1941	68	N		Med	2.5	3	0	5	2.5	0	2.375	449	\$117,315	\$21,200,613
New	Fin	Evar St	Butler St	Brandt St	238	6	Cast Iron	4/1/1948	61	N		Med	2.5	3	0	5	2.5	0	2.375	450	\$39,270	\$21,239,883
New	Fin	Evar St	Hall Ave	Homer St	208	6	Cast Iron	4/1/1948	61	N		Med	2.5	3	0	5	2.5	0	2.375	451	\$34,320	\$21,274,203
New	Fin	Fair St	Spring St		35	6	Cast iron	1/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	452	\$5,775	\$21,279,978
New	Fin	Garfield St	Homer St	Prescott Hall Rd	665	6	Cast iron	1/1/1933	76	N		Med	2.5	3	0	5	2.5	0	2.375	453	\$109,725	\$21,389,703
New	Fin	Hoppin Rd	Vernon Ave	Northerly	204	6	Cast iron	11/1/1936	73	N		Med	2.5	3	0	5	2.5	0	2.375	454	\$33,660	\$21,423,363
New	Fin	Hoppin Rd			90.25	6	Cast iron	5/1/1937	72	N		Med	2.5	3	0	5	2.5	0	2.375	455	\$14,891	\$21,438,254
New	Fin	Hoppin Rd			100	6	Cast iron	7/26/1938	71	N		Med	2.5	3	0	5	2.5	0	2.375	456	\$16,500	\$21,454,754
New	Fin	Hoppin Rd			70.5	6	Cast Iron	7/13/1939	70	N		Med	2.5	3	0	5	2.5	0	2.375	457	\$11,633	\$21,466,387
New	Fin	Hoppin Rd			22	6	Cast Iron	10/1/1948	61	N		Med	2.5	3	0	5	2.5	0	2.375	458	\$3,630	\$21,470,017
New	Fin	Hoppin Rd	W of Freeborn St	N of Vernon Ave	121	6	AC	10/1/1948	61	N		Med	2.5	3	0	5	2.5	0	2.375	459	\$19,965	\$21,489,982
New	Fin	Hozier St	Spring St		35	6	AC	1/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	460	\$5,775	\$21,495,757
New	Fin	Kay Ter			13	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	461	\$2,145	\$21,497,902
New	Fin	Keeher Ave			25	6	Cast iron	6/1/1950	59	N		High	2.5	2	0	5	5	0	2.375	462	\$4,125	\$21,502,027
New	Fin	Keeher Ave			166	6	AC	6/1/1950	59	N		High	2.5	2	0	5	5	0	2.375	463	\$27,390	\$21,529,417
New	Fin	Keeher Ave			360	6	AC	6/1/1951	58	N		High	2.5	2	0	5	5	0	2.375	464	\$59,400	\$21,588,817
New	Fin	Keeher Ave			501	6	AC	6/1/1952	57	N		High	2.5	2	0	5	5	0	2.375	465	\$82,665	\$21,671,482
New	Fin	Keeher Ave			50	6	AC	9/1/1952	57	N		High	2.5	2	0	5	5	0	2.375	466	\$8,250	\$21,679,732
New	Fin	Keeher Ave			149.5	6	AC	6/1/1955	54	N		High	2.5	2	0	5	5	0	2.375	467	\$24,668	\$21,704,399
New	Fin	Keeher Ave			114	6	AC	11/1/1961	48	N		High	2.5	2	0	5	5	0	2.375	468	\$18,810	\$21,723,209
New	Fin	Kempens St			58	6	AC	3/1/1950	59	N		High	2.5	2	0	5	5	0	2.375	469	\$9,570	\$21,732,779
New	Fin	Kempens St		Toppa Blvd	88.5	6	AC	4/1/1956	53	N		High	2.5	2	0	5	5	0	2.375	470	\$14,603	\$21,747,382
New	Fin	Leal Terr	Maple Ave		303	6	Cast iron	8/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	471	\$49,995	\$21,797,377
New	Fin	Liberty St	Old Beach Rd		100	6	Cast iron			Y		High	2.5	0	0	5	5	5	2.375	472	\$16,500	\$21,813,877
New	Fin	Memorial Blvd	Eustis Ave	Aquidneck Ave	5926	20	Cast Iron	1/1/1915	94	N	1	Med	0	4	2.5	5	2.5	0	2.375	473	\$1,185,200	\$22,999,077
New	Fin	Middleton Ave	Berkeley Ave	Parker Ave	450	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	474	\$74,250	\$23,073,327
New	Fin	Morgan St	Harrison Ave		27	6	Cast Iron	1/1/1939	70	N		Med	2.5	3	0	5	2.5	0	2.375	475	\$4,455	\$23,077,782
New	Fin	Old Fort Rd	Ruggles Ave	Northerly	212.25	6	Cast iron	8/27/1937	72	N		Med	2.5	3	0	5	2.5	0	2.375	476	\$35,021	\$23,112,803
New	Fin	Old Fort Rd			60	6	Cast Iron	1/1/1938	71	N		Med	2.5	3	0	5	2.5	0	2.375	477	\$9,900	\$23,122,703
New	Fin	Pennacook St			60	6	Cast iron	1/14/1932	77	N		Med	2.5	3	0	5	2.5	0	2.375	478	\$9,900	\$23,132,603
New	Fin	Pennacook St			182	6	Cast iron	11/1/1937	72	N		Med	2.5	3	0	5	2.5	0	2.375	479	\$30,030	\$23,162,633
New	Fin	Pennacook St	Westerly	Hillside Ave	19	6	Cast iron	1/1/1941	68	N		Med	2.5	3	0	5	2.5	0	2.375	480	\$3,135	\$23,165,768
New	Fin	Pope St	Spring St		35	6	AC	1/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	481	\$5,775	\$23,171,543
New	Fin	Prospect Hill St	Spring St		52	6	Cast iron	1/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	482	\$8,580	\$23,180,123
New	Fin	Shepard Ave	Lawrence Ave	Ochre Point Ave	583	6	Cast Iron	3/1/1931	78	N		Med	2.5	3	0	5	2.5	0	2.375	483	\$96,195	\$23,276,318
New	Fin	Sunnyside Pl	Old Beach Rd		100	6	Cast iron			Y		High	2.5	0	0	5	5	5	2.375	484	\$16,500	\$23,292,818
New	Fin	Sylvan Ter	Sylvan St	Easterly	177.5	6	AC	8/1/1953	56	N		High	2.5	2	0	5	5	0	2.375	485	\$29,288	\$23,322,106
New	Fin	Sylvan Ter	Middleton Ave		16	6	Cast iron	11/1/1954	55	N		High	2.5	2	0	5	5	0	2.375	486	\$2,640	\$23,324,746
New	Fin	Sylvan Ter	Middleton Ave	Westerly	269	6	AC	11/1/1954	55	N		High	2.5	2	0	5	5	0	2.375	487	\$44,385	\$23,369,131
New	Fin	Thomas St	Memorial Blvd W	John St	120	6	AC	9/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	488	\$19,800	\$23,388,931
New	Fin	Thomas St	Memorial Blvd W		30	6	Cast iron	1/1/1966	43	N		High	2.5	2	0	5	5	0	2.375	489	\$4,950	\$23,393,881
New	Fin	Tyler St			6	6	AC	11/1/1961	48	N		High	2.5	2	0	5	5	0	2.375	490	\$990	\$23,394,871
Midd	Fin	Allston Ave	Briarwood Ave	N of Briarwood	11	6	Cast Iron	1/1/49	60	N		Med	2.5	3	0	5	2.5	0	2.375	491	\$1,815	\$23,396,686
Midd	Fin	Allston Ave	N of Briarwood	N of Briarwood	90	6	AC	1/1/49	60	N		Med	2.5	3	0	5	2.5	0	2.375	492	\$14,850	\$23,411,536
Midd	Fin	Arruda Terr	West Main Rd	E of W Main Rd	207	6	AC	5/1/1952	57	Y		Low	2.5	2	0	5	0	5	2.375	493	\$34,155	\$23,445,691
Midd	Fin	Arruda Terr	E of W Main Rd	E of W Main Rd	74	6	AC	11/1/1953	56	Y		Low	2.5	2	0	5	0	5	2.375	494	\$12,210	\$23,457,901
Midd	Fin	Ashurst Ave	Tuckerman Ave	N of Tuckerman	3	6	AC	10/27/1952	57	Y		Low	2.5	2	0	5	0	5	2.375	495	\$495	\$23,458,396
Midd	Fin	Beach View Terr	Wolcott Ave	E of Wolcott Ave	579	6	AC	Sep-50	59	Y		Low	2.5	2	0	5	0	5	2.375	496	\$95,535	\$23,553,931
Midd	Fin	Beacon Terr	Rosedale Terr	S of Beacon St	565	6	AC	Jan-44	65	N		Med	2.5	3	0	5	2.5	0	2.375	497	\$93,225	\$23,647,156
Midd	Fin	Bliss Mine Rd	Town Line	Boulevard	2918	12	AC	8/1/1943	66	N	1	High	0	3	2.5	5	5	0	2.375	498	\$510,650	\$24,157,806
Midd	Fin	Boulevard	Miantonomi Ave	N of Miantonom	20	6	Cast Iron	Jan-43	66	N		Med	2.5	3	0	5	2.5	0	2.375	499	\$3,300	\$24,161,106
Midd	Fin	Brookdale Ave	East Main Rd	N of E Main Rd	3	6	AC	7/1/1971	38	Y		Med	2.5	1	0	5	2.5	5	2.375	500	\$495	\$24,161,601
Midd	Fin	Crest St South	Hoover Rd	N of Hoover Rd	394	6	AC	8/1/1958	51	Y		Low	2.5	2	0	5	0	5	2.375	501	\$65,010	\$24,226,611
Midd	Fin	Donald Dr	Casey Dr	W of Casey Dr	345.5	6	AC	6/1/1956	53	Y		Low	2.5	2	0	5	0	5	2.375	502	\$57,008	\$24,283,618
Midd	Fin	Donald Dr	W of Casey Dr	Murphy Cir	351.5	6	AC	9/1/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	503	\$57,998	\$24,341,616

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

Town	Raw/ Fin	Street Name	From	To	Pipe Lth (ft)	Exist Pipe Dia (in)	Exist Pipe Material	Pipe Age	Age (years)	Dead End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	Dead End	Total Rating	Pipe Ranking	Cost Estimate	Cum Cost Est
Midd	Fin	Donald Dr	Murphy Cir	Chases Ln	201	6	AC	11/1/1960	49	Y		Low	2.5	2	0	5	0	5	2.375	504	\$33,165	\$24,374,781
Midd	Fin	Easton Farm	Paradise Ave	W of Paradise	35	6	Cast Iron	9/3/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	505	\$5,775	\$24,380,556
Midd	Fin	Easton Farm	W of Paradise	W of Paradise	437.5	6	AC	9/3/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	506	\$72,188	\$24,452,743
Midd	Fin	Easton Farm	W of Paradise	W of Paradise	32	6	Cast Iron	9/3/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	507	\$5,280	\$24,458,023
Midd	Fin	Evergreen Ave	E of West main	E of West main	86	6	Cast Iron	10/1/1936	73	N		Med	2.5	3	0	5	2.5	0	2.375	508	\$14,190	\$24,472,213
Midd	Fin	Evergreen Ave	E of West main	E of West main	64	6	Cast Iron	4/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	509	\$10,560	\$24,482,773
Midd	Fin	Evergreen Ave	E of West main	Linden St	26	6	AC	4/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	510	\$4,290	\$24,487,063
Midd	Fin	Gunning Road	W Olcott Ave	W. of Walcott A	375	6	Cast Iron	Mar-51	58	Y		Low	2.5	2	0	5	0	5	2.375	511	\$61,875	\$24,548,938
Midd	Fin	Gunning Road	W. of Walcott Ave	N. on Gunning R	144	6	Cast Iron	Sep-51	58	Y		Low	2.5	2	0	5	0	5	2.375	512	\$23,760	\$24,572,698
Midd	Fin	Gunning Road	N. on Gunning Rd	N. on Gunning R	103	6	AC	4/22/1952	57	Y		Low	2.5	2	0	5	0	5	2.375	513	\$16,995	\$24,589,693
Midd	Fin	Harold Lane	Intersection of Harold and Gunning		3	6	Cast Iron	Jul-60	49	Y		Low	2.5	2	0	5	0	5	2.375	514	\$495	\$24,590,188
Midd	Fin	Harold Lane	Gunning Rd	N. of Reservoir A	124	6	AC	Jul-60	49	Y		Low	2.5	2	0	5	0	5	2.375	515	\$20,460	\$24,610,648
Midd	Fin	Harold Lane	N. of Reservoir Ave		30	6	AC	Nov-66	43	Y		Low	2.5	2	0	5	0	5	2.375	516	\$4,950	\$24,615,598
Midd	Fin	James Street	Kane Ave	W. of Kane Ave	16	6	AC	Dec-55	54	Y		Low	2.5	2	0	5	0	5	2.375	517	\$2,640	\$24,618,238
Midd	Fin	James Street	W. of Kane Ave	W. of Kane Ave	500	6	AC	Dec-55	54	Y		Low	2.5	2	0	5	0	5	2.375	518	\$82,500	\$24,700,738
Midd	Fin	Kent Road	Ashhurst Ave	End of Kent Rd	370	6	AC	3/29/1956	53	Y		Low	2.5	2	0	5	0	5	2.375	519	\$61,050	\$24,761,788
Midd	Fin	Murphy Circle	Casey Drive	W. of Casey Dr	359	6	AC	Jun-56	53	Y		Low	2.5	2	0	5	0	5	2.375	520	\$59,235	\$24,821,023
Midd	Fin	Murphy Circle	W. of Casey Dr	Donald Dr	901	6	AC	Sep-57	52	Y		Low	2.5	2	0	5	0	5	2.375	521	\$148,665	\$24,969,688
Midd	Fin	Nicholson Crescent	Boulevard North	S. on Nicholson	757	6	Cast Iron	May-47	62	N		Med	2.5	3	0	5	2.5	0	2.375	522	\$124,905	\$25,094,593
Midd	Fin	Oakwood Road	West Main Rd	E. of West Main	50	6	Cast Iron	Apr-48	61	N		Med	2.5	3	0	5	2.5	0	2.375	523	\$8,250	\$25,102,843
Midd	Fin	Oakwood Road	E. of West Main R	W. of Ridgewo	184	6	AC	Apr-48	61	N		Med	2.5	3	0	5	2.5	0	2.375	524	\$30,360	\$25,133,203
Midd	Fin	Peace St	Beacon St	Northerly to Ser	154.5	6	AC	Jun-50	59	Y		Low	2.5	2	0	5	0	5	2.375	525	\$25,493	\$25,158,696
Midd	Fin	Perry Rd	Wolcott Ave	E of Wolcott	510.5	6	AC	11/19/1954	55	Y		Low	2.5	2	0	5	0	5	2.375	526	\$84,233	\$25,242,928
Midd	Fin	Perry Rd	E of Wolcott	E of Wolcott	39.5	6	AC	5/11/1955	54	Y		Low	2.5	2	0	5	0	5	2.375	527	\$6,518	\$25,249,446
Midd	Fin	Rego Lane	Sousa Rd	Maplewood Rd	99	8	AC	Oct-63	46	Y	1	Med	0	2	2.5	5	2.5	5	2.375	528	\$16,335	\$25,265,781
Midd	Fin	Rosedale Ave	E of Stockton	End	73	6	AC	May-79	30	Y		Med	2.5	1	0	5	2.5	5	2.375	529	\$12,045	\$25,277,826
Midd	Fin	Seascape Ave	Renfrew Ave	Perlinger Service	279	6	AC	Nov-55	54	Y		Low	2.5	2	0	5	0	5	2.375	530	\$46,035	\$25,323,861
Midd	Fin	Seascape Ave	Perlinger Service	Santos Service	221	6	AC	May-59	50	Y		Low	2.5	2	0	5	0	5	2.375	531	\$36,465	\$25,360,326
Midd	Fin	Service Rd	West Main Rd	S. of West Main	39	6	Cast Iron	Sep-53	56	Y		Low	2.5	2	0	5	0	5	2.375	532	\$6,435	\$25,366,761
Midd	Fin	Service Rd	S. of West Main R	A & P	210	6	AC	Sep-53	56	Y		Low	2.5	2	0	5	0	5	2.375	533	\$34,650	\$25,401,411
Midd	Fin	Service Rd	A & P	Hydrant after An	258	6	AC	Oct-69	40	Y		Low	2.5	2	0	5	0	5	2.375	534	\$42,570	\$25,443,981
Midd	Fin	Shangri-La Lane	Bliss Mine Rd	S of Bliss	7	6	Cast Iron	Oct-43	66	N		Med	2.5	3	0	5	2.5	0	2.375	535	\$1,155	\$25,445,136
Midd	Fin	Shangri-La Lane	S of Bliss	E of Vernon	855	6	AC	Oct-43	66	N		Med	2.5	3	0	5	2.5	0	2.375	536	\$141,075	\$25,586,211
Midd	Fin	Shangri-La Lane	E of Vernon	Vernon Ave	8	6	Cast Iron	Oct-43	66	N		Med	2.5	3	0	5	2.5	0	2.375	537	\$1,320	\$25,587,531
Midd	Fin	Smythe Av	West Main Rd	W of W Main Rd	262	6	Cast Iron	7/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	538	\$43,230	\$25,630,761
Midd	Fin	Smythe Av	Maple Ave	S of Maple Ave	35	6	Cast Iron	10/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	539	\$5,775	\$25,636,536
Midd	Fin	Smythe Av	S of Maple Ave	S of Maple Ave	317	6	AC	10/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	540	\$52,305	\$25,688,841
Midd	Fin	Sullivan Terr	West Main Rd	W of West Main	16	6	Cast Iron	5/1/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	541	\$2,640	\$25,691,481
Midd	Fin	Wood Rd	point b	tee at Oakwood	89	8	AC	6/1/1962	47	Y	1	Med	0	2	2.5	5	2.5	5	2.375	542	\$14,685	\$25,706,166
Midd	Fin	Woolsey Rd	E of W Main Rd	Ludlow Rd	1268	8	AC	7/1/1955	54	Y	1	Med	0	2	2.5	5	2.5	5	2.375	543	\$209,220	\$25,915,386
Midd	Fin	Yarnell Ave	Hart Ave	south	870	6	AC	6/1/1944	65	N		Med	2.5	3	0	5	2.5	0	2.375	544	\$143,550	\$26,058,936
New	Fin	America's Cup Ave	Long Wharf?		260	8	Cast Iron	6/1/1969	40	Y		High	0	2	0	5	5	5	2.25	545	\$42,900	\$26,101,836
New	Fin	Bellevue Ave	Kay St/Touro St	Narragansett Av	4560	12	Cast Iron	11/1/1924	85	N		High	0	4	0	5	5	0	2.25	546	\$798,000	\$26,899,836
New	Fin	Broadway/Washington	Thames St	Equality Park Pl	2288.8	12	Cast Iron	9/1/1928	81	N		High	0	4	0	5	5	0	2.25	547	\$400,540	\$27,300,376
New	Fin	Catherine St	Bellevue Ave	Greenough Pl	1054	6	Cast Iron			N	1	High	2.5	0	2.5	5	5	0	2.25	548	\$173,910	\$27,474,286
New	Fin	Commercial Whf	Thames St	Westerly	400	8	AC	3/1/1950	59	Y		High	0	2	0	5	5	5	2.25	549	\$66,000	\$27,540,286
New	Fin	Cranston Ave	Broadway		21.6	12	Cast iron	1/1/1923	86	N		High	0	4	0	5	5	0	2.25	550	\$3,780	\$27,544,066
New	Fin	Edgar Ct	Memorial Blvd	End	456	8	AC	9/1/1961	48	Y		High	0	2	0	5	5	5	2.25	551	\$75,240	\$27,619,306
New	Fin	Eustis Ave	Memorial Blvd	Ellery Rd	3275	18	Cast iron	12/1/1927	82	N		High	0	4	0	5	5	0	2.25	552	\$655,000	\$28,274,306
New	Fin	Faxon Green	Annadale Rd	Roel Ln	425	8	AC	11/1/1961	48	Y		High	0	2	0	5	5	5	2.25	553	\$70,125	\$28,344,431
New	Fin	Holten Ave			202	8	AC	12/1/1959	50	Y		High	0	2	0	5	5	5	2.25	554	\$33,330	\$28,377,761
New	Fin	Holten Ave			19.5	8	AC	10/1/1962	47	Y		High	0	2	0	5	5	5	2.25	555	\$3,218	\$28,380,978
New	Fin	Kay St	Cranston Ave	Prairie Ave	519	16	Cast iron	6/1/1920	89	N		High	0	4	0	5	5	0	2.25	556	\$103,800	\$28,484,778
New	Fin	Kyle Ter	Bliss Rd	End	520	8	AC	11/1/1968	41	Y		High	0	2	0	5	5	5	2.25	557	\$85,800	\$28,570,578
New	Fin	Loyola Ter			222	8	AC	9/1/1950	59	Y		High	0	2	0	5	5	5	2.25	558	\$36,630	\$28,607,208
New	Fin	Mann Ave	Broadway		28.8	8	Cast Iron	8/1/1928	81	N		High	0	4	0	5	5	0	2.25	559	\$4,752	\$28,611,960
New	Fin	Marion St	S of Kay St		26.5	8	AC	7/8/1952	57	Y		High	0	2	0	5	5	5	2.25	560	\$4,373	\$28,616,333
New	Fin	Mill St	Thames St	Bellevue Ave	1668	12	Cast Iron	4/1/1927	82	N		High	0	4	0	5	5	0	2.25	561	\$291,900	\$28,908,233
New	Fin	Perry St	Bellevue Ave	Spring St	940	12	Cast iron	6/1/1915	94	N		High	0	4	0	5	5	0	2.25	562	\$164,500	\$29,072,733
New	Fin	Prairie Ave	Kay St		72.75	16	Cast iron	6/1/1920	89	N		High	0	4	0	5	5	0	2.25	563	\$14,550	\$29,087,283
New	Fin	Ruggles Ave	Ochre Point Ave	Easterly	308	8	Cast iron	2/1/1939	70	Y		Med	0	3	0	5	2.5	5	2.25	564	\$50,820	\$29,138,103
New	Fin	Sunnyside Pl	Old Beach Rd	End	326	8	AC	8/1/1969	40	Y		High	0	2	0	5	5	5	2.25	565	\$53,790	\$29,191,893
New	Fin	Third St	Cypress St	Training Station	2240	12	Cast iron	11/1/1912	97	N		High	0	4	0	5	5	0	2.25	566	\$392,000	\$29,583,893

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Toppa Blvd	Kay St	Northerly	149	8	Cast iron	6/1/1955	54	Y		High	0	2	0	5	5	5	2.25	567	\$24,585	\$29,608,478
New	Fin	Toppa Blvd			91.5	8	Cast iron	4/1/1956	53	Y		High	0	2	0	5	5	5	2.25	568	\$15,098	\$29,623,575
New	Fin	Toppa Blvd	Kempsen St	Southerly	48	8	Cast iron	4/1/1956	53	Y		High	0	2	0	5	5	5	2.25	569	\$7,920	\$29,631,495
New	Fin	Touro St	Spring St		22	6	AC			N	1	High	2.5	0	2.5	5	5	0	2.25	570	\$3,630	\$29,635,125
New	Fin	Warner St	Kingston Ave	Farewell St	1095	6	Cast iron			N	1	High	2.5	0	2.5	5	5	0	2.25	571	\$180,675	\$29,815,800
New	Fin	Washington Square	Thames St		17	10	Cast iron	9/1/1928	81	N		High	0	4	0	5	5	0	2.25	572	\$2,975	\$29,818,775
New	Fin	Washington Square	Thames St		17	10	Cast iron	9/1/1928	81	N		High	0	4	0	5	5	0	2.25	573	\$2,975	\$29,821,750
New	Fin	Weatherly Ave			310	2	Cem Lined			N		Med	5	0	0	5	2.5	0	2.25	574	\$51,150	\$29,872,900
New	Fin	Wheatland Blvd	Marlborough St	Gould St	1713.5	8	Cast iron	12/1/1915	94	N		High	0	4	0	5	5	0	2.25	575	\$282,728	\$30,155,628
New	Fin	Yale St			18	2	Cem Lined			N		Med	5	0	0	5	2.5	0	2.25	576	\$2,970	\$30,158,598
New	Fin	Yale St			516	2	Cem Lined			N		Med	5	0	0	5	2.5	0	2.25	577	\$85,140	\$30,243,738
Midd	Fin	Aquidneck Ave	Purgatory Rd	Valley Rd	1783	20	CI - CL	Jan-66	43	N	2	Med	0	2	5	5	2.5	0	2.25	578	\$356,600	\$30,600,338
Midd	Fin	Beacon St	Hillside Ave	N of Hillside Ave	35.5	8	Cast iron	Jan-41	68	Y		Med	0	3	0	5	2.5	5	2.25	579	\$5,858	\$30,606,195
Midd	Fin	Dudley Pl	West Main Rd	E of W Main Rd	19	8	Cast iron	1/1/1943	66	Y		Med	0	3	0	5	2.5	5	2.25	580	\$3,135	\$30,609,330
Midd	Fin	King Road	Maple Ave	N. of Maple Ave	150	2	Wrought Iron			N		Med	5	0	0	5	2.5	0	2.25	581	\$24,750	\$30,634,080
Midd	Fin	Newport Avenue	Aquidneck Ave	E. of Aquidneck	366	6	AC	Jun-50	59	N	1	Low	2.5	2	2.5	5	0	0	2.25	582	\$60,390	\$30,694,470
Midd	Fin	West Main Road	south of Evergree	across to east side of street		2	Wrought Iron			N		Med	5	0	0	5	2.5	0	2.25	583	\$0	\$30,694,470
New	Fin	Adm Kalbfus Rd	Broadway		361	8	Cast iron	10/1/1934	75	N	1	Med	0	3	2.5	5	2.5	0	2.125	584	\$59,565	\$30,754,035
New	Fin	Adm Kalbfus Rd	Broadway	E of Hillside	1440	8	Cast iron	7/1/1941	68	N	1	Med	0	3	2.5	5	2.5	0	2.125	585	\$237,600	\$30,991,635
New	Fin	Barney St			21	6	Cast iron	11/1/1976	33	N		High	2.5	1	0	5	5	0	2.125	586	\$3,465	\$30,995,100
New	Fin	Connell Hwy	N of Dyer St	N of Rotary	1289	12	AC	8/1/1954	55	N	1	High	0	2	2.5	5	5	0	2.125	587	\$225,575	\$31,220,675
New	Fin	Earl Ave	Morton Ave		42	6	Cast iron			Y		Med	2.5	0	0	5	2.5	5	2.125	588	\$6,930	\$31,227,605
New	Fin	Eastnor Rd Ext	Roseneath Ave	Westerly	210	6	AC	4/1/1950	59	N		Med	2.5	2	0	5	2.5	0	2.125	589	\$34,650	\$31,262,255
New	Fin	Eastnor Rd Ext			198	6	AC	10/1/1960	49	N		Med	2.5	2	0	5	2.5	0	2.125	590	\$32,670	\$31,294,925
New	Fin	Friendship Pl	Gibbs Ave	Friendship St	196	6	AC	12/1/1970	39	N		High	2.5	1	0	5	5	0	2.125	591	\$32,340	\$31,327,265
New	Fin	Gilroy St	Harrison Ave		286.11	6	AC	3/1/1961	48	N		Med	2.5	2	0	5	2.5	0	2.125	592	\$47,208	\$31,374,473
New	Fin	Halsey St			266	6	Cast iron			Y		Med	2.5	0	0	5	2.5	5	2.125	593	\$43,890	\$31,418,363
New	Fin	Hillside Ave	S of Beacon St	Beacon St	326	12	Cast iron	8/1/1941	68	N	1	Med	0	3	2.5	5	2.5	0	2.125	594	\$57,050	\$31,475,413
New	Fin	Jeffrey Rd	Alpond Dr	N of Ocean Ave	600	6	AC	3/1/1970	39	Y		Low	2.5	1	0	5	0	5	2.125	595	\$99,000	\$31,574,413
New	Fin	Lawrence Ave			13	6	AC	6/1/1959	50	N		Med	2.5	2	0	5	2.5	0	2.125	596	\$2,145	\$31,576,558
New	Fin	Leal Terr			116	6	Cast iron	3/18/1953	56	N		Med	2.5	2	0	5	2.5	0	2.125	597	\$19,140	\$31,595,698
New	Fin	Leal Terr		Girard Ave	64	6	AC	5/1/1957	52	N		Med	2.5	2	0	5	2.5	0	2.125	598	\$10,560	\$31,606,258
New	Fin	Livingston Pl								Y	1	High	0	0	2.5	5	5	5	2.125	599	\$0	\$31,606,258
New	Fin	Marchant St	Potter St	N of Potter St	101	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	600	\$16,665	\$31,622,923
New	Fin	Marchant St	Atlantic St		82	6	AC	1/1/1964	45	N		Med	2.5	2	0	5	2.5	0	2.125	601	\$13,530	\$31,636,453
New	Fin	Marchant St		S of Wellington	20	6	Cast iron	8/1/1965	44	N		Med	2.5	2	0	5	2.5	0	2.125	602	\$3,300	\$31,639,753
New	Fin	Marchant St	Eastnor Rd		85	6	AC	1/1/1965	44	N		Med	2.5	2	0	5	2.5	0	2.125	603	\$14,025	\$31,653,778
New	Fin	Milburn Ct								Y	1	High	0	0	2.5	5	5	5	2.125	604	\$0	\$31,653,778
New	Fin	Morgan St	Harrison Ave	Southerly	151	6	AC	1/1/1961	48	N		Med	2.5	2	0	5	2.5	0	2.125	605	\$24,915	\$31,678,693
New	Fin	Old Fort Rd	Northerly	Ernest Pl	65	6	Cast iron	10/1/1965	44	N		Med	2.5	2	0	5	2.5	0	2.125	606	\$10,725	\$31,689,418
New	Fin	Rose St			65.5	6	Cast iron			Y		Med	2.5	0	0	5	2.5	5	2.125	607	\$10,808	\$31,700,226
New	Fin	South Baptist St	Spring St		28	6		6/1/1976	33	N		High	2.5	1	0	5	5	0	2.125	608	\$4,620	\$31,704,846
New	Fin	Vaughan Ave			159.39	6	Cast iron			Y		Med	2.5	0	0	5	2.5	5	2.125	609	\$26,299	\$31,731,145
New	Fin	Weatherly Ave	Ruggles Ave	Northerly	298	6	AC	4/21/1955	54	N		Med	2.5	2	0	5	2.5	0	2.125	610	\$49,170	\$31,780,315
New	Fin	Weatherly Ave	Northerly		195.5	6	AC	6/24/1959	50	N		Med	2.5	2	0	5	2.5	0	2.125	611	\$32,258	\$31,812,573
New	Fin	Wellington Ave	Halidon Ave	Chastellux Ave	678	12	Cast iron	5/1/1942	67	N	1	Med	0	3	2.5	5	2.5	0	2.125	612	\$118,650	\$31,931,223
Midd	Fin	Allston Ave	N of Briarwood	N of Briarwood	74	6	AC	6/1/51	58	N		Med	2.5	2	0	5	2.5	0	2.125	613	\$12,210	\$31,943,433
Midd	Fin	Allston Ave	Briarwood Ave	S of Briarwood	156	6	AC	9/1/52	57	N		Med	2.5	2	0	5	2.5	0	2.125	614	\$25,740	\$31,969,173
Midd	Fin	Allston Ave	Orchard Ave	S of Orchard	59	6	AC	8/1/56	53	N		Med	2.5	2	0	5	2.5	0	2.125	615	\$9,735	\$31,978,908
Midd	Fin	Allston Ave	Purgatory Rd	N of Purgatory R	6.5	6	Cast iron	8/1/56	53	N		Med	2.5	2	0	5	2.5	0	2.125	616	\$1,073	\$31,979,980
Midd	Fin	Allston Ave	N of Purgatory Rd	N of Purgatory R	152	6	AC	8/1/56	53	N		Med	2.5	2	0	5	2.5	0	2.125	617	\$25,080	\$32,005,060
Midd	Fin	Allston Ave	S of Orchard	S of Orchard	74	6	AC	9/5/58	51	N		Med	2.5	2	0	5	2.5	0	2.125	618	\$12,210	\$32,017,270
Midd	Fin	Allston Ave	S of Orchard	S of Orchard	167	6	AC	6/1/63	46	N		Med	2.5	2	0	5	2.5	0	2.125	619	\$27,555	\$32,044,825
Midd	Fin	Arruda Terr	E of W Main Rd	E of W Main Rd	75	6	AC	8/1/1970	39	Y		Low	2.5	1	0	5	0	5	2.125	620	\$12,375	\$32,057,200
Midd	Fin	Beacon Terr	S of Beacon St	Beacon St	8	6	Cast iron	Feb-54	55	N		Med	2.5	2	0	5	2.5	0	2.125	621	\$1,320	\$32,058,520
Midd	Fin	Briarwood Ave	Renfrew Ave	E of Renfrew Av	134	6	AC	5/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	622	\$22,110	\$32,080,630
Midd	Fin	Briarwood Ave	E of Renfrew Ave	Allston Ave	170	6	AC	1/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	623	\$28,050	\$32,108,680
Midd	Fin	Briarwood Ave	E of Allston Ave	E of Allston Ave	10	6	Cast iron	1/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	624	\$1,650	\$32,110,330
Midd	Fin	Briarwood Ave	E of Allston Ave	Centre Ave	282	6	AC	1/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	625	\$46,530	\$32,156,860
Midd	Fin	Briarwood Ave	Centre Ave	E of Centre Ave	258	6	AC	9/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	626	\$42,570	\$32,199,430
Midd	Fin	Crest St	Tuckerman Ave	E of Tuckerman	20	6	CI - CL	7/1/1938	71	N		Low	2.5	3	0	5	0	0	2.125	627	\$3,300	\$32,202,730
Midd	Fin	Crest St	E of Tuckerman	E+N of Tuckerm	686	6	AC	7/1/1938	71	N		Low	2.5	3	0	5	0	0	2.125	628	\$113,190	\$32,315,920
Midd	Fin	Cross Country	S of East Main Rd	East Main Rd		6	AC	Jan-58	51	N		Med	2.5	2	0	5	2.5	0	2.125	629	\$0	\$32,315,920

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	East Main Rd	E of W Main Rd	E of Wood Rd	1102.33	6	Cl - CL	Sep-36	73	N		Low	2.5	3	0	5	0	0	2.125	630	\$181,884	\$32,497,805
Midd	Fin	Evergreen Ave	Linden St	Oak St	249	6	AC	8/1/1955	54	N		Med	2.5	2	0	5	2.5	0	2.125	631	\$41,085	\$32,538,890
Midd	Fin	Evergreen Ave	Oak St	E of Oak St	81	6	AC	8/1/1956	53	N		Med	2.5	2	0	5	2.5	0	2.125	632	\$13,365	\$32,552,255
Midd	Fin	Hoover Street	Tuckerman Ave	Walcott Ave	492	6	Cast Iron	Oct-39	70	N		Low	2.5	3	0	5	0	0	2.125	633	\$81,180	\$32,633,435
Midd	Fin	Lawrence Avenue/Nav	Chases Ln	S. of Chases Ln	49	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	634	\$8,085	\$32,641,520
Midd	Fin	Nicholson Crescent	W. of Boulevard	Boulevard	31	6	Cast Iron	Nov-57	52	N		Med	2.5	2	0	5	2.5	0	2.125	635	\$5,115	\$32,646,635
Midd	Fin	Oakwood Road	W. of Ridgewood	Ridgewood Rd	125	6	AC	Aug-53	56	N		Med	2.5	2	0	5	2.5	0	2.125	636	\$20,625	\$32,667,260
Midd	Fin	Orchard Avenue	Renfrew Ave	W. of Renfrew A	194	6	AC	Sep-50	59	N		Med	2.5	2	0	5	2.5	0	2.125	637	\$32,010	\$32,699,270
Midd	Fin	Orchard Avenue	Renfrew Ave	E. of Renfrew A	252	6	AC	Sep-50	59	N		Med	2.5	2	0	5	2.5	0	2.125	638	\$41,580	\$32,740,850
Midd	Fin	Orchard Avenue	Center Ave	Wolcott Ave	325	6	AC	Sep-50	59	N		Med	2.5	2	0	5	2.5	0	2.125	639	\$53,625	\$32,794,475
Midd	Fin	Orchard Avenue	W. of Renfrew	W. of Renfrew A	59	6	AC	May-52	57	N		Med	2.5	2	0	5	2.5	0	2.125	640	\$9,735	\$32,804,210
Midd	Fin	Orchard Avenue	W. of Renfrew	Ellery Ave	62	6	AC	May-53	56	N		Med	2.5	2	0	5	2.5	0	2.125	641	\$10,230	\$32,814,440
Midd	Fin	Orchard Avenue	E. of Renfrew Ave	E. of Renfrew A	81	6	AC	Aug-53	56	N		Med	2.5	2	0	5	2.5	0	2.125	642	\$13,365	\$32,827,805
Midd	Fin	Plymouth Dr	Continental Dr	Concord Dr	328	6	AC	Apr-82	27	Y		Low	2.5	1	0	5	0	5	2.125	643	\$54,120	\$32,881,925
Midd	Fin	Sherwood Road	North	North	150	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	644	\$24,750	\$32,906,675
Midd	Fin	Sherwood Road	North	North	206	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	645	\$33,990	\$32,940,665
Midd	Fin	Sherwood Road	North	North	120	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	646	\$19,800	\$32,960,465
Midd	Fin	Sherwood Road	Bliss Rd	North	285	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	647	\$47,025	\$33,007,490
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	192	6	Cast Iron	4/23/1953	56	N		Med	2.5	2	0	5	2.5	0	2.125	648	\$31,680	\$33,039,170
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	107	6	AC	10/1/1955	54	N		Med	2.5	2	0	5	2.5	0	2.125	649	\$17,655	\$33,056,825
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	52	6	AC	8/1/1957	52	N		Med	2.5	2	0	5	2.5	0	2.125	650	\$8,580	\$33,065,405
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	56	6	AC	7/1/1956	53	N		Med	2.5	2	0	5	2.5	0	2.125	651	\$9,240	\$33,074,645
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	705.75	6	Cl - CL	10/1/1937	72	N		Low	2.5	3	0	5	0	0	2.125	652	\$116,449	\$33,191,093
Midd	Fin	Tuckerman Ave	Hoover St	Wolcott Ave	2007	6	Cast Iron			N	8	Low	2.5	0	5	5	0	0	2.125	653	\$331,155	\$33,522,248
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	350	6	AC	10/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	654	\$57,750	\$33,579,998
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	10	6	Cast Iron	10/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	655	\$1,650	\$33,581,648
Midd	Fin	West Main Road	point a	north	253	6	AC	10/1/1952	57	N		Med	2.5	2	0	5	2.5	0	2.125	656	\$41,745	\$33,623,393
Midd	Fin	West Main Road	runs west side of	street by Evergre	900	24	cast iron	Jan-42	67	N	1	Med	0	3	2.5	5	2.5	0	2.125	657	\$202,500	\$33,825,893
New	Fin	Damon St	Gooseberry Rd		200	4	PVC			Y		Low	5	0	0	2	0	5	2.05	658	\$33,000	\$33,858,893
New	Fin	LeRoy Ave	Ochre Point Ave	Lawrence Ave	294.3	3	PVC	9/1/1981	28	N		Med	5	1	0	2	2.5	0	2.05	659	\$48,560	\$33,907,453
New	Fin	Adm Kalbfus Rd	Broadway		29	8	Cast Iron	1/1/1923	86	N		Med	0	4	0	5	2.5	0	2	660	\$4,785	\$33,912,238
New	Fin	Almy St	Bliss Rd	County Street	806	16	Cast iron	9/1/1939	70	N		High	0	3	0	5	5	0	2	661	\$161,200	\$34,073,438
New	Fin	Beach Ave	Cliff Ave	R I Ave South	483	8	AC	4/1/1947	62	N		High	0	3	0	5	5	0	2	662	\$79,695	\$34,153,133
New	Fin	Bellevue Ave	Narragansett Ave	Ruggles Ave	2690	12	Cast Iron	4/1/1924	85	N		Med	0	4	0	5	2.5	0	2	663	\$470,750	\$34,623,883
New	Fin	Bliss Mine Rd	Ellery Rd	Town Line	1340	12	Cast iron	8/1/1943	66	N		High	0	3	0	5	5	0	2	664	\$234,500	\$34,858,383
New	Fin	Bliss Rd	Almy St	Eustis Ave	239	16	Cast iron	8/1/1939	70	N		High	0	3	0	5	5	0	2	665	\$47,800	\$34,906,183
New	Fin	Bliss Rd	Fenner Ave	Town Line	515	12	Cast iron	5/1/1945	64	N		High	0	3	0	5	5	0	2	666	\$90,125	\$34,996,308
New	Fin	Chapel St	Memorial Blvd		155	8	Cast iron	4/1/1945	64	N		High	0	3	0	5	5	0	2	667	\$25,575	\$35,021,883
New	Fin	Chapel St	Memorial Blvd	Old Beach Rd	1023	8	AC	7/1/1945	64	N		High	0	3	0	5	5	0	2	668	\$168,795	\$35,190,678
New	Fin	Coggeshall Ave	Ruggles Ave	Bellevue Ave	4443	12	Cast iron	5/28/1909	100	N		Low	0	5	0	5	0	0	2	669	\$777,525	\$35,968,203
New	Fin	Congdon Ave	Gould St/Tilley Av	Van Zandt Ave	745	8	Cast Iron	7/1/1939	70	N		High	0	3	0	5	5	0	2	670	\$122,925	\$36,091,128
New	Fin	Cranston Ave	Kay St	Broadway	1145	12	Cast iron	7/1/1939	70	N		High	0	3	0	5	5	0	2	671	\$200,375	\$36,291,503
New	Fin	East St	Pope St	End	270	8	AC	1/2/1970	39	Y		High	0	1	0	5	5	5	2	672	\$44,550	\$36,336,053
New	Fin	Eastnor Rd Ext			20	8	AC	10/1/1967	42	Y		Med	0	2	0	5	2.5	5	2	673	\$3,300	\$36,339,353
New	Fin	Eastnor Rd Ext			130	8	AC	10/1/1967	42	Y		Med	0	2	0	5	2.5	5	2	674	\$21,450	\$36,360,803
New	Fin	Ellery Rd	Prairie Ave		42	16	Cast iron	10/1/1941	68	N		High	0	3	0	5	5	0	2	675	\$8,400	\$36,369,203
New	Fin	Ellery Rd	Station #1	E of Eustis Ave	1581	24	Cast iron			N	3	High	0	0	5	5	5	0	2	676	\$355,725	\$36,724,928
New	Fin	Ellery Rd	E of Eustis Ave	Prairie Ave	970	20	Cast Iron			N	3	High	0	0	5	5	5	0	2	677	\$194,000	\$36,918,928
New	Fin	Eustis Ave	Ellery Rd		26.5	18	Cast iron	9/1/1939	70	N		High	0	3	0	5	5	0	2	678	\$5,300	\$36,924,228
New	Fin	Franklin St	Spring St	Thames St	433	8	Cast iron	6/1/1946	63	N		High	0	3	0	5	5	0	2	679	\$71,445	\$36,995,673
New	Fin	Gould St	Broadway	Warner St	1201	8	Cast iron	7/1/1939	70	N		High	0	3	0	5	5	0	2	680	\$198,165	\$37,193,838
New	Fin	Howard Wharf	Thames St	Westerly	300	8	AC	3/1/1970	39	Y		High	0	1	0	5	5	5	2	681	\$49,500	\$37,243,338
New	Fin	Jurgens Rd	Kay Blvd	Bliss Mine Rd	402	8	AC	3/6/1939	70	N		High	0	3	0	5	5	0	2	682	\$66,330	\$37,309,668
New	Fin	Jurgens Rd	Bliss Mine Rd		36.25	8	AC	12/1/1943	66	N		High	0	3	0	5	5	0	2	683	\$5,981	\$37,315,649
New	Fin	Kay St	Eustis Ave	Holten Ave	484	8	Cast iron	8/17/1939	70	N		High	0	3	0	5	5	0	2	684	\$79,860	\$37,395,509
New	Fin	Kay St	Holten Ave	Kay Blvd	765	8	Cast iron	11/1/1945	64	N		High	0	3	0	5	5	0	2	685	\$126,225	\$37,521,734
New	Fin	Kingston Ave	Warner St	Wheatland Blvd	947	8	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	686	\$156,255	\$37,677,989
New	Fin	Ledge Rd North		Bellevue Ave	260	4	Cast iron			N		Low	5	0	0	5	0	0	2	687	\$42,900	\$37,720,889
New	Fin	Liberty St	Old Beach Rd	End	636	8	AC	9/1/1977	32	Y		High	0	1	0	5	5	5	2	688	\$104,940	\$37,825,829
New	Fin	Maple Ave	Hillside Ave	West Main Rd	2456	12	Cast iron	Jan-43	66	N		High	0	3	0	5	5	0	2	689	\$429,800	\$38,255,629
New	Fin	Market Sq	Thames St		500	8	AC	6/1/1971	38	Y		High	0	1	0	5	5	5	2	690	\$82,500	\$38,338,129
New	Fin	Mary St	Thames St		13	8	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	691	\$2,145	\$38,340,274
New	Fin	Mary St	Thames St	Touro St	1269	12	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	692	\$222,075	\$38,562,349

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Memorial Blvd	Gibbs Ave	Annandale Rd	885	20	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	693	\$177,000	\$38,739,349
New	Fin	Memorial Blvd	Bellevue Ave	Annandale Rd	1665	16	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	694	\$333,000	\$39,072,349
New	Fin	Memorial Blvd West	Spring St	Thames St	439.5	12	Cast Iron	1/1/1940	69	N		High	0	3	0	5	5	0	2	695	\$76,913	\$39,149,262
New	Fin	Memorial Blvd West	Thames St		23	8	AC	1/1/1973	36	Y		High	0	1	0	5	5	5	2	696	\$3,795	\$39,153,057
New	Fin	Newman Dr	Eastnor Rd Ext	Northerly	153	8	AC	10/1/1967	42	Y		Med	0	2	0	5	2.5	5	2	697	\$25,245	\$39,178,302
New	Fin	Ocean Ave		Coggeshall Ave	65	8	Cast iron	4/1/1898	106	N		Low	0	5	0	5	0	0	2	698	\$10,725	\$39,189,027
New	Fin	Old Fort Rd	Carroll Ave	S of Palmer St	572	6	Cast iron			N	1	Med	2.5	0	2.5	5	2.5	0	2	699	\$94,380	\$39,283,407
New	Fin	Pope St	Spring St	East St	387	8	AC	3/1/1970	39	Y		High	0	1	0	5	5	5	2	700	\$63,855	\$39,347,262
New	Fin	Prairie Ave	Kay St	Ellery Rd	326	16	Cast iron	9/1/1939	70	N		High	0	3	0	5	5	0	2	701	\$65,200	\$39,412,462
New	Fin	Prairie Ave	Ellery Rd	Champlin St	540	16	Cast iron	10/1/1941	68	N		High	0	3	0	5	5	0	2	702	\$108,000	\$39,520,462
New	Fin	Red Cross Ave	Memorial Blvd	Old Beach Rd	1434	8	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	703	\$236,610	\$39,757,072
New	Fin	Rhode Island Ave South	Memorial Blvd	Southerly	31.5	8	Cast Iron	3/1/1946	63	N		High	0	3	0	5	5	0	2	704	\$5,198	\$39,762,269
New	Fin	Rhode Island Ave South			217	8	AC	4/1/1947	62	N		High	0	3	0	5	5	0	2	705	\$35,805	\$39,798,074
New	Fin	Rolling Green	Adm Kalbfus Rd	Northerly	1205	8	AC	6/1/1969	40	Y		Med	0	2	0	5	2.5	5	2	706	\$198,825	\$39,996,899
New	Fin	Sharon Ct	Thames St	W to End	237	4	Ductile Iron			Y		Med	5	0	0	0	2.5	5	2	707	\$39,105	\$40,036,004
New	Fin	Sheilds St	Ruggles Ave	End	159	8	AC	6/2/1969	40	Y		Med	0	2	0	5	2.5	5	2	708	\$26,235	\$40,062,239
New	Fin	Third St	Cherry St	Cypress St	1629	8	Cast iron	4/1/1939	70	N		High	0	3	0	5	5	0	2	709	\$268,785	\$40,331,024
New	Fin	Touro St	Spring St	Southerly	537	8	Cast iron	10/1/1946	63	N		High	0	3	0	5	5	0	2	710	\$88,605	\$40,419,629
New	Fin	Van Zandt Ave	E of Congdon Ave	Tilley Ave	209	8	Cast iron	1/1/1939	70	N		High	0	3	0	5	5	0	2	711	\$34,485	\$40,454,114
New	Fin	Van Zandt Ave	Tilley Ave	Farewell St	1124.7	8	Cast iron	6/1/1930	79	N		High	0	3	0	5	5	0	2	712	\$185,576	\$40,639,690
New	Fin	Wilbur Ave	Bliss Rd	S of Brightman	263	8	AC	7/1/1977	32	Y		High	0	1	0	5	5	5	2	713	\$43,395	\$40,683,085
Midd	Fin	Acacia Rd	Bliss Mine Rd		1403	8	AC	Jan-61	48	Y		Med	0	2	0	5	2.5	5	2	714	\$231,495	\$40,914,580
Midd	Fin	Access Rd	West Main Rd	Admiralty Dr	1833	12	AC	Dec-69	40	Y		Med	0	2	0	5	2.5	5	2	715	\$320,775	\$41,235,355
Midd	Fin	Admiralty Dr	Access Rd	End	994	8	AC	Dec-69	40	Y		Med	0	2	0	5	2.5	5	2	716	\$164,010	\$41,399,365
Midd	Fin	Ames Plaza (off West)	gate	west straight		10	cast iron	Jan-68	41	Y		Med	0	2	0	5	2.5	5	2	717	\$0	\$41,399,365
Midd	Fin	Bailey Terr	Paul St	End	445	8	AC	8/1/1960	49	Y		Med	0	2	0	5	2.5	5	2	718	\$73,425	\$41,472,790
Midd	Fin	Balsam St	Paul St	S of Elmwood A	875	8	AC	7/1/1960	49	Y		Med	0	2	0	5	2.5	5	2	719	\$144,375	\$41,617,165
Midd	Fin	Balsam St	S of Elmwood Ave	Elmwood Ave	6	8	AC	7/1/1961	48	Y		Med	0	2	0	5	2.5	5	2	720	\$990	\$41,618,155
Midd	Fin	Bristol Rd	Woolsey Rd	End	257	8	AC	8/1/1955	54	Y		Med	0	2	0	5	2.5	5	2	721	\$42,405	\$41,660,560
Midd	Fin	Granada Terrace	Everett St	W. of Willow St	505	8	AC	Oct-62	47	Y		Med	0	2	0	5	2.5	5	2	722	\$83,325	\$41,743,885
Midd	Fin	Green End Ave	Valley Rd	E. of Valley Rd	147	12	AC	Oct-59	50	Y		Med	0	2	0	5	2.5	5	2	723	\$25,725	\$41,769,610
Midd	Fin	Green End Ave	Valley Rd		615	12	AC	Sep-69	40	Y		Med	0	2	0	5	2.5	5	2	724	\$107,625	\$41,877,235
Midd	Fin	Hart Avenue	West Main Rd	King Ave	590	6	AC			N	1	Med	2.5	0	2.5	5	2.5	0	2	725	\$97,350	\$41,974,585
Midd	Fin	Haymaker Road	Valley Road	W. of Valley Rd	394	8	AC	Jul-61	48	Y		Med	0	2	0	5	2.5	5	2	726	\$65,010	\$42,039,595
Midd	Fin	Maple Terrace	Maple Ave	End of Maple Te	411	8	AC	Sep-59	50	Y		Med	0	2	0	5	2.5	5	2	727	\$67,815	\$42,107,410
Midd	Fin	Maplewood Road	Rego Terrace	End of Maplewo	280	8	AC	Oct-63	46	Y		Med	0	2	0	5	2.5	5	2	728	\$46,200	\$42,153,610
Midd	Fin	Mixer Street	Maple Ave	S. of Maple Ave	22	8	Cast Iron	Mar-57	52	Y		Med	0	2	0	5	2.5	5	2	729	\$3,630	\$42,157,240
Midd	Fin	Mixer Street	S. of Maple Ave	S. of Maple Ave	275	8	AC	Mar-57	52	Y		Med	0	2	0	5	2.5	5	2	730	\$45,375	\$42,202,615
Midd	Fin	Mixer Street	S. of Maple Ave	S. of Maple Ave	195	8	AC	Jul-64	45	Y		Med	0	2	0	5	2.5	5	2	731	\$32,175	\$42,234,790
Midd	Fin	Mixer Street	S. of Maple Ave	S. of Maple Ave	98	8	AC	Jan-67	42	Y		Med	0	2	0	5	2.5	5	2	732	\$16,170	\$42,250,960
Midd	Fin	Oak Street	Evergreen Ave	N. of Evergreen	215	8	AC	Aug-55	54	Y		Med	0	2	0	5	2.5	5	2	733	\$35,475	\$42,286,435
Midd	Fin	Oak Street	N. of Evergreen	N. of Evergreen	71	8	AC	Apr-56	53	Y		Med	0	2	0	5	2.5	5	2	734	\$11,715	\$42,298,150
Midd	Fin	Oak Street	N. of Evergreen	N. of Evergreen	192	8	AC	Jun-56	53	Y		Med	0	2	0	5	2.5	5	2	735	\$31,680	\$42,329,830
Midd	Fin	Oakwood Road	Wood Rd	Wood Terrace	79	8	AC	Jun-62	47	Y		Med	0	2	0	5	2.5	5	2	736	\$13,035	\$42,342,865
Midd	Fin	Rego Lane	East Main Rd	N. of E. Main Rd	306.5	8	AC	9/21/1958	51	Y		Med	0	2	0	5	2.5	5	2	737	\$50,573	\$42,393,437
Midd	Fin	Rego Lane	N. of E. Main Rd	Sousa	52	8	AC	Nov-60	49	Y		Med	0	2	0	5	2.5	5	2	738	\$8,580	\$42,402,017
Midd	Fin	Renfrew Park	Ellery Rd	East	348	8	AC	Oct-41	68	Y		Low	0	3	0	5	0	5	2	739	\$57,420	\$42,459,437
Midd	Fin	Restmere Terrace	Miantonomi Ave	Blow Off	315	8	AC	Aug-63	46	Y		Med	0	2	0	5	2.5	5	2	740	\$51,975	\$42,511,412
Midd	Fin	Ridgewood Rd	Blow Off	N of Oakwood R	195	8	AC	Nov-61	48	Y		Med	0	2	0	5	2.5	5	2	741	\$32,175	\$42,543,587
Midd	Fin	Ridgewood Rd	Rockwood	N of Rockwood	38	8	AC	Nov-51	58	Y		Med	0	2	0	5	2.5	5	2	742	\$6,270	\$42,549,857
Midd	Fin	Ridgewood Rd	N of Rockwood	N of Rockwood	94	8	AC	Mar-52	57	Y		Med	0	2	0	5	2.5	5	2	743	\$15,510	\$42,565,367
Midd	Fin	Ridgewood Rd	N of Rockwood	N of Rockwood	61	8	AC	Apr-53	56	Y		Med	0	2	0	5	2.5	5	2	744	\$10,065	\$42,575,432
Midd	Fin	Ridgewood Rd	N of Oakwood Rd	N of Oakwood R	133.5	8	AC	Nov-61	48	Y		Med	0	2	0	5	2.5	5	2	745	\$22,028	\$42,597,460
Midd	Fin	Ridgewood Rd	N of Rockwood	N of Rockwood	169	8	AC	Jul-69	40	Y		Med	0	2	0	5	2.5	5	2	746	\$27,885	\$42,625,345
Midd	Fin	Rockwood Rd	E of W Main Rd	E of W Main Rd	48	8	Cast Iron	10/15/1951	58	Y		Med	0	2	0	5	2.5	5	2	747	\$7,920	\$42,633,265
Midd	Fin	Rockwood Rd	West Main Rd	E of W Main Rd	10.5	8	Cast Iron	May-57	52	Y		Med	0	2	0	5	2.5	5	2	748	\$1,733	\$42,634,997
Midd	Fin	Rockwood Rd	E of W Main Rd	Ridgewood Rd	314	8	AC	11/14/1951	58	Y		Med	0	2	0	5	2.5	5	2	749	\$51,810	\$42,686,807
Midd	Fin	Wolcott Ave	tee at Sunset Hill	tee at Hoover	60	8	AC	<1956	>48	N		Low	0	5	0	5	0	0	2	750	\$9,900	\$42,696,707
Midd	Fin	Wood Rd	north of Maplewo	north (point a)	221	8	AC	1/1/1961	48	Y		Med	0	2	0	5	2.5	5	2	751	\$36,465	\$42,733,172
Midd	Fin	Wood Rd	point a	north (point b)	443	8	AC	7/1/1961	48	Y		Med	0	2	0	5	2.5	5	2	752	\$73,095	\$42,806,267
Midd	Fin	Wood Terr	tee at Oakwood R	north	283	8	AC	6/1/1962	47	Y		Med	0	2	0	5	2.5	5	2	753	\$46,695	\$42,852,962
Midd	Fin	Wood Terr	north	north	221	8	AC	9/1/1962	47	Y		Med	0	2	0	5	2.5	5	2	754	\$36,465	\$42,889,427
Midd	Fin	Woolsey Rd	West Main Rd	E of W Main Rd	44.5	8	cast iron	6/1/1955	54	Y		Med	0	2	0	5	2.5	5	2	755	\$7,343	\$42,896,770

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe		Dead	Main	Locat.					Dead	Total	Pipe	Cost	Cum	
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	End (Y/N)	Break	Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est	
Midd	Fin	West Main Road	gate in Evergreen	north along east	18	1.5	Copper			N		Med	5	0	0	3	2.5	0	1.95	756	\$2,970	\$42,899,740
Ports	Fin	Galley Ln		North		6	AC			Y		Low	2.5	0	0	5	0	5	1.875	757	\$0	\$42,899,740
Ports	Fin	Mail Coach Road	extended S & E	Redwood Rd	1596	6	AC	Jan-55	54	N		Low	2.5	2	0	5	0	0	1.875	758	\$263,340	\$43,163,080
Ports	Fin	Redwood Rd	branch at Stage C	Harbor View Rd	973.5	6	AC	Jan-55	54	N		Low	2.5	2	0	5	0	0	1.875	759	\$160,628	\$43,323,707
Ports	Fin	Stage Coach Rd	Redwood Rd	Mailcoach Rd	1240	6	AC	Jan-56	53	N		Low	2.5	2	0	5	0	0	1.875	760	\$204,600	\$43,528,307
New	Fin	Ann St			57.68	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	761	\$9,517	\$43,537,824
New	Fin	Ann St			14.06	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	762	\$2,320	\$43,540,144
New	Fin	Bayside Ave	Van Zandt Ave	Sycamore	336	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	763	\$55,440	\$43,595,584
New	Fin	Berkeley Ave	Sylvan St	Annandale Rd	946	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	764	\$156,090	\$43,751,674
New	Fin	Binney St			172	6	AC	8/30/1954	55	N		Low	2.5	2	0	5	0	0	1.875	765	\$28,380	\$43,780,054
New	Fin	Binney St			166	6	AC	4/1/1963	46	N		Low	2.5	2	0	5	0	0	1.875	766	\$27,390	\$43,807,444
New	Fin	Binney St			100	6	AC	11/1/1964	45	N		Low	2.5	2	0	5	0	0	1.875	767	\$16,500	\$43,823,944
New	Fin	Braman St	Farewell St		292	6	Ductile Iron	9/1/1978	31	Y		High	2.5	1	0	0	5	5	1.875	768	\$48,180	\$43,872,124
New	Fin	Bull St	Spring St	Kay St	1125	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	769	\$185,625	\$44,057,749
New	Fin	Church St	Spring St		30	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	770	\$4,950	\$44,062,699
New	Fin	Clay St	Narragansett Ave	Parker Ave	845.77	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	771	\$139,552	\$44,202,251
New	Fin	Coddington St	Thames St		16	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	772	\$2,640	\$44,204,891
New	Fin	Dana St	Eustis Ave		17	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	773	\$2,805	\$44,207,696
New	Fin	Dearborn St	Thames St	Spring St	574.89	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	774	\$94,857	\$44,302,553
New	Fin	DeBlois St	Bellevue Ave			6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	775	\$0	\$44,302,553
New	Fin	Dennison St	Spring St		38	6	AC			N		High	2.5	0	0	5	5	0	1.875	776	\$6,270	\$44,308,823
New	Fin	Division St			46.71	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	777	\$7,707	\$44,316,530
New	Fin	Division St			44.71	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	778	\$7,377	\$44,323,907
New	Fin	Downing St	Bellevue Ave		36	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	779	\$5,940	\$44,329,847
New	Fin	Franklin St	Spring St		6	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	780	\$990	\$44,330,837
New	Fin	Friendship Pl	Gibbs Ave		20	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	781	\$3,300	\$44,334,137
New	Fin	Gardiner St	Gibbs Ave		23	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	782	\$3,795	\$44,337,932
New	Fin	Gibbs Ave	Broadway		50	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	783	\$8,250	\$44,346,182
New	Fin	Gibbs Ave	Bliss Rd		35	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	784	\$5,775	\$44,351,957
New	Fin	Gooseberry Rd	Carroll Ave		170	6	AC	11/1/1953	56	N		Low	2.5	2	0	5	0	0	1.875	785	\$28,050	\$44,380,007
New	Fin	Gooseberry Rd			120	6	AC	10/1/1961	48	N		Low	2.5	2	0	5	0	0	1.875	786	\$19,800	\$44,399,807
New	Fin	Gooseberry Rd		Binney St	138	6	AC	11/1/1964	45	N		Low	2.5	2	0	5	0	0	1.875	787	\$22,770	\$44,422,577
New	Fin	Hope St	Rhode Island Ave		20	6	AC			N		High	2.5	0	0	5	5	0	1.875	788	\$3,300	\$44,425,877
New	Fin	Hope St	Powell Ave		46	6	AC			N		High	2.5	0	0	5	5	0	1.875	789	\$7,590	\$44,433,467
New	Fin	Hunter Ave	Ellery Rd	Catherine St	1217	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	790	\$200,805	\$44,634,272
New	Fin	Jeffrey Rd	Carroll Ave		29.5	6	Cast Iron	3/1/1957	52	N		Low	2.5	2	0	5	0	0	1.875	791	\$4,868	\$44,639,140
New	Fin	Jeffrey Rd	Carroll Ave	Alpond Dr	578	6	AC	3/1/1957	52	N		Low	2.5	2	0	5	0	0	1.875	792	\$95,370	\$44,734,510
New	Fin	Jones Ave	King St	N of King St	40	6	Ductile Iron	9/1/1978	31	Y		High	2.5	1	0	0	5	5	1.875	793	\$6,600	\$44,741,110
New	Fin	Kay Blvd			456	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	794	\$75,240	\$44,816,350
New	Fin	Ledyard St	Broadway			6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	795	\$0	\$44,816,350
New	Fin	Lee Ave	Spring St		14	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	796	\$2,310	\$44,818,660
New	Fin	Lowndes St			240	6	AC			N		High	2.5	0	0	5	5	0	1.875	797	\$39,600	\$44,858,260
New	Fin	Mann Ave	Kay St	Broadway	1077.43	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	798	\$177,776	\$45,036,036
New	Fin	Marin St	Mt Vernon	Kay St	347.62	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	799	\$57,357	\$45,093,393
New	Fin	Marine Ave	Bellevue Ave	E of Bellevue Av	290	6	Cast Iron			Y		Low	2.5	0	0	5	0	5	1.875	800	\$47,850	\$45,141,243
New	Fin	Mt Vernon St		Mann	972.65	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	801	\$160,487	\$45,301,730
New	Fin	Parker Ave	Bellevue Ave	Annandale Rd	1628	12	AC	11/1/1971	38	N	1	High	0	1	2.5	5	5	0	1.875	802	\$284,900	\$45,586,630
New	Fin	Pelham St	Spring St		35	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	803	\$5,775	\$45,592,405
New	Fin	Perry St	Bellevue Ave	Spring St	920	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	804	\$151,800	\$45,744,205
New	Fin	Prospect Hill St	Bellevue Ave		15	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	805	\$2,475	\$45,746,680
New	Fin	Robinson St	Gibbs Ave		14	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	806	\$2,310	\$45,748,990
New	Fin	Russell Ave	Malbone Rd			6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	807	\$0	\$45,748,990
New	Fin	Second St	Battery St	Sycamore St	804	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	808	\$132,660	\$45,881,650
New	Fin	Thurston Ave	Broadway		14.3	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	809	\$2,360	\$45,884,010
New	Fin	Tilley Ave	Van Zandt Ave		29.7	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	810	\$4,901	\$45,888,910
New	Fin	Touro St	Southerly	Thames St	155	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	811	\$25,575	\$45,914,485
New	Fin	Vicksburg Pl	Warner St		10	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	812	\$1,650	\$45,916,135
New	Fin	Vicksburg Pl	Van Zandt Ave		2	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	813	\$330	\$45,916,465
New	Fin	West Marlborough St	Fire Station	Corridon St	132	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	814	\$21,780	\$45,938,245
Midd	Fin	Allston Ave	S of Briarwood	N of Purgatory	450	6	AC	3/1/81	28	N		Med	2.5	1	0	5	2.5	0	1.875	815	\$74,250	\$46,012,495
Midd	Fin	Beacon St	N of Beacon Terr	Beacon Terr	6	6	Cast Iron	Aug-77	32	N		Med	2.5	1	0	5	2.5	0	1.875	816	\$990	\$46,013,485
Midd	Fin	Briarwood Ave	Ellery Ave	E of Ellery Ave	105	6	AC	9/1/1956	53	N		Low	2.5	2	0	5	0	0	1.875	817	\$17,325	\$46,030,810
Midd	Fin	Briarwood Ave	E of Ellery Ave	E of Ellery Ave	29.5	6	AC	10/8/1956	53	N		Low	2.5	2	0	5	0	0	1.875	818	\$4,868	\$46,035,678

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break	Locat.	Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	Briarwood Ave	E of Ellery Ave	Renfrew Ave	181	6	AC	8/1/1956	53	N		Low	2.5	2	0	5	0	0	1.875	819	\$29,865	\$46,065,543
Midd	Fin	Briarwood Ave	E of Centre Ave	Wolcott Ave	47	6	AC	3/1/1951	58	N		Low	2.5	2	0	5	0	0	1.875	820	\$7,755	\$46,073,298
Midd	Fin	Crest St	E+N of Tuckerm	S of Purgatory R	300	6	AC	9/1/1952	57	N		Low	2.5	2	0	5	0	0	1.875	821	\$49,500	\$46,122,798
Midd	Fin	East Main Rd	E of Wood Rd	Across Road	45.17	6	Cast Iron	Jun-53	56	N		Low	2.5	2	0	5	0	0	1.875	822	\$7,453	\$46,130,251
Midd	Fin	East Main Rd	W of Rego	W of Brookdale	462	6	AC	Jun-53	56	N		Low	2.5	2	0	5	0	0	1.875	823	\$76,230	\$46,206,481
Midd	Fin	East Main Rd	W of Rego	Rego Rd	58	6	AC	10/21/1958	51	N		Low	2.5	2	0	5	0	0	1.875	824	\$9,570	\$46,216,051
Midd	Fin	East Main Rd	W of Brookdale	Brookdale Ave	293	6	AC	Apr-54	55	N		Low	2.5	2	0	5	0	0	1.875	825	\$48,345	\$46,264,396
Midd	Fin	East Main Rd	Brookdale Ave	Across Road	51.5	6	Cast Iron	Apr-54	55	N		Low	2.5	2	0	5	0	0	1.875	826	\$8,498	\$46,272,893
Midd	Fin	East Main Rd	E of Brookdale	E of Brookdale	46	6	AC	6/7/1956	53	N		Low	2.5	2	0	5	0	0	1.875	827	\$7,590	\$46,280,483
Midd	Fin	Gae St	Park Dr	Aquidneck Dr	469	6	AC	Apr-52	57	N		Low	2.5	2	0	5	0	0	1.875	828	\$77,344	\$46,357,827
Midd	Fin	Newport Avenue	E. of Aquidneck A	E. of Aquidneck	174	6	AC	Apr-52	57	N		Low	2.5	2	0	5	0	0	1.875	829	\$28,710	\$46,386,537
Midd	Fin	Newport Avenue	E. of Aquidneck A	E. of Aquidneck	81	6	AC	Oct-55	54	N		Low	2.5	2	0	5	0	0	1.875	830	\$13,365	\$46,399,902
Midd	Fin	Oakview Terrace	Forest Ave	W. of Forest Ave	344	6	AC			Y		Low	2.5	0	0	5	0	5	1.875	831	\$56,760	\$46,456,662
Midd	Fin	Oliphant Lane	West Main Rd	E. of West Main	32	6	Cast Iron	Sep-95	14	Y		Low	2.5	0	0	5	0	5	1.875	832	\$5,280	\$46,461,942
Midd	Fin	Orville Dr	Casey Dr	West of Casey D	57	6	AC	Feb-56	53	N		Low	2.5	2	0	5	0	0	1.875	833	\$9,405	\$46,471,347
Midd	Fin	Orville Dr	West of Casey Dr	East of Murphy	281	6	AC	Jun-56	53	N		Low	2.5	2	0	5	0	0	1.875	834	\$46,365	\$46,517,712
Midd	Fin	Orville Dr	East of Murphy Circle		39	6	AC	10/18/1956	53	N		Low	2.5	2	0	5	0	0	1.875	835	\$6,435	\$46,524,147
Midd	Fin	Orville Dr	East of Murphy Circle	Murphy Circle	385	6	AC	Sep-57	52	N		Low	2.5	2	0	5	0	0	1.875	836	\$63,525	\$46,587,672
Midd	Fin	Paradise Ct	Paradise Ave	Easterly		6	Cast Iron			Y		Low	2.5	0	0	5	0	5	1.875	837	\$0	\$46,587,672
Midd	Fin	Park Dr	E of Gae St	E of Gae St	235	6	AC	Aug-54	55	N		Low	2.5	2	0	5	0	0	1.875	838	\$38,693	\$46,626,365
Midd	Fin	Park Dr	E of Gae St	E of Gae St	40	6	AC	Apr-65	44	N		Low	2.5	2	0	5	0	0	1.875	839	\$6,600	\$46,632,965
Midd	Fin	Seascape Ave	Wolcott Ave	Roche Service	174	6	AC	Sep-50	59	N		Low	2.5	2	0	5	0	0	1.875	840	\$28,710	\$46,661,675
Midd	Fin	Seascape Ave	Roche Service	Mitchell Service	256	6	AC	Aug-52	57	N		Low	2.5	2	0	5	0	0	1.875	841	\$42,240	\$46,703,915
Midd	Fin	Seascape Ave	Renfrew Ave	Alves Service	175	6	AC	Jun-58	51	N		Low	2.5	2	0	5	0	0	1.875	842	\$28,875	\$46,732,790
Midd	Fin	Seascape Ave	Alves Service	Brennan Service	70	6	AC	Oct-65	44	N		Low	2.5	2	0	5	0	0	1.875	843	\$11,550	\$46,744,340
Midd	Fin	Seascape Ave	Brennan Service	Mitchell Service	205	6	AC	Feb-66	43	N		Low	2.5	2	0	5	0	0	1.875	844	\$33,825	\$46,778,165
Midd	Fin	Squantam Ct				6	AC			Y		Low	2.5	0	0	5	0	5	1.875	845	\$0	\$46,778,165
Midd	Fin	Tuckerman Ave	Wolcott Ave	S of Kane Rd	629	6	AC	5/1/1955	54	N		Low	2.5	2	0	5	0	0	1.875	846	\$103,785	\$46,881,950
Midd	Fin	Tuckerman Ave	N of Kane Rd	S of Ashurst Ave	194	6	AC	11/1/1951	58	N		Low	2.5	2	0	5	0	0	1.875	847	\$32,010	\$46,913,960
Midd	Fin	Tuckerman Ave	S of Ashurst Ave	N of Ashurst Ave	368	6	AC	3/2/1951	58	N		Low	2.5	2	0	5	0	0	1.875	848	\$60,720	\$46,974,680
Midd	Fin	Tuckerman Ave	S of Kane Rd	S of Kane Rd	13	6	AC	1/1/1967	42	N		Low	2.5	2	0	5	0	0	1.875	849	\$2,145	\$46,976,825
Midd	Fin	Tuckerman Ave	S of Kane Rd	N of Kane Rd	384	6	AC	4/1/1968	41	N		Low	2.5	2	0	5	0	0	1.875	850	\$63,360	\$47,040,185
Ports	Fin	Lawton's Valley Apts.	West Main Rd		824	8	AC	11/1/1963	46	Y		Low	0	2	0	5	0	5	1.75	851	\$135,960	\$47,176,145
Ports	Fin	Lawton's Valley Apts.	extended		170	8	AC	12/1/1969	40	Y		Low	0	2	0	5	0	5	1.75	852	\$28,050	\$47,204,195
Ports	Fin	Slate Lane	point		290	8	AC	10/1/1967	42	Y		Low	0	2	0	5	0	5	1.75	853	\$47,850	\$47,252,045
Ports	Fin	Union St	West Main Rd		48	12	Cast Iron	5/1/1957	52	Y		Low	0	2	0	5	0	5	1.75	854	\$8,400	\$47,260,445
New	Fin	Ann St			400.95	4	Ductile Iron	6/1/1999	10	N		High	5	0	0	0	5	0	1.75	855	\$66,157	\$47,326,601
New	Fin	Barbara St	Bliss Mine Rd	Kay Blvd	410	8	AC	4/18/1950	59	N		High	0	2	0	5	5	0	1.75	856	\$67,650	\$47,394,251
New	Fin	Barbara St			17	8	Cast Iron	8/5/1950	59	N		High	0	2	0	5	5	0	1.75	857	\$2,805	\$47,397,056
New	Fin	Bedlow Ave	Broadway	Malbone Rd	1841	12	AC	1/1/1965	44	N		High	0	2	0	5	5	0	1.75	858	\$322,175	\$47,719,231
New	Fin	Bliss Rd	Broadway	Gibbs Ave	530	16	Cast iron	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	859	\$106,000	\$47,825,231
New	Fin	Brewer St	Thames St	Spring St	404	4	Ductile Iron			N		High	5	0	0	0	5	0	1.75	860	\$66,660	\$47,891,891
New	Fin	Burnside Ave	Warner St	Wheatland Blvd	916	8	AC	7/1/1969	40	N		High	0	2	0	5	5	0	1.75	861	\$151,140	\$48,043,031
New	Fin	Bush St	Mann Ave	Ayrault St	286	4	Ductile Iron	4/1/1999	10	N		High	5	0	0	0	5	0	1.75	862	\$47,190	\$48,090,221
New	Fin	Carroll Ave	Harrison Ave	Ocean Ave	4225	10	Cast iron	8/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	863	\$739,375	\$48,829,596
New	Fin	Channing St	Malbone Rd	Hall Ave	899	8	AC	1/1/1960	49	N		High	0	2	0	5	5	0	1.75	864	\$148,335	\$48,977,931
New	Fin	Chapel St	Old Beach Rd		14.3	8	Cast Iron	8/1/1951	58	N		High	0	2	0	5	5	0	1.75	865	\$2,360	\$48,980,291
New	Fin	Charles St	N Baptist St	Coddington St	253	8	AC	8/1/1968	41	N		High	0	2	0	5	5	0	1.75	866	\$41,745	\$49,022,036
New	Fin	Chestnut St	Washington St	Third St	560	8	AC	6/1/1965	44	N		High	0	2	0	5	5	0	1.75	867	\$92,400	\$49,114,436
New	Fin	Coddington St	Charles St	Farewell St	280	8	AC	8/1/1968	41	N		High	0	2	0	5	5	0	1.75	868	\$46,200	\$49,160,636
New	Fin	Connell Hwy	Dyer St	Northerly	377	12	AC	9/1/1953	56	N		High	0	2	0	5	5	0	1.75	869	\$65,975	\$49,226,611
New	Fin	Connell Hwy	N of Motel 6	Maple Ave	715	12	AC	3/1/1955	54	N		High	0	2	0	5	5	0	1.75	870	\$125,125	\$49,351,736
New	Fin	Connell Hwy	Van Zandt Ave	Northerly	832	12	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	871	\$145,600	\$49,497,336
New	Fin	Connell Hwy		Bridge Crossing	560	12	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	872	\$98,000	\$49,595,336
New	Fin	Connell Hwy	Bridge Crossing		160	12	Cast Iron	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	873	\$28,000	\$49,623,336
New	Fin	Connell Hwy	Bridge Crossing	Dyer St	276	12	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	874	\$48,300	\$49,671,636
New	Fin	Connell Hwy	N of Rotary	Northerly	622	12	AC	7/1/1969	40	N		High	0	2	0	5	5	0	1.75	875	\$108,850	\$49,780,486
New	Fin	Damon St		End	52.25	4	Ductile Iron			Y		Low	5	0	0	0	0	5	1.75	876	\$8,621	\$49,789,107
New	Fin	Daniel St	Ellery Rd	Northerly	450	8	AC			Y		High	0	0	0	5	5	5	1.75	877	\$74,250	\$49,863,357
New	Fin	Dean Ave	Spring St	Thames St	637	8	AC	10/1/1962	47	N		High	0	2	0	5	5	0	1.75	878	\$105,105	\$49,968,462
New	Fin	Dearborn St	Thames St	Spring St	623	12	Cast iron	1/1/1967	42	N		High	0	2	0	5	5	0	1.75	879	\$109,025	\$50,077,487
New	Fin	DeBlois St	Chapel St	thru Housing	509	8	AC	7/1/1968	41	N		High	0	2	0	5	5	0	1.75	880	\$83,985	\$50,161,472
New	Fin	Dyre St	Connell Hwy		12	8	Cast Iron	8/1/1954	55	N		High	0	2	0	5	5	0	1.75	881	\$1,980	\$50,163,452

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Dyre St	Connell Hwy	E of RR tracks	123	8	AC	8/1/1954	55	N		High	0	2	0	5	5	0	1.75	882	\$20,295	\$50,183,747
New	Fin	Earl Ave	Morton Ave	Bateman Ave	870	8	AC	9/1/1979	30	Y		Med	0	1	0	5	2.5	5	1.75	883	\$143,550	\$50,327,297
New	Fin	Ella Ter	Ocean Ave	End	600	8	AC	6/1/1966	43	Y		Low	0	2	0	5	0	5	1.75	884	\$99,000	\$50,426,297
New	Fin	Fenner Ave	Bliss Rd	Vernon Ave	1150	8	AC	1/1/1945	64	N		Med	0	3	0	5	2.5	0	1.75	885	\$189,750	\$50,616,047
New	Fin	Friendship St	Broadway	Kay St	1667	8	AC	5/1/1958	51	N		High	0	2	0	5	5	0	1.75	886	\$275,055	\$50,891,102
New	Fin	Gibbs Ave	Bliss Rd	Ellery Rd	2175	16	Cast iron	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	887	\$435,000	\$51,326,102
New	Fin	Gibbs Ave	Ellery Rd		28	12		1/1/1966	43	N		High	0	2	0	5	5	0	1.75	888	\$4,900	\$51,331,002
New	Fin	Halidon Ave	Chastellux Ave	Harrison Ave	1309	12	Cast iron	5/1/1942	67	N		Med	0	3	0	5	2.5	0	1.75	889	\$229,075	\$51,560,077
New	Fin	Hall Ave	Van Zandt Ave	Warner St	905	8	AC	7/1/1963	46	N		High	0	2	0	5	5	0	1.75	890	\$149,325	\$51,709,402
New	Fin	Hall Ave	Van Zandt Ave	Sheffield Ave	771	8	AC	8/1/1963	46	N		High	0	2	0	5	5	0	1.75	891	\$127,215	\$51,836,617
New	Fin	Hammond St	Spring St	Thames St	756	8	AC	5/1/1965	44	N		High	0	2	0	5	5	0	1.75	892	\$124,740	\$51,961,357
New	Fin	Harrison Ln	Harrison Ave		175	8	AC	9/1/1952	57	Y		Low	0	2	0	5	0	5	1.75	893	\$28,875	\$51,990,232
New	Fin	Hazard Rd	Ocean Heights Ave	S of Ocean Hgts	622	8	AC	8/1/1969	40	Y		Low	0	2	0	5	0	5	1.75	894	\$102,630	\$52,092,862
New	Fin	Highland Pl	Hazard Rd	End	307	8	AC	8/1/1969	40	Y		Low	0	2	0	5	0	5	1.75	895	\$50,655	\$52,143,517
New	Fin	Hillside Ave	Bedlow Ave	S of Beacon St	2181	12	Cast iron	12/1/1940	69	N		Med	0	3	0	5	2.5	0	1.75	896	\$381,675	\$52,525,192
New	Fin	Hillside Ave	Bedlow Ave		20.5	8	Cast iron	1/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	897	\$3,383	\$52,528,575
New	Fin	Kay Blvd Ext			32	8	Cast iron	6/1/1951	58	N		High	0	2	0	5	5	0	1.75	898	\$5,280	\$52,533,855
New	Fin	Kay Blvd Ext			128	8	Cast iron	8/1/1952	57	N		High	0	2	0	5	5	0	1.75	899	\$21,120	\$52,554,975
New	Fin	Kay St	Prairie Ave	Powell Ave	141	16	AC	7/1/1969	40	N		High	0	2	0	5	5	0	1.75	900	\$28,200	\$52,583,175
New	Fin	Kay Ter			52	8	Cast iron			Y		High	0	0	0	5	5	5	1.75	901	\$8,580	\$52,591,755
New	Fin	Lincoln St	Rhode Island Ave	Cranston Ave	440.5	8	AC	6/1/1961	48	N		High	0	2	0	5	5	0	1.75	902	\$72,683	\$52,664,437
New	Fin	Long Wharf	Thames St	Washington St	1457	12	AC	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	903	\$254,975	\$52,919,412
New	Fin	Madeline Dr	Malbone Rd	Loop	1052	8	AC	4/1/1966	43	N		High	0	2	0	5	5	0	1.75	904	\$173,580	\$53,092,992
New	Fin	Malbone Rd	Adm Kalbfus Rd	S of Adm Kalbfu	302	12	AC	10/1/1975	34	Y		Med	0	1	0	5	2.5	5	1.75	905	\$52,850	\$53,145,842
New	Fin	Malbone Rd	Bedlow Ave	Warner St	2509	12	AC	1/1/1965	44	N		High	0	2	0	5	5	0	1.75	906	\$439,075	\$53,584,917
New	Fin	Malbone Rd	Warner St	Broadway	260	16	Cast iron	1/1/1965	44	N		High	0	2	0	5	5	0	1.75	907	\$52,000	\$53,636,917
New	Fin	Memorial Blvd West	Bellevue Ave	Spring St	1303	16	Cast iron	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	908	\$260,600	\$53,897,517
New	Fin	North Baptist St	Farewell St	Charles St	236	8	AC	8/1/1968	41	N		High	0	2	0	5	5	0	1.75	909	\$38,940	\$53,936,457
New	Fin	Ocean Ave	S of Winans Ave	S of Winans Ave	69	8	Cast iron	8/18/1913	96	N		Low	0	4	0	5	0	0	1.75	910	\$11,385	\$53,947,842
New	Fin	Ocean Ave	E of Green Bridge	S of Hazard Rd	1091	8	Cast iron	5/1/1915	94	N		Low	0	4	0	5	0	0	1.75	911	\$180,015	\$54,127,857
New	Fin	Ocean Ave	Carroll Ave	S of Hazard Rd	4223	8	Cast iron	5/1/1914	95	N		Low	0	4	0	5	0	0	1.75	912	\$696,795	\$54,824,652
New	Fin	Ocean Ave	Carroll Ave		39	8	Cast iron	10/2/1923	86	N		Low	0	4	0	5	0	0	1.75	913	\$6,435	\$54,831,087
New	Fin	Ochre Point Ave	Ruggles Ave	Narragansett Av	2594	12	Cast iron	3/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	914	\$453,950	\$55,285,037
New	Fin	Old Beach Rd	Chapel St	Bellevue Ave	662.5	12	Cast iron	10/1/1950	59	N		High	0	2	0	5	5	0	1.75	915	\$115,938	\$55,400,975
New	Fin	Old Beach Rd	Chapel St	Greenough Pl	453	12	Cast iron	9/1/1951	58	N		High	0	2	0	5	5	0	1.75	916	\$79,275	\$55,480,250
New	Fin	Park St	Gould St	W of Broadway	497.8	4	Ductile Iron			N		High	5	0	0	0	5	0	1.75	917	\$82,137	\$55,562,387
New	Fin	Pond Ave	Wheatland Blvd	Warner St	885	8	AC	6/1/1960	49	N		High	0	2	0	5	5	0	1.75	918	\$146,025	\$55,708,412
New	Fin	Pond Ave	Warner St		43	8	AC	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	919	\$7,095	\$55,715,507
New	Fin	Pope St	Thames St	Easterly	417	8	AC	8/1/1962	47	N		High	0	2	0	5	5	0	1.75	920	\$68,805	\$55,784,312
New	Fin	Powell Ave	Broadway		13	8	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	921	\$2,145	\$55,786,457
New	Fin	Powell Ave	Broadway	Kay St	1505	12	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	922	\$263,375	\$56,049,832
New	Fin	Rhode Island Ave	Broadway	Tyler St	330	8	AC	11/1/1961	48	N		High	0	2	0	5	5	0	1.75	923	\$54,450	\$56,104,282
New	Fin	Rhode Island Ave	Tyler St	Kay St	974	8	AC	7/1/1969	40	N		High	0	2	0	5	5	0	1.75	924	\$160,710	\$56,264,992
New	Fin	Rhode Island Ave South	Southerly	Merton Rd	91	8	AC	11/1/1955	54	N		High	0	2	0	5	5	0	1.75	925	\$15,015	\$56,280,007
New	Fin	Rhode Island Ave South		Merton Rd	6	8	AC	10/1/1964	45	N		High	0	2	0	5	5	0	1.75	926	\$990	\$56,280,997
New	Fin	Ruggles Ave	Carroll Ave	Easterly	157.2	8	Cast iron	9/23/1936	73	N		Med	0	3	0	5	2.5	0	1.75	927	\$25,938	\$56,306,935
New	Fin	Ruggles Ave	Easterly		48	8	Cast iron	10/20/1936	73	N		Med	0	3	0	5	2.5	0	1.75	928	\$7,920	\$56,314,855
New	Fin	Ruggles Ave	Easterly	Florence Ave	40	8	Cast iron	3/1/1938	71	N		Med	0	3	0	5	2.5	0	1.75	929	\$6,600	\$56,321,455
New	Fin	Ruggles Ave	Florence Ave	Coggeshall Ave	1502	8	Cast iron	1/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	930	\$247,830	\$56,569,285
New	Fin	Ruggles Ave	Bellevue Ave	Ochre Point Ave	2110	12	Cast iron	2/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	931	\$369,250	\$56,938,535
New	Fin	Second St	Bridge St	Goat Is Connect	358	8	AC			Y		High	0	0	0	5	5	5	1.75	932	\$59,070	\$56,997,605
New	Fin	Spring St	Broadway	Memorial Blvd V	2722	16	Cast iron	1/1/1967	42	N		High	0	2	0	5	5	0	1.75	933	\$544,400	\$57,542,005
New	Fin	Spring St	Memorial Blvd W		1889	12	AC	1/1/1967	42	N		High	0	2	0	5	5	0	1.75	934	\$330,575	\$57,872,580
New	Fin	Sycamore St	Third St	Washington St	612	12	Cast iron	9/1/1968	41	N		High	0	2	0	5	5	0	1.75	935	\$107,100	\$57,979,680
New	Fin	Thames St	Long Whf Mall	Touro St	71	12	Cast iron	11/1/1953	56	N		High	0	2	0	5	5	0	1.75	936	\$12,425	\$57,992,105
New	Fin	Third St	Sycamore St	Cypress St	340	12	Cast iron	8/1/1968	41	N		High	0	2	0	5	5	0	1.75	937	\$59,500	\$58,051,605
New	Fin	Thurston Ave	Smith Ave	Broadway	1161	8	AC	9/1/1959	50	N		High	0	2	0	5	5	0	1.75	938	\$191,565	\$58,243,170
New	Fin	Tilley Ave	Van Zandt Ave	Gould St	741	8	AC	6/1/1956	53	N		High	0	2	0	5	5	0	1.75	939	\$122,265	\$58,365,435
New	Fin	Toppa Blvd	Bliss Rd	Southerly	736	8	Cast iron	3/28/1951	58	N		High	0	2	0	5	5	0	1.75	940	\$121,440	\$58,486,875
New	Fin	Toppa Blvd			80	8	Cast iron	11/1/1951	58	N		High	0	2	0	5	5	0	1.75	941	\$13,200	\$58,500,075
New	Fin	Toppa Blvd			256	8	Cast iron	6/1/1953	56	N		High	0	2	0	5	5	0	1.75	942	\$42,240	\$58,542,315
New	Fin	Tyler St	Rhode Island Ave		28	8	AC	11/1/1961	48	N		High	0	2	0	5	5	0	1.75	943	\$4,620	\$58,546,935
New	Fin	Van Zandt Ave	Malbone Rd	Albro St	747	8	AC	9/14/1955	54	N		High	0	2	0	5	5	0	1.75	944	\$123,255	\$58,670,190

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Vernon Ave	Fenner Ave	W of Freeborn S	724	8	Cast iron	1/1/1946	63	N		Med	0	3	0	5	2.5	0	1.75	945	\$119,460	\$58,789,650
New	Fin	Ward Ave	Annandale Rd	Clay St	1157	8	AC	12/1/1969	40	N		High	0	2	0	5	5	0	1.75	946	\$190,905	\$58,980,555
New	Fin	Warner St	Malbone Rd	Warner Pl	1492	16	Cast iron	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	947	\$298,400	\$59,278,955
New	Fin	Warner St	Warner Pl	Kingston Ave	336	12	AC	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	948	\$58,800	\$59,337,755
New	Fin	Washington St	Washington St	Second St	368	8	AC	9/1/1968	41	N		High	0	2	0	5	5	0	1.75	949	\$60,720	\$59,398,475
New	Fin	Webster St	Ochre Point Ave	Bellevue Ave	2036	8	Cast iron	3/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	950	\$335,940	\$59,734,415
New	Fin	West Pelham St	Thames St	America's Cup A	132	8	AC			Y		High	0	0	0	5	5	5	1.75	951	\$21,780	\$59,756,195
New	Fin	West Pelham St	America's Cup A	Black Pearl Res	161	8	AC			Y		High	0	0	0	5	5	5	1.75	952	\$26,565	\$59,782,760
New	Fin	William St	Bellevue Ave	E of King St	463	8	AC	7/1/1958	51	N		High	0	2	0	5	5	0	1.75	953	\$76,395	\$59,859,155
Midd	Fin	Abe Meyer Ln	Purgatory Rd	End	487	8	AC	Jul-67	42	Y		Low	0	2	0	5	0	5	1.75	954	\$80,355	\$59,939,510
Midd	Fin	Airport Access Rd	Forest Ave	End		8	AC	Jan-67	42	Y		Low	0	2	0	5	0	5	1.75	955	\$0	\$59,939,510
Midd	Fin	Allston Ave	Orchard Ave	N of Orchard	200	8	AC	8/1/73	36	Y		Med	0	1	0	5	2.5	5	1.75	956	\$33,000	\$59,972,510
Midd	Fin	Allston Ave	N of Orchard	N of Orchard	200	8	AC	11/1/78	31	Y		Med	0	1	0	5	2.5	5	1.75	957	\$33,000	\$60,005,510
Midd	Fin	Ashurst Ave	N of Tuckerman	N of Tuckerman	188	8	AC	10/27/1952	57	Y		Low	0	2	0	5	0	5	1.75	958	\$31,020	\$60,036,530
Midd	Fin	Ashurst Ave	N of Tuckerman	Kent Rd	78	8	AC	3/28/1956	53	Y		Low	0	2	0	5	0	5	1.75	959	\$12,870	\$60,049,400
Midd	Fin	Beacon St	West Main Rd	S of W Main Rd	17	8	Cast Iron	Jan-43	66	N		Med	0	3	0	5	2.5	0	1.75	960	\$2,805	\$60,052,205
Midd	Fin	Beacon St	S of W Main Rd	S of W Main Rd	46	8	Cast Iron	Jan-31	78	N		Med	0	3	0	5	2.5	0	1.75	961	\$7,590	\$60,059,795
Midd	Fin	Beacon St	S of W Main Rd	S of Race St	550	8	Cast Iron	Mar-40	69	N		Med	0	3	0	5	2.5	0	1.75	962	\$90,750	\$60,150,545
Midd	Fin	Beacon St	S of Race St	S of Race St	8	8	Cast Iron	Nov-47	62	N		Med	0	3	0	5	2.5	0	1.75	963	\$1,320	\$60,151,865
Midd	Fin	Beacon St	S of Race St	Peace St	302	8	AC	Nov-47	62	N		Med	0	3	0	5	2.5	0	1.75	964	\$49,830	\$60,201,695
Midd	Fin	Beechland Pl	Green End Ave	End	606	8	AC	4/1/1981	28	Y		Med	0	1	0	5	2.5	5	1.75	965	\$99,990	\$60,301,685
Midd	Fin	Boulevard	Miantonomi Ave	Vernon Ave	720	12	Cast iron	Jan-43	66	N		Med	0	3	0	5	2.5	0	1.75	966	\$126,000	\$60,427,685
Midd	Fin	Brookdale Ave	N of E Main Rd	N of E Main Rd	279	8	AC	7/1/1971	38	Y		Med	0	1	0	5	2.5	5	1.75	967	\$46,035	\$60,473,720
Midd	Fin	Casey Dr	Chases Ln	N of Chases Ln	8	8	AC	12/1/1955	54	Y		Low	0	2	0	5	0	5	1.75	968	\$1,320	\$60,475,040
Midd	Fin	Casey Dr	N of Chases Ln	N of Orville Dr	674	8	AC	2/1/1956	53	Y		Low	0	2	0	5	0	5	1.75	969	\$111,210	\$60,586,250
Midd	Fin	Casey Dr	N of Orville Dr	N of Murphy Cir	155	8	AC	9/1/1956	53	Y		Low	0	2	0	5	0	5	1.75	970	\$25,575	\$60,611,825
Midd	Fin	Champlin Terr	Forest Ave	End	754	8	AC	11/1/1964	45	Y		Low	0	2	0	5	0	5	1.75	971	\$124,410	\$60,736,235
Midd	Fin	Chases Ln Rd	West Main Rd	W of W Main Rd	681	8	AC	11/20/1952	57	Y		Low	0	2	0	5	0	5	1.75	972	\$112,365	\$60,848,600
Midd	Fin	Chases Ln Rd	W of W Main Rd	Casey Dr	693	8	AC	12/1/1955	54	Y		Low	0	2	0	5	0	5	1.75	973	\$114,345	\$60,962,945
Midd	Fin	Chases Ln Rd	Casey Dr	N of Donald Dr	1500	8	AC	11/1/1960	49	Y		Low	0	2	0	5	0	5	1.75	974	\$247,500	\$61,210,445
Midd	Fin	Chases Ln Rd	N of Donald Dr	N of Donald Dr	85	8	AC	4/5/1961	48	Y		Low	0	2	0	5	0	5	1.75	975	\$14,025	\$61,224,470
Midd	Fin	Chases Ln Rd	N of Donald Dr	N of Donald Dr	100	8	AC	8/23/1961	48	Y		Low	0	2	0	5	0	5	1.75	976	\$16,500	\$61,240,970
Midd	Fin	Crescent St	Purgatory Rd	N of Purgatory R	20	8	AC	1/1/1971	38	Y		Med	0	1	0	5	2.5	5	1.75	977	\$3,300	\$61,244,270
Midd	Fin	East Bay Village	West Main Rd	West Main Rd	2556	8	AC	9/1/1971	38	Y		Med	0	1	0	5	2.5	5	1.75	978	\$421,740	\$61,666,010
Midd	Fin	East Bay Village	Brook Crossing		108	8	AC	9/1/1971	38	Y		Med	0	1	0	5	2.5	5	1.75	979	\$17,820	\$61,683,830
Midd	Fin	Evergreen Ave	West Main Rd	E of West main	98	8	Cast Iron	1/1/1932	77	N		Med	0	3	0	5	2.5	0	1.75	980	\$16,170	\$61,700,000
Midd	Fin	Evergreen Ave	West Main Rd	connect to 24	24	8	Cast Iron	1/1/1944	65	N		Med	0	3	0	5	2.5	0	1.75	981	\$3,960	\$61,703,960
Midd	Fin	Evergreen Ave	E of West main R	E of West main	6	8	Cast Iron	10/1/1936	73	N		Med	0	3	0	5	2.5	0	1.75	982	\$990	\$61,704,950
Midd	Fin	Fenner Ave North	Miantonomi Ave	Village Ln	493.33	8	Cast Iron	1/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	983	\$81,399	\$61,786,349
Midd	Fin	Fenner Ave North	Village Ln	Boulevard	414	8	Cast Iron	1/1/1941	68	N		Med	0	3	0	5	2.5	0	1.75	984	\$68,310	\$61,854,659
Midd	Fin	Fransisco Drive	Forest Ave	S. of Forest Ave	412	8	AC	Jul-62	47	Y		Low	0	2	0	5	0	5	1.75	985	\$67,980	\$61,922,639
Midd	Fin	Green End Ave	Bliss Main Rd	E. of Bliss Main	305	8	AC	Apr-81	28	Y		Med	0	1	0	5	2.5	5	1.75	986	\$50,325	\$61,972,964
Midd	Fin	Griffin Road	Wedgewood Rd	Smithfield Dr	222.5	12	AC	Mar-82	27	Y		Med	0	1	0	5	2.5	5	1.75	987	\$38,938	\$62,011,902
Midd	Fin	Longmeadow Avenue	Winthrop Dr	W. of Winthrop	458	8	AC	May-58	51	Y		Low	0	2	0	5	0	5	1.75	988	\$75,570	\$62,087,472
Midd	Fin	Longmeadow Avenue	Winthrop Dr	E. of Winthrop D	158	8	AC	Sep-63	46	Y		Low	0	2	0	5	0	5	1.75	989	\$26,070	\$62,113,542
Midd	Fin	Longmeadow Avenue	E. of Wintrop Dr	End of Longmea	733	8	AC	Jun-66	43	Y		Low	0	2	0	5	0	5	1.75	990	\$120,945	\$62,234,487
Midd	Fin	Miantonomi Ave.	Bliss Mine Rd	West Main Rd	1803	12	AC	Aug-43	66	N		Med	0	3	0	5	2.5	0	1.75	991	\$315,525	\$62,550,012
Midd	Fin	Nakomis Road	Squantum Dr	N. of Squantum	265	8	AC	Dec-62	47	Y		Low	0	2	0	5	0	5	1.75	992	\$43,725	\$62,593,737
Midd	Fin	Oliphant Lane	E. of West Main R	E. of West Main	195	8	AC	Aug-55	54	Y		Low	0	2	0	5	0	5	1.75	993	\$32,175	\$62,625,912
Midd	Fin	Paradise Ave	Increase	Gosling Service	1141.1	8	AC	Jun-55	54	Y		Low	0	2	0	5	0	5	1.75	994	\$188,282	\$62,814,193
Midd	Fin	Perry Village	West Main Rd	Easterly	44.5	8	Cast Iron	May-55	54	Y		Low	0	2	0	5	0	5	1.75	995	\$7,343	\$62,821,536
Midd	Fin	Phelps Rd	Boulevard	Miantonomi Ave	891	8	CI - CL	Oct-39	70	N		Med	0	3	0	5	2.5	0	1.75	996	\$147,015	\$62,968,551
Midd	Fin	Philips Ave	E. of Marshall Lar	Blow Off	160	8	AC	Nov-62	47	Y		Low	0	2	0	5	0	5	1.75	997	\$26,400	\$62,994,951
Midd	Fin	Pocono Rd	Squantum Dr	Blow Off	587	8	AC	Dec-62	47	Y		Low	0	2	0	5	0	5	1.75	998	\$96,855	\$63,091,806
Midd	Fin	Prospect Ave	Paradise Ave	Gate Valve	56	8	Cast Iron	Jun-55	54	Y		Low	0	2	0	5	0	5	1.75	999	\$9,240	\$63,101,046
Midd	Fin	Prospect Ave	Gate Valve	Blow Off	82	8	AC	Jun-55	54	Y		Low	0	2	0	5	0	5	1.75	1000	\$13,530	\$63,114,576
Midd	Fin	Reardon Dr	Aquidneck Ave	Westerly on N. R	718	8	AC	Apr-66	43	Y		Low	0	2	0	5	0	5	1.75	1001	\$118,470	\$63,233,046
Midd	Fin	Reardon Dr	Westerly on N. R	Connect Loop	1089	8	AC	Sep-66	43	Y		Low	0	2	0	5	0	5	1.75	1002	\$179,685	\$63,412,731
Midd	Fin	Road B	Pocahontas Dr	Dead end	153	8	AC	Oct-69	40	Y		Low	0	2	0	5	0	5	1.75	1003	\$25,245	\$63,437,976
Midd	Fin	Smithfield Dr	Haymaker Rd	S of Haymaker R	468	8	AC	7/1/1961	48	Y		Low	0	2	0	5	0	5	1.75	1004	\$77,220	\$63,515,196
Midd	Fin	Sullivan Terr	W of West Main R	W of West Main Rd		8	AC	5/1/1957	52	Y		Low	0	2	0	5	0	5	1.75	1005	\$0	\$63,515,196
Midd	Fin	Turner Rd	East Main Rd	S of East Main R	79	8	AC	Nov-67	42	Y		Low	0	2	0	5	0	5	1.75	1006	\$13,035	\$63,528,231
Midd	Fin	Turner Rd	S of East Main Rd	S of East Main R	138	8	AC	Oct-69	40	Y		Low	0	2	0	5	0	5	1.75	1007	\$22,770	\$63,551,001

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	Valley Rd	Green End Ave	South	1048	12	AC	8/1/1975	34	Y		Med	0	1	0	5	2.5	5	1.75	1008	\$183,400	\$63,734,401
Midd	Fin	Valley Rd	Aquidneck Ave	North	1552	12	AC	11/1/1974	35	Y		Med	0	1	0	5	2.5	5	1.75	1009	\$271,600	\$64,006,001
Midd	Fin	Village Lane	Phelps Rd	Fenner Ave	270.17	8	Cl - CL	Oct-39	70	N		Med	0	3	0	5	2.5	0	1.75	1010	\$44,578	\$64,050,579
Midd	Fin	West Main Road	Newport Line	north to just pas	1426	24	Cl - CL	Jan-43	66	N		Med	0	3	0	5	2.5	0	1.75	1011	\$320,850	\$64,371,429
Midd	Fin	West Main Road	gate on main near	north past Chases Lane		24	cast iron			N	5	Med	0	0	5	5	2.5	0	1.75	1012	\$0	\$64,371,429
Midd	Fin	Winthrop Dr	Valley Rd	Longmeadow A	713	8	AC	Jan-57	52	Y		Low	0	2	0	5	0	5	1.75	1013	\$117,645	\$64,489,074
Midd	Fin	Wolcott Ave	132.5' north	point before Car	132.5	8	AC	4/21/1952	57	Y		Low	0	2	0	5	0	5	1.75	1014	\$21,863	\$64,510,936
Midd	Fin	Wolcott Ave	point before Carr	Gunning Rd	298	8	AC	11/1/1951	58	Y		Low	0	2	0	5	0	5	1.75	1015	\$49,170	\$64,560,106
Midd	Fin	Wolcott Ave	Gunning Rd	gate at Reservo	435	8	cast iron	3/1/1951	58	Y		Low	0	2	0	5	0	5	1.75	1016	\$71,775	\$64,631,881
New	Fin	Adm Kalbfus Rd	RR Tracks	Rotary	609	8	AC	7/1/1979	30	N	1	Med	0	1	2.5	5	2.5	0	1.625	1017	\$100,485	\$64,732,366
New	Fin	Alpond Dr			21	6	AC	4/1/1970	39	N		Low	2.5	1	0	5	0	0	1.625	1018	\$3,465	\$64,735,831
New	Fin	Chastellux Ave	Harrison Ave		25	6	Cast Iron			N		Med	2.5	0	0	5	2.5	0	1.625	1019	\$4,125	\$64,739,956
New	Fin	Dyre St	E of RR tracks	Third St	560	8	Cast Iron			N	1	High	0	0	2.5	5	5	0	1.625	1020	\$92,400	\$64,832,356
New	Fin	Eastnor Rd	Roseneath Ave		36	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1021	\$5,940	\$64,838,296
New	Fin	Florence Ave		Hydrant	13.5	6	Ductile Iron	5/25/1989	20	Y		Med	2.5	1	0	0	2.5	5	1.625	1022	\$2,228	\$64,840,524
New	Fin	Halsey St	Van Zandt Ave		25	6	Cast Iron			N		Med	2.5	0	0	5	2.5	0	1.625	1023	\$4,125	\$64,844,649
New	Fin	Lawrence Ave	Shepard Ave		25	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1024	\$4,125	\$64,848,774
New	Fin	LeRoy Ave	Ochre Point Ave		32	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1025	\$5,280	\$64,854,054
New	Fin	Maple Ave	Connell Hwy	Leal Terr	720	12	Cast iron	Jan-43		N	1	High	0	0	2.5	5	5	0	1.625	1026	\$126,000	\$64,980,054
New	Fin	Marchant St	Potter St	Connection St	263	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1027	\$43,395	\$65,023,449
New	Fin	Marchant St	Harrison Ave	N of Harrison Av	31	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1028	\$5,115	\$65,028,564
New	Fin	Morton Ave	Earl Ave	Spring St	665	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1029	\$109,725	\$65,138,289
New	Fin	Morton Ave			176.95	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1030	\$29,197	\$65,167,485
New	Fin	Old Fort Rd	S of Palmer St	Norman Ave	104	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1031	\$17,160	\$65,184,645
New	Fin	Vernon Ave	Broadway			6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1032	\$0	\$65,184,645
New	Fin	Yale St	Pennacook St		38	6	Cast Iron			N		Med	2.5	0	0	5	2.5	0	1.625	1033	\$6,270	\$65,190,915
Midd	Fin	Berkeley Ave	Wyatt Rd	S of Wyatt Rd	3.5	6	AC	9/1/1970	39	N		Low	2.5	1	0	5	0	0	1.625	1034	\$578	\$65,191,493
Midd	Fin	Crest St	S of Purgatory Rd	S of Purgatory R	3	6	AC	1/1/1971	38	N		Low	2.5	1	0	5	0	0	1.625	1035	\$495	\$65,191,988
Midd	Fin	Ellery Ave	S of Briarwood	Purgatory Rd	320	6	AC	12/1/1981	28	N		Low	2.5	1	0	5	0	0	1.625	1036	\$52,800	\$65,244,788
Midd	Fin	Halsey St	King Road	Maple Ave	350	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1037	\$57,750	\$65,302,538
Midd	Fin	King Road	N. of Maple Ave	King Road N. of	1150	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1038	\$189,750	\$65,492,288
Midd	Fin	King Road	King Road N. of N	Halsey St	350	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1039	\$57,750	\$65,550,038
Midd	Fin	Maplewood Road	West Main Rd	E. of Maplewood	250	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1040	\$41,250	\$65,591,288
Midd	Fin	Tuckerman Ave	N of Kane Rd	N of Kane Rd	393	6	AC	9/1/1971	38	N		Low	2.5	1	0	5	0	0	1.625	1041	\$64,845	\$65,656,133
Midd	Fin	White Terrace	Wolcott Ave	Kane	614	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1042	\$101,310	\$65,757,443
New	Fin	Christie's Landing	Thames St	Westerly	121	8	PVC	5/1/1982	27	Y		High	0	1	0	2	5	5	1.55	1043	\$19,965	\$65,777,408
New	Fin	Adm Kalbfus Rd	Third St	Easterly	32	8	Cast Iron	10/1/1955	54	N		Med	0	2	0	5	2.5	0	1.5	1044	\$5,280	\$65,782,688
New	Fin	Adm Kalbfus Rd		Rolling Green	162	8	AC	10/1/1955	54	N		Med	0	2	0	5	2.5	0	1.5	1045	\$26,730	\$65,809,418
New	Fin	Adm Kalbfus Rd		RR Tracks	218	8	AC	9/1/1968	41	N		Med	0	2	0	5	2.5	0	1.5	1046	\$35,970	\$65,845,388
New	Fin	Atlantic Ave	Winans Ave		1119	8	AC	6/1/1978	31	Y		Low	0	1	0	5	0	5	1.5	1047	\$184,635	\$66,030,023
New	Fin	Atlantic St		Houston Ave	775	8	AC	12/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1048	\$127,875	\$66,157,898
New	Fin	Ayrault St	Greenough Pl	Catherine St	583	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1049	\$102,025	\$66,259,923
New	Fin	Ayrault St	Kay St	Greenough Pl	620	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1050	\$124,000	\$66,383,923
New	Fin	Barney St	Spring St	Mt Vernon St	539	8	AC	11/1/1976	33	N		High	0	1	0	5	5	0	1.5	1051	\$88,935	\$66,472,858
New	Fin	Battery St	Second St	Third St	226	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1052	\$37,290	\$66,510,148
New	Fin	Bayside Village	Dyre St	Third St	1038	8	AC	8/1/1972	37	N		High	0	1	0	5	5	0	1.5	1053	\$171,270	\$66,681,418
New	Fin	Bliss Rd	Eustis Ave	Fenner Ave	705	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1054	\$123,375	\$66,804,793
New	Fin	Bliss Rd	Gibbs Ave	Almy St	880	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1055	\$176,000	\$66,980,793
New	Fin	Brenton Rd	Harrison Ave	Beacon Hill Rd	1395	12	Cast iron	9/1/1935	74	N		Low	0	3	0	5	0	0	1.5	1056	\$244,125	\$67,224,918
New	Fin	Brinley St	Kay St		38	8	AC		34	N		High	0	1	0	5	5	0	1.5	1057	\$6,270	\$67,231,188
New	Fin	Brooks Ave	Broadway	Ledyard St	685	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1058	\$113,025	\$67,344,213
New	Fin	Castle Hill Ave	Ridge Rd	Commonwealth	134	8	Cast Iron	7/1/1938	71	N		Low	0	3	0	5	0	0	1.5	1059	\$22,110	\$67,366,323
New	Fin	Catherine St	Greenough Pl	Prairie Ave	1179	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1060	\$206,325	\$67,572,648
New	Fin	Champlin St	Prairie St	Rhode Island Av	282	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1061	\$56,400	\$67,629,048
New	Fin	Chastellux Ave	Wellington Ave	Harrison Ave	1603	8	AC	5/1/1963	46	N		Med	0	2	0	5	2.5	0	1.5	1062	\$264,495	\$67,893,543
New	Fin	Cliff Ave	Memorial Blvd	S of Merton Rd	655	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1063	\$108,075	\$68,001,618
New	Fin	Connection St	Marchant St	Roseneath Ave	675	8	AC	12/1/1962	47	N		Med	0	2	0	5	2.5	0	1.5	1064	\$111,375	\$68,112,993
New	Fin	Connell Hwy	Northerly	N end of Mall	405	12	AC	11/1/1973	36	N		High	0	1	0	5	5	0	1.5	1065	\$70,875	\$68,183,868
New	Fin	Connell Hwy	N end of Mall	opp One Stop	290	12	AC	7/1/1977	32	N		High	0	1	0	5	5	0	1.5	1066	\$50,750	\$68,234,618
New	Fin	Dana St	Eustis Ave		138	8	AC	6/1/1977	32	N		High	0	1	0	5	5	0	1.5	1067	\$22,770	\$68,257,388
New	Fin	Eastnor Rd	Carroll Ave	Roseneath Ave	958	8	AC	5/1/1965	44	N		Med	0	2	0	5	2.5	0	1.5	1068	\$158,070	\$68,415,458
New	Fin	Everett Pl	Francis St		33	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1069	\$5,445	\$68,420,903
New	Fin	Everett St	Francis St		38	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1070	\$6,270	\$68,427,173

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break	Locat.	Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Fair St	Thames St		20	8	Cast Iron	1/1/1979	30	N		High	0	1	0	5	5	0	1.5	1071	\$3,300	\$68,430,473
New	Fin	Fowler Ave	Bliss Rd	Broadway	556	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1072	\$91,740	\$68,522,213
New	Fin	Francis St	Rhode Island Ave	Ayrault St	566	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1073	\$113,200	\$68,635,413
New	Fin	Freebody St	East Bowery St	Memorial Blvd	918	8	Cast iron	11/1/1980	29	N		High	0	1	0	5	5	0	1.5	1074	\$151,470	\$68,786,883
New	Fin	Friends Dr	Bliss Mine Rd	Bliss Mine Rd	940	8	AC	5/1/1973	36	N		High	0	1	0	5	5	0	1.5	1075	\$155,100	\$68,941,983
New	Fin	Goat Island Causeway	Goat Island	Long Wharf	1700	12	Cast Iron/Ductile Iron			Y		Med	0	0	0	5	2.5	5	1.5	1076	\$297,500	\$69,239,483
New	Fin	Goat Island Causeway	Washington St	Goat Island	1700	8	VC/Ductile Iron			Y		Med	0	0	0	5	2.5	5	1.5	1077	\$280,500	\$69,519,983
New	Fin	Golden Hill St	Spring St	Thomas St	561	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1078	\$92,565	\$69,612,548
New	Fin	Greenough Pl	Old Beach Rd		28	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1079	\$4,900	\$69,617,448
New	Fin	Greenough Pl	Old Beach Rd	Ayrault St	1469	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1080	\$293,800	\$69,911,248
New	Fin	Halsey St	Garfield St	Van Zandt Ave	975	8	AC	2/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1081	\$160,875	\$70,072,123
New	Fin	Harrison Ave	Carroll Ave	Roseneath Ave	903	12	Cast Iron	8/1/1939	70	N		Low	0	3	0	5	0	0	1.5	1082	\$158,025	\$70,230,148
New	Fin	Harrison Ave	Ridge Rd	W of Ridge Rd	1169	12	Cast Iron	11/1/1930	79	N		Low	0	3	0	5	0	0	1.5	1083	\$204,575	\$70,434,723
New	Fin	Hazard Ave	Bellevue Ave	Coggeshall Ave	577	12	AC	11/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1084	\$100,975	\$70,535,698
New	Fin	Heath St	Callender St	Kingston Ave	262	8	AC	5/1/1972	37	N		High	0	1	0	5	5	0	1.5	1085	\$43,230	\$70,578,928
New	Fin	Heath St	Pond Ave	Kingston Ave	290	8	AC	7/1/1979	30	N		High	0	1	0	5	5	0	1.5	1086	\$47,850	\$70,626,778
New	Fin	Houston Ave	W Narragansett Ave	Connection St	589	8	AC	12/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1087	\$97,185	\$70,723,963
New	Fin	Houston Ave	Connection St	Eastnor Rd	342	8	AC	12/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1088	\$56,430	\$70,780,393
New	Fin	Kay St	Bellevue Ave	Cranston Ave	2405	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1089	\$481,000	\$71,261,393
New	Fin	Kerins Ter	Coggeshall Ave	Bateman Ave	511	8	AC	11/1/1965	44	N		Med	0	2	0	5	2.5	0	1.5	1090	\$84,315	\$71,345,708
New	Fin	Lawrence Ave	Shepard Ave		139	8	AC	6/1/1959	50	N		Med	0	2	0	5	2.5	0	1.5	1091	\$22,935	\$71,368,643
New	Fin	Ledyard St	Broadway	Bliss Rd	951	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1092	\$156,915	\$71,525,558
New	Fin	LeRoy Ave	Bellevue Ave	Ochre Point Ave	1974	8	AC	6/5/1959	50	N		Med	0	2	0	5	2.5	0	1.5	1093	\$325,710	\$71,851,268
New	Fin	Mann Ave	Kay St		43	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1094	\$7,095	\$71,858,363
New	Fin	Marchant St	S of Wellington Ave	Simmons St	66	8	AC	8/1/1965	44	N		Med	0	2	0	5	2.5	0	1.5	1095	\$10,890	\$71,869,253
New	Fin	Marsh St	Washington St	Third St	568	8	AC	5/1/1973	36	N		High	0	1	0	5	5	0	1.5	1096	\$93,720	\$71,962,973
New	Fin	Merton Rd	Cliff Ave	Annandale Rd	864	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1097	\$142,560	\$72,105,533
New	Fin	Ocean Ave	S of Winans Ave	Harrison Ave	2786	8	AC	5/1/1946	63	N		Low	0	3	0	5	0	0	1.5	1098	\$459,690	\$72,565,223
New	Fin	Ocean Ave	S of Winans Ave	S of Winans Ave	33	8	Cast Iron	5/1/1946	63	N		Low	0	3	0	5	0	0	1.5	1099	\$5,445	\$72,570,668
New	Fin	Ocean Ave	Carroll Ave	S of Jeffrey Rd	542	8	Cast Iron	9/1/1939	70	N		Low	0	3	0	5	0	0	1.5	1100	\$89,430	\$72,660,098
New	Fin	Peckham Ave	Russell Ave		13	8	AC	1/1/1980	29	N		High	0	1	0	5	5	0	1.5	1101	\$2,145	\$72,662,243
New	Fin	Pell St	Greenough Pl		41	8	AC	1/1/1970	39	N		High	0	1	0	5	5	0	1.5	1102	\$6,765	\$72,669,008
New	Fin	Pell St	Kay St		41	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1103	\$6,765	\$72,675,773
New	Fin	Prairie Ave	Champlin St	Catherine St	695	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1104	\$121,625	\$72,797,398
New	Fin	Rhode Island Ave	Kay St	Champlin St	783	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1105	\$137,025	\$72,934,423
New	Fin	Rhode Island Ave	Champlin St	Francis St	151	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1106	\$30,200	\$72,964,623
New	Fin	Rhode Island Ave	Francis St	Memorial Blvd	2821	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1107	\$493,675	\$73,458,298
New	Fin	Rhode Island Ave	Memorial Blvd		6	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1108	\$1,200	\$73,459,498
New	Fin	Robinson St	Gibbs Ave	Whitwell Ave	362	8	AC	7/1/1971	38	N		High	0	1	0	5	5	0	1.5	1109	\$59,730	\$73,519,228
New	Fin	Russell Ave	Malbone Rd	Peckham Ave	852	8	AC	9/1/1980	29	N		High	0	1	0	5	5	0	1.5	1110	\$140,580	\$73,659,808
New	Fin	Second St	Poplar St	Chestnut St	682	8	AC	7/1/1972	37	N		High	0	1	0	5	5	0	1.5	1111	\$112,530	\$73,772,338
New	Fin	Simmons St	Marchant St	Thames St	608	8	AC	8/1/1965	44	N		Med	0	2	0	5	2.5	0	1.5	1112	\$100,320	\$73,872,658
New	Fin	South Baptist St	Spring St	Thames St	549	8	AC	6/1/1976	33	N		High	0	1	0	5	5	0	1.5	1113	\$90,585	\$73,963,243
New	Fin	Southmayd St	Homer St	Halsey St	226	8	AC	2/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1114	\$37,290	\$74,000,533
New	Fin	Summer St	Broadway	Malbone Rd	604	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1115	\$99,660	\$74,100,193
New	Fin	Sylvan St	Parker Ave		35	8	AC	1/1/1971	38	N		High	0	1	0	5	5	0	1.5	1116	\$5,775	\$74,105,968
New	Fin	Thames St	Marlborough St	Long Whf Mail	330	12	AC	3/1/1970	39	N		High	0	1	0	5	5	0	1.5	1117	\$57,750	\$74,163,718
New	Fin	Thames St	Touro St	Mill St	1085	12	AC	7/1/1971	38	N		High	0	1	0	5	5	0	1.5	1118	\$189,875	\$74,353,593
New	Fin	Thames St	Mill St	Memorial Blvd E	929	12	AC	3/1/1974	35	N		High	0	1	0	5	5	0	1.5	1119	\$162,575	\$74,516,168
New	Fin	Third St	Marsh St	Bridge St	209	8	AC	6/1/1973	36	N		High	0	1	0	5	5	0	1.5	1120	\$34,485	\$74,550,653
New	Fin	Thomas St	Memorial Blvd W	Golden Hill St	233	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1121	\$38,445	\$74,589,098
New	Fin	Vicksburg Pl	Van Zandt Ave	Warner St	1386	8	AC	3/1/1970	39	N		High	0	1	0	5	5	0	1.5	1122	\$228,690	\$74,817,788
New	Fin	West Marlborough St	Thames St	Fire Station	328	8	AC	4/1/1970	39	N		High	0	1	0	5	5	0	1.5	1123	\$54,120	\$74,871,908
New	Fin	West St	Perry St	Pope St	457	8	AC	2/1/1970	39	N		High	0	1	0	5	5	0	1.5	1124	\$75,405	\$74,947,313
New	Fin	Whitwell Ave	Bliss Rd	Robinson St	750	8	AC	7/1/1978	31	N		High	0	1	0	5	5	0	1.5	1125	\$123,750	\$75,071,063
New	Fin	Wickham Rd	Hazard Rd	Brenton Rd	1357	12	AC	8/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1126	\$237,475	\$75,308,538
Midd	Fin	Algonquin Dr	Pocahontas Dr	Squantam Dr	1625	10	AC	Oct-69	40	N		Med	0	2	0	5	2.5	0	1.5	1127	\$284,375	\$75,592,913
Midd	Fin	Aquidneck Ave	East Main Rd	S of East Main Rd	921	12	AC	May-67	42	N		Med	0	2	0	5	2.5	0	1.5	1128	\$161,175	\$75,754,088
Midd	Fin	Aquidneck Ave	Aquidneck Dr	Reardon Dr	464	12	AC	4/1/1966	43	N		Med	0	2	0	5	2.5	0	1.5	1129	\$81,200	\$75,835,288
Midd	Fin	Aquidneck Ave	Reardon Dr	S of Reardon Dr	74	12	AC	May-67	42	N		Med	0	2	0	5	2.5	0	1.5	1130	\$12,950	\$75,848,238
Midd	Fin	Ashurst Ave	Kent Rd	N of Kent Rd	267	8	AC	4/1/1977	32	Y		Low	0	1	0	5	0	5	1.5	1131	\$44,055	\$75,892,293
Midd	Fin	Coggeshall Dr	Coggeshall Way	End	292	8	AC	9/1/1980	29	Y		Low	0	1	0	5	0	5	1.5	1132	\$48,180	\$75,940,473
Midd	Fin	Concord Dr	Continental Dr	W of Continental	1603.68	8	AC	Apr-82	27	Y		Low	0	1	0	5	0	5	1.5	1133	\$264,607	\$76,205,080

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	Continental Dr	Valley Rd	N of Green End	2508	8	AC	4/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1134	\$413,820	\$76,618,900
Midd	Fin	Cross Country	O'Neill Blvd	S of East Main R	663	10	AC	Jan-58	51	N		Med	0	2	0	5	2.5	0	1.5	1135	\$116,025	\$76,734,925
Midd	Fin	Draper St	Reservoir Rd	N of Reservoir R	45	8	AC	Sep-71	38	Y		Low	0	1	0	5	0	5	1.5	1136	\$7,425	\$76,742,350
Midd	Fin	East Main Rd	West Main Rd	E of W Main Rd	13.5	8	Cast Iron	Sep-35	74	N		Low	0	3	0	5	0	0	1.5	1137	\$2,228	\$76,744,578
Midd	Fin	Elmwood Ave	High Street	Balsam Street	180	8	AC	7/1/1961	48	N		Med	0	2	0	5	2.5	0	1.5	1138	\$29,700	\$76,774,278
Midd	Fin	Everett St	N of Boulevard	Granada Terr	197.5	8	AC	10/1/1962	47	N		Med	0	2	0	5	2.5	0	1.5	1139	\$32,588	\$76,806,865
Midd	Fin	Everett St	Granada Terr	Paul Ave	398	8	AC	6/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1140	\$65,670	\$76,872,535
Midd	Fin	Evergreen Ave	E of Oak St	Willow Ave	157	8	AC	8/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1141	\$25,905	\$76,898,440
Midd	Fin	Green End Ave	Valley Rd	W. of Valley Ro	499	12	AC	May-57	52	N		Med	0	2	0	5	2.5	0	1.5	1142	\$87,325	\$76,985,765
Midd	Fin	Green End Ave	Bailey's Brook	Bliss Mine Rd	1195.5	12	AC	May-57	52	N		Med	0	2	0	5	2.5	0	1.5	1143	\$209,213	\$77,194,978
Midd	Fin	Green End Ave	Miantonomi Ave.	N of Miantonom	157	12	AC	Jun-64	45	N		Med	0	2	0	5	2.5	0	1.5	1144	\$27,475	\$77,222,453
Midd	Fin	Green End Ave	N of Miantonomi	across bridge	29.5	12	Cast Iron	May-57	52	N		Med	0	2	0	5	2.5	0	1.5	1145	\$5,163	\$77,227,615
Midd	Fin	Hammarlund Way	Johnny Cake Hill	End of Hammarlund Way	10	AC	Mar-82	27	Y			Low	0	1	0	5	0	5	1.5	1146	\$0	\$77,227,615
Midd	Fin	High Street	Boulevard	N. of Boulevard	676	8	AC	Oct-59	50	N		Med	0	2	0	5	2.5	0	1.5	1147	\$111,540	\$77,339,155
Midd	Fin	High Street	N. of Boulevard	Paul St	495	8	AC	May-61	48	N		Med	0	2	0	5	2.5	0	1.5	1148	\$81,675	\$77,420,830
Midd	Fin	High Street	Paul St	Elmwood Ave	929.5	8	AC	Jul-61	48	N		Med	0	2	0	5	2.5	0	1.5	1149	\$153,368	\$77,574,198
Midd	Fin	Hillside Street	Reservoir Rd	N. of Reservoir R	43	8	AC	Sep-71	38	Y		Low	0	1	0	5	0	5	1.5	1150	\$7,095	\$77,581,293
Midd	Fin	Jean Street	N of Rogers	S of Road A	586	12	AC	Aug-71	38	Y		Low	0	1	0	5	0	5	1.5	1151	\$102,550	\$77,683,843
Midd	Fin	Jean Terrace	Roy Ave	S. of Roy Ave	508	8	AC	Jul-79	30	Y		Low	0	1	0	5	0	5	1.5	1152	\$83,820	\$77,767,663
Midd	Fin	Johnny Cake Hill	John Clarke Rd	Hammarlund Way		10	AC	Mar-82	27	Y		Low	0	1	0	5	0	5	1.5	1153	\$0	\$77,767,663
Midd	Fin	Maloney Lane	Walcott Ave	End of Maloney	500	8	AC	May-79	30	Y		Low	0	1	0	5	0	5	1.5	1154	\$82,500	\$77,850,163
Midd	Fin	Maplewood Road	E. of Ridgewood	Wood Rd	157	8	AC			Y		Med	0	0	0	5	2.5	5	1.5	1155	\$25,905	\$77,876,068
Midd	Fin	Miantonomi Ave.	Bliss Mine Rd	Green End Ave	1039	12	AC	Jun-64	45	N		Med	0	2	0	5	2.5	0	1.5	1156	\$181,825	\$78,057,893
Midd	Fin	Oliphant Lane	East Main Rd	Jepson Ln	3177	12	AC	Dec-75	34	Y		Low	0	1	0	5	0	5	1.5	1157	\$555,975	\$78,613,868
Midd	Fin	O'Neill Boulevard	West Main Rd	E. of West Main	1540	10	AC	Jan-58	51	N		Med	0	2	0	5	2.5	0	1.5	1158	\$269,500	\$78,883,368
Midd	Fin	O'Neill Boulevard	E. of West Main	Bailey's Brook	50	10	Cast Iron	Jun-60	49	N		Med	0	2	0	5	2.5	0	1.5	1159	\$8,750	\$78,892,118
Midd	Fin	O'Neill Boulevard	Bailey's Brook	Valley Road	1003	10	AC	Jun-60	49	N		Med	0	2	0	5	2.5	0	1.5	1160	\$175,525	\$79,067,643
Midd	Fin	Paradise Pump Station	Paradise Ave	Paradise PS Hy	478	8	AC	Jan-71	38	Y		Low	0	1	0	5	0	5	1.5	1161	\$78,870	\$79,146,513
Midd	Fin	Paul St	Willow Ave	Balsam St	238	8	AC	Jun-60	49	N		Med	0	2	0	5	2.5	0	1.5	1162	\$39,270	\$79,185,783
Midd	Fin	Paul St	Balsam St	Bailey Terrace	189	8	AC	Jul-60	49	N		Med	0	2	0	5	2.5	0	1.5	1163	\$31,185	\$79,216,968
Midd	Fin	Paul St	Bailey Terrace	High St	258	8	AC	May-61	48	N		Med	0	2	0	5	2.5	0	1.5	1164	\$42,570	\$79,259,538
Midd	Fin	Ridgewood Rd	Oakwood Rd	N. of Maplewood	431	8	AC	Jul-67	42	N		Med	0	2	0	5	2.5	0	1.5	1165	\$71,115	\$79,330,653
Midd	Fin	Road "A" off Jean Street	Jean St	W. of Jean St	265	12	AC	Aug-71	38	Y		Low	0	1	0	5	0	5	1.5	1166	\$46,375	\$79,377,028
Midd	Fin	Roger Lane	Jean St	West Main Rd	2284	12	AC	Aug-71	38	Y		Low	0	1	0	5	0	5	1.5	1167	\$399,700	\$79,776,728
Midd	Fin	Roseart Terrace	Jean Terrace	Dead end	220	8	AC	Jul-79	30	Y		Low	0	1	0	5	0	5	1.5	1168	\$36,300	\$79,813,028
Midd	Fin	Seascape Ave	W. of Newport Av	Reducer	265	8	AC	Dec-78	31	Y		Low	0	1	0	5	0	5	1.5	1169	\$43,725	\$79,856,753
Midd	Fin	Silva Lane	John Clarke Rd	End of Silva Lan	692.24	10	AC	Mar-82	27	Y		Low	0	1	0	5	0	5	1.5	1170	\$121,142	\$79,977,895
Midd	Fin	Toni Lynn Terr	Reservoir Rd	Wayside Ave	463	8	AC	5/1/1974	35	Y		Low	0	1	0	5	0	5	1.5	1171	\$76,395	\$80,054,290
Midd	Fin	Tuckerman Ave	Purgatory Rd	Hoover St	1357	8	Cast Iron			N	2	Low	0	0	5	5	0	0	1.5	1172	\$223,905	\$80,278,195
Midd	Fin	Turner Rd	S of East Main Rd	S of East Main R	200	8	AC	Jul-78	31	Y		Low	0	1	0	5	0	5	1.5	1173	\$33,000	\$80,311,195
Midd	Fin	Valley Rd	High School	south toward W	1205	12	AC	6/1/1961	48	N		Med	0	2	0	5	2.5	0	1.5	1174	\$210,875	\$80,522,070
Midd	Fin	Valley Rd		51' past Wedge	208	12	AC	11/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1175	\$36,400	\$80,558,470
Midd	Fin	Valley Rd	end of Valley	across W Main	42	8	Cast Iron	5/22/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1176	\$6,930	\$80,565,400
Midd	Fin	Valley Rd	hyd M-87 O'Neil E	High School	230	12	AC	7/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1177	\$40,250	\$80,605,650
Midd	Fin	Valley Rd	main Green End	north to branch	234	12	AC	4/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1178	\$40,950	\$80,646,600
Midd	Fin	Valley Rd	branch at Contine	Winthrop Dr	588	12	AC	5/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1179	\$102,900	\$80,749,500
Midd	Fin	Valley Rd North	12" x 8" tee	off road to tee	115					Y		Med	0	0	0	5	2.5	5	1.5	1180	\$18,975	\$80,768,475
Midd	Fin	Vanicek Ave	West Main Rd	West	560	8	AC	4/1/1971	38	Y		Low	0	1	0	5	0	5	1.5	1181	\$92,400	\$80,860,875
Midd	Fin	Wedgewood Rd	Griffin Rd	south	130	8	AC	3/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1182	\$21,450	\$80,882,325
Midd	Fin	Wedgewood Rd	Griffin Rd	north around be	705.62	12	AC	3/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1183	\$123,484	\$81,005,808
Midd	Fin	West Main Road	NWW Plant	Raytheon Plant	2670	12	Cast Iron	12/1/1959	50	N		Med	0	2	0	5	2.5	0	1.5	1184	\$467,250	\$81,473,058
Midd	Fin	William Drive	Wedgewood valve	south to valve	412.33	12	AC	3/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1185	\$72,158	\$81,545,216
Midd	Fin	William Drive	Wedgewood valve	north to hydrant	553.16	12	AC	3/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1186	\$96,803	\$81,642,019
Midd	Fin	Willow Ave	Elmwood Ave	N of Paul St	708	8	AC	8/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1187	\$116,820	\$81,758,839
Midd	Fin	Willow Ave	N of Paul St	Paul St	418	8	AC	5/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1188	\$68,970	\$81,827,809
Midd	Fin	Willow Ave	Paul St	southerly	39	8	AC	5/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1189	\$6,435	\$81,834,244
Midd	Fin	Willow Ave	S of Paul St	Granada Terr	166.5	8	AC	10/1/1962	47	N		Med	0	2	0	5	2.5	0	1.5	1190	\$27,475	\$81,861,716
Midd	Fin	Wolcott Ave	tee at Hoover	tee at White Ter	374	8	AC	7/1/1940	69	N		Low	0	3	0	5	0	0	1.5	1191	\$61,710	\$81,923,426
Midd	Fin	Wolcott Ave	tee at Wolcott Ter	south to Donan	68	8	AC	4/1/1948	61	N		Low	0	3	0	5	0	0	1.5	1192	\$11,220	\$81,934,646
Midd	Fin	Wood Rd	6" main on East N	north of Maplew	620	8	AC	8/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1193	\$102,300	\$82,036,946
Midd	Fin	Woolsey Rd	Bristol Rd	Buck Rd	262	8	AC			Y		Med	0	0	0	5	2.5	5	1.5	1194	\$43,230	\$82,080,176
Midd	Fin	Woolsey Rd	Ludlow Rd	Bristol Rd	276	8	AC			Y		Med	0	0	0	5	2.5	5	1.5	1195	\$45,540	\$82,125,716
New	Fin	Bridge St			193	6	Ductile Iron	9/1/1978	31	N		High	2.5	1	0	0	5	0	1.375	1196	\$31,845	\$82,157,561

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Age	(years)	End (Y/N)	Break	Locat.	Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Commonwealth Ave	Castle Hill Ave	Mary Jane Ln	633	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1197	\$104,445	\$82,262,006
New	Fin	Connection St Ext	Roseneath Ave	Westerly	186	6	Ductile Iron			Y		Med	2.5	0	0	0	2.5	5	1.375	1198	\$30,690	\$82,292,696
New	Fin	Conrad Ct	Roseneath Ave	End	185	6	Ductile Iron			Y		Med	2.5	0	0	0	2.5	5	1.375	1199	\$30,525	\$82,323,221
New	Fin	Covell St	Farewell St	Edward St	252	6	Ductile Iron	9/1/1978	31	N		High	2.5	1	0	0	5	0	1.375	1200	\$41,580	\$82,364,801
New	Fin	Gillies Ct	Roseneath Ave	End	155	6	Ductile Iron			Y		Med	2.5	0	0	0	2.5	5	1.375	1201	\$25,575	\$82,390,376
New	Fin	West Narragansett Ave	Thames St	Roseneath Ave	1300	20	Cast iron			N	1	Med	0	0	2.5	5	2.5	0	1.375	1202	\$260,000	\$82,650,376
New	Fin	Young St			20	6	Ductile Iron	4/1/1981	28	N		High	2.5	1	0	0	5	0	1.375	1203	\$3,300	\$82,653,676
Midd	Fin	Aquidneck Dr	Gae St	E of Gae St		6	AC			N		Low	2.5	0	0	5	0	0	1.375	1204	\$0	\$82,653,676
Midd	Fin	Compton View Dr			342.74	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1205	\$56,552	\$82,710,228
Midd	Fin	Elmwood Ave	fire service		162	6	Ductile Iron	6/1/1995	14	Y		Med	2.5	0	0	0	2.5	5	1.375	1206	\$26,730	\$82,736,958
Midd	Fin	Esplanade	S of Tuckerman		1162.6	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1207	\$191,829	\$82,928,787
Midd	Fin	Forest Ave	West Main Rd	E West Main Rd	30	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1208	\$4,950	\$82,933,737
Midd	Fin	Paquin Place	6" Transite Pipe	Meter Pit	55.33	6	Ductile Iron	Dec-90	19	Y		Med	2.5	0	0	0	2.5	5	1.375	1209	\$9,129	\$82,942,867
Midd	Fin	Renfrew Ave	Newport Ave	Briarwood Ave	1175	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1210	\$193,875	\$83,136,742
Midd	Fin	Renfrew Ave	Seascape Ave	N. of Reservoir	259	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1211	\$42,735	\$83,179,477
Midd	Fin	Sunset Hill Rd	W of Kane Ave	Wolcott Ave		6	AC			N		Low	2.5	0	0	5	0	0	1.375	1212	\$0	\$83,179,477
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	38.5	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1213	\$6,353	\$83,185,829
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	Purgatory Rd		6	AC			N		Low	2.5	0	0	5	0	0	1.375	1214	\$0	\$83,185,829
Midd	Fin	Valley Rd North	12" x 8" tee	past hyd M-238	49	6	Ductile Iron			Y		Med	2.5	0	0	0	2.5	5	1.375	1215	\$8,085	\$83,193,914
Midd	Fin	Wolcott Terrace	Wolcott Ave	E of Wolcott	72	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1216	\$11,880	\$83,205,794
Midd	Fin	Wolcott Terrace	E of Wolcott	White Terr	767	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1217	\$126,555	\$83,332,349
Midd	Fin	West Main Road	gate at Forest Ave	north now 22' from east side	24		cast iron			N	1	Med	0	0	2.5	5	2.5	0	1.375	1218	\$0	\$83,332,349
Midd	Fin	West Main Road	16" CI at Reservo	Beyond Union St	24		AC			N	1	Med	0	0	2.5	5	2.5	0	1.375	1219	\$0	\$83,332,349
Midd	Fin	Wolcott Terrace	tee at Wolcott Ave	tee	72	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1220	\$11,880	\$83,344,229
Midd	Fin	Wolcott Terrace	tee	tee at White Ter	767	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1221	\$126,555	\$83,470,784
Midd	Fin	Browns Ln	West Main Rd	W of E Main Rd	750	10	PVC	May-82	27	Y		Med	0	1	0	2	2.5	5	1.3	1222	\$131,278	\$83,602,062
Midd	Fin	Green End Ave	Miantonomi Ave.	S. of Miantonom	215.75	8	PVC	Mar-82	27	Y		Med	0	1	0	2	2.5	5	1.3	1223	\$35,599	\$83,637,661
Tiv/Ports	Raw	Raw Water	submarine		5285	20	Cast iron		52	N		Low	0	2	0	5	0	0	1.25	1224	\$1,057,000	\$84,694,661
Tiv	Raw	Raw Water	Nonquit PS	Sakonnet River	5233	20	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1225	\$1,046,600	\$85,741,261
Ports	Fin	Goulart Ln	East Main Rd	Goulart Ln Stdp	650	12	Cast Iron	Nov-67	42	N		Low	0	2	0	5	0	0	1.25	1226	\$113,750	\$85,855,011
Ports	Fin	Mail Coach Road	West Main Rd		19.5	8	AC	3/1/1955	54	N		Low	0	2	0	5	0	0	1.25	1227	\$3,218	\$85,858,229
Ports	Fin	Mail Coach Road	extended		1109	8	AC	Jan-55	54	N		Low	0	2	0	5	0	0	1.25	1228	\$182,985	\$86,041,214
Ports	Raw	Raw Water	Lawton Valley PS	Lawton Valley V	950	16	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1229	\$190,000	\$86,231,214
Ports	Raw	Raw Water	Lawton Valley PS	Lawton Valley V	220	20	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1230	\$44,000	\$86,275,214
Ports	Raw	Raw Water	Sakonnet River	St. Mary's	8237	20	Cast iron		52	N		Low	0	2	0	5	0	0	1.25	1231	\$1,647,400	\$87,922,614
Ports	Fin	Redwood Rd	West Main Rd	branch at Stage	249.5	8	AC	3/1/1955	54	N		Low	0	2	0	5	0	0	1.25	1232	\$41,168	\$87,963,781
New	Fin	Adm Kalbfus Rd	Girard Ave	Hillside Ave	1024	12	AC		33	N		Med	0	1	0	5	2.5	0	1.25	1233	\$179,200	\$88,142,981
New	Fin	Broadway	Cranston Ave	Newport Ave	900	10	Cast Iron			N		High	0	0	0	5	5	0	1.25	1234	\$157,500	\$88,300,481
New	Fin	Broadway	Powell Ave	Malbone Rd	550	8	Cast Iron			N		High	0	0	0	5	5	0	1.25	1235	\$90,750	\$88,391,231
New	Fin	Broadway	Malbone Rd	Adm Kalbfus Rd	2990	12	Cast Iron			N		High	0	0	0	5	5	0	1.25	1236	\$523,250	\$88,914,481
New	Fin	Broadway	Equality Park Pl	Cranston Ave	367.3	12	Cast Iron			N		High	0	0	0	5	5	0	1.25	1237	\$64,278	\$88,978,759
New	Fin	Chartier Cir			1760	8	AC	8/1/1959	50	N		Low	0	2	0	5	0	0	1.25	1238	\$290,400	\$89,269,159
New	Fin	Connell Hwy	Van Zandt Ave		3	8	Cast Iron			N		High	0	0	0	5	5	0	1.25	1239	\$495	\$89,269,654
New	Fin	Corridon St		Marlborough St	448	8	AC			N		High	0	0	0	5	5	0	1.25	1240	\$73,920	\$89,343,574
New	Fin	Cypress St/Washington	Van Zandt Ave	Third St	1031	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1241	\$180,425	\$89,523,999
New	Fin	Doris Ter	Winans Ave	Chartier Cir	354	8	AC	8/1/1959	50	N		Low	0	2	0	5	0	0	1.25	1242	\$58,410	\$89,582,409
New	Fin	Ellery Rd	Prairie Ave		41	16	Cast iron			N		High	0	0	0	5	5	0	1.25	1243	\$8,200	\$89,590,609
New	Fin	Evert St	Malbone Rd	Hall Ave	911	8	AC	5/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1244	\$150,315	\$89,740,924
New	Fin	Everett St	N of Kay St	S of Kay St	84	8	AC			N		High	0	0	0	5	5	0	1.25	1245	\$13,860	\$89,754,784
New	Fin	Farewell St	Broadway	Warner St	1372	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1246	\$240,100	\$89,994,884
New	Fin	Farewell St	Van Zandt Ave	Poplar St	1856	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1247	\$324,800	\$90,319,684
New	Fin	Franklin St	Spring St		26	8	Cast iron			N		High	0	0	0	5	5	0	1.25	1248	\$4,290	\$90,323,974
New	Fin	Garfield St	Malbone Rd	Homer St	1000	8	AC	5/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1249	\$165,000	\$90,488,974
New	Fin	Girard Ave			175	8	AC	5/1/1957	52	N		Low	0	2	0	5	0	0	1.25	1250	\$28,875	\$90,517,849
New	Fin	Girard Ave	Leal Terr	S of Leal Terrac	864	8	AC	6/1/1966	43	N		Low	0	2	0	5	0	0	1.25	1251	\$142,560	\$90,660,409
New	Fin	Harrington St	Thames St	Kirwin's 5th Wa	364	8	AC			N		High	0	0	0	5	5	0	1.25	1252	\$60,060	\$90,720,469
New	Fin	Hazard Rd	Wickham Rd	Ocean Heights A	891	12	AC	8/1/1969	40	N		Low	0	2	0	5	0	0	1.25	1253	\$155,925	\$90,876,394
New	Fin	Homer St	Garfield St	Van Zandt Ave	1013	8	AC	10/1/1976	33	N		Med	0	1	0	5	2.5	0	1.25	1254	\$167,145	\$91,043,539
New	Fin	Hunter Ave	Ellery Rd		49	8	Cast Iron			N		High	0	0	0	5	5	0	1.25	1255	\$8,085	\$91,051,624
New	Fin	Janet Ter	Castle Hill Ave	Chartier Cir	350	8	AC	1/1/1960	49	N		Low	0	2	0	5	0	0	1.25	1256	\$57,750	\$91,109,374
New	Fin	Jurgens Rd	Kay Blvd		54	8	Cast Iron			N		High	0	0	0	5	5	0	1.25	1257	\$8,910	\$91,118,284
New	Fin	Kay Blvd Ext	Kay		97	8	Cast iron			N		High	0	0	0	5	5	0	1.25	1258	\$16,005	\$91,134,289
New	Fin	Kay Blvd Ext		Ellery Rd	661	8	AC			N		High	0	0	0	5	5	0	1.25	1259	\$109,065	\$91,243,354

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Kay St	Powell Ave	Friendship St	170	8	AC			N		High	0	0	0	5	5	0	1.25	1260	\$28,050	\$91,271,404
New	Fin	Lawrence Ave	Ruggles Ave	Shepard Ave	780	8	AC	11/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1261	\$128,700	\$91,400,104
New	Fin	Lawrence Ave		LeRoy Ave	688	8	AC	11/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1262	\$113,520	\$91,513,624
New	Fin	Maple Ave	Hillside Ave	Leal Terr	1727	12	Cast iron	Jan-43		N		High	0	0	0	5	5	0	1.25	1263	\$302,225	\$91,815,849
New	Fin	Marchant St	N of Harrison Ave	S of Eastnor Rd	180	8	AC	8/1/1975	34	N		Med	0	1	0	5	2.5	0	1.25	1264	\$29,700	\$91,845,549
New	Fin	Marchant St	Eastnor Rd	Atlantic St	140	8	AC	7/1/1975	34	N		Med	0	1	0	5	2.5	0	1.25	1265	\$23,100	\$91,868,649
New	Fin	Marlborough St	Broadway	Thames St	950	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1266	\$166,250	\$92,034,899
New	Fin	Mary Jane Ln	Commonwealth Ave	Chartier Cir	554	8	AC	8/1/1959	50	N		Low	0	2	0	5	0	0	1.25	1267	\$91,410	\$92,126,309
New	Fin	McCormick Rd	Ruggles Ave	Loop	1495	8	AC	5/1/1959	50	N		Low	0	2	0	5	0	0	1.25	1268	\$246,675	\$92,372,984
New	Fin	Memorial Blvd	Eustis Ave	Gibbs Ave	486	20	Cast iron			N		High	0	0	0	5	5	0	1.25	1269	\$97,200	\$92,470,184
New	Fin	Narragansett Ave	Annandale Rd	Bellevue Ave	1647	20	Cast iron			N		High	0	0	0	5	5	0	1.25	1270	\$329,400	\$92,799,584
New	Fin	Narragansett Ave	Bellevue Ave	Thames St	1668	20	Cast iron			N		High	0	0	0	5	5	0	1.25	1271	\$333,600	\$93,133,184
New	Fin	Ocean Ave	Harrison Ave	Prices Cove Rd	2383	8	AC	3/1/1966	43	N		Low	0	2	0	5	0	0	1.25	1272	\$393,195	\$93,526,379
New	Fin	Ocean Heights Ave	Hazard Ave	Southerly	844	12	AC	9/1/1969	40	N		Low	0	2	0	5	0	0	1.25	1273	\$147,700	\$93,674,079
New	Fin	Pelham St	Thames St		49	8	AC			N		High	0	0	0	5	5	0	1.25	1274	\$8,085	\$93,682,164
New	Fin	Poplar St*	Farewell St	Third St	926	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1275	\$162,050	\$93,844,214
New	Fin	Poplar St*	Third St	Washington St	570	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1276	\$99,750	\$93,943,964
New	Fin	Prescott Hall Rd	Garfield St	Van Zandt Ave	1067	8	AC	5/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1277	\$176,055	\$94,120,019
New	Fin	Shields St	Ruggles Ave	Northerly	379	8	AC	8/1/1968	41				0	2	0	5	0	0	1.25	1278	\$62,535	\$94,182,554
New	Fin	Smith Ave	Thurston Ave	Bedlow Ave	240	8	AC			N		High	0	0	0	5	5	0	1.25	1279	\$39,600	\$94,222,154
New	Fin	Summer St	Broadway		14	8	Cast iron			N		High	0	0	0	5	5	0	1.25	1280	\$2,310	\$94,224,464
New	Fin	Van Zandt Ave	Albro St	Hall Ave	175	8	Cast iron			N		High	0	0	0	5	5	0	1.25	1281	\$28,875	\$94,253,339
New	Fin	Van Zandt Ave	Third St	Second St	225	8	AC			N		High	0	0	0	5	5	0	1.25	1282	\$37,125	\$94,290,464
New	Fin	Vernon Ave	W of Freeborn St	Broadway	551	8	AC	9/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1283	\$90,915	\$94,381,379
New	Fin	Warner St	Kingston Ave	Farewell St	1115	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1284	\$195,125	\$94,576,504
New	Fin	Washington Square	Farewell St	Thames St	600	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1285	\$105,000	\$94,681,504
New	Fin	Washington St	Long Wharf	Sycamore St	3715	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1286	\$650,125	\$95,331,629
New	Fin	Washington St	Cypress St	Npt Bridge Appr	170	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1287	\$29,750	\$95,361,379
New	Fin	Webster St	Bellevue Ave	Thames St	1610	12	AC	6/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1288	\$281,750	\$95,643,129
New	Fin	Winans Ave	Doris Ter	Easterly	130	8	AC	7/1/1966	43	N		Low	0	2	0	5	0	0	1.25	1289	\$21,450	\$95,664,579
Midd/Ports	Fin	East Main Rd	Aquidneck Ave	Goulart Ln	8747	12	AC	Nov-67	42	N		Low	0	2	0	5	0	0	1.25	1290	\$1,530,725	\$97,195,304
Midd	Fin	Aquidneck Ave	Reservoir Rd	Ocean View Dr	1437	12	AC	Aug-75	34	N		Med	0	1	0	5	2.5	0	1.25	1291	\$251,475	\$97,446,779
Midd	Fin	Aquidneck Ave	Reservoir Rd	E. on Aquidneck Ave		12	AC	Mar-82	27	N		Med	0	1	0	5	2.5	0	1.25	1292	\$0	\$97,446,779
Midd	Fin	Aquidneck Dr	Jude St	Gae St		8	AC	Apr-52	57	N		Low	0	2	0	5	0	0	1.25	1293	\$0	\$97,446,779
Midd	Fin	Aquidneck Dr	E of Gae St	E of Gae St	195	8	AC	Aug-54	55	N		Low	0	2	0	5	0	0	1.25	1294	\$32,175	\$97,478,954
Midd	Fin	Aquidneck Dr	E of Gae St	E of Gae St	39	8	AC	Sep-65	44	N		Low	0	2	0	5	0	0	1.25	1295	\$6,435	\$97,485,389
Midd	Fin	Aquidneck Dr	E of Gae St	Aquidneck Ave	73	8	AC	Apr-66	43	N		Low	0	2	0	5	0	0	1.25	1296	\$12,045	\$97,497,434
Midd	Fin	Beacon St	Peace St	N of Beacon Ter	174	8	AC	Aug-77	32	N		Med	0	1	0	5	2.5	0	1.25	1297	\$28,710	\$97,526,144
Midd	Fin	Briarwood Ave	Aquidneck Ave	E of Aquidneck	69	8	AC	1/1/1967	42	N		Low	0	2	0	5	0	0	1.25	1298	\$11,385	\$97,537,529
Midd	Fin	Briarwood Ave	E of Aquidneck Ave	Ellery Ave	565	8	AC	12/1/1968	41	N		Low	0	2	0	5	0	0	1.25	1299	\$93,225	\$97,630,754
Midd	Fin	Browns Ln	Pocahontas Dr	Squantam Dr	680	10	AC	Sep-69	40	N		Low	0	2	0	5	0	0	1.25	1300	\$119,000	\$97,749,754
Midd	Fin	Cross Country	Park Dr	East Main Rd	433	8	Cast Iron	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1301	\$71,445	\$97,821,199
Midd	Fin	East Main Rd	Forest Ave	E of Forest Ave	390	12	AC	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1302	\$68,250	\$97,889,449
Midd	Fin	East Main Rd	Forest Ave	W of Forest Ave	260	8	Cl - CL	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1303	\$42,900	\$97,932,349
Midd	Fin	East Main Rd	Forest Ave	E of Forest Ave	100	8	Cl - CL	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1304	\$16,500	\$97,948,849
Midd	Fin	East Main Rd	E of Forest Ave	E of Forest Ave	192	8	AC	Mar-55	54	N		Low	0	2	0	5	0	0	1.25	1305	\$31,680	\$97,980,529
Midd	Fin	East Main Rd	E of Forest Ave	Aquidneck Ave	357.5	8	AC	Jun-55	54	N		Low	0	2	0	5	0	0	1.25	1306	\$58,988	\$98,039,516
Midd	Fin	Ellery Ave	S of Newport Ave	S of Newport Ave	301	8	AC	7/7/1953	56	N		Low	0	2	0	5	0	0	1.25	1307	\$49,665	\$98,089,181
Midd	Fin	Ellery Ave	S of Newport Ave	Orchard Ave	300	8	AC	5/1/1953	56	N		Low	0	2	0	5	0	0	1.25	1308	\$49,500	\$98,138,681
Midd	Fin	Ellery Ave	Newport Ave	S of Newport Ave	79.5	8	AC	2/1/1966	43	N		Low	0	2	0	5	0	0	1.25	1309	\$13,118	\$98,151,799
Midd	Fin	Fenner Ave	Miantonomi Ave	Vernon Ave	698	8	AC	1/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1310	\$115,170	\$98,266,969
Midd	Fin	Forest Ave	West of Francisc	West of Francis	6.5	8	AC	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1311	\$1,073	\$98,268,041
Midd	Fin	Forest Ave	West of Francisc	East Main Rd	3302	12	AC	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1312	\$577,850	\$98,845,891
Midd	Fin	Forest Ave	West Main Rd	E of Wilson Rd	690	12	AC	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1313	\$120,750	\$98,966,641
Midd	Fin	Forest Ave	E of Wilson Rd	FAPS	136	12	Cast Iron	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1314	\$23,800	\$98,990,441
Midd	Fin	Forest Ave	FAPS	S of Forest Ave	31	10	Cast Iron	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1315	\$5,425	\$98,995,866
Midd	Fin	Forest Ave	S of Forest Ave	Existing Main	25	10	AC	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1316	\$4,375	\$99,000,241
Midd	Fin	Forest Ave	Existing Main	10-inch Cl	80	8	Cast Iron	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1317	\$13,200	\$99,013,441
Midd	Fin	Greene Ln	JH Dwyer Dr	West Main Rd	1709	12	Cast iron			Y		Low	0	0	0	5	0	5	1.25	1318	\$299,075	\$99,312,516
Midd	Fin	High Street	O'Neil Boulevard	Elmwood Ave	746	8	AC	Jul-73	36	N		Med	0	1	0	5	2.5	0	1.25	1319	\$123,090	\$99,435,606
Midd	Fin	Jean Street	Philips Ave	S. of Roy Ave	566	8	AC	Nov-62	47	N		Low	0	2	0	5	0	0	1.25	1320	\$93,390	\$99,528,996
Midd	Fin	Jude St	Park Dr	Aquidneck Dr		8	AC	Apr-52	57	N		Low	0	2	0	5	0	0	1.25	1321	\$0	\$99,528,996
Midd	Fin	Marshall Lane	West Main Rd	W. of West Mai	44	8	Cast Iron	Aug-54	55	N		Low	0	2	0	5	0	0	1.25	1322	\$7,260	\$99,536,256

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break	Locat.	Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	Marshall Lane	W. of West Main	Roy Ave	1160	8	AC	Aug-54	55	N		Low	0	2	0	5	0	0	1.25	1323	\$191,400	\$99,727,656
Midd	Fin	Namquid Drive	Pocono Rd	W. of Pocono R	871	8	AC	Dec-62	47	N		Low	0	2	0	5	0	0	1.25	1324	\$143,715	\$99,871,371
Midd	Fin	Namquid Drive	W. of Pocono Rd	Aspinet Road	870	8	AC	May-64	45	N		Low	0	2	0	5	0	0	1.25	1325	\$143,550	\$100,014,921
Midd	Fin	Newport Avenue	E. of Aquidneck A	E. of Aquidneck	237	8	AC	Jun-64	45	N		Low	0	2	0	5	0	0	1.25	1326	\$39,105	\$100,054,026
Midd	Fin	Newport Avenue	Renfrew Ave	E. of Renfrew A	327	8	AC	Oct-69	40	N		Low	0	2	0	5	0	0	1.25	1327	\$53,955	\$100,107,981
Midd	Fin	North Island Drive			540	8		Jul-02	7	Y		Low	0	0	0	5	0	5	1.25	1328	\$89,100	\$100,197,081
Midd	Fin	Osage Dr	Pocahontas Dr	Pocahontas Dr	912	8	AC	Sep-69	40	N		Low	0	2	0	5	0	0	1.25	1329	\$150,480	\$100,347,561
Midd	Raw	Paradise Ave	Paradise PS	Station 1 WTP	2232	16	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1330	\$446,400	\$100,793,961
Midd	Fin	Park Dr	E of Gae St	Jude St		8	AC	Apr-52	57	N		Low	0	2	0	5	0	0	1.25	1331	\$0	\$100,793,961
Midd	Fin	Park Dr	E of Gae St	E of Gae St	5	8	AC	Sep-53	56	N		Low	0	2	0	5	0	0	1.25	1332	\$743	\$100,794,704
Midd	Fin	Park Dr	E of Gae St	Aquidneck Ave	89	8	AC	Apr-67	42	N		Low	0	2	0	5	0	0	1.25	1333	\$14,685	\$100,809,389
Midd	Fin	Philips Ave	Ruth St	E. of Marshall L	856	8	AC	Jan-56	53	N		Low	0	2	0	5	0	0	1.25	1334	\$141,240	\$100,950,629
Midd	Fin	Philips Ave	Ruth St	Gate Valve	53	8	AC	Jul-61	48	N		Low	0	2	0	5	0	0	1.25	1335	\$8,745	\$100,959,374
Midd	Fin	Philips Ave	Gate Valve	Jean St	275	8	AC	Nov-62	47	N		Low	0	2	0	5	0	0	1.25	1336	\$45,375	\$101,004,749
Midd	Fin	Pocahontas Rd	Osage Rd	10" gate valve	814	10	AC	Oct-69	40	N		Low	0	2	0	5	0	0	1.25	1337	\$142,450	\$101,147,199
Midd	Fin	Pocahontas Rd	Browns Ln	Osage Rd (north	704	10	AC	Oct-69	40	N		Low	0	2	0	5	0	0	1.25	1338	\$123,200	\$101,270,399
Midd	Raw	Reservoir Rd	Paradise PS	Station 1 WTP	5596	16	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1339	\$1,119,200	\$102,389,599
Midd	Fin	Reservoir Rd	Gate at Standpipe	Reducer	150	18	Cast Iron	Jan-65	44	N		Low	0	2	0	5	0	0	1.25	1340	\$30,000	\$102,419,599
Midd	Fin	Reservoir Rd	Reducer	W. of Walcott A	815	20	Cast Iron	Jan-65	44	N		Low	0	2	0	5	0	0	1.25	1341	\$163,000	\$102,582,599
Midd	Fin	Roy Ave	Ruth St	W. of Marshall L	680	8	AC	Jan-56	53	N		Low	0	2	0	5	0	0	1.25	1342	\$112,200	\$102,694,799
Midd	Fin	Roy Ave	W. of Ruth St	Westerly on Ro	52	8	AC	Jul-60	49	N		Low	0	2	0	5	0	0	1.25	1343	\$8,580	\$102,703,379
Midd	Fin	Roy Ave	W. of Ruth St	Jean St	282.5	8	AC	Nov-62	47	N		Low	0	2	0	5	0	0	1.25	1344	\$46,613	\$102,749,991
Midd	Fin	Ruth St	Philips Ave	Roy Ave	458.5	8	AC	Jan-56	53	N		Low	0	2	0	5	0	0	1.25	1345	\$75,653	\$102,825,644
Midd	Fin	Squantam Dr	West Main Rd	E of Pocono Rd	271	12	AC	12/1/1962	47	N		Low	0	2	0	5	0	0	1.25	1346	\$47,425	\$102,873,069
Midd	Fin	Squantam Dr	E of Pocono Rd	W of Nakomis R	854	10	AC	12/1/1962	47	N		Low	0	2	0	5	0	0	1.25	1347	\$149,450	\$103,022,519
Midd	Fin	Squantam Dr	W of Nakomis Rd	W of Aspinet Rd	985	10	AC	5/1/1964	45	N		Low	0	2	0	5	0	0	1.25	1348	\$172,375	\$103,194,894
Midd	Fin	Squantam Dr	W of Aspinet Rd	Browns Ln	641	10	AC	10/1/1969	40	N		Low	0	2	0	5	0	0	1.25	1349	\$112,175	\$103,307,069
Midd	Fin	Valley Rd	East Main Rd	south	213	12	AC	5/1/1973	36	N		Med	0	1	0	5	2.5	0	1.25	1350	\$37,275	\$103,344,344
Midd	Fin	Valley Rd	extended	hyd M-87 @O'N	610	12	AC	7/1/1973	36	N		Med	0	1	0	5	2.5	0	1.25	1351	\$106,750	\$103,451,094
Midd	Fin	Vernon Ave	Fenner Ave	Bliss Mine	841	8	AC	9/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1352	\$138,765	\$103,589,859
Midd	Fin	Warren Ave	Newport Ave	Hyd 79	205	8	AC	Jan-58	51	N		Low	0	2	0	5	0	0	1.25	1353	\$33,825	\$103,623,684
Midd	Fin	Warren Ave	Hyd 79	Brianwood Ave	841	8	AC	4/1/1969	40	N		Low	0	2	0	5	0	0	1.25	1354	\$138,765	\$103,762,449
Midd	Fin	Wilson Rd	Forest Ave	Forest Ave	1041	8	AC	10/1/1960	49	N		Low	0	2	0	5	0	0	1.25	1355	\$171,765	\$103,934,214
Midd	Fin	Wolcott Ave	gate at Reservoir	across to gate2	23	8	cast iron	9/1/1957	52	N		Low	0	2	0	5	0	0	1.25	1356	\$3,795	\$103,938,009
Midd	Fin	Wolcott Ave	gate 2	135.5' N of Seas	125.5	8	AC	5/1/1950	59	N		Low	0	2	0	5	0	0	1.25	1357	\$20,708	\$103,958,716
Midd	Fin	Wolcott Ave	135.5' N of Seas	54' N of Maloney	337.5	8	AC	5/1/1950	59	N		Low	0	2	0	5	0	0	1.25	1358	\$55,688	\$104,014,404
Midd	Fin	Wolcott Ave	54' N of Maloney	56' S of Maloney	110	8	AC	7/1/1955	54	N		Low	0	2	0	5	0	0	1.25	1359	\$18,150	\$104,032,554
Midd	Fin	Wolcott Ave	56' S of Maloney	tee at Newport A	69	8	AC	11/1/1961	48	N		Low	0	2	0	5	0	0	1.25	1360	\$11,385	\$104,043,939
Midd	Fin	Wolcott Ave	tee at Newport Av	43' S of Newport	43	8	AC	11/1/1961	48	N		Low	0	2	0	5	0	0	1.25	1361	\$7,095	\$104,051,034
Midd	Fin	Wolcott Ave	43' S of Newport	58' N of Perry R	285	8	AC	12/1/1961	48	N		Low	0	2	0	5	0	0	1.25	1362	\$47,025	\$104,098,059
Midd	Fin	Wolcott Ave	58' N of Perry Rd	tee at Beach Vie	300	8	AC	8/1/1952	57	N		Low	0	2	0	5	0	0	1.25	1363	\$49,500	\$104,147,559
Midd	Fin	Wolcott Ave	tee at Beach View	branch at Orcha	139	8	Cast iron	9/1/1950	59	N		Low	0	2	0	5	0	0	1.25	1364	\$22,935	\$104,170,494
Midd	Fin	Wolcott Ave	branch at Orchard	Perlin... Service	155	8	AC	10/1/1956	53	N		Low	0	2	0	5	0	0	1.25	1365	\$25,575	\$104,196,069
Midd	Fin	Wolcott Ave	Perlin... Service	Souza Service	143	8	AC	11/21/1956	53	N		Low	0	2	0	5	0	0	1.25	1366	\$23,595	\$104,219,664
Midd	Fin	Wolcott Ave	tee at Brianwood	tee south of Bria	238	8	AC	3/1/1951	58	N		Low	0	2	0	5	0	0	1.25	1367	\$39,270	\$104,258,934
Midd	Fin	Wolcott Ave	tee at Easton Terr	tee at Sunset Hi	256	8	AC	4/1/1956	53	N		Low	0	2	0	5	0	0	1.25	1368	\$42,240	\$104,301,174
Midd	Fin	Wolcott Ave	tee at White Terr	south to Friedm	68.75	8	AC	4/1/1952	57	N		Low	0	2	0	5	0	0	1.25	1369	\$11,344	\$104,312,517
Midd	Fin	Wolcott Ave	Friedman and Alo	south to Fowler	91.5	8	AC	3/1/1956	53	N		Low	0	2	0	5	0	0	1.25	1370	\$15,098	\$104,327,615
Midd	Fin	Wolcott Ave	Donan Service	south to NE Cor	123.25	8	AC	5/1/1952	57	N		Low	0	2	0	5	0	0	1.25	1371	\$20,336	\$104,347,951
Midd	Fin	Wolcott Ave	NE Corp	main in Tuckern	159	8	AC	5/1/1955	54	N		Low	0	2	0	5	0	0	1.25	1372	\$26,235	\$104,374,186
Midd	Fin	Wyatt Rd	East Main Rd	N of E Main Rd	66	12	AC	11/1/1967	42	N		Low	0	2	0	5	0	0	1.25	1373	\$11,550	\$104,385,736
New	Fin	Lowndes St	Annandale Rd	W of Annandale	185	6	Ductile Iron			N		High	2.5	0	0	0	5	0	1.125	1374	\$30,525	\$104,416,261
New	Fin	Sylvan Ter	Loop		105	6	Ductile Iron			N		High	2.5	0	0	0	5	0	1.125	1375	\$17,325	\$104,433,586
Midd	Fin	Johnson Terrace	East Main Rd	End		6	Ductile Iron	Dec-94	15	Y		Low	2.5	0	0	0	0	5	1.125	1376	\$0	\$104,433,586
New	Fin	Andrew St	Ruggles Ave	End	618	8	PVC			Y		Med	0	0	0	2	2.5	5	1.05	1377	\$101,970	\$104,535,556
New	Fin	Brenton Rd	Goose Neck Cove	Ocean Ave.	539	12	PVC	12/1/1988	21	Y		Low	0	1	0	2	0	5	1.05	1378	\$94,325	\$104,629,881
Midd	Fin	Easton Ave	Wolcott Ave	S of Wolcott Ave	374	8	PVC	1/1/1981	28	Y		Low	0	1	0	2	0	5	1.05	1379	\$61,710	\$104,691,591
Midd	Fin	Jepson Ln	N. of Oliphant Ln	N. of Oliphant Ln	480	8	PVC	9/23/1981	28	Y		Low	0	1	0	2	0	5	1.05	1380	\$79,200	\$104,770,791
Tiv/LC	Raw	Raw Water	Watson Res	Sak PS	5662	24	RCP		29	N		Low	0	1	0	5	0	0	1	1381	\$1,273,950	\$106,044,741
New	Fin	Alpond Dr			1011	8	AC	4/1/1970	39	N		Low	0	1	0	5	0	0	1	1382	\$166,815	\$106,211,556
New	Fin	Beacon Hill Rd			1081	8	AC		22	N		Low	0	1	0	5	0	0	1	1383	\$178,365	\$106,389,921
New	Fin	Beacon Hill Rd			964	12	AC		22	N		Low	0	1	0	5	0	0	1	1384	\$168,700	\$106,558,621
New	Fin	Caswell Ave	Bliss Rd	End	790	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1385	\$130,350	\$106,688,971

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Cherry St	Third St	End	315	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1386	\$51,975	\$106,740,946
New	Fin	Christie's Landing	Thames St		18	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1387	\$2,970	\$106,743,916
New	Fin	Commonwealth Ave	Mary Jane Ln	Winans Ave	267	8	AC	11/1/1971	38	N		Low	0	1	0	5	0	0	1	1388	\$44,055	\$106,787,971
New	Fin	Daniel St		Greenlaw Blvd	78	8	Ductile Iron	5/1/2000	9	Y		High	0	0	0	0	5	5	1	1389	\$12,870	\$106,800,841
New	Fin	Hammersmith Rd - Loc	Hammersmith Rd	Harrison Ave	925	12	AC	6/1/1980	29	N		Low	0	1	0	5	0	0	1	1390	\$161,875	\$106,962,716
New	Fin	Hillside Ave	Beacon St	Maple Ave	1525	12	AC			N		Med	0	0	0	5	2.5	0	1	1391	\$266,875	\$107,229,591
New	Fin	John Chafee Blvd	Maple Ave	Loop		8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1392	\$0	\$107,229,591
New	Fin	Narragansett Ave	Roseneath Ave	Thames St	1318	20	Cast iron			N		Med	0	0	0	5	2.5	0	1	1393	\$263,600	\$107,493,191
New	Fin	Ocean Heights Ave	Southerly	toward cul-de-sa	550	12	AC	5/1/1973	36	N		Low	0	1	0	5	0	0	1	1394	\$96,250	\$107,589,441
New	Fin	Ocean Heights Ave	Cul-de-sac	S to Ocean Ave	337	12	AC	9/1/1973	36	N		Low	0	1	0	5	0	0	1	1395	\$58,975	\$107,648,416
New	Fin	Ocean Heights Ave	Ocean Ave		32	8	AC	9/1/1973	36	N		Low	0	1	0	5	0	0	1	1396	\$5,280	\$107,653,696
New	Fin	Roseneath Ave	Wellington Ave	Narragansett Av	632	12	Cast iron			N		Med	0	0	0	5	2.5	0	1	1397	\$110,600	\$107,764,296
New	Fin	Roseneath Ave	Atlantic St	Harrison Ave	642	20	Cast iron			N		Med	0	0	0	5	2.5	0	1	1398	\$128,400	\$107,892,696
New	Fin	Roseneath Ave	Narragansett Ave	Atlantic St	543	20	Cast iron			N		Med	0	0	0	5	2.5	0	1	1399	\$108,600	\$108,001,296
New	Fin	Ruggles Ave	Coggeshall Ave	Bellevue Ave	650	8	Cast iron			N		Med	0	0	0	5	2.5	0	1	1400	\$107,250	\$108,108,546
New	Fin	Sheffield Ave	Hall Ave		40	8	AC			N		Med	0	0	0	5	2.5	0	1	1401	\$6,600	\$108,115,146
New	Fin	Southmayd St	Homer St		9	8	AC			N		Med	0	0	0	5	2.5	0	1	1402	\$1,485	\$108,116,631
New	Fin	Waites Whf	Thames St	Westerly	560	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1403	\$92,400	\$108,209,031
New	Fin	Walnut St	W of Third St	Hammitt Pl	315	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1404	\$51,975	\$108,261,006
New	Fin	Warner Pl	Warner St	End	310	8	Ductile Iron	6/1/2003	6	Y		High	0	0	0	0	5	5	1	1405	\$51,150	\$108,312,156
New	Fin	Wellington Ave	Roseneath Ave	Columbia Rd	722	12	AC			N		Med	0	0	0	5	2.5	0	1	1406	\$126,350	\$108,438,506
New	Fin	Wellington Ave	Columbia Rd	Chastellux Ave	404	12	AC			N		Med	0	0	0	5	2.5	0	1	1407	\$70,700	\$108,509,206
New	Fin	Winans Ave	Easterly	Commonwealth	846	8	AC	11/1/1971	38	N		Low	0	1	0	5	0	0	1	1408	\$139,590	\$108,648,796
New	Fin	Winans Ave	Doris Ter	Westerly	188	8	AC	4/1/1977	32	N		Low	0	1	0	5	0	0	1	1409	\$31,020	\$108,679,816
New	Fin	Winans Ave	Ocean Ave	Easterly	232	8	AC	9/1/1978	31	N		Low	0	1	0	5	0	0	1	1410	\$38,280	\$108,718,096
New	Fin	Xavier Ter	Holten Ave	E to End	140.5	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1411	\$23,183	\$108,741,279
Midd/Ports	Raw	Raw Water	St. Mary's	Bailey's Brook	5750	16	AC		29	N		Low	0	1	0	5	0	0	1	1412	\$1,150,000	\$109,891,279
Midd	Fin	Aquidneck Ave	Reservoir Rd	Valley Rd		18	Cast Iron			N		Med	0	0	0	5	2.5	0	1	1413	\$0	\$109,891,279
Midd	Fin	Berkeley Ave	S of Wyatt Rd	S of Wyatt Rd	697	8	AC	9/1/1970	39	N		Low	0	1	0	5	0	0	1	1414	\$115,005	\$110,006,284
Midd	Fin	Berkeley Ave	S of Wyatt Rd	S of Wyatt Rd	369	8	AC	12/1/1979	30	N		Low	0	1	0	5	0	0	1	1415	\$60,885	\$110,067,169
Midd	Fin	Burton Lane	Marshall Ln	S of Marshall Ln	9	8	AC	8/1/1971	38	N		Low	0	1	0	5	0	0	1	1416	\$1,485	\$110,068,654
Midd	Fin	Burton Lane	S of Marshall Ln	Rogers Ln	765	12	AC	8/1/1971	38	N		Low	0	1	0	5	0	0	1	1417	\$133,875	\$110,202,529
Midd	Fin	Center Ave	Newport Ave	N of Orchard	450	8	AC	Sep-81	28	N		Low	0	1	0	5	0	0	1	1418	\$74,250	\$110,276,779
Midd	Fin	Coggeshall Way	Oliphant Ln	Oliphant Ln	2038	8	AC	9/1/1980	29	N		Low	0	1	0	5	0	0	1	1419	\$336,270	\$110,613,049
Midd	Fin	Crest St	S of Purgatory Rd	Purgatory Rd	205	8	AC	1/1/1971	38	N		Low	0	1	0	5	0	0	1	1420	\$33,825	\$110,646,874
Midd	Fin	East Main Rd	Brookdale Ave	W of Valley Rd	328	8	AC	Jul-71	38	N		Low	0	1	0	5	0	0	1	1421	\$54,120	\$110,700,994
Midd	Fin	East Main Rd	Forest Ave	Valley Rd	2316	12	AC	May-73	36	N		Low	0	1	0	5	0	0	1	1422	\$405,300	\$111,106,294
Midd	Fin	East Main Rd	E of Valley Rd	E of Valley Rd	29	8	AC	May-73	36	N		Low	0	1	0	5	0	0	1	1423	\$4,785	\$111,111,079
Midd	Fin	Green End Ave	S. of Miantonomi	S. of Miantonomi	260	8	Ductile Iron	Mar-82	27	Y		Med	0	1	0	0	2.5	5	1	1424	\$42,900	\$111,153,979
Midd	Fin	J.H. Dwyer Drive	Greene Ln	End J.H. Dwyer	2405	10	AC	Jun-80	29	N		Low	0	1	0	5	0	0	1	1425	\$420,875	\$111,574,854
Midd	Fin	John Clarke Road	Johnny Cake Hill	Silva Ln	500	10	AC	Mar-82	27	N		Low	0	1	0	5	0	0	1	1426	\$87,500	\$111,662,354
Midd	Fin	John Clarke Road	Silva Ln	Aquidneck Ave		12	AC	Mar-82	27	N		Low	0	1	0	5	0	0	1	1427	\$0	\$111,662,354
Midd	Fin	Johnny Cake Hill	Valley Rd	John Clarke Rd		12	AC	Mar-82	27	N		Low	0	1	0	5	0	0	1	1428	\$0	\$111,662,354
Midd	Fin	Maple Avenue	West Main Rd	E. of RR proper	4600	12	AC	Dec-02	7	N		Med	0	0	0	5	2.5	0	1	1429	\$805,000	\$112,467,354
Midd	Fin	Maplewood Road	E. of Maplewood	Ridgewood Rd	66	8	AC			N		Med	0	0	0	5	2.5	0	1	1430	\$10,890	\$112,478,244
Midd	Fin	Newport Avenue	E. of Renfrew Ave	E. of Renfrew A	273	8	AC	Nov-74	35	N		Low	0	1	0	5	0	0	1	1431	\$45,045	\$112,523,289
Midd	Fin	Newport Avenue	E. of Renfrew Ave	E. of Renfrew A	81	8	AC	May-76	33	N		Low	0	1	0	5	0	0	1	1432	\$13,365	\$112,536,654
Midd	Fin	Newport Avenue	E. of Renfrew Ave	E. of Renfrew Ave		8	AC	Oct-78	31	N		Low	0	1	0	5	0	0	1	1433	\$0	\$112,536,654
Midd	Fin	Newport Avenue	W. of Center Ave	Wolcott Ave	206	8	AC	Oct-78	31	N		Low	0	1	0	5	0	0	1	1434	\$33,990	\$112,570,644
Midd	Fin	Paradise Ave	Purgatory Rd	Plug at Reservo	3129	12	AC	Jan-79	30	N		Low	0	1	0	5	0	0	1	1435	\$547,575	\$113,118,219
Midd	Fin	Phillips Ave	Jean St	JH Dwyer Dr	13	8	AC	Jan-80	29	N		Low	0	1	0	5	0	0	1	1436	\$2,145	\$113,120,364
Midd	Fin	Purgatory Rd	Aquidneck Ave	Paradise Ave	5000	12	AC	Jan-71	38	N		Low	0	1	0	5	0	0	1	1437	\$875,000	\$113,995,364
Midd	Fin	Roy Ave	Marshall Ln	W. of Marshall L	93	8	AC	Sep-71	38	N		Low	0	1	0	5	0	0	1	1438	\$15,345	\$114,010,709
Midd	Fin	Sunset Hill Rd	Kane Ave	W of Kane Ave	234	8	AC	10/1/1981	28	N		Low	0	1	0	5	0	0	1	1439	\$38,610	\$114,049,319
Midd	Fin	Valley Rd	Winthrop Dr	Longmeadow	196	12	AC			N		Med	0	0	0	5	2.5	0	1	1440	\$34,300	\$114,083,619
Midd	Fin	Valley Rd	Longmeadow	north	343	12	AC			N		Med	0	0	0	5	2.5	0	1	1441	\$60,025	\$114,143,644
Midd	Fin	West Main Road	Dudley Ave	across street to Dudley Plac	8		cast iron			N		Med	0	0	0	5	2.5	0	1	1442	\$0	\$114,143,644
Midd	Fin	West Main Road	at Evergreen	across to gate in Evergreen	8					N		Med	0	0	0	5	2.5	0	1	1443	\$0	\$114,143,644
Midd	Fin	West Main Road	Elmwood Ave gat	across to gate o	38	8	cast iron			N		Med	0	0	0	5	2.5	0	1	1444	\$6,270	\$114,149,914
Midd	Fin	West Main Road	approx 40' before	main diagonally crosses tow	24		cast iron			N		Med	0	0	0	5	2.5	0	1	1445	\$0	\$114,149,914
Midd	Fin	West Main Road	continues past Ol	aprox 300' before Greene La	24		cast iron			N		Med	0	0	0	5	2.5	0	1	1446	\$0	\$114,149,914
Midd	Fin	West Main Road	aprox 450' before	20.6' from west	60	24	cast iron			N		Med	0	0	0	5	2.5	0	1	1447	\$13,500	\$114,163,414
Midd	Fin	West Main Road	bend	north	216	24	cast iron			N		Med	0	0	0	5	2.5	0	1	1448	\$48,600	\$114,212,014

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	West Main Road	where 216' cast in	north		24	AC			N		Med	0	0	0	5	2.5	0	1	1449	\$0	\$114,212,014
Midd	Fin	West Main Road	Filter Plant	16' Cl at Reserv	487	24	AC	Cont. #1		N		Med	0	0	0	5	2.5	0	1	1450	\$109,575	\$114,321,589
Midd	Fin	Wolcott Ave	Souza Service	bend	184	8	AC	Jan-78	31	N		Low	0	1	0	5	0	0	1	1451	\$30,360	\$114,351,949
Midd	Fin	Wolcott Ave	bend	bend (diag across	28	8	AC	Jan-78	31	N		Low	0	1	0	5	0	0	1	1452	\$4,620	\$114,356,569
Midd	Fin	Wolcott Ave	bend	tee at Briarwood	101	8	AC	Jan-78	31	N		Low	0	1	0	5	0	0	1	1453	\$16,665	\$114,373,234
Midd	Fin	Wolcott Ave	tee south of Briar	tee at Purgatory	680	8	AC	Jan-71	38	N		Low	0	1	0	5	0	0	1	1454	\$112,200	\$114,485,434
Midd	Fin	Wyatt Rd	N of E Main Rd	Berkley Ave	2462	12	AC	9/1/1970	39	N		Low	0	1	0	5	0	0	1	1455	\$430,850	\$114,916,284
Midd	Fin	Esplanade	S of Tuckerman	S of Tuckerman	42.4	6	Ductile Iron	1/8/1987	22	N		Low	2.5	1	0	0	0	0	0.875	1456	\$6,996	\$114,923,280
New	Fin	Marine Ave	Bellevue Ave	E of Bellevue Av	720	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1457	\$118,800	\$115,042,080
Midd	Fin	Loring Street	Reservoir Ave	N. of Reservoir A	466	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1458	\$76,890	\$115,118,970
Midd	Fin	Oak Forest Drive	Oliphant Ln	Swan Dr	322	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1459	\$53,130	\$115,172,100
Midd	Fin	Oak Forest Drive	Swan Dr	E. of Swan Dr	869	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1460	\$143,385	\$115,315,485
Midd	Fin	Oliphant Lane	W. of Oak Forest	Oak Forest Dr		12	PVC			Y		Low	0	0	0	2	0	5	0.8	1461	\$0	\$115,315,485
Midd	Fin	Swan Dr	Oak Forest Dr	End	760	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1462	\$125,400	\$115,440,885
Ports	Fin	Goulart Ln	East Main Rd	Goulart Ln Sldp	139	12	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1463	\$24,325	\$115,465,210
New	Fin	Albro St	Channing St	Van Zandt Ave	303.5	8	Ductile Iron		22	N		High	0	1	0	0	5	0	0.75	1464	\$50,078	\$115,515,287
New	Fin	Appleby St	Tilden Ave	Farewell St	417	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1465	\$68,805	\$115,584,092
New	Fin	Bancroft Ave	Bellevue Ave		42	8	Cast iron			N		Low	0	0	0	5	0	0	0.75	1466	\$6,930	\$115,591,022
New	Fin	Beacon Ct			1026	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1467	\$169,290	\$115,760,312
New	Fin	Beacon Hill Rd	Harrison Ave	W. of Harrison A	216	12	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1468	\$37,800	\$115,798,112
New	Fin	Bridge St	Frank Corridor St	Washington St	386	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1469	\$63,690	\$115,861,802
New	Fin	Bridge St	Thames St	America's Cup A	542	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1470	\$89,430	\$115,951,232
New	Fin	Caaleb Earl St	Broadway	Wheatland Blvd	254	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1471	\$41,910	\$115,993,142
New	Fin	Callender Ave	Wheatland Blvd	Warner N	950	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1472	\$156,750	\$116,149,892
New	Fin	Church St	Thames St	Spring St	587	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1473	\$96,855	\$116,246,747
New	Fin	Church St	Spring St	Bellevue Ave	951	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1474	\$156,915	\$116,403,662
New	Fin	Clarke St	Touro St	Mary St	477	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1475	\$78,705	\$116,482,367
New	Fin	Coddington St	Thames St	Charles St	156	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1476	\$25,740	\$116,508,107
New	Fin	Collins St	Broadway	Wheatland Blvd	306	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1477	\$50,490	\$116,558,597
New	Fin	Cross St	Bridge St	Poplar St	500	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1478	\$82,500	\$116,641,097
New	Fin	Dean Ave		Thames St	25	12	Ductile Iron	1/1/1979	30	N		High	0	1	0	0	5	0	0.75	1479	\$4,375	\$116,645,472
New	Fin	Eastnor Rd Ext			80	8	Ductile Iron	1/1/2004	5	Y		Med	0	0	0	0	2.5	5	0.75	1480	\$13,200	\$116,658,672
New	Fin	Ellery Rd	Prairie Ave	Station #1	2648	16	Ductile Iron	1/1/1971	38	N		High	0	1	0	0	5	0	0.75	1481	\$529,600	\$117,188,272
New	Fin	Elm St	Washington St	Cross St	1209	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1482	\$199,485	\$117,387,757
New	Fin	Grafton St	Thames St	Marchant St	595	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1483	\$98,175	\$117,485,932
New	Fin	Hammersmith Rd	W of Beacon Hill	Harrison Ave	863	12	AC			N		Low	0	0	0	5	0	0	0.75	1484	\$151,025	\$117,636,957
New	Fin	Howard St	Thames St		25	8	Ductile Iron	1/1/1974	35	N		High	0	1	0	0	5	0	0.75	1485	\$4,125	\$117,641,082
New	Fin	King St	William St	Bowery St	795	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1486	\$131,175	\$117,772,257
New	Fin	Meeting St	Washington Sq	Marlborough St	380	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1487	\$62,700	\$117,834,957
New	Fin	Oak St	Broadway	Wheatland Blvd	287	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1488	\$47,355	\$117,882,312
New	Fin	Prospect Hill St	Thames St	Spring St	491	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1489	\$81,015	\$117,963,327
New	Fin	Prospect Hill St	Spring St	Bellevue Ave	1178	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1490	\$194,370	\$118,157,697
New	Fin	Ridge Rd	Harrison Ave	Castle Hill Ave	3594	8	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1491	\$593,010	\$118,750,707
New	Fin	Rovensky Ave	Bellevue Ave	Coggeshall Ave	725	8	Cast iron			N		Low	0	0	0	5	0	0	0.75	1492	\$119,625	\$118,870,332
New	Fin	Sharon Ct	Thames St		32	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1493	\$5,280	\$118,875,612
New	Fin	Slate Hill Farm			61.31	8	AC						0	0	0	5	0	0	0.75	1494	\$10,116	\$118,885,728
New	Fin	Thames St	Poplar St	Marlborough St	1008	12	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1495	\$176,400	\$119,062,128
New	Fin	Thames St	Memorial Blvd Ex	Dearborn St	1290	12	Ductile Iron	1/1/1979	30	N		High	0	1	0	0	5	0	0.75	1496	\$225,750	\$119,287,878
New	Fin	Thames St	Dearborn St	Narragansett Av	1560	16	Ductile Iron	1/1/1979	30	N		High	0	1	0	0	5	0	0.75	1497	\$312,000	\$119,599,878
New	Fin	Touro St	Spring St	Kay St	1018	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1498	\$167,970	\$119,767,848
New	Fin	White St	Farewell St	Tilden Ave	437	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1499	\$72,105	\$119,839,953
New	Fin	William St	E of King St	Spring St	749	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1500	\$123,585	\$119,963,538
New	Fin	Young St	Thames St	Spring St	440	8	Ductile Iron	4/1/1981	28	N		High	0	1	0	0	5	0	0.75	1501	\$72,600	\$120,036,138
Midd	Fin	Allston Ave	S of Purgatory	S of Purgatory	230	8	Ductile Iron	1/1/90	19	Y		Med	0	0	0	0	2.5	5	0.75	1502	\$37,950	\$120,074,088
Midd	Fin	Brookdale Ave	N of E Main Rd	N of E Main Rd	150	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1503	\$24,750	\$120,098,838
Midd	Fin	Buck Rd	Woolsey Rd	E to End	570	8	Ductile Iron	Jan-93	16	Y		Med	0	0	0	0	2.5	5	0.75	1504	\$94,050	\$120,192,888
Midd	Fin	Center Ave	N of Orchard	N of Briarwood	804	8	AC			N		Low	0	0	0	5	0	0	0.75	1505	\$132,660	\$120,325,548
Midd	Fin	Center Ave	N of Briarwood	Briarwood Ave	33.25	8	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1506	\$5,486	\$120,331,035
Midd	Fin	Center Ave	Briarwood Ave	Purgatory Rd	803					N		Low	0	0	0	5	0	0	0.75	1507	\$132,495	\$120,463,530
Midd	Fin	Colony Dr				8	AC			N		Low	0	0	0	5	0	0	0.75	1508	\$0	\$120,463,530
Midd	Fin	Ellery Ave	Orchard Ave	Briarwood Ave	494	8	AC			N		Low	0	0	0	5	0	0	0.75	1509	\$81,510	\$120,545,040
Midd	Fin	Ellery Ave	Briarwood Ave	S of Briarwood	272.25	8	AC			N		Low	0	0	0	5	0	0	0.75	1510	\$44,921	\$120,589,961
Midd	Fin	Forest Ave	E West Main Rd	W of FAPS		8	AC			N		Low	0	0	0	5	0	0	0.75	1511	\$0	\$120,589,961

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/ Fin				Pipe Lth (ft)	Exist Pipe Dia (in)	Exist Pipe Material	Pipe Age	Age (years)	Dead End (Y/N)	Main Break	Locat.						Dead End	Total Rating	Pipe Ranking	Cost Estimate	Cum Cost Est
Town	Fin	Street Name	From	To									Size	Age	Break	Mater.	Locat.					
Midd	Fin	Forest Ave	FAPS	West of Francis	778	8	AC			N		Low	0	0	0	5	0	0	0.75	1512	\$128,370	\$120,718,331
Midd	Fin	Green End Ave	W. of Aquidneck	E. of Berkly Ave		12	Ductile Iron	Jun-02	7	Y		Med	0	0	0	0	2.5	5	0.75	1513	\$0	\$120,718,331
Midd	Fin	Kane Avenue	Purgatory Rd	S. of Purgatory	16	8	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1514	\$2,640	\$120,720,971
Midd	Fin	Kane Avenue	S. of Purgatory Rd	S. of Purgatory	179	8	AC			N		Low	0	0	0	5	0	0	0.75	1515	\$29,535	\$120,750,506
Midd	Fin	Kane Avenue	S. of Purgatory Rd	O'Donnell Way	305	8	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1516	\$50,325	\$120,800,831
Midd	Fin	Kane Avenue	O'Donnell Way	White Terr	1197	8	AC			N		Low	0	0	0	5	0	0	0.75	1517	\$197,505	\$120,998,336
Midd	Fin	Maplewood Road	Ridgewood Rd	E. of Ridgewood	69	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1518	\$11,385	\$121,009,721
Midd	Raw	Raw Water	Paradise	Gardiner	1216	24	Cast Iron					Low	0	0	0	5	0	0	0.75	1519	\$273,600	\$121,283,321
Midd	Raw	Raw Water	Paradise	Gardiner	2193	24	Cement			N		Low	0	0	0	5	0	0	0.75	1520	\$493,425	\$121,776,746
Midd	Fin	Renfrew Ave	N. of Newport Ave		20	8				N		Low	0	0	0	5	0	0	0.75	1521	\$3,300	\$121,780,046
Midd	Fin	Renfrew Ave	Newport Ave	Seascape Ave	283	8				N		Low	0	0	0	5	0	0	0.75	1522	\$46,695	\$121,826,741
Midd	Fin	Renfrew Ave	N. of Reservoir Rd	Reservoir Rd	18	8				N		Low	0	0	0	5	0	0	0.75	1523	\$2,970	\$121,829,711
Midd	Fin	Sundown Ln	Buck Rd	End	760	8	Ductile Iron	1/1/1993	16	Y		Med	0	0	0	0	2.5	5	0.75	1524	\$125,400	\$121,955,111
Midd	Fin	Valley Rd North	bend	hyd M-249	225	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1525	\$39,375	\$121,994,486
Midd	Fin	Valley Rd North	hyd M-249	hyd M-248	233	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1526	\$40,775	\$122,035,261
Midd	Fin	Valley Rd North	hyd M-248	6" gate	188	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1527	\$32,900	\$122,068,161
Midd	Fin	Valley Rd North	6" gate	across st, past	50	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1528	\$8,750	\$122,076,911
Midd	Fin	Valley Rd North	~3' in from last po	12" x 8" tee	468	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1529	\$81,900	\$122,158,811
Midd	Fin	Wolcott Ave	tee at Purgatory R	tee at Easton Terr						N		Low	0	0	0	5	0	0	0.75	1530	\$0	\$122,158,811
Midd	Fin	Wolcott Ave	Fowler	south to tee at V	484	8	AC			N		Low	0	0	0	5	0	0	0.75	1531	\$79,860	\$122,238,671
Midd	Fin	Wyndham Rd	Berkley Ave	end	2211	8	Ductile Iron	9/1/1987	22	Y		Low	0	1	0	0	0	5	0.75	1532	\$364,815	\$122,603,486
New	Fin	Commonwealth Ave	Castle Hill Ave		36	6	Ductile Iron	5/1/2001	8	N		Low	2.5	0	0	0	0	0	0.625	1533	\$5,940	\$122,609,426
New	Fin	Commonwealth Ave	Winans Ave	Southerly	544	6	Ductile Iron	12/1/1997	12	N		Low	2.5	0	0	0	0	0	0.625	1534	\$89,760	\$122,699,186
New	Fin	Beacon Hill Rd	W. of Harrison Av	Brenton Rd	786	12	PVC		22	N		Low	0	1	0	2	0	0	0.55	1535	\$137,550	\$122,836,736
New	Fin	Beacon Hill Rd			1668	12	PVC		22	N		Low	0	1	0	2	0	0	0.55	1536	\$291,900	\$123,128,636
New	Fin	Berkeley Ave	Bellevue Ave	Sylvan St	823	8	Ductile Iron	9/1/2001	8	N		High	0	0	0	0	5	0	0.5	1537	\$135,795	\$123,264,431
New	Fin	Brinley St	Kay St	Catherine St	760	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1538	\$125,400	\$123,389,831
New	Fin	Catherine St	Prairie Ave	Gibbs Ave	480	8	Ductile Iron	1/1/1999	10	N		High	0	0	0	0	5	0	0.5	1539	\$79,200	\$123,469,031
New	Fin	Central St	Bull St	Mann Ave	554	8	Ductile Iron	1/1/2001	8	N		High	0	0	0	0	5	0	0.5	1540	\$91,410	\$123,560,441
New	Fin	Champlin St	Eustis Ave	Prairie Ave	950	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1541	\$156,750	\$123,717,191
New	Fin	Chase St	Willow St	Poplar St	204	8	Ductile Iron	9/1/2001	8	N		High	0	0	0	0	5	0	0.5	1542	\$33,660	\$123,750,851
New	Fin	Coggeshall Ave	Morton Ave	Ruggles Ave	1934	12	Ductile Iron	5/1/1983	26	N		Med	0	1	0	0	2.5	0	0.5	1543	\$338,450	\$124,089,301
New	Fin	Connell Hwy	opp One Stop	Motel 6	326	12	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1544	\$57,050	\$124,146,351
New	Fin	Connell Hwy	Motel 6	Northerly	334	12	Ductile Iron	2/1/1997	12	N		High	0	0	0	0	5	0	0.5	1545	\$58,450	\$124,204,801
New	Fin	Coridon St	Bridge St	Southerly	54	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1546	\$8,910	\$124,213,711
New	Fin	Cummings Rd	Bedlow Ave	Malbone Rd	590	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1547	\$97,350	\$124,311,061
New	Fin	Dana St		Wilbur St	123	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1548	\$20,295	\$124,331,356
New	Fin	Dartmouth St	Channing St	Warner St	400	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1549	\$66,000	\$124,397,356
New	Fin	Dresser St	Annandale Rd	Cliff Ave	880	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1550	\$145,200	\$124,542,556
New	Fin	Duke St	Washington Sq	Marlborough St	350	8	Ductile Iron	1/1/1978	31	N		Med	0	1	0	0	2.5	0	0.5	1551	\$57,750	\$124,600,306
New	Fin	East Bowery St	Bellevue Ave	Middleton Ave	1315	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1552	\$216,975	\$124,817,281
New	Fin	Extension St	Spring St	Thames St	570	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1553	\$94,050	\$124,911,331
New	Fin	Fillmore St	Brinley St	Tompkins Ct	322	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1554	\$53,130	\$124,964,461
New	Fin	Gibbs Ave	Broadway	Bliss Rd	330	8	Ductile Iron	6/1/1998	11	N		High	0	0	0	0	5	0	0.5	1555	\$54,450	\$125,018,911
New	Fin	Gibbs Ave	Old Beach Rd	Memorial Blvd	1320	12	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1556	\$231,000	\$125,249,911
New	Fin	John St	Bellevue Ave	Spring St		8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1557	\$0	\$125,249,911
New	Fin	Ledge Rd			1677	8	Ductile Iron	1/1/2006	3	Y		Low	0	0	0	0	0	5	0.5	1558	\$276,705	\$125,526,616
New	Fin	Lee Ave	Spring St	Thames St	700	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1559	\$115,500	\$125,642,116
New	Fin	Lowndes St		Middleton Ave	40	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1560	\$6,600	\$125,648,716
New	Fin	McAllister St	Thames St	Spring St	550	8	Ductile Iron	1/1/2007	3	N	0	High	0	0	0	0	5	0	0.5	1561	\$90,750	\$125,739,466
New	Fin	Middleton Ave	Memorial Blvd	Berkeley Ave	1440	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1562	\$237,600	\$125,977,066
New	Fin	Newport Ave	Broadway	Channing St	268	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1563	\$44,220	\$126,021,286
New	Fin	Oakwood Ter	Rhode Island Ave	Red Cross Ave	460	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1564	\$75,900	\$126,097,186
New	Fin	Old Beach Rd	Rhode Island Ave	Gibbs Ave	690	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1565	\$113,850	\$126,211,036
New	Fin	Pelham St	Thames St	Spring St	520	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1566	\$85,800	\$126,296,836
New	Fin	Pelham St	Spring St	Bellevue Ave	1180	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1567	\$194,700	\$126,491,536
New	Fin	Second St	Bridge St	Elm St	135	8	Ductile Iron	6/1/1999	10	N		High	0	0	0	0	5	0	0.5	1568	\$22,275	\$126,513,811
New	Fin	Second St	Elm St	Poplar St	217	8	Ductile Iron	7/1/1999	10	N		High	0	0	0	0	5	0	0.5	1569	\$35,805	\$126,549,616
New	Fin	Second St	Chestnut St	Battery St	693	8	Ductile Iron	7/1/2000	9	N		High	0	0	0	0	5	0	0.5	1570	\$114,345	\$126,663,961
New	Fin	Slocum St	East Bowery St	Middleton Ave	565	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1571	\$93,225	\$126,757,186
New	Fin	Slocum St	Middleton Ave	Annandale Rd	420	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1572	\$69,300	\$126,826,486
New	Fin	Smith Ave	Malbone Rd	Thurston Ave	625	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1573	\$103,125	\$126,929,611
New	Fin	Spring St	N of Narragansett	Morton Ave	860	12	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1574	\$150,500	\$127,080,111

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/					Exist	Exist			Dead								Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Pipe Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	Age (years)	End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	Dead End	Total Rating	Pipe Ranking	Estimate	Cum Cost Est
New	Fin	Sylvan St	Berkeley Ave		30	8	Ductile Iron	9/1/2001	8	N		High	0	0	0	0	5	0	0.5	1575	\$4,950	\$127,085,061
New	Fin	Thames St	Narragansett Ave	Morton Ave	730	12	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1576	\$127,750	\$127,212,811
New	Fin	Third St	Bridge St	Cherry St	1426	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1577	\$235,290	\$127,448,101
New	Fin	Tompkins Ct	Catherine St	Fillmore St	282	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1578	\$46,530	\$127,494,631
New	Fin	Van Zandt Ave	Hall Ave	E of Congdon A	175	8	Ductile Iron	12/1/1990	19	N		High	0	0	0	0	5	0	0.5	1579	\$28,875	\$127,523,506
New	Fin	Weaver Ave	Freebody St	Annandale Rd	440	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1580	\$72,600	\$127,596,106
New	Fin	Wellington Ave	Thames St	Roseneath Ave	1362	12	Ductile Iron	10/1/1987	22	N		Med	0	1	0	0	2.5	0	0.5	1581	\$238,350	\$127,834,456
New	Fin	Willow St			318	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1582	\$52,470	\$127,886,926
Midd	Fin	Aquidneck Ave	Reservoir Rd	Valley Rd		16	Ductile Iron	Jan-71	38	N		Med	0	1	0	0	2.5	0	0.5	1583	\$0	\$127,886,926
Midd	Fin	Atlantic Dr	Valley Rd	End	1612	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1584	\$265,980	\$128,152,906
Midd	Fin	Beagle Dr	Berkeley Ave	End	665	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1585	\$109,725	\$128,262,631
Midd	Fin	Bluegrass Dr	Forest Ave	End	765	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1586	\$126,225	\$128,388,856
Midd	Fin	Browns Ln	W of E Main Rd	W of E Main Rd	352	10	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1587	\$61,513	\$128,450,368
Midd	Fin	Carraige Trail	Golden Rod Ln	N of Wintergree	1009	8	Ductile Iron	6/1/2001	8	Y		Low	0	0	0	0	0	5	0.5	1588	\$166,485	\$128,616,853
Midd	Fin	Columbia Rd	Ward Ave	N to bend	653	8	Ductile Iron	1/1/2000	9	Y		Low	0	0	0	0	0	5	0.5	1589	\$107,745	\$128,724,598
Midd	Fin	Continental Dr	N of Green End A	N of Green End	47.42	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1590	\$7,824	\$128,732,423
Midd	Fin	Corporate Pl				8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1591	\$0	\$128,732,423
Midd	Fin	Cows Path	West View Rd	End	314	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1592	\$51,810	\$128,784,233
Midd	Fin	Draper St	N of Reservoir Rd	N of Reservoir R	213	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1593	\$35,145	\$128,819,378
Midd	Fin	Enterprise Ct	E Main Rd	End		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1594	\$0	\$128,819,378
Midd	Fin	Evelin Cir	John Kesson Ln	loop	1020	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1595	\$168,300	\$128,987,678
Midd	Fin	Fairway Dr	Brown's Ln	N of Browns	1760	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1596	\$290,400	\$129,278,078
Midd	Fin	Goldenrod Drive	Valley Rd	Carriage Trail	500	8	Ductile Iron	May-01	8	Y		Low	0	0	0	0	0	5	0.5	1597	\$82,500	\$129,360,578
Midd	Fin	Goldenrod Drive	Carriage Trail	Wintergreen Dr	580	8	Ductile Iron	May-01	8	Y		Low	0	0	0	0	0	5	0.5	1598	\$95,700	\$129,456,278
Midd	Fin	Goldenrod Drive	Wintergreen Dr	End Goldenrod	431	8	Ductile Iron	May-01	8	Y		Low	0	0	0	0	0	5	0.5	1599	\$71,115	\$129,527,393
Midd	Fin	Harold Lane	N. of Reservoir A	Reservoir Rd	80	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1600	\$13,200	\$129,540,593
Midd	Fin	Harvest Rd	West View Rd	End	237	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1601	\$39,105	\$129,579,698
Midd	Fin	High Meadow Ct	West View Rd	End	239	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1602	\$39,435	\$129,619,133
Midd	Fin	Island Drive	East Main Rd	End	1865	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1603	\$307,725	\$129,926,858
Midd	Fin	Jepson Ln	Oliphant Ln	N. of Oliphant Ln		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1604	\$0	\$129,926,858
Midd	Fin	Jib Ct	Atlantic Dr	End	270	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1605	\$44,550	\$129,971,408
Midd	Fin	John Kesson Ln			2011	8	Ductile Iron	Jan-99	10	Y		Low	0	0	0	0	0	5	0.5	1606	\$331,815	\$130,303,223
Midd	Fin	Lighthouse View Drive	Compton View Dr	Compton View Dr South		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1607	\$0	\$130,303,223
Midd	Fin	Loring Street	N. of Reservoir A	End of Loring St	147	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1608	\$24,255	\$130,327,478
Midd	Fin	Marshall Terr	Marshall Ln	End	220	8	Ductile Iron	Jan-02	7	Y		Low	0	0	0	0	0	5	0.5	1609	\$36,300	\$130,363,778
Midd	Fin	Mast Ct	Atlantic Dr	End	295	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1610	\$48,675	\$130,412,453
Midd	Fin	Meadow Lane	East Main Rd	Loop	3250	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1611	\$536,250	\$130,948,703
Midd	Fin	Moy Ct	Jepson Ln	End	585	8	Ductile Iron	Jan-99	10	Y		Low	0	0	0	0	0	5	0.5	1612	\$96,525	\$131,045,228
Midd	Fin	Oak Forest Drive	E. of Swan Dr	Amesbury Circle		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1613	\$0	\$131,045,228
Midd	Fin	Old Farm Way	West View Rd	End	240	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1614	\$39,600	\$131,084,828
Midd	Fin	Oliphant Lane	Oak Forest Dr	Barton Ln		12	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1615	\$0	\$131,084,828
Midd	Fin	Paradise Brook Farm R	Maidford River Rd	90 deg. Bend	310	8	Ductile Iron	Jul-02	7	Y		Low	0	0	0	0	0	5	0.5	1616	\$51,150	\$131,135,978
Midd	Fin	Paradise Brook Farm R	90 deg. Bend	hydrant	77	8	Ductile Iron	Jul-02	7	Y		Low	0	0	0	0	0	5	0.5	1617	\$12,705	\$131,148,683
Midd	Fin	Paradise Brook Farm R	hydrant	meter vault	510	8	Ductile Iron	Jul-02	7	Y		Low	0	0	0	0	0	5	0.5	1618	\$84,150	\$131,232,833
Midd	Fin	Rooster Way	West View Rd	End	325	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1619	\$53,625	\$131,286,458
Midd	Fin	Sail Ct	Atlantic Dr	End	250	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1620	\$41,250	\$131,327,708
Midd	Fin	Sanctuary View Dr				8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1621	\$0	\$131,327,708
Midd	Fin	Spinnaker Ct	Atlantic Dr	End	270	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1622	\$44,550	\$131,372,258
Midd	Fin	Tally Ho Ct	Berkeley Ave	End		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1623	\$0	\$131,372,258
Midd	Fin	Trout Dr	Green End Ave	N of Green End	1750	8	Ductile Iron	1/1/1993	16	Y		Low	0	0	0	0	0	5	0.5	1624	\$288,750	\$131,661,008
Midd	Fin	Wabasso Terrace	East Main Rd 12"	AC	1030	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1625	\$169,950	\$131,830,958
Midd	Fin	West View Rd	West Main Rd	Cows Path	2115	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1626	\$348,975	\$132,179,933
Midd	Fin	Wintergreen Dr	Goldenrod Dr gate	hydrant	462	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1627	\$76,230	\$132,256,163
Midd	Fin	Wintergreen Dr	hydrant	gate at Carriage	208.5	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1628	\$34,403	\$132,290,565
Midd	Fin	Wintergreen Dr	gate at Carriage	hydrant	308	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1629	\$50,820	\$132,341,385
Midd	Fin	Wintergreen Dr	hydrant	hydrant AT END	295	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1630	\$48,675	\$132,390,060
New	Fin	Brenton Rd	Hammersmith Rd	Cherry Creek Rd	1355	12	PVC			N		Low	0	0	0	2	0	0	0.3	1631	\$237,125	\$132,627,185
New	Fin	Girard Ave	Adm Kalbfus Rd		450	12	PVC			N		Low	0	0	0	2	0	0	0.3	1632	\$78,750	\$132,705,935
New	Fin	Hammersmith Rd	Harrison Ave	W of Beacon Hi	646.5	12	PVC			N		Low	0	0	0	2	0	0	0.3	1633	\$113,138	\$132,819,073
New	Fin	Spouting Rock Dr	Coggeshall Ave	Loop	1200	8	PVC			N		Low	0	0	0	2	0	0	0.3	1634	\$198,000	\$133,017,073
New/Midd	Fin	Middle Dam	Aquidneck Ave	N. of Aquidneck	2743	20	Ductile Iron	1971	33	N		Low	0	1	0	0	0	0	0.25	1635	\$548,600	\$133,565,673
New	Fin	Atlantic St	Carroll Ave		54	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1636	\$8,910	\$133,574,583
New	Fin	Brenton Rd	Hammersmith Rd	Goose Neck Co	1001	12	Ductile Iron	10/1/1987	22	N		Low	0	1	0	0	0	0	0.25	1637	\$175,175	\$133,749,758

City of Newport, Rhode Island - Water Main Database (sorted by TOTAL RATING)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Dexter St	Hillside Ave	Town Line	1160	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1638	\$191,400	\$133,941,158
New	Fin	Eastnor Rd	Carroll Ave			8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1639	\$0	\$133,941,158
New	Fin	Lucas St	Thames St	Marchant St	590	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1640	\$97,350	\$134,038,508
New	Fin	Potter St	Thames St	Marchant St	588	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1641	\$97,020	\$134,135,528
New	Fin	Rowland Rd	Adm Kalbfus Rd	Southerly	18	8	Ductile Iron	1/22/1997	12	N		Med	0	0	0	0	2.5	0	0.25	1642	\$2,970	\$134,138,498
New	Fin	Ruggles Ave	Hazard Rd	Carroll Ave	1740	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1643	\$304,500	\$134,442,998
New	Fin	Sheffield Ave	Hall Ave	Malbone Rd	925	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1644	\$152,625	\$134,595,623
New	Fin	Weatherly Ave			70	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1645	\$11,550	\$134,607,173
Midd	Fin	Aquidneck Ave	S of Reardon Dr	Vierra Terr	369.25	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1646	\$64,619	\$134,671,791
Midd	Fin	Aquidneck Ave	Vierra Terr	Trimble Rd	898.17	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1647	\$157,180	\$134,828,971
Midd	Fin	Aquidneck Ave	Trimble Rd	Green End Ave	2557.26	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1648	\$447,521	\$135,276,492
Midd	Fin	Aquidneck Ave	Green End Ave	S of Green End	40.75	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1649	\$7,131	\$135,283,623
Midd	Fin	Beacon St	Beacon Terr North	Beacon Ct	186	8	Ductile Iron	Jan-93	16	N		Med	0	0	0	0	2.5	0	0.25	1650	\$30,690	\$135,314,313
Midd	Fin	East Main Rd	E of Valley Rd	across road	53	12	Ductile Iron	May-73	36	N		Low	0	1	0	0	0	0	0.25	1651	\$9,275	\$135,323,588
Midd	Fin	Elmwood Ave	Balsam St	Willow Ave	250	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1652	\$41,250	\$135,364,838
Midd	Fin	Esplanade	Tuckerman Ave	S of Tuckerman		8	Ductile Iron	12/4/1986	23	N		Low	0	1	0	0	0	0	0.25	1653	\$0	\$135,364,838
Midd	Fin	Reservoir Rd	Reducer at Parad	Reducer at Aqu	5235	16	Ductile Iron	Jan-71	38	N		Low	0	1	0	0	0	0	0.25	1654	\$1,047,000	\$136,411,838
Midd	Fin	Reservoir Rd	Aquidneck Ave	Walcott Ave		16	Ductile Iron	Jan-71	38	N		Low	0	1	0	0	0	0	0.25	1655	\$0	\$136,411,838
Midd	Fin	Ridgewood Rd	N. of Maplewood	Maplewood Rd	404	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1656	\$66,660	\$136,478,498
Tiv/Ports	Raw	Raw Water	Sak PS	St. Mary's	23150	24	Ductile Iron		6	N		Low	0	0	0	0	0	0	0	1657	\$5,208,750	\$141,687,248
New	Fin	Bancroft Ave		Coggeshall Ave	500	8	Ductile Iron	1/1/2002	7	N		Low	0	0	0	0	0	0	0	1658	\$82,500	\$141,769,748
New	Fin	Bellevue Ave	Ruggles Ave	Coggeshall Ave	5672	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1659	\$992,600	\$142,762,348
New	Fin	Castle Hill Ave	Commonwealth A	Harrison Ave	814	8	Ductile Iron	1/31/1991	18	N		Low	0	0	0	0	0	0	0	1660	\$134,310	\$142,896,658
New	Fin	Castle Hill Ave	Ridge Rd	Ella Ter	482	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1661	\$79,530	\$142,976,188
New	Fin	Castle Hill Ave		Ridge Rd	730	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1662	\$120,450	\$143,096,638
New	Fin	Girard Ave			1350	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1663	\$236,250	\$143,332,888
New	Fin	Halidon Terrace	Halidon Ave	Chastellux Ave	350	8	Ductile Iron	1/1/2009	0	N		Low	0	0	0	0	0	0	0	1664	\$57,750	\$143,390,638
New	Fin	Harrison Ave	W of Ridge Rd	Castle Hill Rd	975	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1665	\$170,625	\$143,561,263
New	Fin	Lakeview Ave			290	8	Ductile Iron	1/1/2008	1	N		Low	0	0	0	0	0	0	0	1666	\$47,850	\$143,609,113
New	Fin	Ledge Rd North	Lakeview Ave		562	8	Ductile Iron	7/1/2003	6	N		Low	0	0	0	0	0	0	0	1667	\$92,730	\$143,701,843
New	Fin	Ocean Ave	W of Green Bridge	E of Green Bridge	350	8	Ductile Iron	1/1/1995	14	N		Low	0	0	0	0	0	0	0	1668	\$57,750	\$143,759,593
New	Fin	Ocean Ave			3804	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1669	\$627,660	\$144,387,253
New	Fin	Ocean Ave	S of Jeffrey Rd	Coggeshall Ave	2035	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1670	\$335,775	\$144,723,028
New	Fin	Ridge Rd			376	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1671	\$62,040	\$144,785,068
Midd	Fin	Amesbury Circle	Oak Forest Dr	Loop	1380	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1672	\$227,700	\$145,012,768
Midd	Fin	Berkeley Ave	Wyatt Rd	Wyndham Hill R	3081	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1673	\$539,175	\$145,551,943
Midd	Fin	Berkeley Ave	Wyndham Hill Rd	Tally Ho Ct	885	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1674	\$154,875	\$145,706,818
Midd	Fin	Berkeley Ave	Tally Ho Ct	Green End Ave	651	12	Ductile Iron	1/1/1993	16	N		Low	0	0	0	0	0	0	0	1675	\$113,925	\$145,820,743
Midd	Fin	Busher Dr	Pasture Farm Dr	Loop	1670	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1676	\$275,550	\$146,096,293
Midd	Fin	Christine Ct	Busher Dr	John Kesson Ln	540	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1677	\$89,100	\$146,185,393
Midd	Fin	Commerce Dr				12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1678	\$0	\$146,185,393
Midd	Fin	Compton View Dr	S of Green End Ave	S of Lighthouse View Dr		8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1679	\$0	\$146,185,393
Midd	Fin	Corporate Pl				12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1680	\$0	\$146,185,393
Midd	Fin	Cross Country	Aquidneck Ave	Honeyman Ave		8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1681	\$0	\$146,185,393
Midd	Fin	Debbie Ct	Pasture Farm Dr	Busher Dr	345	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1682	\$56,925	\$146,242,318
Midd	Fin	East Main Rd	E of Valley Rd	Valley Rd	198	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1683	\$34,650	\$146,276,968
Midd	Fin	Gosset's Turn Rd				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1684	\$0	\$146,276,968
Midd	Fin	Greene Ln	West Main Rd	JH Dwyer Dr	1740	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1685	\$304,500	\$146,581,468
Midd	Fin	Honeyman Ave	Ward Ave	Cross Country	2315	8	Ductile Iron	Jan-02	7	N		Low	0	0	0	0	0	0	0	1686	\$381,975	\$146,963,443
Midd	Fin	Hunt Lane	Beagle Dr	Talley Ho Court	395	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1687	\$65,175	\$147,028,618
Midd	Fin	Laura Rd				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1688	\$0	\$147,028,618
Midd	Fin	Ocean View Drive	Aquidneck Ave S	Aquidneck Ave	1450	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1689	\$239,250	\$147,267,868
Midd	Fin	Olive Way				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1690	\$0	\$147,267,868
Midd	Fin	Pasture Farm Dr				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1691	\$0	\$147,267,868
Midd	Fin	Pequot Ln	Brown's Ln	Pocahontas Dr	1224	8	Ductile Iron	Jan-97	12	N		Low	0	0	0	0	0	0	0	1692	\$201,960	\$147,469,828
Midd	Fin	Samson Ln				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1693	\$0	\$147,469,828
Midd	Fin	Turner Rd	Green End Ave	Wyatt Rd	4970	12	Ductile Iron	Jan-03	6	N		Low	0	0	0	0	0	0	0	1694	\$869,750	\$148,339,578
Midd	Fin	Unity Dr				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1695	\$0	\$148,339,578
Midd	Fin	Ward Ave	Turner Rd	Columbia Rd	Jul-01	8	Ductile Iron	1/1/2003	6	N		Low	0	0	0	0	0	0	0	1696	\$95,370	\$148,434,948
Midd	Fin	Ward Ave	Columbia Rd stub	Honeyman Ave	250	8	Ductile Iron	1/1/2002	7	N		Low	0	0	0	0	0	0	0	1697	\$41,250	\$148,476,198
Midd	Fin	Wyatt Rd	Turner Rd - GV	Turner Rd - GV	30	12	Ductile Iron	1/1/2004	5	N		Low	0	0	0	0	0	0	0	1698	\$5,250	\$148,481,448

APPENDIX C

**WATER MAIN DATABASE
SORTED BY TOWN/STREET NAME**

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)																						
	Raw/					Exist	Exist			Dead												
Town	Fin	Street Name	From	To	Pipe Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	Age (years)	End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	Dead End	Total Rating	Pipe Ranking	Cost Estimate	Cum Cost Est
New/Midd	Fin	Middle Dam	Aquidneck Ave	N. of Aquidneck	2743	20	Ductile Iron	1971	33	N		Low	0	1	0	0	0	0	0.25	1635	\$548,600	\$548,600
New	Fin	Aborn St			172	6	AC	3/1/1949	60	Y	1	High	2.5	3	2.5	5	5	5	3.5	77	\$28,380	\$576,980
New	Fin	Aborn St			227	6	AC	12/1/1941	68	Y		High	2.5	3	0	5	5	5	3.125	152	\$37,455	\$614,435
New	Fin	Aborn St			73	6	AC	1/27/1953	56	Y		High	2.5	2	0	5	5	5	2.875	214	\$12,045	\$626,480
New	Fin	Aborn St			20	6	AC	3/1/1966	43	Y		High	2.5	2	0	5	5	5	2.875	215	\$3,300	\$629,780
New	Fin	Aborn St	Ellery Rd		22.5	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	433	\$3,713	\$633,493
New	Fin	Aborn St			33	6	AC			Y		High	2.5	0	0	5	5	5	2.375	434	\$5,445	\$638,938
New	Fin	Adm Kalbfus Rd	Broadway		361	8	Cast Iron	10/1/1934	75	N	1	Med	0	3	2.5	5	2.5	0	2.125	584	\$59,565	\$698,503
New	Fin	Adm Kalbfus Rd	Broadway	E of Hillside	1440	8	Cast Iron	7/1/1941	68	N	1	Med	0	3	2.5	5	2.5	0	2.125	585	\$237,600	\$936,103
New	Fin	Adm Kalbfus Rd	Broadway		29	8	Cast Iron	1/1/1923	86	N		Med	0	4	0	5	2.5	0	2	660	\$4,785	\$940,888
New	Fin	Adm Kalbfus Rd	RR Tracks	Rotary	609	8	AC	7/1/1979	30	N	1	Med	0	1	2.5	5	2.5	0	1.625	1017	\$100,485	\$1,041,373
New	Fin	Adm Kalbfus Rd	Third St	Easterly	32	8	Cast Iron	10/1/1955	54	N		Med	0	2	0	5	2.5	0	1.5	1044	\$5,280	\$1,046,653
New	Fin	Adm Kalbfus Rd		Rolling Green	162	8	AC	10/1/1955	54	N		Med	0	2	0	5	2.5	0	1.5	1045	\$26,730	\$1,073,383
New	Fin	Adm Kalbfus Rd	Rolling Green	RR Tracks	218	8	AC	9/1/1968	41	N		Med	0	2	0	5	2.5	0	1.5	1046	\$35,970	\$1,109,353
New	Fin	Adm Kalbfus Rd	Girard Ave	Hillside Ave	1024	12	AC		33	N		Med	0	1	0	5	2.5	0	1.25	1233	\$179,200	\$1,288,553
New	Fin	Albro St	Channing St	Van Zandt Ave	303.5	8	Ductile Iron		22	N		High	0	1	0	0	5	0	0.75	1464	\$50,078	\$1,338,630
New	Fin	Allens Ct	Spring St	southerly	142.47	2	Cem Lined	6/20/1894	110	Y		High	5	5	0	5	5	5	4.25	12	\$23,508	\$1,362,138
New	Fin	Almy Ct			32.55	6	Cast Iron	7/3/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	435	\$5,371	\$1,367,508
New	Fin	Almy Ct			289.04	6	AC	7/31/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	436	\$47,692	\$1,415,200
New	Fin	Almy St	Bliss Rd	County Street	806	16	Cast iron	9/1/1939	70	N		High	0	3	0	5	5	0	2	661	\$161,200	\$1,576,400
New	Fin	Alpond Dr			21	6	AC	4/1/1970	39	N		Low	2.5	1	0	5	0	0	1.625	1018	\$3,465	\$1,579,865
New	Fin	Alpond Dr			1011	8	AC	4/1/1970	39	N		Low	0	1	0	5	0	0	1	1382	\$166,815	\$1,746,680
New	Fin	America's Cup Ave	Thames St	Westerly	15	6	Cast Iron	6/1/1969	40	Y		High	2.5	2	0	5	5	5	2.875	216	\$2,475	\$1,749,155
New	Fin	America's Cup Ave	Long Wharf?		260	8	Cast Iron	6/1/1969	40	Y		High	0	2	0	5	5	5	2.25	545	\$42,900	\$1,792,055
New	Fin	Anderson Pl			132	1.5	Cem Lined	4/1/1906	103	Y		High	5	5	0	5	5	5	4.25	13	\$21,780	\$1,813,835
New	Fin	Andrew St	Ruggles Ave	End	618	8	PVC			Y		Med	0	0	0	2	2.5	5	1.05	1377	\$101,970	\$1,915,805
New	Fin	Ann St			57.68	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	761	\$9,517	\$1,925,322
New	Fin	Ann St			14.06	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	762	\$2,320	\$1,927,642
New	Fin	Ann St			400.95	4	Ductile Iron	6/1/1999	10	N		High	5	0	0	0	5	0	1.75	855	\$66,157	\$1,993,799
New	Fin	Annandale Rd	Narraqansett Ave	Memorial Blvd	2967	20	Cast iron	8/1/1939	70	N	3	High	0	3	5	5	5	0	2.75	282	\$593,400	\$2,587,199
New	Fin	Annandale Ter	Annandale Rd		46	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	170	\$7,590	\$2,594,789
New	Fin	Annandale Ter	Annandale Rd	Loop	444	1.5	Iron Pipe			N		High	5	0	0	5	5	0	2.5	396	\$73,260	\$2,668,049
New	Fin	Annandale Ter	Annandale Rd	Loop	220	1.5	Iron Pipe			N		High	5	0	0	5	5	0	2.5	397	\$36,300	\$2,704,349
New	Fin	Anthony St	Pope St	Bowery St	347	6	Cast Iron	1/1/1915	94	N		High	2.5	4	0	5	5	0	2.875	217	\$57,255	\$2,761,604
New	Fin	Appleby St	Tilden Ave	Farewell St	417	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1465	\$68,805	\$2,830,409
New	Fin	Apthorp Ave	Bedlow Ave	Canonicus Ave	513.73	6	Cast Iron	4/21/1916	93	N		Med	2.5	4	0	5	2.5	0	2.625	306	\$84,765	\$2,915,174
New	Fin	Armstrong Pl			156.25	1.5	Cem Lined	4/1/1931	78	Y		High	5	3	0	5	5	5	3.75	47	\$25,781	\$2,940,955
New	Fin	Arnold Ave			115	1.5	Cem Lined	6/25/1954	55	Y		High	5	2	0	5	5	5	3.5	78	\$18,975	\$2,959,930
New	Fin	Arnold Ave			26.2	6	Cast iron	7/1/1923	86	Y		High	2.5	4	0	5	5	5	3.375	106	\$4,323	\$2,964,253
New	Fin	Arnold Ave			396	6	Cast iron	10/26/1928	81	Y		High	2.5	4	0	5	5	5	3.375	107	\$65,340	\$3,029,593
New	Fin	Ashurst Pl	Calvert Sr		175	2	Cem Lined	1/1/1895	109	N		High	5	5	0	5	5	0	3.75	48	\$28,875	\$3,058,468
New	Fin	Ashurst Pl		Cranston Ave	20	6	Cast iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	307	\$3,300	\$3,061,768
New	Fin	Atlantic Ave	Winans Ave		1119	8	AC	6/1/1978	31	Y		Low	0	1	0	5	0	5	1.5	1047	\$184,635	\$3,246,403
New	Fin	Atlantic St		Houston Ave	775	8	AC	12/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1048	\$127,875	\$3,374,278
New	Fin	Atlantic St	Carroll Ave		54	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1636	\$8,910	\$3,383,188
New	Fin	Ayrault Ct	Easterly	Everett Pl	200	1.5	Cem Lined	4/1/1882	122	N		High	5	5	0	5	5	0	3.75	49	\$33,000	\$3,416,188
New	Fin	Ayrault Ct	Ayrault St	Easterly	73	1.5	Iron Pipe	6/1/1960	49	N		High	5	2	0	5	5	0	3	171	\$12,045	\$3,428,233
New	Fin	Ayrault St	Broadway	Kay St	990	6	Cast iron		76	N	1	High	2.5	3	2.5	5	5	0	3	172	\$163,350	\$3,591,583
New	Fin	Ayrault St	Greenough Pl	Catherine St	583	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1049	\$102,025	\$3,693,608
New	Fin	Ayrault St	Kay St	Greenough Pl	620	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1050	\$124,000	\$3,817,608
New	Fin	Bacheller St			417	1.5	Iron Pipe		117	N	1	High	5	5	2.5	5	5	0	4.125	24	\$68,805	\$3,886,413
New	Fin	Bacheller St			10	4	Cast Iron	6/1/1903	106	N		High	5	5	0	5	5	0	3.75	50	\$1,650	\$3,888,063
New	Fin	Bancroft Ave	Bellevue Ave		42	8	Cast iron			N		Low	0	0	0	5	0	0	0.75	1466	\$6,930	\$3,894,993
New	Fin	Bancroft Ave		Coggeshall Ave	500	8	Ductile Iron	1/1/2002	7	N		Low	0	0	0	0	0	0	0	1658	\$82,500	\$3,977,493
New	Fin	Barbara St	Bliss Mine Rd	Kay Blvd	410	8	AC	4/18/1950	59	N		High	0	2	0	5	5	0	1.75	856	\$67,650	\$4,045,143
New	Fin	Barbara St			17	8	Cast Iron	8/5/1950	59	N		High	0	2	0	5	5	0	1.75	857	\$2,805	\$4,047,948
New	Fin	Barclay Square			22	4	Cast Iron			Y		High	5	0	0	5	5	5	3	173	\$3,630	\$4,051,578
New	Fin	Barclay Square	Cliff Ave Ext	End	392	4	AC			Y		High	5	0	0	5	5	5	3	174	\$64,680	\$4,116,258
New	Fin	Barney Ct	Barney St	Easterly	154.4	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	175	\$25,476	\$4,141,734
New	Fin	Barney St			21	6	Cast Iron	11/1/1976	33	N		High	2.5	1	0	5	5	0	2.125	586	\$3,465	\$4,145,199

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
New	Fin	Barney St	Spring St	Mt Vernon St	539	8	AC	11/1/1976	33	N		High	0	1	0	5	5	0	1.5	1051	\$88,935	\$4,234,134
New	Fin	Bartlett Ct	Broadway	Easterly	160	2	Iron Pipe	1/1/1913	96	Y		High	5	4	0	5	5	5	4	33	\$26,400	\$4,260,534
New	Fin	Bartlett Ct	Broadway	Easterly	19	4	Cast Iron			Y		High	5	0	0	5	5	5	3	176	\$3,135	\$4,263,669
New	Fin	Battery St	Washington St	Second St	363	6	Cast Iron	4/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	308	\$59,895	\$4,323,564
New	Fin	Battery St	Second St	Third St	226	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1052	\$37,290	\$4,360,854
New	Fin	Bayside Ave	Van Zandt Ave		154.43	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	177	\$25,481	\$4,386,335
New	Fin	Bayside Ave	Van Zandt Ave	Sycamore	336	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	763	\$55,440	\$4,441,775
New	Fin	Bayside Village			30	6	AC	8/1/1972	37	Y		High	2.5	1	0	5	5	5	2.625	309	\$4,950	\$4,446,725
New	Fin	Bayside Village	Dyre St	Third St	1038	8	AC	8/1/1972	37	N		High	0	1	0	5	5	0	1.5	1053	\$171,270	\$4,617,995
New	Fin	Bayview Ave			40	6	Cast Iron	6/1/1923	86	N		High	2.5	4	0	5	5	0	2.875	218	\$6,600	\$4,624,595
New	Fin	Bayview Ave	Broadway		550	4	Cast Iron		30	N		High	5	1	0	5	5	0	2.75	283	\$90,750	\$4,715,345
New	Fin	Bayview Ave		Warner St	43	6	Cast Iron	1/1/1966	43	N		High	2.5	2	0	5	5	0	2.375	437	\$7,095	\$4,722,440
New	Fin	Beach Ave	Cliff Ave	R I Ave South	483	8	AC	4/1/1947	62	N		High	0	3	0	5	5	0	2	662	\$79,695	\$4,802,135
New	Fin	Beacon Ct			1026	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1467	\$169,290	\$4,971,425
New	Fin	Beacon Hill Rd			1081	8	AC		22	N		Low	0	1	0	5	0	0	1	1383	\$178,365	\$5,149,790
New	Fin	Beacon Hill Rd			964	12	AC		22	N		Low	0	1	0	5	0	0	1	1384	\$168,700	\$5,318,490
New	Fin	Beacon Hill Rd	Harrison Ave	W. of Harrison A	216	12	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1468	\$37,800	\$5,356,290
New	Fin	Beacon Hill Rd	W. of Harrison Av	Brenton Rd	786	12	PVC		22	N		Low	0	1	0	2	0	0	0.55	1535	\$137,550	\$5,493,840
New	Fin	Beacon Hill Rd			1668	12	PVC		22	N		Low	0	1	0	2	0	0	0.55	1536	\$291,900	\$5,785,740
New	Fin	Bedlow Ave	Broadway	Malbone Rd	1841	12	AC	1/1/1965	44	N		High	0	2	0	5	5	0	1.75	858	\$322,175	\$6,107,915
New	Fin	Bedlow Pl	Bedlow Ave		356	2	Cem Lined	5/26/1927	82	Y		Med	5	4	0	5	2.5	5	3.75	51	\$58,740	\$6,166,655
New	Fin	Bellevue Ave	Kay St/Touro St	Narragansett Av	4560	12	Cast Iron	11/1/1924	85	N		High	0	4	0	5	5	0	2.25	546	\$798,000	\$6,964,655
New	Fin	Bellevue Ave	Narragansett Ave	Ruggles Ave	2690	12	Cast Iron	4/1/1924	85	N		Med	0	4	0	5	2.5	0	2	663	\$470,750	\$7,435,405
New	Fin	Bellevue Ave	Ruggles Ave	Coggeshall Ave	5672	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1659	\$992,600	\$8,428,005
New	Fin	Bellevue Ct	Bellevue Ave	Westerly	567.3	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	178	\$93,605	\$8,521,610
New	Fin	Bellevue Ct	Bellevue Ave	Westerly	30	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	438	\$4,950	\$8,526,560
New	Fin	Berkeley Ave	Sylvan St	Annandale Rd	946	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	764	\$156,090	\$8,682,650
New	Fin	Berkeley Ave	Bellevue Ave	Sylvan St	823	8	Ductile Iron	9/1/2001	8	N		High	0	0	0	0	5	0	0.5	1537	\$135,795	\$8,818,445
New	Fin	Berkeley Ter	Berkeley Ave		155.5	2	Cem Lined	7/1/1925	84	Y		High	5	4	0	5	5	5	4	34	\$25,658	\$8,844,102
New	Fin	Binney St			172	6	AC	8/30/1954	55	N		Low	2.5	2	0	5	0	0	1.875	765	\$28,380	\$8,872,482
New	Fin	Binney St			166	6	AC	4/1/1963	46	N		Low	2.5	2	0	5	0	0	1.875	766	\$27,390	\$8,899,872
New	Fin	Binney St			100	6	AC	11/1/1964	45	N		Low	2.5	2	0	5	0	0	1.875	767	\$16,500	\$8,916,372
New	Fin	Blackwell Pl			352.3	2	Cem Lined	6/16/1927	82	Y		Med	5	4	0	5	2.5	5	3.75	52	\$58,130	\$8,974,502
New	Fin	Bliss Mine Rd	Ellery Rd	Town Line	1340	12	Cast Iron	8/1/1943	66	N		High	0	3	0	5	5	0	2	664	\$234,500	\$9,209,002
New	Fin	Bliss Rd	Almy St	Eustis Ave	239	16	Cast iron	8/1/1939	70	N		High	0	3	0	5	5	0	2	665	\$47,800	\$9,256,802
New	Fin	Bliss Rd	Broadway	Gibbs Ave	530	16	Cast iron	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	859	\$106,000	\$9,362,802
New	Fin	Bliss Rd	Eustis Ave	Fenner Ave	705	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1054	\$123,375	\$9,486,177
New	Fin	Bliss Rd	Gibbs Ave	Almy St	880	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1055	\$176,000	\$9,662,177
New	Fin	Bliss Rd	Fenner Ave	Town Line	515	12	Cast iron	5/1/1945	64	N		High	0	3	0	5	5	0	2	666	\$90,125	\$9,752,302
New	Fin	Boss Ct	Wellington Ave	S of Wellington	167.76	2	Cast Iron	01/01/1893	118	Y		Med	5	5	0	5	2.5	5	4	35	\$27,680	\$9,779,982
New	Fin	Boughton Rd	Broadway		712	6	Cast Iron	9/30/1929	80	N		High	2.5	4	0	5	5	0	2.875	219	\$117,480	\$9,897,462
New	Fin	Bowery St	Spring St	Bellevue Ave	1129	6	Cast Iron	1/1/1915	94	N		High	2.5	4	0	5	5	0	2.875	220	\$186,285	\$10,083,747
New	Fin	Bowler Ln	Brinley St	Easterly	209.94	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	179	\$34,640	\$10,118,387
New	Fin	Bradford Ave			11.74	6	Cast Iron	04/29/1893	111	N		High	2.5	5	0	5	5	0	3.125	153	\$1,937	\$10,120,325
New	Fin	Bradford Ave	Friendship St		12.06	6	AC	1/1/1953	56	N		High	2.5	2	0	5	5	0	2.375	439	\$1,990	\$10,122,314
New	Fin	Bradford Ave		Bliss	493.31	6	AC	10/1/1953	56	N		High	2.5	2	0	5	5	0	2.375	440	\$81,396	\$10,203,711
New	Fin	Braman St	Farewell St		292	6	Ductile Iron	9/1/1978	31	Y		High	2.5	1	0	0	5	5	1.875	768	\$48,180	\$10,251,891
New	Fin	Brandt St			170.23	6	Cast Iron	1/1/1900	109	N		High	2.5	5	0	5	5	0	3.125	154	\$28,088	\$10,279,979
New	Fin	Brandt St	Van Zandt Ave		23.62	6	Cast Iron	6/1/1930	79	N		High	2.5	3	0	5	5	0	2.625	310	\$3,897	\$10,283,876
New	Fin	Brandt St			134	6	AC	5/1/1948	61	N		High	2.5	3	0	5	5	0	2.625	311	\$22,110	\$10,305,986
New	Fin	Brandt St		Evarts	16	6	Cast Iron	5/1/1948	61	N		High	2.5	3	0	5	5	0	2.625	312	\$2,640	\$10,308,626
New	Fin	Brenton Rd	Ocean Ave	Northerly	269.44	2	Iron Pipe	5/1/1956	53	N		Low	5	2	0	5	0	0	2.5	398	\$44,458	\$10,353,083
New	Fin	Brenton Rd	Harrison Ave	Beacon Hill Rd	1395	12	Cast iron	9/1/1935	74	N		Low	0	3	0	5	0	0	1.5	1056	\$244,125	\$10,597,208
New	Fin	Brenton Rd	Goose Neck Cove	Ocean Ave.	539	12	PVC	12/1/1988	21	Y		Low	0	1	0	2	0	5	1.05	1378	\$94,325	\$10,691,533
New	Fin	Brenton Rd	Hammersmith Rd	Cherry Creek Rd	1355	12	PVC			N		Low	0	0	0	2	0	0	0.3	1631	\$237,125	\$10,928,658
New	Fin	Brenton Rd	Hammersmith Rd	Goose Neck Co	1001	12	Ductile Iron	10/1/1987	22	N		Low	0	1	0	0	0	0	0.25	1637	\$175,175	\$11,103,833
New	Fin	Brewer St	Thames St	Spring St	404	4	Ductile Iron			N		High	5	0	0	0	5	0	1.75	860	\$66,660	\$11,170,493
New	Fin	Bridge St			193	6	Ductile Iron	9/1/1978	31	N		High	2.5	1	0	0	5	0	1.375	1196	\$31,845	\$11,202,338
New	Fin	Bridge St	Frank Corridor St	Washington St	386	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1469	\$63,690	\$11,266,028
New	Fin	Bridge St	Thames St	America's Cup A	542	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1470	\$89,430	\$11,355,458
New	Fin	Brinley St	Kay St		38	8	AC		34	N		High	0	1	0	5	5	0	1.5	1057	\$6,270	\$11,361,728

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Brinley St	Kay St	Catherine St	760	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1538	\$125,400	\$11,487,128
New	Fin	Broadway	Cranston Ave	Newport Ave	900	10	Cast Iron			N		High	0	0	0	5	5	0	1.25	1234	\$157,500	\$11,644,628
New	Fin	Broadway	Powell Ave	Malbone Rd	550	8	Cast Iron			N		High	0	0	0	5	5	0	1.25	1235	\$90,750	\$11,735,378
New	Fin	Broadway	Malbone Rd	Adm Kalbfus Rd	2990	12	Cast Iron			N		High	0	0	0	5	5	0	1.25	1236	\$523,250	\$12,258,628
New	Fin	Broadway	Equality Park Pl	Cranston Ave	367.3	12	Cast Iron			N		High	0	0	0	5	5	0	1.25	1237	\$64,278	\$12,322,906
New	Fin	Broadway/Washington	Thames St	Equality Park Pl	2288.8	12	Cast Iron	9/1/1928	81	N		High	0	4	0	5	5	0	2.25	547	\$400,540	\$12,723,446
New	Fin	Brooks Ave	Broadway	Ledyard St	685	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1058	\$113,025	\$12,836,471
New	Fin	Bull St	Spring St	Kay St	1125	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	769	\$185,625	\$13,022,096
New	Fin	Burdick Ave	Malbone Rd	Thurston Ave	780	6	Cast Iron	9/19/1917	92	N		High	2.5	4	0	5	5	0	2.875	221	\$128,700	\$13,150,796
New	Fin	Burnside Ave	Warner St	Wheatland Blvd	916	8	AC	7/1/1969	40	N		High	0	2	0	5	5	0	1.75	861	\$151,140	\$13,301,936
New	Fin	Bush St	Mann Ave	Ayrault St	286	4	Ductile Iron	4/1/1999	10	N		High	5	0	0	0	5	0	1.75	862	\$47,190	\$13,349,126
New	Fin	Butler St	Evert St	Southmayd St	349	6	Cast Iron	4/12/1905	104	N		Med	2.5	5	0	5	2.5	0	2.875	222	\$57,585	\$13,406,711
New	Fin	Butler St	Van Zandt Ave	Evert St	346	6	Cast Iron	12/1/1939	70	N		Med	2.5	3	0	5	2.5	0	2.375	441	\$57,090	\$13,463,801
New	Fin	Byrnes St			100	2	WI - CL			Y	1	High	5	0	2.5	5	5	5	3.375	108	\$16,500	\$13,480,301
New	Fin	Caleb Earl St		Wheatland Blvd	5	4	Cast iron			N		High	5	0	0	5	5	0	2.5	399	\$825	\$13,481,126
New	Fin	Caleb Earl St	Broadway	Wheatland Blvd	254	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1471	\$41,910	\$13,523,036
New	Fin	Callender Ave	Wheatland Blvd	Warner St	950	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1472	\$156,750	\$13,679,786
New	Fin	Calvert St	Broadway	Cranston Ave	923	6	Cast Iron	5/25/1914	95	N	1	High	2.5	4	2.5	5	5	0	3.25	124	\$152,295	\$13,832,081
New	Fin	Calvert St	Cranston Ave		20.5	6	Cast Iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	313	\$3,383	\$13,835,463
New	Fin	Canonicus Ave	Broadway	Sagamore St	956.67	6	Cast iron	10/17/1909	100	N		Med	2.5	5	0	5	2.5	0	2.875	223	\$157,851	\$13,993,314
New	Fin	Carroll Ave	Harrison Ave	Ocean Ave	4225	10	Cast iron	8/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	863	\$739,375	\$14,732,689
New	Fin	Casey Ct	Coggeshall Ave		314	2	Cem Lined	1/1/1888	116	Y		Low	5	5	0	5	0	5	3.75	53	\$51,810	\$14,784,499
New	Fin	Casey Ct		End	80	2	WI - CL	8/1/1940	69	Y	1	Low	5	3	2.5	5	0	5	3.625	75	\$13,200	\$14,797,699
New	Fin	Casino Ter	Bellevue Ave	End	221	2	Cem Lined	10/1/1932	77	Y		High	5	3	0	5	5	5	3.75	54	\$36,465	\$14,834,164
New	Fin	Casino Ter	Bellevue Ave		20.4	6	Cast iron	10/1/1924	85	Y		High	2.5	4	0	5	5	5	3.375	109	\$3,366	\$14,837,530
New	Fin	Castle Hill Ave	Ridge Rd	Commonwealth	134	8	Cast Iron	7/1/1938	71	N		Low	0	3	0	5	0	0	1.5	1059	\$22,110	\$14,859,640
New	Fin	Castle Hill Ave	Commonwealth A	Harrison Ave	814	8	Ductile Iron	1/31/1991	18	N		Low	0	0	0	0	0	0	0	1660	\$134,310	\$14,993,950
New	Fin	Castle Hill Ave	Ridge Rd	Ella Ter	482	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1661	\$79,530	\$15,073,480
New	Fin	Castle Hill Ave	Ridge Rd		730	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1662	\$120,450	\$15,193,930
New	Fin	Caswell Ave	Bliss Rd	End	790	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1385	\$130,350	\$15,324,280
New	Fin	Catherine St	Gibbs Ave	Easterly	438	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	180	\$72,270	\$15,396,550
New	Fin	Catherine St	Bellevue Ave	Greenough Pl	1054	6	Cast Iron			N	1	High	2.5	0	2.5	5	5	0	2.25	548	\$173,910	\$15,570,460
New	Fin	Catherine St	Greenough Pl	Prairie Ave	1179	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1060	\$206,325	\$15,776,785
New	Fin	Catherine St	Prairie Ave	Gibbs Ave	480	8	Ductile Iron	1/1/1999	10	N		High	0	0	0	0	5	0	0.5	1539	\$79,200	\$15,855,985
New	Fin	Central St	Bull St	Mann Ave	554	8	Ductile Iron	1/1/2001	8	N		High	0	0	0	0	5	0	0.5	1540	\$91,410	\$15,947,395
New	Fin	Champlin Pl	Ellery Rd		57.5	6	Cast iron	8/15/1932	77	N		High	2.5	3	0	5	5	0	2.625	314	\$9,488	\$15,956,882
New	Fin	Champlin Pl	Champlin St	Ellery Rd	501.5	6	Cast Iron	6/1/1929	80	N		High	2.5	4	0	5	5	0	2.875	224	\$82,748	\$16,039,630
New	Fin	Champlin Pl North	Ellery Rd	Northerly	71.5	6	Cast Iron	12/1/1938	71	Y		High	2.5	3	0	5	5	5	3.125	155	\$11,798	\$16,051,427
New	Fin	Champlin Pl North			95.5	6	Cast Iron	7/1/1939	70	Y		High	2.5	3	0	5	5	5	3.125	156	\$15,758	\$16,067,185
New	Fin	Champlin Pl North			338	6	AC	4/1/1950	59	Y		High	2.5	2	0	5	5	5	2.875	225	\$55,770	\$16,122,955
New	Fin	Champlin Pl North	Ellery Rd		20	8	Cast Iron	12/1/1938	71	Y		High	0	3	0	5	5	5	2.5	400	\$3,300	\$16,126,255
New	Fin	Champlin St	Prairie St	Rhode Island Av	282	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1061	\$56,400	\$16,182,655
New	Fin	Champlin St	Eustis Ave	Prairie Ave	950	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1541	\$156,750	\$16,339,405
New	Fin	Channing Pl	Channing St	Warner St	344.7	4	Cast Iron	10/1/1914	95	N		High	5	4	0	5	5	0	3.5	79	\$56,876	\$16,396,280
New	Fin	Channing St	Malbone Rd	Hall Ave	899	8	AC	1/1/1960	49	N		High	0	2	0	5	5	0	1.75	864	\$148,335	\$16,544,615
New	Fin	Chapel St	Memorial Blvd		155	8	Cast iron	4/1/1945	64	N		High	0	3	0	5	5	0	2	667	\$25,575	\$16,570,190
New	Fin	Chapel St	Memorial Blvd	Old Beach Rd	1023	8	AC	7/1/1945	64	N		High	0	3	0	5	5	0	2	668	\$168,795	\$16,738,985
New	Fin	Chapel St	Old Beach Rd		14.3	8	Cast Iron	8/1/1951	58	N		High	0	2	0	5	5	0	1.75	865	\$2,360	\$16,741,345
New	Fin	Charles St	Coddington St	Marlborough St	210	6	Cast Iron	1/1/1922	87	N		High	2.5	4	0	5	5	0	2.875	226	\$34,650	\$16,775,995
New	Fin	Charles St	N Baptist St	Coddington St	253	8	AC	8/1/1968	41	N		High	0	2	0	5	5	0	1.75	866	\$41,745	\$16,817,740
New	Fin	Chartier Cir			1760	8	AC	8/1/1959	50	N		Low	0	2	0	5	0	0	1.25	1238	\$290,400	\$17,108,140
New	Fin	Chase St	Willow St	Poplar St	204	8	Ductile Iron	9/1/2001	8	N		High	0	0	0	0	5	0	0.5	1542	\$33,660	\$17,141,800
New	Fin	Chastellux Ave	Harrison Ave		25	6	Cast Iron			N		Med	2.5	0	0	5	2.5	0	1.625	1019	\$4,125	\$17,145,925
New	Fin	Chastellux Ave	Wellington Ave	Harrison Ave	1603	8	AC	5/1/1963	46	N		Med	0	2	0	5	2.5	0	1.5	1062	\$264,495	\$17,410,420
New	Fin	Cherry St	Second St	Third St	207	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	401	\$34,155	\$17,444,575
New	Fin	Cherry St	Third St	End	315	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1386	\$51,975	\$17,496,550
New	Fin	Chestnut St	Washington St	Third St	560	8	AC	6/1/1965	44	N		High	0	2	0	5	5	0	1.75	867	\$92,400	\$17,588,950
New	Fin	Christie's Landing	Thames St	Westerly	121	8	PVC	5/1/1982	27	Y		High	0	1	0	2	5	5	1.55	1043	\$19,965	\$17,608,915
New	Fin	Christie's Landing	Thames St		18	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1387	\$2,970	\$17,611,885
New	Fin	Church St	Spring St		30	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	770	\$4,950	\$17,616,835
New	Fin	Church St	Thames St	Spring St	587	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1473	\$96,855	\$17,713,690

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
New	Fin	Church St	Spring St	Bellevue Ave	951	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1474	\$156,915	\$17,870,605
New	Fin	Clarke St	Touro St	Mary St	477	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1475	\$78,705	\$17,949,310
New	Fin	Clay St	Narragansett Ave	Parker Ave	845.77	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	771	\$139,552	\$18,088,862
New	Fin	Cliff Ave	Dresser St	Cliff Ave Ext	92	6	Cast Iron	8/21/1931	78	Y		High	2.5	3	0	5	5	5	3.125	157	\$15,180	\$18,104,042
New	Fin	Cliff Ave	S of Merton Rd	Dresser St	250	6	Cast Iron	2/1/1930	79	N		High	2.5	3	0	5	5	0	2.625	315	\$41,250	\$18,145,292
New	Fin	Cliff Ave	Memorial Blvd	S of Merton Rd	655	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1063	\$108,075	\$18,253,367
New	Fin	Cliff Ter	Cliff Ave	End	473.25	4	Cast Iron	5/3/1915	94	Y		High	5	4	0	5	5	5	4	36	\$78,086	\$18,331,453
New	Fin	Cliff Ter	Cliff Ave		35	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	442	\$5,775	\$18,337,228
New	Fin	Clinton Ave	Broadway	Warner St	772.38	4	Cast Iron	1/1/1911	98	N		High	5	4	0	5	5	0	3.5	80	\$127,443	\$18,464,671
New	Fin	Coddington St	Thames St		16	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	772	\$2,640	\$18,467,311
New	Fin	Coddington St	Charles St	Farewell St	280	8	AC	8/1/1968	41	N		High	0	2	0	5	5	0	1.75	868	\$46,200	\$18,513,511
New	Fin	Coddington St	Thames St	Charles St	156	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1476	\$25,740	\$18,539,251
New	Fin	Coddington Whf	Thames St		14.2	2	Brass	7/1/1929	80	Y		High	5	4	0	5	5	5	4	37	\$2,343	\$18,541,594
New	Fin	Coddington Whf	Thames St	Kirwin's 5th War	370	1.5	Iron Pipe	4/29/1886	118	N		High	5	5	0	5	5	0	3.75	55	\$61,050	\$18,602,644
New	Fin	Coggeshall Ave	Ruggles Ave	Bellevue Ave	4443	12	Cast iron	5/28/1909	100	N		Low	0	5	0	5	0	0	2	669	\$777,525	\$19,380,169
New	Fin	Coggeshall Ave	Morton Ave	Ruggles Ave	1934	12	Ductile Iron	5/1/1983	26	N		Med	0	1	0	0	2.5	0	0.5	1543	\$338,450	\$19,718,619
New	Fin	Collins St	Broadway	Wheatland Blvd	306	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1477	\$50,490	\$19,769,109
New	Fin	Colonial St	Broadway		207	4	Cast Iron	7/20/1904	105	Y	1	High	5	5	2.5	5	5	5	4.625	2	\$34,155	\$19,803,264
New	Fin	Colonial St	Broadway		39.66	4	Cast Iron	7/20/1904	105	Y		High	5	5	0	5	5	5	4.25	14	\$6,544	\$19,809,808
New	Fin	Commercial Whf	W of Thames St	W of Thames St	101	2	Iron Pipe	10/1/1940	69	Y		High	5	3	0	5	5	5	3.75	56	\$16,665	\$19,826,473
New	Fin	Commercial Whf	W of Thames St	End	69	6	Cast Iron	1/1/1880	124	Y		High	2.5	5	0	5	5	5	3.625	76	\$11,385	\$19,837,858
New	Fin	Commercial Whf	W of Thames St	W of Thames St	186	6	Cast Iron	1/1/1923	86	Y		High	2.5	4	0	5	5	5	3.375	110	\$30,690	\$19,868,548
New	Fin	Commercial Whf	Thames St	Westerly	400	8	AC	3/1/1950	59	Y		High	0	2	0	5	5	5	2.25	549	\$66,000	\$19,934,548
New	Fin	Commonwealth Ave	Castle Hill Ave	Mary Jane Ln	633	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1197	\$104,445	\$20,038,993
New	Fin	Commonwealth Ave	Mary Jane Ln	Winans Ave	267	8	AC	11/1/1971	38	N		Low	0	1	0	5	0	0	1	1388	\$44,055	\$20,083,048
New	Fin	Commonwealth Ave	Castle Hill Ave		36	6	Ductile Iron	5/1/2001	8	N		Low	2.5	0	0	0	0	0	0.625	1533	\$5,940	\$20,088,988
New	Fin	Commonwealth Ave	Winans Ave	Southerly	544	6	Ductile Iron	12/1/1997	12	N		Low	2.5	0	0	0	0	0	0.625	1534	\$89,760	\$20,178,748
New	Fin	Congdon Ave	Gould St/Tilley Av	Van Zandt Ave	745	8	Cast Iron	7/1/1939	70	N		High	0	3	0	5	5	0	2	670	\$122,925	\$20,301,673
New	Fin	Connection St	Thames St	Marchant St	555	6	Cast Iron	8/1/1947	62	N		Med	2.5	3	0	5	2.5	0	2.375	443	\$91,575	\$20,393,248
New	Fin	Connection St	Marchant St	Roseneath Ave	675	8	AC	12/1/1962	47	N		Med	0	2	0	5	2.5	0	1.5	1064	\$111,375	\$20,504,623
New	Fin	Connection St Ext	Roseneath Ave	Westerly	186	6	Ductile Iron			Y		Med	2.5	0	0	0	2.5	5	1.375	1198	\$30,690	\$20,535,313
New	Fin	Connell Hwy	N of Dyer St	N of Rotary	1289	12	AC	8/1/1954	55	N	1	High	0	2	2.5	5	5	0	2.125	587	\$225,575	\$20,760,888
New	Fin	Connell Hwy	Dyer St	Northerly	377	12	AC	9/1/1953	56	N		High	0	2	0	5	5	0	1.75	869	\$65,975	\$20,826,863
New	Fin	Connell Hwy	N of Motel 6	Maple Ave	715	12	AC	3/1/1955	54	N		High	0	2	0	5	5	0	1.75	870	\$125,125	\$20,951,988
New	Fin	Connell Hwy	Van Zandt Ave	Northerly	832	12	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	871	\$145,600	\$21,097,588
New	Fin	Connell Hwy		Bridge Crossing	560	12	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	872	\$98,000	\$21,195,588
New	Fin	Connell Hwy	Bridge Crossing		160	12	Cast Iron	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	873	\$28,000	\$21,223,588
New	Fin	Connell Hwy	Bridge Crossing	Dyer St	276	12	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	874	\$48,300	\$21,271,888
New	Fin	Connell Hwy	N of Rotary	Northerly	622	12	AC	7/1/1969	40	N		High	0	2	0	5	5	0	1.75	875	\$108,850	\$21,380,738
New	Fin	Connell Hwy	Northerly	N end of Mall	405	12	AC	11/1/1973	36	N		High	0	1	0	5	5	0	1.5	1065	\$70,875	\$21,451,613
New	Fin	Connell Hwy	N end of Mall	opp One Stop	290	12	AC	7/1/1977	32	N		High	0	1	0	5	5	0	1.5	1066	\$50,750	\$21,502,363
New	Fin	Connell Hwy	Van Zandt Ave		3	8	Cast Iron			N		High	0	0	0	5	5	0	1.25	1239	\$495	\$21,502,858
New	Fin	Connell Hwy	opp One Stop	Motel 6	326	12	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1544	\$57,050	\$21,559,908
New	Fin	Connell Hwy	Motel 6	Northerly	334	12	Ductile Iron	2/1/1997	12	N		High	0	0	0	0	5	0	0.5	1545	\$58,450	\$21,618,358
New	Fin	Conrad Ct	Roseneath Ave	End	185	6	Ductile Iron			Y		Med	2.5	0	0	0	2.5	5	1.375	1199	\$30,525	\$21,648,883
New	Fin	Corne St	Mill St	Pelham St	234	6	Cast Iron	4/1/1927	82	N		High	2.5	4	0	5	5	0	2.875	227	\$38,610	\$21,687,493
New	Fin	Corridor St		Marlborough St	448	8	AC			N		High	0	0	0	5	5	0	1.25	1240	\$73,920	\$21,761,413
New	Fin	Corridor St	Bridge St	Southerly	54	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1546	\$8,910	\$21,770,323
New	Fin	Cottage St	Redwood St	Old Beach Rd	212.73	4	Cast Iron	1/1/1912	97	N		High	5	4	0	5	5	0	3.5	81	\$35,100	\$21,805,423
New	Fin	Cottage St	Catherine St	Redwood St	234.33	6	Cast Iron	1/1/1926	83	N		High	2.5	4	0	5	5	0	2.875	228	\$38,664	\$21,844,088
New	Fin	Cottons Ct	Thames St	Easterly	147.55	2	Cem Lined			N		High	5	0	0	5	5	0	2.5	402	\$24,346	\$21,868,434
New	Fin	County St	Almy St	Broadway	617	16	Cast Iron	9/1/1939	70	N	1	High	0	3	2.5	5	5	0	2.375	444	\$123,400	\$21,991,834
New	Fin	Covell St	Farewell St	Edward St	252	6	Ductile Iron	9/1/1978	31	N		High	2.5	1	0	0	5	0	1.375	1200	\$41,580	\$22,033,414
New	Fin	Cozzens Ct	Thames St		180.12	2	Iron Pipe	4/15/1900	109	Y	2	High	5	5	5	5	5	5	5	1	\$29,720	\$22,063,133
New	Fin	Cozzens Ct			29.01	2	Copper	3/11/1996	13	Y		High	5	0	0	3	5	5	2.7	298	\$4,787	\$22,067,920
New	Fin	Cozzens Ct			20.12	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	445	\$3,320	\$22,071,240
New	Fin	Cranston Ave	Broadway		21.6	12	Cast iron	1/1/1923	86	N		High	0	4	0	5	5	0	2.25	550	\$3,780	\$22,075,020
New	Fin	Cranston Ave	Kay St	Broadway	1145	12	Cast iron	7/1/1939	70	N		High	0	3	0	5	5	0	2	671	\$200,375	\$22,275,395
New	Fin	Cross St	Bridge St	Poplar St	500	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1478	\$82,500	\$22,357,895
New	Fin	Cummings Rd	Bedlow Ave	Malbone Rd	590	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1547	\$97,350	\$22,455,245
New	Fin	Curry Ave	Bedlow Ave	Northerly	369.3	6	Cast iron	9/6/1916	93	N		Med	2.5	4	0	5	2.5	0	2.625	316	\$60,935	\$22,516,179

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Curry Ave			72	6	Cast iron	6/15/1915	94	N		Med	2.5	4	0	5	2.5	0	2.625	317	\$11,880	\$22,528,059
New	Fin	Curry Ave		Canonicus Ave	57.6	6	Cast iron	8/1/1923	86	N		Med	2.5	4	0	5	2.5	0	2.625	318	\$9,504	\$22,537,563
New	Fin	Cypress St/Washington	Van Zandt Ave	Third St	1031	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1241	\$180,425	\$22,717,988
New	Fin	Damon St	Gooseberry Rd		200	4	PVC			Y		Low	5	0	0	2	0	5	2.05	658	\$33,000	\$22,750,988
New	Fin	Damon St		End	52.25	4	Ductile Iron			Y		Low	5	0	0	0	0	5	1.75	876	\$8,621	\$22,759,610
New	Fin	Dana St	Eustis Ave		17	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	773	\$2,805	\$22,762,415
New	Fin	Dana St	Eustis Ave		138	8	AC	6/1/1977	32	N		High	0	1	0	5	5	0	1.5	1067	\$22,770	\$22,785,185
New	Fin	Dana St		Wilbur St	123	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1548	\$20,295	\$22,805,480
New	Fin	Daniel St	Ellery Rd		3	6	Cast iron	3/2/1953	56	Y		High	2.5	2	0	5	5	5	2.875	229	\$495	\$22,805,975
New	Fin	Daniel St	Ellery Rd	Northerly	450	8	AC			Y		High	0	0	0	5	5	5	1.75	877	\$74,250	\$22,880,225
New	Fin	Daniel St		Greenlaw Blvd	78	8	Ductile Iron	5/1/2000	9	Y		High	0	0	0	0	5	5	1	1389	\$12,870	\$22,893,095
New	Fin	Dartmouth St	Channing St	Warner St	400	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1549	\$66,000	\$22,959,095
New	Fin	Davis Ct	Callender St	Burnside Ave	180.25	2	Iron Pipe			N		High	5	0	0	5	5	0	2.5	403	\$29,741	\$22,988,836
New	Fin	Dean Ave	Spring St		24	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	404	\$3,960	\$22,992,796
New	Fin	Dean Ave	Spring St	Thames St	637	8	AC	10/1/1962	47	N		High	0	2	0	5	5	0	1.75	878	\$105,105	\$23,097,901
New	Fin	Dean Ave		Thames St	25	12	Ductile Iron	1/1/1979	30	N		High	0	1	0	0	5	0	0.75	1479	\$4,375	\$23,102,276
New	Fin	Dearborn St	Thames St	Spring St	574.89	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	774	\$94,857	\$23,197,133
New	Fin	Dearborn St	Thames St	Spring St	623	12	Cast iron	1/1/1967	42	N		High	0	2	0	5	5	0	1.75	879	\$109,025	\$23,306,158
New	Fin	DeBlois St	Bellevue Ave	End	129	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	405	\$21,285	\$23,327,443
New	Fin	DeBlois St	Bellevue Ave			6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	775	\$0	\$23,327,443
New	Fin	DeBlois St	Chapel St	thru Housing	509	8	AC	7/1/1968	41	N		High	0	2	0	5	5	0	1.75	880	\$83,985	\$23,411,428
New	Fin	Dennison St	Spring St	Thames St	470	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	406	\$77,550	\$23,488,978
New	Fin	Dennison St	Spring St		38	6	AC			N		High	2.5	0	0	5	5	0	1.875	776	\$6,270	\$23,495,248
New	Fin	Dexter St	Hillside Ave	Town Line	1160	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1638	\$191,400	\$23,686,648
New	Fin	Division St			342.68	4	Cast Iron	3/1/1932	77	N		High	5	3	0	5	5	0	3.25	125	\$56,542	\$23,743,190
New	Fin	Division St			587.34	4	Cast Iron	3/1/1932	77	N		High	5	3	0	5	5	0	3.25	126	\$96,911	\$23,840,101
New	Fin	Division St			46.71	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	777	\$7,707	\$23,847,808
New	Fin	Division St			44.71	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	778	\$7,377	\$23,855,185
New	Fin	Dixon St	Thames St		397.37	4	Tin	1/1/1886	118	N	2	High	5	5	5	5	5	0	4.5	6	\$65,566	\$23,920,751
New	Fin	Dixon St		Spring St	365.46	4	Cast Iron	1/1/1903	106	N		High	5	5	0	5	5	0	3.75	57	\$60,301	\$23,981,052
New	Fin	Dixon St	Spring St	Bellevue Ave	886.5	6	Cast Iron	5/1/1926	83	N		High	2.5	4	0	5	5	0	2.875	230	\$146,273	\$24,127,325
New	Fin	Doris Ter	Winans Ave	Chartier Cir	354	8	AC	8/1/1959	50	N		Low	0	2	0	5	0	0	1.25	1242	\$58,410	\$24,185,735
New	Fin	Downing St	Bellevue Ave	Liberty St	328.23	2	Cem Lined	1/1/1896	108	N		High	5	5	0	5	5	0	3.75	58	\$54,158	\$24,239,893
New	Fin	Downing St	Bellevue Ave		36	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	779	\$5,940	\$24,245,833
New	Fin	Dresser St	Annandale Rd	Cliff Ave	880	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1550	\$145,200	\$24,391,033
New	Fin	Dudley Ave	Hillside Ave	Sagamore St	820	6	AC	7/1/1952	57	N		High	2.5	2	0	5	5	0	2.375	446	\$135,300	\$24,526,333
New	Fin	Duke St	Washington Sq	Marlborough St	350	8	Ductile Iron	1/1/1978	31	N		Med	0	1	0	0	2.5	0	0.5	1551	\$57,750	\$24,584,083
New	Fin	Dyre St	Connell Hwy		12	8	Cast Iron	8/1/1954	55	N		High	0	2	0	5	5	0	1.75	881	\$1,980	\$24,586,063
New	Fin	Dyre St	Connell Hwy	E of RR tracks	123	8	AC	8/1/1954	55	N		High	0	2	0	5	5	0	1.75	882	\$20,295	\$24,606,358
New	Fin	Dyre St	E of RR tracks	Third St	560	8	Cast Iron			N	1	High	0	0	2.5	5	5	0	1.625	1020	\$92,400	\$24,698,758
New	Fin	Eadie St	Gibbs Ave	Whitwell Ave	357	6	Cast Iron	5/12/1937	72	N		High	2.5	3	0	5	5	0	2.625	319	\$58,905	\$24,757,663
New	Fin	Earl Ave	Morton Ave		42	6	Cast Iron			Y		Med	2.5	0	0	5	2.5	5	2.125	588	\$6,930	\$24,764,593
New	Fin	Earl Ave	Morton Ave	Bateman Ave	870	8	AC	9/1/1979	30	Y		Med	0	1	0	5	2.5	5	1.75	883	\$143,550	\$24,908,143
New	Fin	East Bowery St	Middleton Ave	Annandale Rd	430	6	Cast Iron			N	3	High	2.5	0	5	5	5	0	2.625	320	\$70,950	\$24,979,093
New	Fin	East Bowery St	Bellevue Ave	Middleton Ave	1315	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1552	\$216,975	\$25,196,068
New	Fin	East St	Pope St	End	270	8	AC	1/2/1970	39	Y		High	0	1	0	5	5	5	2	672	\$44,550	\$25,240,618
New	Fin	Eastnor Rd	Roseneath Ave		36	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1021	\$5,940	\$25,246,558
New	Fin	Eastnor Rd	Carroll Ave	Roseneath Ave	958	8	AC	5/1/1965	44	N		Med	0	2	0	5	2.5	0	1.5	1068	\$158,070	\$25,404,628
New	Fin	Eastnor Rd	Carroll Ave			8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1639	\$0	\$25,404,628
New	Fin	Eastnor Rd Ext	Roseneath Ave	Westerly	210	6	AC	4/1/1950	59	N		Med	2.5	2	0	5	2.5	0	2.125	589	\$34,650	\$25,439,278
New	Fin	Eastnor Rd Ext			198	6	AC	10/1/1960	49	N		Med	2.5	2	0	5	2.5	0	2.125	590	\$32,670	\$25,471,948
New	Fin	Eastnor Rd Ext			20	8	AC	10/1/1967	42	Y		Med	0	2	0	5	2.5	5	2	673	\$3,300	\$25,475,248
New	Fin	Eastnor Rd Ext			130	8	AC	10/1/1967	42	Y		Med	0	2	0	5	2.5	5	2	674	\$21,450	\$25,496,698
New	Fin	Eastnor Rd Ext			80	8	Ductile Iron	1/1/2004	5	Y		Med	0	0	0	0	2.5	5	0.75	1480	\$13,200	\$25,509,898
New	Fin	Edgar Ct	Memorial Blvd		12	6	Cast Iron	3/1/1933	76	Y		High	2.5	3	0	5	5	5	3.125	158	\$1,980	\$25,511,878
New	Fin	Edgar Ct	Memorial Blvd		79	6	Cast Iron	1/1/1945	64	Y		High	2.5	3	0	5	5	5	3.125	159	\$13,035	\$25,524,913
New	Fin	Edgar Ct	Memorial Blvd	End	456	8	AC	9/1/1961	48	Y		High	0	2	0	5	5	5	2.25	551	\$75,240	\$25,600,153
New	Fin	Edward St	White St	Wheatland Blvd	788	6	Cast iron	6/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	321	\$130,020	\$25,730,173
New	Fin	Elizabeth St	Catherine St	End	323.6	2	Iron Pipe	4/8/1902	107	Y	1	High	5	5	2.5	5	5	5	4.625	3	\$53,394	\$25,783,567
New	Fin	Ella Ter	Ocean Ave	End	600	8	AC	6/1/1966	43	Y		Low	0	2	0	5	0	5	1.75	884	\$99,000	\$25,882,567
New	Fin	Ellery Rd	Prairie Ave		42	16	Cast iron	10/1/1941	68	N		High	0	3	0	5	5	0	2	675	\$8,400	\$25,890,967

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Ellery Rd	Station #1	E of Eustis Ave	1581	24	Cast iron			N	3	High	0	0	5	5	5	0	2	676	\$355,725	\$26,246,692
New	Fin	Ellery Rd	E of Eustis Ave	Prairie Ave	970	20	Cast iron			N	3	High	0	0	5	5	5	0	2	677	\$194,000	\$26,440,692
New	Fin	Ellery Rd	Prairie Ave		41	16	Cast iron			N		High	0	0	0	5	5	0	1.25	1243	\$8,200	\$26,448,892
New	Fin	Ellery Rd	Prairie Ave	Station #1	2648	16	Ductile Iron	1/1/1971	38	N		High	0	1	0	0	5	0	0.75	1481	\$529,600	\$26,978,492
New	Fin	Elliott Pl	Broadway	End	410	6	AC	4/1/1980	29	Y		Med	2.5	1	0	5	2.5	5	2.375	447	\$67,650	\$27,046,142
New	Fin	Ellwood Pl	Friendship St	End	158.33	2	Iron Pipe	4/1/1967	42	Y		Med	5	2	0	5	2.5	5	3.25	127	\$26,124	\$27,072,266
New	Fin	Elm St	Washington St	Cross St	1209	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1482	\$199,485	\$27,271,751
New	Fin	Equality Park Pl	Pond Ave	Broadway	187.19	4	Cast Iron			N	2	High	5	0	5	5	5	0	3.25	128	\$30,886	\$27,302,637
New	Fin	Ernest Pl	Old Fort Rd	End	364	4	AC	10/1/1965	44	Y		Med	5	2	0	5	2.5	5	3.25	129	\$60,060	\$27,362,697
New	Fin	Eustis Ave	Ellery Rd	Bliss Rd	2240	16	Cast iron	8/1/1939	70	N	2	High	0	3	5	5	5	0	2.75	284	\$448,000	\$27,810,697
New	Fin	Eustis Ave	Memorial Blvd	Ellery Rd	3275	18	Cast iron	12/1/1927	82	N		High	0	4	0	5	5	0	2.25	552	\$655,000	\$28,465,697
New	Fin	Eustis Ave	Ellery Rd		26.5	18	Cast iron	9/1/1939	70	N		High	0	3	0	5	5	0	2	678	\$5,300	\$28,470,997
New	Fin	Evar St	Butler St	Easterly	50	6	Cast Iron	3/1/1941	68	N		Med	2.5	3	0	5	2.5	0	2.375	448	\$8,250	\$28,479,247
New	Fin	Evar St	E of Butler St	Homer St	711	6	Cast Iron	6/1/1941	68	N		Med	2.5	3	0	5	2.5	0	2.375	449	\$117,315	\$28,596,562
New	Fin	Evar St	Butler St	Brandt St	238	6	Cast Iron	4/1/1948	61	N		Med	2.5	3	0	5	2.5	0	2.375	450	\$39,270	\$28,635,832
New	Fin	Evar St	Hall Ave	Homer St	208	6	Cast Iron	4/1/1948	61	N		Med	2.5	3	0	5	2.5	0	2.375	451	\$34,320	\$28,670,152
New	Fin	Evar St	Malbone Rd	Hall Ave	911	8	AC	5/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1244	\$150,315	\$28,820,467
New	Fin	Everett Pl	Francis St	Ayrault Ct	318	2	Cem Lined	1/1/1889	115	N	1	High	5	5	2.5	5	5	0	4.125	25	\$52,470	\$28,872,937
New	Fin	Everett Pl	Francis St		33	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1069	\$5,445	\$28,878,382
New	Fin	Everett St	S of Kay St	Francis St	513	2	Iron Pipe	1/1/1892	112	N	2	High	5	5	5	5	5	0	4.5	7	\$84,645	\$28,963,027
New	Fin	Everett St	Broadway	N of Kay St	976	6	Cast Iron	6/13/1910	99	N		High	2.5	4	0	5	5	0	2.875	231	\$161,040	\$29,124,067
New	Fin	Everett St	Francis St		38	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1070	\$6,270	\$29,130,337
New	Fin	Everett St	N of Kay St	S of Kay St	84	8	AC			N		High	0	0	0	5	5	0	1.25	1245	\$13,860	\$29,144,197
New	Fin	Exeter St	Training Station Rd		22.5	6	Cast iron	5/16/1932	77	Y		Med	2.5	3	0	5	2.5	5	2.875	232	\$3,713	\$29,147,910
New	Fin	Extension St	Spring St	Thames St	570	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1553	\$94,050	\$29,241,960
New	Fin	Fair St	Spring St	Thames St	444	4	Cast iron	3/28/1903	106	N		High	5	5	0	5	5	0	3.75	59	\$73,260	\$29,315,220
New	Fin	Fair St	Spring St		35	6	Cast iron	1/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	452	\$5,775	\$29,320,995
New	Fin	Fair St	Thames St		20	8	Cast Iron	1/1/1979	30	N		High	0	1	0	5	5	0	1.5	1071	\$3,300	\$29,324,295
New	Fin	Farewell St	Broadway	Warner St	1372	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1246	\$240,100	\$29,564,395
New	Fin	Farewell St	Van Zandt Ave	Poplar St	1856	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1247	\$324,800	\$29,889,195
New	Fin	Faxon Green	Annadale Rd	Roel Ln	425	8	AC	11/1/1961	48	Y		High	0	2	0	5	5	5	2.25	553	\$70,125	\$29,959,320
New	Fin	Feke St	Tilden Ave	Edward St	192	2	Cem Lined	2/19/1917	92	N		High	5	4	0	5	5	0	3.5	82	\$31,680	\$29,991,000
New	Fin	Feke St	Tilden Ave		9.5	6	Cast Iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	322	\$1,568	\$29,992,567
New	Fin	Fenner Ave	Bliss Rd	Vernon Ave	1150	8	AC	1/1/1945	64	N		Med	0	3	0	5	2.5	0	1.75	885	\$189,750	\$30,182,317
New	Fin	Fillmore St	Brinley St	Tompkins Ct	322	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1554	\$53,130	\$30,235,447
New	Fin	Findlay Pl	Bliss Rd	End	366.9	6	Cast iron	4/15/1916	93	Y		High	2.5	4	0	5	5	5	3.375	111	\$60,539	\$30,295,986
New	Fin	Fir St	Old Beach Rd	Catherine St	515	2	Cem Lined	6/6/1902	107	N	2	High	5	5	5	5	5	0	4.5	8	\$84,975	\$30,380,961
New	Fin	Florence Ave	Ruggles Ave	Northerly	159	6	Cast iron	3/1/1938	71	Y		Med	2.5	3	0	5	2.5	5	2.875	233	\$26,235	\$30,407,196
New	Fin	Florence Ave			112.5	6	Cast Iron	5/1/1939	70	Y		Med	2.5	3	0	5	2.5	5	2.875	234	\$18,563	\$30,425,758
New	Fin	Florence Ave			112	6	Cast Iron	11/1/1940	69	Y		Med	2.5	3	0	5	2.5	5	2.875	235	\$18,480	\$30,444,238
New	Fin	Florence Ave			160	6	Cast Iron	1/1/1949	60	Y		Med	2.5	3	0	5	2.5	5	2.875	236	\$26,400	\$30,470,638
New	Fin	Florence Ave		Hydrant	13.5	6	Ductile Iron	5/25/1989	20	Y		Med	2.5	1	0	0	2.5	5	1.625	1022	\$2,228	\$30,472,866
New	Fin	Fountain St	Anthony St	Spring St	200	1.5	Cem Lined	1/5/1892	112	N	1	High	5	5	2.5	5	5	0	4.125	26	\$33,000	\$30,505,866
New	Fin	Fowler Ave	Bliss Rd	Broadway	556	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1072	\$91,740	\$30,597,606
New	Fin	Francis St	Rhode Island Ave	Ayrault St	566	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1073	\$113,200	\$30,710,806
New	Fin	Franklin St	Spring St	Thames St	433	8	Cast iron	6/1/1946	63	N		High	0	3	0	5	5	0	2	679	\$71,445	\$30,782,251
New	Fin	Franklin St	Spring St		6	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	780	\$990	\$30,783,241
New	Fin	Franklin St	Spring St		26	8	Cast iron			N		High	0	0	0	5	5	0	1.25	1248	\$4,290	\$30,787,531
New	Fin	Freebody St	East Bowery St		4	4	Cast iron			N		High	5	0	0	5	5	0	2.5	407	\$660	\$30,788,191
New	Fin	Freebody St	East Bowery St	Memorial Blvd	918	8	Cast Iron	11/1/1980	29	N		High	0	1	0	5	5	0	1.5	1074	\$151,470	\$30,939,661
New	Fin	Freeborn St		S of Vernon Ave	60	1.5	Cem Lined	8/1/1946	63	Y	1	High	5	3	2.5	5	5	5	4.125	27	\$9,900	\$30,949,561
New	Fin	Freeborn St	Bliss Rd	Northerly	520.8	6	Cast Iron	11/1/1922	87	Y		High	2.5	4	0	5	5	5	3.375	112	\$85,932	\$31,035,493
New	Fin	Freeborn St	Vernon Ave		27	6	Cast iron	8/1/1946	63	Y		High	2.5	3	0	5	5	5	3.125	160	\$4,455	\$31,039,948
New	Fin	Freeborn St			72	6	AC	5/1/1957	52	Y		High	2.5	2	0	5	5	5	2.875	237	\$11,880	\$31,051,828
New	Fin	Friends Dr	Bliss Mine Rd	Bliss Mine Rd	940	8	AC	5/1/1973	36	N		High	0	1	0	5	5	0	1.5	1075	\$155,100	\$31,206,928
New	Fin	Friendship Pl	Gibbs Ave	Friendship St	196	6	AC	12/1/1970	39	N		High	2.5	1	0	5	5	0	2.125	591	\$32,340	\$31,239,268
New	Fin	Friendship Pl	Gibbs Ave		20	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	781	\$3,300	\$31,242,568
New	Fin	Friendship St	Broadway		21	6	Cast Iron	1/1/1923	86	N		High	2.5	4	0	5	5	0	2.875	238	\$3,465	\$31,246,033
New	Fin	Friendship St	Broadway	Kay St	1667	8	AC	5/1/1958	51	N		High	0	2	0	5	5	0	1.75	886	\$275,055	\$31,521,088
New	Fin	Gardiner St	Gibbs Ave	Friendship St	300	2	Iron Pipe	5/10/1899	105	N		High	5	5	0	5	5	0	3.75	60	\$49,500	\$31,570,588
New	Fin	Gardiner St	Gibbs Ave		23	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	782	\$3,795	\$31,574,383

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Garfield St	Homer St	Prescott Hall Rd	665	6	Cast iron	1/1/1933	76	N		Med	2.5	3	0	5	2.5	0	2.375	453	\$109,725	\$31,684,108
New	Fin	Garfield St	Malbone Rd	Homer St	1000	8	AC	5/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1249	\$165,000	\$31,849,108
New	Fin	Gibbs Ave	Ellery Rd	Old Beach Rd	2060	6	Cast Iron			N	3	High	2.5	0	5	5	5	0	2.625	323	\$339,900	\$32,189,008
New	Fin	Gibbs Ave	Broadway		50	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	783	\$8,250	\$32,197,258
New	Fin	Gibbs Ave	Bliss Rd		35	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	784	\$5,775	\$32,203,033
New	Fin	Gibbs Ave	Bliss Rd	Ellery Rd	2175	16	Cast iron	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	887	\$435,000	\$32,638,033
New	Fin	Gibbs Ave	Ellery Rd		28	12		1/1/1966	43	N		High	0	2	0	5	5	0	1.75	888	\$4,900	\$32,642,933
New	Fin	Gibbs Ave	Broadway	Bliss Rd	330	8	Ductile Iron	6/1/1998	11	N		High	0	0	0	0	5	0	0.5	1555	\$54,450	\$32,697,383
New	Fin	Gibbs Ave	Old Beach Rd	Memorial Blvd	1320	12	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1556	\$231,000	\$32,928,383
New	Fin	Gibson Park Rd	Bliss Rd	End	293	4	AC			Y		High	5	0	0	5	5	5	3	181	\$48,345	\$32,976,728
New	Fin	Gidley St	Spring St		392	2	Cem Lined	1/1/1900	109	N	1	High	5	5	2.5	5	5	0	4.125	28	\$64,680	\$33,041,408
New	Fin	Gidley St	Thames St		39	4	Cast iron			N		High	5	0	0	5	5	0	2.5	408	\$6,435	\$33,047,843
New	Fin	Gillies Ct	Roseneath Ave	End	155	6	Ductile Iron			Y		Med	2.5	0	0	0	2.5	5	1.375	1201	\$25,575	\$33,073,418
New	Fin	Gilroy St	Palmer St		154	6	Cast Iron	1/1/1918	91	N		Med	2.5	4	0	5	2.5	0	2.625	324	\$25,410	\$33,098,828
New	Fin	Gilroy St	Harrison Ave		286.11	6	AC	3/1/1961	48	N		Med	2.5	2	0	5	2.5	0	2.125	592	\$47,208	\$33,146,036
New	Fin	Girard Ave			175	8	AC	5/1/1957	52	N		Low	0	2	0	5	0	0	1.25	1250	\$28,875	\$33,174,911
New	Fin	Girard Ave	Leal Terr	S of Leal Terrac	864	8	AC	6/1/1966	43	N		Low	0	2	0	5	0	0	1.25	1251	\$142,560	\$33,317,471
New	Fin	Girard Ave	Adm Kalbfus Rd		450	12	PVC			N		Low	0	0	0	2	0	0	0.3	1632	\$78,750	\$33,396,221
New	Fin	Girard Ave			1350	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1663	\$236,250	\$33,632,471
New	Fin	Gladding Ct	Sunshine Ct	End	158	2	Cem Lined	9/10/1926	83	Y	1	High	5	4	2.5	5	5	5	4.375	11	\$26,070	\$33,658,541
New	Fin	Goat Island Causeway	Goat Island	Long Wharf	1700	12	t Iron/Ductile Iron			Y		Med	0	0	0	5	2.5	5	1.5	1076	\$297,500	\$33,956,041
New	Fin	Goat Island Causeway	Washington St	Goat Island	1700	8	VC/Ductile Iron			Y		Med	0	0	0	5	2.5	5	1.5	1077	\$280,500	\$34,236,541
New	Fin	Golden Hill St	Spring St	Thomas St	561	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1078	\$92,565	\$34,329,106
New	Fin	Goodwin St	Thames St	End	304	2	Cem Lined	10/08/1890	114	N	2	High	5	5	5	5	5	0	4.5	9	\$50,160	\$34,379,266
New	Fin	Gooseberry Rd	Carroll Ave		170	6	AC	11/1/1953	56	N		Low	2.5	2	0	5	0	0	1.875	785	\$28,050	\$34,407,316
New	Fin	Gooseberry Rd			120	6	AC	10/1/1961	48	N		Low	2.5	2	0	5	0	0	1.875	786	\$19,800	\$34,427,116
New	Fin	Gooseberry Rd		Binney St	138	6	AC	11/1/1964	45	N		Low	2.5	2	0	5	0	0	1.875	787	\$22,770	\$34,449,886
New	Fin	Gordon St	Coggeshall Ave		300	1.5	Cem Lined	1/1/1890	114	N	1	Med	5	5	2.5	5	2.5	0	3.875	45	\$49,500	\$34,499,386
New	Fin	Gordon St	Bellevue Ave		248	2	Cem Lined	4/2/1901	108	N		Med	5	5	0	5	2.5	0	3.5	83	\$40,920	\$34,540,306
New	Fin	Gould St	Broadway	Warner St	1201	8	Cast iron	7/1/1939	70	N		High	0	3	0	5	5	0	2	680	\$198,165	\$34,738,471
New	Fin	Grafton St	Thames St	Marchant St	595	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1483	\$98,175	\$34,836,646
New	Fin	Gravel Ct	Narragansett Ave	Northerly	266.17	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	182	\$43,918	\$34,880,564
New	Fin	Gravel Ct	Narragansett Ave	Northerly	120.26	4	Cast Iron			Y		High	5	0	0	5	5	5	3	183	\$19,843	\$34,900,407
New	Fin	Green Pl	Spring St	End	140.87	2	Cem Lined	4/7/1921	88	Y		High	5	4	0	5	5	5	4	38	\$23,244	\$34,923,651
New	Fin	Green St	Spring St	Thames St	495	4	Cast iron			N		High	5	0	0	5	5	0	2.5	409	\$81,675	\$35,005,326
New	Fin	Greene Ln	Broadway	Porter Ave	94.25	6	Cast iron	5/2/1919	90	Y		High	2.5	4	0	5	5	5	3.375	113	\$15,551	\$35,020,877
New	Fin	Greene Ln	Broadway	Porter Ave	96	6	Cast iron	10/17/1921	88	Y		High	2.5	4	0	5	5	5	3.375	114	\$15,840	\$35,036,717
New	Fin	Greene Ln	Broadway	Porter Ave	84.5	6	Cast iron	3/22/1927	82	Y		High	2.5	4	0	5	5	5	3.375	115	\$13,943	\$35,050,659
New	Fin	Greene Ln	Broadway	Porter Ave	60.5	6	Cast iron	10/30/1928	81	Y		High	2.5	4	0	5	5	5	3.375	116	\$9,983	\$35,060,642
New	Fin	Greene Ln	Broadway	Porter Ave	126.5	6	Cast iron	9/24/1929	80	Y		High	2.5	4	0	5	5	5	3.375	117	\$20,873	\$35,081,514
New	Fin	Greene Ln	Broadway	Porter Ave	174.5	6	Cast iron	2/1/1930	79	Y		High	2.5	3	0	5	5	5	3.125	161	\$28,793	\$35,110,307
New	Fin	Greene Ln	Broadway	Porter Ave	41.5	6	Cast iron	10/1/1940	69	Y		High	2.5	3	0	5	5	5	3.125	162	\$6,848	\$35,117,154
New	Fin	Greenough Pl	Old Beach Rd		28	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1079	\$4,900	\$35,122,054
New	Fin	Greenough Pl	Old Beach Rd	Ayrault St	1469	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1080	\$293,800	\$35,415,854
New	Fin	Griswold Pl	Rhode Island Ave	End	162	2	Cem Lined	12/16/1880	124	Y		High	5	5	0	5	5	5	4.25	15	\$26,730	\$35,442,584
New	Fin	Guernsey Ct	Cherry St	End	115	1.5	Cem Lined	8/27/1894	110	Y		High	5	5	0	5	5	5	4.25	16	\$18,975	\$35,461,559
New	Fin	Guinn Ct	Fillmore St	End	147.3	1.5	Cem Lined	7/8/1927	82	Y		High	5	4	0	5	5	5	4	39	\$24,305	\$35,485,864
New	Fin	Guthrie St	Bliss Mine Rd		26.5	6	AC	8/5/1950	59	Y		High	2.5	2	0	5	5	5	2.875	239	\$4,373	\$35,490,236
New	Fin	Guthrie St	Bliss Mine Rd		355	6	AC	4/25/1950	59	Y		High	2.5	2	0	5	5	5	2.875	240	\$58,575	\$35,548,811
New	Fin	Halidon Ave	Chastellux Ave	Harrison Ave	1309	12	Cast iron	5/1/1942	67	N		Med	0	3	0	5	2.5	0	1.75	889	\$229,075	\$35,777,886
New	Fin	Halidon Terrace	Halidon Ave	Chastellux Ave	350	8	Ductile Iron	1/1/2009	0	N		Low	0	0	0	0	0	0	0	1664	\$57,750	\$35,835,636
New	Fin	Hall Ave	Van Zandt Ave	Warner St	905	8	AC	7/1/1963	46	N		High	0	2	0	5	5	0	1.75	890	\$149,325	\$35,984,961
New	Fin	Hall Ave	Van Zandt Ave	Sheffield Ave	771	8	AC	8/1/1963	46	N		High	0	2	0	5	5	0	1.75	891	\$127,215	\$36,112,176
New	Fin	Halsey St			35	6	Cast Iron	1/1/1933	76	Y		Med	2.5	3	0	5	2.5	5	2.875	241	\$5,775	\$36,117,951
New	Fin	Halsey St			626	6	AC	12/1/1938	71	Y		Med	2.5	3	0	5	2.5	5	2.875	242	\$103,290	\$36,221,241
New	Fin	Halsey St			266	6	Cast Iron			Y		Med	2.5	0	0	5	2.5	5	2.125	593	\$43,890	\$36,265,131
New	Fin	Halsey St	Van Zandt Ave		25	6	Cast Iron			N		Med	2.5	0	0	5	2.5	0	1.625	1023	\$4,125	\$36,269,256
New	Fin	Halsey St	Garfield St	Van Zandt Ave	975	8	AC	2/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1081	\$160,875	\$36,430,131
New	Fin	Hammersmith Rd	W of Beacon Hill	Harrison Ave	863	12	AC			N		Low	0	0	0	5	0	0	0.75	1484	\$151,025	\$36,581,156
New	Fin	Hammersmith Rd	Harrison Ave	W of Beacon Hill	646.5	12	PVC			N		Low	0	0	0	2	0	0	0.3	1633	\$113,138	\$36,694,294
New	Fin	Hammersmith Rd - Loc	Hammersmith Rd	Harrison Ave	925	12	AC	6/1/1980	29	N		Low	0	1	0	5	0	0	1	1390	\$161,875	\$36,856,169

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
New	Fin	Hammond St	Spring St	Thames St	756	8	AC	5/1/1965	44	N		High	0	2	0	5	5	0	1.75	892	\$124,740	\$36,980,909
New	Fin	Harold St	Carroll Ave	Easterly	268.75	2	Cem Lined	5/1/1935	74	Y		Low	5	3	0	5	0	5	3.25	130	\$44,344	\$37,025,253
New	Fin	Harold St	Carroll Ave		63	6	Cast Iron	10/17/1922	87	Y		Low	2.5	4	0	5	0	5	2.875	243	\$10,395	\$37,035,648
New	Fin	Harrington St	Thames St	Kirwin's 5th War	364	8	AC			N		High	0	0	0	5	5	0	1.25	1252	\$60,060	\$37,095,708
New	Fin	Harrison Ave	Roseneath Ave	Ridge Rd	8586	12	Cast Iron	6/21/1912	97	N	2	Low	0	4	5	5	0	0	2.5	410	\$1,502,550	\$38,598,258
New	Fin	Harrison Ave	Carroll Ave	Roseneath Ave	903	12	Cast Iron	8/1/1939	70	N		Low	0	3	0	5	0	0	1.5	1082	\$158,025	\$38,756,283
New	Fin	Harrison Ave	Ridge Rd	W of Ridge Rd	1169	12	Cast iron	11/1/1930	79	N		Low	0	3	0	5	0	0	1.5	1083	\$204,575	\$38,960,858
New	Fin	Harrison Ave	W of Ridge Rd	Castle Hill Rd	975	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1665	\$170,625	\$39,131,483
New	Fin	Harrison Ln			338	2	Iron Pipe	9/1/1952	57	Y		Low	5	2	0	5	0	5	3	184	\$55,770	\$39,187,253
New	Fin	Harrison Ln	Harrison Ave		175	8	AC	9/1/1952	57	Y		Low	0	2	0	5	0	5	1.75	893	\$28,875	\$39,216,128
New	Fin	Harvard St	Pennacook St	Southerly	227.9	6	Cast Iron	11/22/1921	88	N		Med	2.5	4	0	5	2.5	0	2.625	325	\$37,604	\$39,253,731
New	Fin	Harvard St	S of Pennacook	Bedlow Ave	187.8	6	Cast Iron	6/13/1927	82	N		Med	2.5	4	0	5	2.5	0	2.625	326	\$30,987	\$39,284,718
New	Fin	Haskell Ave	Bliss Rd	Brooks Ave	340.5	2	Cem Lined	7/15/1931	78	N		High	5	3	0	5	5	0	3.25	131	\$56,183	\$39,340,901
New	Fin	Hayden Ct	Memorial Blvd	End	120	1.25	Cem Lined	5/9/1906	103	Y		Med	5	5	0	5	2.5	5	4	40	\$19,800	\$39,360,701
New	Fin	Hazard Ave	Bellevue Ave	Coggeshall Ave	577	12	AC	11/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1084	\$100,975	\$39,461,676
New	Fin	Hazard Rd	Ocean Heights Av	S of Ocean Hgts	622	8	AC	8/1/1969	40	Y		Low	0	2	0	5	0	5	1.75	894	\$102,630	\$39,564,306
New	Fin	Hazard Rd	Wickham Rd	Ocean Heights	891	12	AC	8/1/1969	40	N		Low	0	2	0	5	0	0	1.25	1253	\$155,925	\$39,720,231
New	Fin	Heath St	Callender St	Kingston Ave	262	8	AC	5/1/1972	37	N		High	0	1	0	5	5	0	1.5	1085	\$43,230	\$39,763,461
New	Fin	Heath St	Pond Ave	Kingston Ave	290	8	AC	7/1/1979	30	N		High	0	1	0	5	5	0	1.5	1086	\$47,850	\$39,811,311
New	Fin	High St	Church St	N of Church St	204	4	Cast Iron	10/23/1891	113	N		High	5	5	0	5	5	0	3.75	61	\$33,660	\$39,844,971
New	Fin	High St	N of Church St	Touro St	285	4	Cast Iron	3/25/1902	107	N		High	5	5	0	5	5	0	3.75	62	\$47,025	\$39,891,996
New	Fin	Highland Pl	Hazard Rd	End	307	8	AC	8/1/1969	40	Y		Low	0	2	0	5	0	5	1.75	895	\$50,655	\$39,942,651
New	Fin	Hillside Ave	S of Beacon St	Beacon St	326	12	Cast iron	8/1/1941	68	N	1	Med	0	3	2.5	5	2.5	0	2.125	594	\$57,050	\$39,999,701
New	Fin	Hillside Ave	Bedlow Ave	S of Beacon St	2181	12	Cast iron	12/1/1940	69	N		Med	0	3	0	5	2.5	0	1.75	896	\$381,675	\$40,381,376
New	Fin	Hillside Ave	Bedlow Ave		20.5	8	Cast iron	1/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	897	\$3,383	\$40,384,758
New	Fin	Hillside Ave	Beacon St	Maple Ave	1525	12	AC			N		Med	0	0	0	5	2.5	0	1	1391	\$266,875	\$40,651,633
New	Fin	Hoffman Pl	Cranston Ave	End	200.45	1.5	Cement	01/01/1889	115	Y		High	5	5	0	5	5	5	4.25	17	\$33,074	\$40,684,707
New	Fin	Holland St	Thames St	Spring St	641.28	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	411	\$105,811	\$40,790,519
New	Fin	Holten Ave	Kempson St	Northerly	102	6	AC	8/1/1949	60	Y		High	2.5	3	0	5	5	5	3.125	163	\$16,830	\$40,807,349
New	Fin	Holten Ave			47.25	6	AC	4/1/1952	57	Y		High	2.5	2	0	5	5	5	2.875	244	\$7,796	\$40,815,145
New	Fin	Holten Ave			201	6	AC	8/27/1952	57	Y		High	2.5	2	0	5	5	5	2.875	245	\$33,165	\$40,848,310
New	Fin	Holten Ave	Loyola Ter	Northerly	100	6	AC	11/1/1951	58	Y		High	2.5	2	0	5	5	5	2.875	246	\$16,500	\$40,864,810
New	Fin	Holten Ave			253	6	AC	5/1/1952	57	Y		High	2.5	2	0	5	5	5	2.875	247	\$41,745	\$40,906,555
New	Fin	Holten Ave			202	8	AC	12/1/1959	50	Y		High	0	2	0	5	5	5	2.25	554	\$33,330	\$40,939,885
New	Fin	Holten Ave			19.5	8	AC	10/1/1962	47	Y		High	0	2	0	5	5	5	2.25	555	\$3,218	\$40,943,102
New	Fin	Homer St	Garfield St	N to end	163	6	AC	1/1/1957	52	Y		Med	2.5	2	0	5	2.5	5	2.625	327	\$26,895	\$40,969,997
New	Fin	Homer St	Garfield St	Van Zandt Ave	1013	8	AC	10/1/1976	33	N		Med	0	1	0	5	2.5	0	1.25	1254	\$167,145	\$41,137,142
New	Fin	Hope St	Rhode Island Ave	Powell Ave	328	2	Cem Lined	1/1/1893	111	N	1	High	5	5	2.5	5	5	0	4.125	29	\$54,120	\$41,191,262
New	Fin	Hope St	Powell Ave	Friendship St	225	1.5	Cem Lined	1/1/1896	108	N		High	5	5	0	5	5	0	3.75	63	\$37,125	\$41,228,387
New	Fin	Hope St	Rhode Island Ave		20	6	AC			N		High	2.5	0	0	5	5	0	1.875	788	\$3,300	\$41,231,687
New	Fin	Hope St	Powell Ave		46	6	AC			N		High	2.5	0	0	5	5	0	1.875	789	\$7,590	\$41,239,277
New	Fin	Hoppin Rd	Vernon Ave	Northerly	204	6	Cast iron	11/1/1936	73	N		Med	2.5	3	0	5	2.5	0	2.375	454	\$33,660	\$41,272,937
New	Fin	Hoppin Rd			90.25	6	Cast iron	5/1/1937	72	N		Med	2.5	3	0	5	2.5	0	2.375	455	\$14,891	\$41,287,829
New	Fin	Hoppin Rd			100	6	Cast Iron	7/26/1938	71	N		Med	2.5	3	0	5	2.5	0	2.375	456	\$16,500	\$41,304,329
New	Fin	Hoppin Rd			70.5	6	Cast Iron	7/13/1939	70	N		Med	2.5	3	0	5	2.5	0	2.375	457	\$11,633	\$41,315,961
New	Fin	Hoppin Rd			22	6	Cast Iron	10/1/1948	61	N		Med	2.5	3	0	5	2.5	0	2.375	458	\$3,630	\$41,319,591
New	Fin	Hoppin Rd	W of Freeborn St	N of Vernon Ave	121	6	AC	10/1/1948	61	N		Med	2.5	3	0	5	2.5	0	2.375	459	\$19,965	\$41,339,556
New	Fin	Houston Ave	Wellington Ave	W Narragansett	678	6	Cast Iron	11/6/1910	99	N		Med	2.5	4	0	5	2.5	0	2.625	328	\$111,870	\$41,451,426
New	Fin	Houston Ave	W Narragansett A	Connection St	589	8	AC	12/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1087	\$97,185	\$41,548,611
New	Fin	Houston Ave	Connection St	Eastnor Rd	342	8	AC	12/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1088	\$56,430	\$41,605,041
New	Fin	Howard St	Spring St	E of Thames St	500	6	Cast Iron	1/1/1881	123	N	4	High	2.5	5	5	5	5	0	3.875	46	\$82,500	\$41,687,541
New	Fin	Howard St	Thames St		25	8	Ductile Iron	1/1/1974	35	N		High	0	1	0	0	5	0	0.75	1485	\$4,125	\$41,691,666
New	Fin	Howard Wharf	Thames St	Westerly	300	8	AC	3/1/1970	39	Y		High	0	1	0	5	5	5	2	681	\$49,500	\$41,741,166
New	Fin	Hozier St	Broadway	Spring St	200	1.5	Cem Lined	5/19/1903	106	N		High	5	5	0	5	5	0	3.75	64	\$33,000	\$41,774,166
New	Fin	Hozier St	Broadway		41.75	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	412	\$6,889	\$41,781,055
New	Fin	Hozier St	Spring St		35	6	AC	1/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	460	\$5,775	\$41,786,830
New	Fin	Hunt Ct	Spring St	End	130.73	1	Cem Lined	11/25/1904	105	Y		High	5	5	0	5	5	5	4.25	18	\$21,570	\$41,808,400
New	Fin	Hunt Ct	Spring St		23	4	AC			Y		High	5	0	0	5	5	5	3	185	\$3,795	\$41,812,195
New	Fin	Hunter Ave	Ellery Rd	S of Kay St	313	2	Cem Lined	1/1/1923	86	Y		High	5	4	0	5	5	5	4	41	\$51,645	\$41,863,840
New	Fin	Hunter Ave	Ellery Rd	Catherine St	1217	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	790	\$200,805	\$42,064,645
New	Fin	Hunter Ave	Ellery Rd		49	8	Cast Iron			N		High	0	0	0	5	5	0	1.25	1255	\$8,085	\$42,072,730

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Janet Ter	Castle Hill Ave	Chartier Cir	350	8	AC	1/1/1960	49	N		Low	0	2	0	5	0	0	1.25	1256	\$57,750	\$42,130,480
New	Fin	Jeffrey Rd	Alpond Dr	N of Ocean Ave	600	6	AC	3/1/1970	39	Y		Low	2.5	1	0	5	0	5	2.125	595	\$99,000	\$42,229,480
New	Fin	Jeffrey Rd	Carroll Ave		29.5	6	Cast Iron	3/1/1957	52	N		Low	2.5	2	0	5	0	0	1.875	791	\$4,868	\$42,234,348
New	Fin	Jeffrey Rd	Carroll Ave	Alpond Dr	578	6	AC	3/1/1957	52	N		Low	2.5	2	0	5	0	0	1.875	792	\$95,370	\$42,329,718
New	Fin	John Chafee Blvd	Maple Ave	Loop		8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1392	\$0	\$42,329,718
New	Fin	John St	Bellevue Ave	Spring St		8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1557	\$0	\$42,329,718
New	Fin	Johnson Ct	Kingston Ave	W of Kingston A	166.25	1.5	cem Lined	1/1/1897	107	Y	1	High	5	5	2.5	5	5	5	4.625	4	\$27,431	\$42,357,149
New	Fin	Johnson Ct	Kingston Ave	E of Kingston Av	200	2	Cem Lined	1/1/1902	107	Y		High	5	5	0	5	5	5	4.25	19	\$33,000	\$42,390,149
New	Fin	Johnson Ct	Kingston Ave		30.5	1.25	Copper			Y		High	5	0	0	3	5	5	2.7	299	\$5,033	\$42,395,181
New	Fin	Jones Ave	King St	N of King St	40	6	Ductile Iron	9/1/1978	31	Y		High	2.5	1	0	0	5	5	1.875	793	\$6,600	\$42,401,781
New	Fin	Jurgens Rd	Kay Blvd	Bliss Mine Rd	402	8	AC	3/6/1939	70	N		High	0	3	0	5	5	0	2	682	\$66,330	\$42,468,111
New	Fin	Jurgens Rd	Bliss Mine Rd		36.25	8	AC	12/1/1943	66	N		High	0	3	0	5	5	0	2	683	\$5,981	\$42,474,093
New	Fin	Jurgens Rd	Kay Blvd		54	8	Cast Iron			N		High	0	0	0	5	5	0	1.25	1257	\$8,910	\$42,483,003
New	Fin	Katzman Pl			20	2	Iron Pipe	1/31/1955	54	Y		High	5	2	0	5	5	5	3.5	84	\$3,300	\$42,486,303
New	Fin	Katzman Pl			109	2	Iron Pipe	11/1/1972	37	Y		High	5	1	0	5	5	5	3.25	132	\$17,985	\$42,504,288
New	Fin	Katzman Pl		End	26	2	Iron Pipe	1/1/1977	32	Y		High	5	1	0	5	5	5	3.25	133	\$4,290	\$42,508,578
New	Fin	Katzman Pl	Third St	E of Third St	134	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	186	\$22,110	\$42,530,688
New	Fin	Kay Blvd	Kay		752.1	6	Cast iron	8/14/1917	92	N		High	2.5	4	0	5	5	0	2.875	248	\$124,097	\$42,654,784
New	Fin	Kay Blvd			176	6	Cast iron	9/26/1936	73	N		High	2.5	3	0	5	5	0	2.625	329	\$29,040	\$42,683,824
New	Fin	Kay Blvd		Bliss	48	6	Cast iron	3/6/1939	70	N		High	2.5	3	0	5	5	0	2.625	330	\$7,920	\$42,691,744
New	Fin	Kay Blvd			456	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	794	\$75,240	\$42,766,984
New	Fin	Kay Blvd Ext			32	8	Cast iron	6/1/1951	58	N		High	0	2	0	5	5	0	1.75	898	\$5,280	\$42,772,264
New	Fin	Kay Blvd Ext			128	8	Cast iron	8/1/1952	57	N		High	0	2	0	5	5	0	1.75	899	\$21,120	\$42,793,384
New	Fin	Kay Blvd Ext	Kay		97	8	Cast iron			N		High	0	0	0	5	5	0	1.25	1258	\$16,005	\$42,809,389
New	Fin	Kay Blvd Ext		Ellery Rd	661	8	AC			N		High	0	0	0	5	5	0	1.25	1259	\$109,065	\$42,918,454
New	Fin	Kay St	Friendship St	Eustis Ave	775	6	Cast iron	6/5/1931	78	N		High	2.5	3	0	5	5	0	2.625	331	\$127,875	\$43,046,329
New	Fin	Kay St	Cranston Ave	Prairie Ave	519	16	Cast iron	6/1/1920	89	N		High	0	4	0	5	5	0	2.25	556	\$103,800	\$43,150,129
New	Fin	Kay St	Eustis Ave	Holten Ave	484	8	Cast iron	8/17/1939	70	N		High	0	3	0	5	5	0	2	684	\$79,860	\$43,229,989
New	Fin	Kay St	Holten Ave	Kay Blvd	765	8	Cast iron	11/1/1945	64	N		High	0	3	0	5	5	0	2	685	\$126,225	\$43,356,214
New	Fin	Kay St	Prairie Ave	Powell Ave	141	16	AC	7/1/1969	40	N		High	0	2	0	5	5	0	1.75	900	\$28,200	\$43,384,414
New	Fin	Kay St	Bellevue Ave	Cranston Ave	2405	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1089	\$481,000	\$43,865,414
New	Fin	Kay St	Powell Ave	Friendship St	170	8	AC			N		High	0	0	0	5	5	0	1.25	1260	\$28,050	\$43,893,464
New	Fin	Kay Ter	Kay St	End	278	4	Cast Iron	10/30/1913	96	Y		High	5	4	0	5	5	5	4	42	\$45,870	\$43,939,334
New	Fin	Kay Ter			13	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	461	\$2,145	\$43,941,479
New	Fin	Kay Ter			52	8	Cast iron			Y		High	0	0	0	5	5	5	1.75	901	\$8,580	\$43,950,059
New	Fin	Keeher Ave	Bliss Rd	S of Bliss Rd	12	6	Cast Iron	4/1/1930	79	N		High	2.5	3	0	5	5	0	2.625	332	\$1,980	\$43,952,039
New	Fin	Keeher Ave	Kay St	N of Kay St	28	6	Cast Iron	11/1/1945	64	N		High	2.5	3	0	5	5	0	2.625	333	\$4,620	\$43,956,659
New	Fin	Keeher Ave			44	6	Cast Iron	10/6/1947	62	N		High	2.5	3	0	5	5	0	2.625	334	\$7,260	\$43,963,919
New	Fin	Keeher Ave			25	6	Cast Iron	6/1/1950	59	N		High	2.5	2	0	5	5	0	2.375	462	\$4,125	\$43,968,044
New	Fin	Keeher Ave			166	6	AC	6/1/1950	59	N		High	2.5	2	0	5	5	0	2.375	463	\$27,390	\$43,995,434
New	Fin	Keeher Ave			360	6	AC	6/1/1951	58	N		High	2.5	2	0	5	5	0	2.375	464	\$59,400	\$44,054,834
New	Fin	Keeher Ave			501	6	AC	6/1/1952	57	N		High	2.5	2	0	5	5	0	2.375	465	\$82,665	\$44,137,499
New	Fin	Keeher Ave			50	6	AC	9/1/1952	57	N		High	2.5	2	0	5	5	0	2.375	466	\$8,250	\$44,145,749
New	Fin	Keeher Ave			149.5	6	AC	6/1/1955	54	N		High	2.5	2	0	5	5	0	2.375	467	\$24,668	\$44,170,417
New	Fin	Keeher Ave			114	6	AC	11/1/1961	48	N		High	2.5	2	0	5	5	0	2.375	468	\$18,810	\$44,189,227
New	Fin	Kempsen St	Eustis Ave		156.5	6	Cast iron	5/1/1941	68	N		High	2.5	3	0	5	5	0	2.625	335	\$25,823	\$44,215,049
New	Fin	Kempsen St			279	6	Cast Iron	8/1/1949	60	N		High	2.5	3	0	5	5	0	2.625	336	\$46,035	\$44,261,084
New	Fin	Kempsen St			82	6	AC	8/1/1949	60	N		High	2.5	3	0	5	5	0	2.625	337	\$13,530	\$44,274,614
New	Fin	Kempsen St			58	6	AC	3/1/1950	59	N		High	2.5	2	0	5	5	0	2.375	469	\$9,570	\$44,284,184
New	Fin	Kempsen St		Toppa Blvd	88.5	6	AC	4/1/1956	53	N		High	2.5	2	0	5	5	0	2.375	470	\$14,603	\$44,298,787
New	Fin	Kerins Ter	Coggeshall Ave	Bateman Ave	511	8	AC	11/1/1965	44	N		Med	0	2	0	5	2.5	0	1.5	1090	\$84,315	\$44,383,102
New	Fin	Kilburne Ct	Broadway		23	6	Cast Iron	7/3/1915	94	Y		High	2.5	4	0	5	5	5	3.375	118	\$3,795	\$44,386,897
New	Fin	Kilburne Ct	Broadway	End	264	6	Cast Iron	12/6/1918	91	Y		High	2.5	4	0	5	5	5	3.375	119	\$43,560	\$44,430,457
New	Fin	King Philip Rd	Adm Kalbfus Rd	S of Adm Kalbfu	147.6	2	Iron Pipe	4/5/1939	70	Y		Med	5	3	0	5	2.5	5	3.5	85	\$24,354	\$44,454,811
New	Fin	King St	William St	Bowery St	795	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1486	\$131,175	\$44,585,986
New	Fin	Kingston Ave	Warner St	Wheatland Blvd	947	8	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	686	\$156,255	\$44,742,241
New	Fin	Kyle Ter	Bliss Rd	End	520	8	AC	11/1/1968	41	Y		High	0	2	0	5	5	5	2.25	557	\$85,800	\$44,828,041
New	Fin	Lakeview Ave			36.9	2	Iron Pipe	7/16/1903	106	N		Low	5	5	0	5	0	0	3.25	134	\$6,089	\$44,834,129
New	Fin	Lakeview Ave			290	8	Ductile Iron	1/1/2008	1	N		Low	0	0	0	0	0	0	0	1666	\$47,850	\$44,881,979
New	Fin	LaSalle Pl	Third St		340.97	2	Cem Lined			Y		High	5	0	0	5	5	5	3	187	\$56,260	\$44,938,239
New	Fin	Lawrence Ave			13	6	AC	6/1/1959	50	N		Med	2.5	2	0	5	2.5	0	2.125	596	\$2,145	\$44,940,384

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Material	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Lawrence Ave	Shepard Ave		25	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1024	\$4,125	\$44,944,509
New	Fin	Lawrence Ave	Shepard Ave		139	8	AC	6/1/1959	50	N		Med	0	2	0	5	2.5	0	1.5	1091	\$22,935	\$44,967,444
New	Fin	Lawrence Ave	Ruggles Ave	Shepard Ave	780	8	AC	11/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1261	\$128,700	\$45,096,144
New	Fin	Lawrence Ave		LeRoy Ave	688	8	AC	11/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1262	\$113,520	\$45,209,664
New	Fin	Leal Terr	Maple Ave		303	6	Cast iron	8/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	471	\$49,995	\$45,259,659
New	Fin	Leal Terr			116	6	Cast iron	3/18/1953	56	N		Med	2.5	2	0	5	2.5	0	2.125	597	\$19,140	\$45,278,799
New	Fin	Leal Terr		Girard Ave	64	6	AC	5/1/1957	52	N		Med	2.5	2	0	5	2.5	0	2.125	598	\$10,560	\$45,289,359
New	Fin	Ledge Rd			1677	8	Ductile Iron	1/1/2006	3	Y		Low	0	0	0	0	0	5	0.5	1558	\$276,705	\$45,566,064
New	Fin	Ledge Rd North		Bellevue Ave	260	4	Cast iron			N		Low	5	0	0	5	0	0	2	687	\$42,900	\$45,608,964
New	Fin	Ledge Rd North	Lakeview Ave		562	8	Ductile Iron	7/1/2003	6	N		Low	0	0	0	0	0	0	0	1667	\$92,730	\$45,701,694
New	Fin	Ledyard St	Broadway			6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	795	\$0	\$45,701,694
New	Fin	Ledyard St	Broadway	Bliss Rd	951	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1092	\$156,915	\$45,858,609
New	Fin	Lee Ave	Spring St		14	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	796	\$2,310	\$45,860,919
New	Fin	Lee Ave	Spring St	Thames St	700	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1559	\$115,500	\$45,976,419
New	Fin	Lees Wharf			323.47	2	Cem Lined			Y		High	5	0	0	5	5	5	3	188	\$53,373	\$46,029,792
New	Fin	Lees Wharf			86.05	2	Cem Lined			Y		High	5	0	0	5	5	5	3	189	\$14,198	\$46,043,990
New	Fin	Lee's Wharf	Thames St	Westerly	500	2	Cem Lined	7/27/1885	119	Y		High	5	5	0	5	5	5	4.25	20	\$82,500	\$46,126,490
New	Fin	Leonard Ter	Holten Ave	W of Holten Ave	268	6	AC	4/10/1953	56	Y		High	2.5	2	0	5	5	5	2.875	249	\$44,220	\$46,170,710
New	Fin	LeRoy Ave	Ochre Point Ave	Lawrence Ave	294.3	3	PVC	9/1/1981	28	N		Med	5	1	0	2	2.5	0	2.05	659	\$48,560	\$46,219,270
New	Fin	LeRoy Ave	Ochre Point Ave		32	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1025	\$5,280	\$46,224,550
New	Fin	LeRoy Ave	Bellevue Ave	Ochre Point Ave	1974	8	AC	6/5/1959	50	N		Med	0	2	0	5	2.5	0	1.5	1093	\$325,710	\$46,550,260
New	Fin	Liberty St	Old Beach Rd		100	6	Cast iron			Y		High	2.5	0	0	5	5	5	2.375	472	\$16,500	\$46,566,760
New	Fin	Liberty St	Old Beach Rd	End	636	8	AC	9/1/1977	32	Y		High	0	1	0	5	5	5	2	688	\$104,940	\$46,671,700
New	Fin	Lincoln St	Rhode Island Ave	Cranston Ave	440.5	8	AC	6/1/1961	48	N		High	0	2	0	5	5	0	1.75	902	\$72,683	\$46,744,382
New	Fin	Livingston Pl								Y	1	High	0	0	2.5	5	5	5	2.125	599	\$0	\$46,744,382
New	Fin	Long Wharf	Thames St	Washington St	1457	12	AC	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	903	\$254,975	\$46,999,357
New	Fin	Longwood Pl	Evart St	End	143.25	2	PVC			Y		High	5	0	0	2	5	5	2.55	395	\$23,636	\$47,022,993
New	Fin	Lowndes St			240	6	AC			N		High	2.5	0	0	5	5	0	1.875	797	\$39,600	\$47,062,593
New	Fin	Lowndes St	Annandale Rd	W of Annandale	185	6	Ductile Iron			N		High	2.5	0	0	0	5	0	1.125	1374	\$30,525	\$47,093,118
New	Fin	Lowndes St		Middleton Ave	40	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1560	\$6,600	\$47,099,718
New	Fin	Loyola Ter		E of Holten Ave	79	2	Iron Pipe	10/1/1952	57	Y		High	5	2	0	5	5	5	3.5	86	\$13,035	\$47,112,753
New	Fin	Loyola Ter	Eustis Ave	E of Eustis Ave	215	8	AC	1/1/1945	64	Y		High	0	3	0	5	5	5	2.5	413	\$35,475	\$47,148,228
New	Fin	Loyola Ter			80	8	AC	12/1/1949	60	Y		High	0	3	0	5	5	5	2.5	414	\$13,200	\$47,161,428
New	Fin	Loyola Ter			222	8	AC	9/1/1950	59	Y		High	0	2	0	5	5	5	2.25	558	\$36,630	\$47,198,058
New	Fin	Lucas St	Thames St	Marchant St	590	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1640	\$97,350	\$47,295,408
New	Fin	Madeline Dr	Malbone Rd	Loop	1052	8	AC	4/1/1966	43	N		High	0	2	0	5	5	0	1.75	904	\$173,580	\$47,468,988
New	Fin	Maier Ct			340.81	2	Cem Lined			Y		Low	5	0	0	5	0	5	2.5	415	\$56,234	\$47,525,222
New	Fin	Maitland Ct	Third St	End	325	1.5	Copper	7/1/1995	14	Y		High	5	0	0	3	5	5	2.7	300	\$53,625	\$47,578,847
New	Fin	Malbone Rd	Adm Kalbfus Rd	S of Adm Kalbfu	302	12	AC	10/1/1975	34	Y		Med	0	1	0	5	2.5	5	1.75	905	\$52,850	\$47,631,697
New	Fin	Malbone Rd	Bedlow Ave	Warner St	2509	12	AC	1/1/1965	44	N		High	0	2	0	5	5	0	1.75	906	\$439,075	\$48,070,772
New	Fin	Malbone Rd	Warner St	Broadway	260	16	Cast iron	1/1/1965	44	N		High	0	2	0	5	5	0	1.75	907	\$52,000	\$48,122,772
New	Fin	Mann Ave	Broadway		28.8	8	Cast Iron	8/1/1928	81	N		High	0	4	0	5	5	0	2.25	559	\$4,752	\$48,127,524
New	Fin	Mann Ave	Kay St	Broadway	1077.43	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	798	\$177,776	\$48,305,300
New	Fin	Mann Ave	Kay St		43	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1094	\$7,095	\$48,312,395
New	Fin	Manning Ter	Holten Ave	W of Holten Ave	250	2	Cem Lined	11/1/1954	55	Y		High	5	2	0	5	5	5	3.5	87	\$41,250	\$48,353,645
New	Fin	Manning Ter		W of Holten Ave	48	2	Iron Pipe	10/10/1957	52	Y		High	5	2	0	5	5	5	3.5	88	\$7,920	\$48,361,565
New	Fin	Manning Ter	Holten Ave	S of Holten Ave	172	2	Cem Lined	12/1/1952	57	Y		High	5	2	0	5	5	5	3.5	89	\$28,380	\$48,389,945
New	Fin	Maple Ave	Hillside Ave	West Main Rd	2456	12	Cast iron	Jan-43	66	N		High	0	3	0	5	5	0	2	689	\$429,800	\$48,819,745
New	Fin	Maple Ave	Connell Hwy	Leal Terr	720	12	Cast iron	Jan-43		N	1	High	0	0	2.5	5	5	0	1.625	1026	\$126,000	\$48,945,745
New	Fin	Maple Ave	Hillside Ave	Leal Terr	1727	12	Cast iron	Jan-43		N		High	0	0	0	5	5	0	1.25	1263	\$302,225	\$49,247,970
New	Fin	Marchant St	* replaced with 1	Grafton - W. Na	100	1.5	Iron Pipe			N	5	Med	5	0	0	5	2.5	0	3	190	\$16,500	\$49,264,470
New	Fin	Marchant St	Wellington Ave	S of Wellington	183	6	Cast Iron	12/5/1916	93	N		Med	2.5	4	0	5	2.5	0	2.625	338	\$30,195	\$49,294,665
New	Fin	Marchant St	Potter St	N of Potter St	101	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	600	\$16,665	\$49,311,330
New	Fin	Marchant St	Atlantic St		82	6	AC	1/1/1964	45	N		Med	2.5	2	0	5	2.5	0	2.125	601	\$13,530	\$49,324,860
New	Fin	Marchant St		S of Wellington	20	6	Cast iron	8/1/1965	44	N		Med	2.5	2	0	5	2.5	0	2.125	602	\$3,300	\$49,328,160
New	Fin	Marchant St	Eastnor Rd		85	6	AC	1/1/1965	44	N		Med	2.5	2	0	5	2.5	0	2.125	603	\$14,025	\$49,342,185
New	Fin	Marchant St	Potter St	Connection St	263	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1027	\$43,395	\$49,385,580
New	Fin	Marchant St	Harrison Ave	N of Harrison Av	31	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1028	\$5,115	\$49,390,695
New	Fin	Marchant St	S of Wellington A	Simmons St	66	8	AC	8/1/1965	44	N		Med	0	2	0	5	2.5	0	1.5	1095	\$10,890	\$49,401,585
New	Fin	Marchant St	N of Harrison Ave	S of Eastnor Rd	180	8	AC	8/1/1975	34	N		Med	0	1	0	5	2.5	0	1.25	1264	\$29,700	\$49,431,285
New	Fin	Marchant St	Eastnor Rd	Atlantic St	140	8	AC	7/1/1975	34	N		Med	0	1	0	5	2.5	0	1.25	1265	\$23,100	\$49,454,385

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Marin St	Mt Vernon	Kay St	347.62	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	799	\$57,357	\$49,511,742
New	Fin	Marine Ave	Bellevue Ave	E of Bellevue Av	290	6	Cast iron			Y		Low	2.5	0	0	5	0	5	1.875	800	\$47,850	\$49,559,592
New	Fin	Marine Ave	Bellevue Ave	E of Bellevue Av	720	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1457	\$118,800	\$49,678,392
New	Fin	Marion St	Kay St		40.5	6	Cast iron	6/1/1952	57	Y		High	2.5	2	0	5	5	5	2.875	250	\$6,683	\$49,685,075
New	Fin	Marion St	Kay St	S of Kay St	149.5	6	AC	6/1/1952	57	Y		High	2.5	2	0	5	5	5	2.875	251	\$24,668	\$49,709,742
New	Fin	Marion St	S of Kay St		26.5	8	AC	7/8/1952	57	Y		High	0	2	0	5	5	5	2.25	560	\$4,373	\$49,714,115
New	Fin	Market Sq	Thames St		500	8	AC	6/1/1971	38	Y		High	0	1	0	5	5	5	2	690	\$82,500	\$49,796,615
New	Fin	Marlborough St	Broadway	Thames St	950	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1266	\$166,250	\$49,962,865
New	Fin	Marsh St	Washington St	Third St	568	8	AC	5/1/1973	36	N		High	0	1	0	5	5	0	1.5	1096	\$93,720	\$50,056,585
New	Fin	Mary Jane Ln	Commonwealth A	Chartier Cir	554	8	AC	8/1/1959	50	N		Low	0	2	0	5	0	0	1.25	1267	\$91,410	\$50,147,995
New	Fin	Mary St	Thames St		13	8	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	691	\$2,145	\$50,150,140
New	Fin	Mary St	Thames St	Touro St	1269	12	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	692	\$222,075	\$50,372,215
New	Fin	McAllister St	Thames St		25.4	6	Cast iron	7/17/1915	94	N		High	2.5	4	0	5	5	0	2.875	252	\$4,191	\$50,376,406
New	Fin	McAllister St	Thames St	Spring St	550	8	Ductile Iron	1/1/2007	3	N	0	High	0	0	0	0	5	0	0.5	1561	\$90,750	\$50,467,156
New	Fin	McAllister St	Thames St	Spring St	180	1.5	Iron Pipe	7/9/1889	115	N	2	High	5	5	5	5	5	0	4.5	10	\$29,700	\$50,496,856
New	Fin	McCormick Rd	Ruggles Ave	Loop	1495	8	AC	5/1/1959	50	N		Low	0	2	0	5	0	0	1.25	1268	\$246,675	\$50,743,531
New	Fin	Meeting St	Washington Sq	Marlborough St	380	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1487	\$62,700	\$50,806,231
New	Fin	Memorial Blvd	Eustis Ave	Aquidneck Ave	5926	20	Cast Iron	1/1/1915	94	N	1	Med	0	4	2.5	5	2.5	0	2.375	473	\$1,185,200	\$51,991,431
New	Fin	Memorial Blvd	Gibbs Ave	Annandale Rd	885	20	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	693	\$177,000	\$52,168,431
New	Fin	Memorial Blvd	Bellevue Ave	Annandale Rd	1665	16	Cast Iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	694	\$333,000	\$52,501,431
New	Fin	Memorial Blvd	Eustis Ave	Gibbs Ave	486	20	Cast iron			N		High	0	0	0	5	5	0	1.25	1269	\$97,200	\$52,598,631
New	Fin	Memorial Blvd West	Spring St	Thames St	439.5	12	Cast Iron	1/1/1940	69	N		High	0	3	0	5	5	0	2	695	\$76,913	\$52,675,543
New	Fin	Memorial Blvd West	Thames St		23	8	AC	1/1/1973	36	Y		High	0	1	0	5	5	5	2	696	\$3,795	\$52,679,338
New	Fin	Memorial Blvd West	Bellevue Ave	Spring St	1303	16	Cast Iron	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	908	\$260,600	\$52,939,938
New	Fin	Merton Rd	Annandale Rd	Middleton Ave	470	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	416	\$77,550	\$53,017,488
New	Fin	Merton Rd	Middleton Ave	Freebody St	160	2	Iron Pipe			N		High	5	0	0	5	5	0	2.5	417	\$26,400	\$53,043,888
New	Fin	Merton Rd	Cliff Ave	Annandale Rd	864	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1097	\$142,560	\$53,186,448
New	Fin	Michael Ter	Eustis Ave	End	223	6	AC	8/1/1956	53	Y		High	2.5	2	0	5	5	5	2.875	253	\$36,795	\$53,223,243
New	Fin	Michael Ter	Eustis Ave		9	6	Cast Iron	10/17/1956	53	Y		High	2.5	2	0	5	5	5	2.875	254	\$1,485	\$53,224,728
New	Fin	Michael Ter	Eustis Ave		3	6	AC	10/17/1956	53	Y		High	2.5	2	0	5	5	5	2.875	255	\$495	\$53,225,223
New	Fin	Middleton Ave	Berkeley Ave	Parker Ave	450	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	474	\$74,250	\$53,299,473
New	Fin	Middleton Ave	Memorial Blvd	Berkeley Ave	1440	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1562	\$237,600	\$53,537,073
New	Fin	Milburn Ct								Y	1	High	0	0	2.5	5	5	5	2.125	604	\$0	\$53,537,073
New	Fin	Mill St	Thames St	Bellevue Ave	1668	12	Cast Iron	4/1/1927	82	N		High	0	4	0	5	5	0	2.25	561	\$291,900	\$53,828,973
New	Fin	Morgan St	Palmer St	Northerly	249	6	Cast Iron	1/1/1918	91	N		Med	2.5	4	0	5	2.5	0	2.625	339	\$41,085	\$53,870,058
New	Fin	Morgan St	Harrison Ave		27	6	Cast Iron	1/1/1939	70	N		Med	2.5	3	0	5	2.5	0	2.375	475	\$4,455	\$53,874,513
New	Fin	Morgan St	Harrison Ave	Southerly	151	6	AC	1/1/1961	48	N		Med	2.5	2	0	5	2.5	0	2.125	605	\$24,915	\$53,899,428
New	Fin	Morton Ave	Earl Ave	Spring St	665	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1029	\$109,725	\$54,009,153
New	Fin	Morton Ave			176.95	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1030	\$29,197	\$54,038,350
New	Fin	Morton Pl	Morton Ave	Northerly	166	2	Cem Lined	1/1/1914	95	Y	1	Med	5	4	2.5	5	2.5	5	4.125	30	\$27,390	\$54,065,740
New	Fin	Mt Vernon St			716.07	4	Cast Iron	9/13/1901	108	N	1	High	5	5	2.5	5	5	0	4.125	31	\$118,152	\$54,183,892
New	Fin	Mt Vernon St	Tuoro		263.26	4	Cast Iron	9/13/1901	108	N		High	5	5	0	5	5	0	3.75	65	\$43,438	\$54,227,329
New	Fin	Mt Vernon St		Mann	972.65	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	801	\$160,487	\$54,387,817
New	Fin	Mumford Ave		Porter Ave	192	6	Cast Iron	11/1/1936	73	Y		High	2.5	3	0	5	5	5	3.125	164	\$31,680	\$54,419,497
New	Fin	Mumford Ave	Broadway		36	6	Cast iron	1/1/1923	86	N		High	2.5	4	0	5	5	0	2.875	256	\$5,940	\$54,425,437
New	Fin	Mumford Ave			132	6	Cast iron	9/30/1927	82	N		High	2.5	4	0	5	5	0	2.875	257	\$21,780	\$54,447,217
New	Fin	Mumford Ave			192	6	Cast iron	8/5/1931	78	N		High	2.5	3	0	5	5	0	2.625	340	\$31,680	\$54,478,897
New	Fin	Mumford Ave			93	6	Cast iron	7/26/1932	77	N		High	2.5	3	0	5	5	0	2.625	341	\$15,345	\$54,494,242
New	Fin	Murray Pl	Coggeshall Ave	Westerly	200	2	Cem Lined			Y		Low	5	0	0	5	0	5	2.5	418	\$33,000	\$54,527,242
New	Fin	Narragansett Ave	Annandale Rd	Bellevue Ave	1647	20	Cast iron			N		High	0	0	0	5	5	0	1.25	1270	\$329,400	\$54,856,642
New	Fin	Narragansett Ave	Bellevue Ave	Thames St	1668	20	Cast iron			N		High	0	0	0	5	5	0	1.25	1271	\$333,600	\$55,190,242
New	Fin	Narragansett Ave	Roseneath Ave	Thames St	1318	20	Cast iron			N		Med	0	0	0	5	2.5	0	1	1393	\$263,600	\$55,453,842
New	Fin	Newman Dr	Eastnor Rd Ext	Northerly	153	8	AC	10/1/1967	42	Y		Med	0	2	0	5	2.5	5	2	697	\$25,245	\$55,479,087
New	Fin	Newport Ave	Broadway	Channing St	268	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1563	\$44,220	\$55,523,307
New	Fin	Norman Ave	Old Fort Rd	Palmer Ave	513	6	Cast iron	11/1/1918	91	N		Med	2.5	4	0	5	2.5	0	2.625	342	\$84,645	\$55,607,952
New	Fin	North Baptist St	Forewell St	Charles St	236	8	AC	8/1/1968	41	N		High	0	2	0	5	5	0	1.75	909	\$38,940	\$55,646,892
New	Fin	Oak St	Broadway	Wheatland Blvd	287	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1488	\$47,355	\$55,694,247
New	Fin	Oakwood Ter	Rhode Island Ave	Red Cross Ave	460	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1564	\$75,900	\$55,770,147
New	Fin	Ocean Ave	Prices Cove Rd	W of Green Brid	2770	8	Cast iron	5/1/1915	94	N	2	Low	0	4	5	5	0	0	2.5	419	\$457,050	\$56,227,197
New	Fin	Ocean Ave		Coggeshall Ave	65	8	Cast iron	4/1/1898	106	N		Low	0	5	0	5	0	0	2	698	\$10,725	\$56,237,922
New	Fin	Ocean Ave	S of Winans Ave	S of Winans Ave	69	8	Cast iron	8/18/1913	96	N		Low	0	4	0	5	0	0	1.75	910	\$11,385	\$56,249,307

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Ocean Ave	E of Green Bridge	S of Hazard Rd	1091	8	Cast iron	5/1/1915	94	N		Low	0	4	0	5	0	0	1.75	911	\$180,015	\$56,429,322
New	Fin	Ocean Ave	Carroll Ave	S of Hazard Rd	4223	8	Cast iron	5/1/1914	95	N		Low	0	4	0	5	0	0	1.75	912	\$696,795	\$57,126,117
New	Fin	Ocean Ave	Carroll Ave		39	8	Cast Iron	10/2/1923	86	N		Low	0	4	0	5	0	0	1.75	913	\$6,435	\$57,132,552
New	Fin	Ocean Ave	S of Winans Ave	Harrison Ave	2786	8	AC	5/1/1946	63	N		Low	0	3	0	5	0	0	1.5	1098	\$459,690	\$57,592,242
New	Fin	Ocean Ave	S of Winans Ave	S of Winans Ave	33	8	Cast iron	5/1/1946	63	N		Low	0	3	0	5	0	0	1.5	1099	\$5,445	\$57,597,687
New	Fin	Ocean Ave	Carroll Ave	S of Jeffrey Rd	542	8	Cast iron	9/1/1939	70	N		Low	0	3	0	5	0	0	1.5	1100	\$89,430	\$57,687,117
New	Fin	Ocean Ave	Harrison Ave	Prices Cove Rd	2383	8	AC	3/1/1966	43	N		Low	0	2	0	5	0	0	1.25	1272	\$393,195	\$58,080,312
New	Fin	Ocean Ave	W of Green Bridge	E of Green Bridge	350	8	Ductile Iron	1/1/1995	14	N		Low	0	0	0	0	0	0	0	1668	\$57,750	\$58,138,062
New	Fin	Ocean Ave			3804	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1669	\$627,660	\$58,765,722
New	Fin	Ocean Ave	S of Jeffrey Rd	Coggeshall Ave	2035	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1670	\$335,775	\$59,101,497
New	Fin	Ocean Heights Ave	Hazard Ave	Southerly	844	12	AC	9/1/1969	40	N		Low	0	2	0	5	0	0	1.25	1273	\$147,700	\$59,249,197
New	Fin	Ocean Heights Ave	Southerly	toward cul-de-sac	550	12	AC	5/1/1973	36	N		Low	0	1	0	5	0	0	1	1394	\$96,250	\$59,345,447
New	Fin	Ocean Heights Ave	Cul-de-sac	S to Ocean Ave	337	12	AC	9/1/1973	36	N		Low	0	1	0	5	0	0	1	1395	\$58,975	\$59,404,422
New	Fin	Ocean Heights Ave	Ocean Ave		32	8	AC	9/1/1973	36	N		Low	0	1	0	5	0	0	1	1396	\$5,280	\$59,409,702
New	Fin	Ochre Point Ave	Ruggles Ave	Narragansett Av	2594	12	Cast iron	3/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	914	\$453,950	\$59,863,652
New	Fin	Old Beach Rd	Greenough Pl	Rhode Island Av	782.7	6	Cast iron	4/26/1922	87	N		High	2.5	4	0	5	5	0	2.875	258	\$129,146	\$59,992,797
New	Fin	Old Beach Rd	Chapel St	Bellevue Ave	662.5	12	Cast iron	10/1/1950	59	N		High	0	2	0	5	5	0	1.75	915	\$115,938	\$60,108,735
New	Fin	Old Beach Rd	Chapel St	Greenough Pl	453	12	Cast iron	9/1/1951	58	N		High	0	2	0	5	5	0	1.75	916	\$79,275	\$60,188,010
New	Fin	Old Beach Rd	Rhode Island Ave	Gibbs Ave	690	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1565	\$113,850	\$60,301,860
New	Fin	Old Fort Rd	Ruggles Ave	Northerly	212.25	6	Cast iron	8/27/1937	72	N		Med	2.5	3	0	5	2.5	0	2.375	476	\$35,021	\$60,336,881
New	Fin	Old Fort Rd			60	6	Cast Iron	1/1/1938	71	N		Med	2.5	3	0	5	2.5	0	2.375	477	\$9,900	\$60,346,781
New	Fin	Old Fort Rd	Northerly	Ernest Pl	65	6	Cast iron	10/1/1965	44	N		Med	2.5	2	0	5	2.5	0	2.125	606	\$10,725	\$60,357,506
New	Fin	Old Fort Rd	Carroll Ave	S of Palmer St	572	6	Cast iron			N	1	Med	2.5	0	2.5	5	2.5	0	2	699	\$94,380	\$60,451,886
New	Fin	Old Fort Rd	S of Palmer St	Norman Ave	104	6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1031	\$17,160	\$60,469,046
New	Fin	Palmer St	Carroll Ave	Westerly	710.8	6	Cast Iron	11/1/1918	91	N		Med	2.5	4	0	5	2.5	0	2.625	343	\$117,282	\$60,586,328
New	Fin	Park St	Gould St	W of Broadway	497.8	4	Ductile Iron			N		High	5	0	0	0	5	0	1.75	917	\$82,137	\$60,668,465
New	Fin	Parker Ave	Bellevue Ave	Annandale Rd	1628	12	AC	11/1/1971	38	N	1	High	0	1	2.5	5	5	0	1.875	802	\$284,900	\$60,953,365
New	Fin	Peckham Ave	Broadway		14	6	Cast Iron	1/1/1923	86	N		High	2.5	4	0	5	5	0	2.875	259	\$2,310	\$60,955,675
New	Fin	Peckham Ave	Broadway	Russell Ave	680	6	Cast iron	1/1/1910	99	N		High	2.5	4	0	5	5	0	2.875	260	\$112,200	\$61,067,875
New	Fin	Peckham Ave	Russell Ave		13	8	AC	1/1/1980	29	N		High	0	1	0	5	5	0	1.5	1101	\$2,145	\$61,070,020
New	Fin	Pelham St	Spring St		35	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	803	\$5,775	\$61,075,795
New	Fin	Pelham St	Thames St		49	8	AC			N		High	0	0	0	5	5	0	1.25	1274	\$8,085	\$61,083,880
New	Fin	Pelham St	Thames St	Spring St	520	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1566	\$85,800	\$61,169,680
New	Fin	Pelham St	Spring St	Bellevue Ave	1180	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1567	\$194,700	\$61,364,380
New	Fin	Pell St	Greenough Pl	Northerly	157.83	6	Cast iron	11/7/1919	90	N		High	2.5	4	0	5	5	0	2.875	261	\$26,042	\$61,390,422
New	Fin	Pell St	Northerly	Kay St	294.42	6	Cast iron	5/5/1920	89	N		High	2.5	4	0	5	5	0	2.875	262	\$48,579	\$61,439,001
New	Fin	Pell St	Greenough Pl		41	8	AC	1/1/1970	39	N		High	0	1	0	5	5	0	1.5	1102	\$6,765	\$61,445,766
New	Fin	Pell St	Kay St		41	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1103	\$6,765	\$61,452,531
New	Fin	Pennacook St	Sagamore St	Westerly	208	6	Cast iron	9/10/1920	89	N		Med	2.5	4	0	5	2.5	0	2.625	344	\$34,320	\$61,486,851
New	Fin	Pennacook St			183.75	6	Cast iron	10/19/1928	81	N		Med	2.5	4	0	5	2.5	0	2.625	345	\$30,319	\$61,517,170
New	Fin	Pennacook St			84.5	6	Cast iron	9/16/1929	80	N		Med	2.5	4	0	5	2.5	0	2.625	346	\$13,943	\$61,531,112
New	Fin	Pennacook St			60	6	Cast iron	1/14/1932	77	N		Med	2.5	3	0	5	2.5	0	2.375	478	\$9,900	\$61,541,012
New	Fin	Pennacook St			182	6	Cast iron	11/1/1937	72	N		Med	2.5	3	0	5	2.5	0	2.375	479	\$30,030	\$61,571,042
New	Fin	Pennacook St	Westerly	Hillside Ave	19	6	Cast iron	1/1/1941	68	N		Med	2.5	3	0	5	2.5	0	2.375	480	\$3,135	\$61,574,177
New	Fin	Perry Mill Whf	Thames St	Westerly	325	6	AC	9/1/1969	40	Y		High	2.5	2	0	5	5	5	2.875	263	\$53,625	\$61,627,802
New	Fin	Perry St	Bellevue Ave	Spring St	940	12	Cast iron	6/1/1915	94	N		High	0	4	0	5	5	0	2.25	562	\$164,500	\$61,792,302
New	Fin	Perry St	Bellevue Ave	Spring St	920	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	804	\$151,800	\$61,944,102
New	Fin	Pine St	Second St	Third St	233.08	4	Cast Iron	7/10/1908	101	N		High	5	5	0	5	5	0	3.75	66	\$38,458	\$61,982,561
New	Fin	Pond Ave	Wheatland Blvd		30	4	Cast iron			N	1	High	5	0	2.5	5	5	0	2.875	264	\$4,950	\$61,987,511
New	Fin	Pond Ave	Wheatland Blvd	Warner St	885	8	AC	6/1/1960	49	N		High	0	2	0	5	5	0	1.75	918	\$146,025	\$62,133,536
New	Fin	Pond Ave	Warner St		43	8	AC	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	919	\$7,095	\$62,140,631
New	Fin	Pope St	Easterly	Spring St	124	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	420	\$20,460	\$62,161,091
New	Fin	Pope St	Spring St		35	6	AC	1/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	481	\$5,775	\$62,166,866
New	Fin	Pope St	Spring St	East St	387	8	AC	3/1/1970	39	Y		High	0	1	0	5	5	5	2	700	\$63,855	\$62,230,721
New	Fin	Pope St	Thames St	Easterly	417	8	AC	8/1/1962	47	N		High	0	2	0	5	5	0	1.75	920	\$68,805	\$62,299,526
New	Fin	Poplar St*	Farewell St	Third St	926	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1275	\$162,050	\$62,461,576
New	Fin	Poplar St*	Third St	Washington St	570	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1276	\$99,750	\$62,561,326
New	Fin	Porter Ave	Greene Ln	Southerly	95	2	Cem Lined	10/1/1952	57	Y		High	5	2	0	5	5	5	3.5	90	\$15,675	\$62,577,001
New	Fin	Potter St	Thames St	Marchant St	588	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1641	\$97,020	\$62,674,021
New	Fin	Powell Ave	Broadway		13	8	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	921	\$2,145	\$62,676,166
New	Fin	Powell Ave	Broadway	Kay St	1505	12	AC	6/1/1969	40	N		High	0	2	0	5	5	0	1.75	922	\$263,375	\$62,939,541

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
New	Fin	Prairie Ave	Kay St		72.75	16	Cast iron	6/1/1920	89	N		High	0	4	0	5	5	0	2.25	563	\$14,550	\$62,954,091
New	Fin	Prairie Ave	Kay St	Ellery Rd	326	16	Cast iron	9/1/1939	70	N		High	0	3	0	5	5	0	2	701	\$65,200	\$63,019,291
New	Fin	Prairie Ave	Ellery Rd	Champlin St	540	16	Cast iron	10/1/1941	68	N		High	0	3	0	5	5	0	2	702	\$108,000	\$63,127,291
New	Fin	Prairie Ave	Champlin St	Catherine St	695	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1104	\$121,625	\$63,248,916
New	Fin	Prescott Hall Rd	Garfield St	Van Zandt Ave	1067	8	AC	5/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1277	\$176,055	\$63,424,971
New	Fin	Prescott Pl	Hall Ave	End	127	1.5	Cem Lined	3/10/1903	106	Y	1	High	5	5	2.5	5	5	5	4.625	5	\$20,955	\$63,445,926
New	Fin	Price's Cove Rd	Ocean Ave	Southerly	1043	6	Cast iron	6/7/1915	94	Y		Low	2.5	4	0	5	0	5	2.875	265	\$172,095	\$63,618,021
New	Fin	Prospect Hill St	Spring St		52	6	Cast iron	1/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	482	\$8,580	\$63,626,601
New	Fin	Prospect Hill St	Bellevue Ave		15	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	805	\$2,475	\$63,629,076
New	Fin	Prospect Hill St	Thames St	Spring St	491	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1489	\$81,015	\$63,710,091
New	Fin	Prospect Hill St	Spring St	Bellevue Ave	1178	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1490	\$194,370	\$63,904,461
New	Fin	Record St	Warner St	Channing St	263	2	Iron Pipe	8/31/1905	104	N		High	5	5	0	5	5	0	3.75	67	\$43,395	\$63,947,856
New	Fin	Red Cross Ave	Memorial Blvd	Old Beach Rd	1434	8	Cast iron	6/1/1939	70	N		High	0	3	0	5	5	0	2	703	\$236,610	\$64,184,466
New	Fin	Red Cross Ter	Red Cross Ave	Westerly	277	4	AC	7/27/1938	71	Y		High	5	3	0	5	5	5	3.75	68	\$45,705	\$64,230,171
New	Fin	Red Cross Ter	Westerly	End	142.8	4	AC	12/1/1947	62	Y		High	5	3	0	5	5	5	3.75	69	\$23,562	\$64,253,733
New	Fin	Red Cross Ter	Red Cross Ave		9.5	6	Cast iron	1/1/1939	70	Y		High	2.5	3	0	5	5	5	3.125	165	\$1,568	\$64,255,300
New	Fin	Redwood St	Bellevue Ave	Cottage St	495	6	Cast iron	5/8/1926	83	N	1	High	2.5	4	2.5	5	5	0	3.25	135	\$81,675	\$64,336,975
New	Fin	Rhode Island Ave	Broadway	Tyler St	330	8	AC	11/1/1961	48	N		High	0	2	0	5	5	0	1.75	923	\$54,450	\$64,391,425
New	Fin	Rhode Island Ave	Tyler St	Kay St	974	8	AC	7/1/1969	40	N		High	0	2	0	5	5	0	1.75	924	\$160,710	\$64,552,135
New	Fin	Rhode Island Ave	Kay St	Champlin St	783	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1105	\$137,025	\$64,689,160
New	Fin	Rhode Island Ave	Champlin St	Francis St	151	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1106	\$30,200	\$64,719,360
New	Fin	Rhode Island Ave	Francis St	Memorial Blvd	2821	12	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1107	\$493,675	\$65,213,035
New	Fin	Rhode Island Ave	Memorial Blvd		6	16	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1108	\$1,200	\$65,214,235
New	Fin	Rhode Island Ave South	Memorial Blvd	Southerly	31.5	8	Cast iron	3/1/1946	63	N		High	0	3	0	5	5	0	2	704	\$5,198	\$65,219,433
New	Fin	Rhode Island Ave South			217	8	AC	4/1/1947	62	N		High	0	3	0	5	5	0	2	705	\$35,805	\$65,255,238
New	Fin	Rhode Island Ave South	Southerly	Merton Rd	91	8	AC	11/1/1955	54	N		High	0	2	0	5	5	0	1.75	925	\$15,015	\$65,270,253
New	Fin	Rhode Island Ave South		Merton Rd	6	8	AC	10/1/1964	45	N		High	0	2	0	5	5	0	1.75	926	\$990	\$65,271,243
New	Fin	Ridge Rd	Harrison Ave	Castle Hill Ave	3594	8	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1491	\$593,010	\$65,864,253
New	Fin	Ridge Rd			376	8	Ductile Iron	1/1/2006	3	N		Low	0	0	0	0	0	0	0	1671	\$62,040	\$65,926,293
New	Fin	River Ln			143.12	2	Iron Pipe	06/25/1890	114	Y		High	5	5	0	5	5	5	4.25	21	\$23,615	\$65,949,907
New	Fin	Robinson St	Gibbs Ave		14	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	806	\$2,310	\$65,952,217
New	Fin	Robinson St	Gibbs Ave	Whitwell Ave	362	8	AC	7/1/1971	38	N		High	0	1	0	5	5	0	1.5	1109	\$59,730	\$66,011,947
New	Fin	Rolling Green	Adm Kalbfus Rd	Northerly	1205	8	AC	6/1/1969	40	Y		Med	0	2	0	5	2.5	5	2	706	\$198,825	\$66,210,772
New	Fin	Rose St			132	2	Cem Lined	7/14/1923	86	Y		Med	5	4	0	5	2.5	5	3.75	70	\$21,780	\$66,232,552
New	Fin	Rose St			65.5	6	Cast Iron			Y		Med	2.5	0	0	5	2.5	5	2.125	607	\$10,808	\$66,243,360
New	Fin	Roseneath Ave	Wellington Ave	Narragansett Av	632	12	Cast iron			N		Med	0	0	0	5	2.5	0	1	1397	\$110,600	\$66,353,960
New	Fin	Roseneath Ave	Atlantic St	Harrison Ave	642	20	Cast iron			N		Med	0	0	0	5	2.5	0	1	1398	\$128,400	\$66,482,360
New	Fin	Roseneath Ave	Narragansett Ave	Atlantic St	543	20	Cast iron			N		Med	0	0	0	5	2.5	0	1	1399	\$108,600	\$66,590,960
New	Fin	Rovensky Ave	Bellevue Ave	Coggeshall Ave	725	8	Cast iron			N		Low	0	0	0	5	0	0	0.75	1492	\$119,625	\$66,710,585
New	Fin	Rowland Rd	Northerly		154	2	Cem Lined	5/1/1928	81	N		Med	5	4	0	5	2.5	0	3.25	136	\$25,410	\$66,735,995
New	Fin	Rowland Rd	Northerly		105.5	2	Cem Lined	7/25/1929	80	N		Med	5	4	0	5	2.5	0	3.25	137	\$17,408	\$66,753,402
New	Fin	Rowland Rd	Northerly	Adm Kalbfus Rd	81	2	Cem Lined	4/1/1932	77	N		Med	5	3	0	5	2.5	0	3	191	\$13,365	\$66,766,767
New	Fin	Rowland Rd	Canonicus Ave	Northerly	43.4	6	Cast iron	5/1/1928	81	N		Med	2.5	4	0	5	2.5	0	2.625	347	\$7,161	\$66,773,928
New	Fin	Rowland Rd	Adm Kalbfus Rd	Southerly	18	8	Ductile Iron	1/22/1997	12	N		Med	0	0	0	0	2.5	0	0.25	1642	\$2,970	\$66,776,898
New	Fin	Ruggles Ave	Ochre Point Ave	Easterly	308	8	Cast iron	2/1/1939	70	Y		Med	0	3	0	5	2.5	5	2.25	564	\$50,820	\$66,827,718
New	Fin	Ruggles Ave	Carroll Ave	Easterly	157.2	8	Cast iron	9/23/1936	73	N		Med	0	3	0	5	2.5	0	1.75	927	\$25,938	\$66,853,656
New	Fin	Ruggles Ave	Easterly		48	8	Cast iron	10/20/1936	73	N		Med	0	3	0	5	2.5	0	1.75	928	\$7,920	\$66,861,576
New	Fin	Ruggles Ave	Easterly	Florence Ave	40	8	Cast iron	3/1/1938	71	N		Med	0	3	0	5	2.5	0	1.75	929	\$6,600	\$66,868,176
New	Fin	Ruggles Ave	Florence Ave	Coggeshall Ave	1502	8	Cast iron	1/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	930	\$247,830	\$67,116,006
New	Fin	Ruggles Ave	Bellevue Ave	Ochre Point Ave	2110	12	Cast iron	2/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	931	\$369,250	\$67,485,256
New	Fin	Ruggles Ave	Coggeshall Ave		650	8	Cast iron			N		Med	0	0	0	5	2.5	0	1	1400	\$107,250	\$67,592,506
New	Fin	Ruggles Ave	Hazard Rd	Carroll Ave	1740	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1643	\$304,500	\$67,897,006
New	Fin	Russell Ave	Malbone Rd			6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	807	\$0	\$67,897,006
New	Fin	Russell Ave	Malbone Rd	Peckham Ave	852	8	AC	9/1/1980	29	N		High	0	1	0	5	5	0	1.5	1110	\$140,580	\$68,037,586
New	Fin	Sagamore St	Canonicus Ave	Adm Kalbfus Rd	271	2	Cem Lined	3/31/1920	89	N		Med	5	4	0	5	2.5	0	3.25	138	\$44,715	\$68,082,301
New	Fin	Sagamore St	Adm Kalbfus Rd		21.3	1.5	Copper	7/1/1941	68	N		Med	5	3	0	3	2.5	0	2.7	301	\$3,515	\$68,085,816
New	Fin	Sagamore St	Canonicus Ave	Pennacook St	91.2	6	Cast iron	9/10/1920	89	N		Med	2.5	4	0	5	2.5	0	2.625	348	\$15,048	\$68,100,864
New	Fin	School St	Mary St		33.7	4	Cast iron	8/24/1926	83	N		High	5	4	0	5	5	0	3.5	91	\$5,561	\$68,106,424
New	Fin	School St	Church St		12.7	6	Cast iron	9/27/1921	88	N		High	2.5	4	0	5	5	0	2.875	266	\$2,096	\$68,108,520
New	Fin	School St	Church St	Touro St	565.8	6	Cast iron	8/24/1926	83	N		High	2.5	4	0	5	5	0	2.875	267	\$93,357	\$68,201,877
New	Fin	School St	Touro St		18	6	Cast iron	9/23/1926	83	N		High	2.5	4	0	5	5	0	2.875	268	\$2,970	\$68,204,847

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
New	Fin	Scotts Wharf	Thames St	Westerly	116.9	2	Cem Lined			Y		High	5	0	0	5	5	5	3	192	\$19,289	\$68,224,135
New	Fin	Seaview Ave	Cliff Ave	Easterly	500.61	4	Cast Iron	03/16/1881	123	Y		High	5	5	0	5	5	5	4.25	22	\$82,601	\$68,306,736
New	Fin	Second St	Battery St	Sycamore St	804	6	Cast Iron			N		High	2.5	0	0	5	5	0	1.875	808	\$132,660	\$68,439,396
New	Fin	Second St	Bridge St	Goat Is Connect	358	8	AC			Y		High	0	0	0	5	5	5	1.75	932	\$59,070	\$68,498,466
New	Fin	Second St	Poplar St	Chestnut St	682	8	AC	7/1/1972	37	N		High	0	1	0	5	5	0	1.5	1111	\$112,530	\$68,610,996
New	Fin	Second St	Bridge St	Elm St	135	8	Ductile Iron	6/1/1999	10	N		High	0	0	0	0	5	0	0.5	1568	\$22,275	\$68,633,271
New	Fin	Second St	Elm St	Poplar St	217	8	Ductile Iron	7/1/1999	10	N		High	0	0	0	0	5	0	0.5	1569	\$35,805	\$68,669,076
New	Fin	Second St	Chestnut St	Battery St	693	8	Ductile Iron	7/1/2000	9	N		High	0	0	0	0	5	0	0.5	1570	\$114,345	\$68,783,421
New	Fin	Sharon Ct	Thames St	W to End	237	4	Ductile Iron			Y		Med	5	0	0	0	2.5	5	2	707	\$39,105	\$68,822,526
New	Fin	Sharon Ct	Thames St		32	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1493	\$5,280	\$68,827,806
New	Fin	Sheffield Ave	Hall Ave		40	8	AC			N		Med	0	0	0	5	2.5	0	1	1401	\$6,600	\$68,834,406
New	Fin	Sheffield Ave	Hall Ave	Malbone Rd	925	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1644	\$152,625	\$68,987,031
New	Fin	Sheilds St	Ruggles Ave	End	159	8	AC	6/2/1969	40	Y		Med	0	2	0	5	2.5	5	2	708	\$26,235	\$69,013,266
New	Fin	Shepard Ave	Bellevue Ave	Lawrence Ave	1490	6	Cast Iron	1/1/1903	106	N		Med	2.5	5	0	5	2.5	0	2.875	269	\$245,850	\$69,259,116
New	Fin	Shepard Ave	Lawrence Ave	Ochre Point Ave	583	6	Cast Iron	3/1/1931	78	N		Med	2.5	3	0	5	2.5	0	2.375	483	\$96,195	\$69,355,311
New	Fin	Sherman St			100	4	Cast Iron			Y	1	High	5	0	2.5	5	5	5	3.375	120	\$16,500	\$69,371,811
New	Fin	Shields St	Ruggles Ave	Northerly	379	8	AC	8/1/1968	41				0	2	0	5	0	0	1.25	1278	\$62,535	\$69,434,346
New	Fin	Simmons St	Marchant St	Thames St	608	8	AC	8/1/1965	44	N		Med	0	2	0	5	2.5	0	1.5	1112	\$100,320	\$69,534,666
New	Fin	Slate Hill Farm			61.31	8	AC						0	0	0	5	0	0	0.75	1494	\$10,116	\$69,544,782
New	Fin	Slocum St	East Bowery St	Middleton Ave	565	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1571	\$93,225	\$69,638,007
New	Fin	Slocum St	Middleton Ave	Annandale Rd	420	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1572	\$69,300	\$69,707,307
New	Fin	Smith Ave	Thurston Ave	Bedlow Ave	240	8	AC			N		High	0	0	0	5	5	0	1.25	1279	\$39,600	\$69,746,907
New	Fin	Smith Ave	Malbone Rd	Thurston Ave	625	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1573	\$103,125	\$69,850,032
New	Fin	South Baptist St	Spring St		28	6		6/1/1976	33	N		High	2.5	1	0	5	5	0	2.125	608	\$4,620	\$69,854,652
New	Fin	South Baptist St	Spring St	Thames St	549	8	AC	6/1/1976	33	N		High	0	1	0	5	5	0	1.5	1113	\$90,585	\$69,945,237
New	Fin	Southmayd St	Homer St	Halsey St	226	8	AC	2/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1114	\$37,290	\$69,982,527
New	Fin	Southmayd St	Homer St		9	8	AC			N		Med	0	0	0	5	2.5	0	1	1402	\$1,485	\$69,984,012
New	Fin	Spouting Rock Dr	Coggeshall Ave	Loop	1200	8	PVC			N		Low	0	0	0	2	0	0	0.3	1634	\$198,000	\$70,182,012
New	Fin	Spring St	Perry St	N of Narragansett	1450	6	Cast Iron			N	2	High	2.5	0	5	5	5	0	2.625	349	\$239,250	\$70,421,262
New	Fin	Spring St	Broadway	Memorial Blvd V	2722	16	Cast iron	1/1/1967	42	N		High	0	2	0	5	5	0	1.75	933	\$544,400	\$70,965,662
New	Fin	Spring St	Memorial Blvd W	Perry St	1889	12	AC	1/1/1967	42	N		High	0	2	0	5	5	0	1.75	934	\$330,575	\$71,296,237
New	Fin	Spring St	N of Narragansett	Morton Ave	860	12	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1574	\$150,500	\$71,446,737
New	Fin	Spring Wharf	Thames St	Westerly	264	4	Cast iron	6/2/1902	107	Y		High	5	5	0	5	5	5	4.25	23	\$43,560	\$71,490,297
New	Fin	Stacy Ave	Norman Ave	Palmer Ave	215	6	Cast iron	11/1/1915	94	N	1	Med	2.5	4	2.5	5	2.5	0	3	193	\$35,475	\$71,525,772
New	Fin	Stoddard Ct			80.95	2	Cem Lined			Y		High	5	0	0	5	5	5	3	194	\$13,357	\$71,539,129
New	Fin	Sullivan St	Harrison Ave	S to End	292	2	Cem Lined	11/10/1927	82	Y		Low	5	4	0	5	0	5	3.5	92	\$48,180	\$71,587,309
New	Fin	Summer St	Broadway	Malbone Rd	604	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1115	\$99,660	\$71,686,969
New	Fin	Summer St	Broadway		14	8	Cast iron			N		High	0	0	0	5	5	0	1.25	1280	\$2,310	\$71,689,279
New	Fin	Sunnyside Pl	Old Beach Rd		100	6	Cast iron			Y		High	2.5	0	0	5	5	5	2.375	484	\$16,500	\$71,705,779
New	Fin	Sunnyside Pl	Old Beach Rd	End	326	8	AC	8/1/1969	40	Y		High	0	2	0	5	5	5	2.25	565	\$53,790	\$71,759,569
New	Fin	Sunshine Ct	Third St	End	310	2	Cem Lined	9/10/1926	83	Y		High	5	4	0	5	5	5	4	43	\$51,150	\$71,810,719
New	Fin	Sunshine Ct	Third St		14	1.5	Copper			Y		High	5	0	0	3	5	5	2.7	302	\$2,310	\$71,813,029
New	Fin	Sycamore St	Third St	Washington St	612	12	Cast iron	9/1/1968	41	N		High	0	2	0	5	5	0	1.75	935	\$107,100	\$71,920,129
New	Fin	Sylvan St	Berkeley Ave	Sylvan Ter	326	6	Cast iron	9/21/1912	97	N		High	2.5	4	0	5	5	0	2.875	270	\$53,790	\$71,973,919
New	Fin	Sylvan St	Sylvan Ter	Parker Ave	281	6	Cast iron	6/22/1927	82	N		High	2.5	4	0	5	5	0	2.875	271	\$46,365	\$72,020,284
New	Fin	Sylvan St	Parker Ave		35	8	AC	1/1/1971	38	N		High	0	1	0	5	5	0	1.5	1116	\$5,775	\$72,026,059
New	Fin	Sylvan St	Berkeley Ave		30	8	Ductile Iron	9/1/2001	8	N		High	0	0	0	0	5	0	0.5	1575	\$4,950	\$72,031,009
New	Fin	Sylvan Ter	Sylvan St	Easterly	177.5	6	AC	8/1/1953	56	N		High	2.5	2	0	5	5	0	2.375	485	\$29,288	\$72,060,296
New	Fin	Sylvan Ter	Middleton Ave		16	6	Cast iron	11/1/1954	55	N		High	2.5	2	0	5	5	0	2.375	486	\$2,640	\$72,062,936
New	Fin	Sylvan Ter	Middleton Ave	Westerly	269	6	AC	11/1/1954	55	N		High	2.5	2	0	5	5	0	2.375	487	\$44,385	\$72,107,321
New	Fin	Sylvan Ter	Loop		105	6	Ductile Iron			N		High	2.5	0	0	0	5	0	1.125	1375	\$17,325	\$72,124,646
New	Fin	Thames St	Long Whf Mall	Touro St	71	12	Cast iron	11/1/1953	56	N		High	0	2	0	5	5	0	1.75	936	\$12,425	\$72,137,071
New	Fin	Thames St	Marlborough St	Long Whf Mall	330	12	AC	3/1/1970	39	N		High	0	1	0	5	5	0	1.5	1117	\$57,750	\$72,194,821
New	Fin	Thames St	Touro St	Mill St	1085	12	AC	7/1/1971	38	N		High	0	1	0	5	5	0	1.5	1118	\$189,875	\$72,384,696
New	Fin	Thames St	Mill St	Memorial Blvd E	929	12	AC	3/1/1974	35	N		High	0	1	0	5	5	0	1.5	1119	\$162,575	\$72,547,271
New	Fin	Thames St	Poplar St	Marlborough St	1008	12	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1495	\$176,400	\$72,723,671
New	Fin	Thames St	Memorial Blvd Ex	Dearborn St	1290	12	Ductile Iron	1/1/1979	30	N		High	0	1	0	0	5	0	0.75	1496	\$225,750	\$72,949,421
New	Fin	Thames St	Dearborn St	Narragansett Av	1560	16	Ductile Iron	1/1/1979	30	N		High	0	1	0	0	5	0	0.75	1497	\$312,000	\$73,261,421
New	Fin	Thames St	Narragansett Ave	Morton Ave	730	12	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1576	\$127,750	\$73,389,171
New	Fin	Third St	Cypress St	Training Station	2240	12	Cast iron	11/1/1912	97	N		High	0	4	0	5	5	0	2.25	566	\$392,000	\$73,781,171
New	Fin	Third St	Cherry St	Cypress St	1629	8	Cast iron	4/1/1939	70	N		High	0	3	0	5	5	0	2	709	\$268,785	\$74,049,956

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
New	Fin	Third St	Sycamore St	Cypress St	340	12	Cast iron	8/1/1968	41	N		High	0	2	0	5	5	0	1.75	937	\$59,500	\$74,109,456
New	Fin	Third St	Marsh St	Bridge St	209	8	AC	6/1/1973	36	N		High	0	1	0	5	5	0	1.5	1120	\$34,485	\$74,143,941
New	Fin	Third St	Bridge St	Cherry St	1426	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1577	\$235,290	\$74,379,231
New	Fin	Third St Ext	Training Station R	Northerly	278	2	Cem Lined	11/3/1920	89	Y		High	5	4	0	5	5	5	4	44	\$45,870	\$74,425,101
New	Fin	Thomas St	Memorial Blvd W	John St	120	6	AC	9/1/1967	42	N		High	2.5	2	0	5	5	0	2.375	488	\$19,800	\$74,444,901
New	Fin	Thomas St	Memorial Blvd W		30	6	Cast iron	1/1/1966	43	N		High	2.5	2	0	5	5	0	2.375	489	\$4,950	\$74,449,851
New	Fin	Thomas St	Memorial Blvd W	Golden Hill St	233	8	AC	9/1/1970	39	N		High	0	1	0	5	5	0	1.5	1121	\$38,445	\$74,488,296
New	Fin	Thurston Ave	Broadway		14.3	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	809	\$2,360	\$74,490,656
New	Fin	Thurston Ave	Smith Ave	Broadway	1161	8	AC	9/1/1959	50	N		High	0	2	0	5	5	0	1.75	938	\$191,565	\$74,682,221
New	Fin	Tilden Ave	Warner St	Wheatland Blvd	650.47	6	Cast Iron	6/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	350	\$107,328	\$74,789,549
New	Fin	Tilley Ave	Van Zandt Ave		29.7	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	810	\$4,901	\$74,794,449
New	Fin	Tilley Ave	Van Zandt Ave	Gould St	741	8	AC	6/1/1956	53	N		High	0	2	0	5	5	0	1.75	939	\$122,265	\$74,916,714
New	Fin	Tompkins Ct	Fillmore St	End	85	2	Cem Lined			Y		High	5	0	0	5	5	5	3	195	\$14,025	\$74,930,739
New	Fin	Tompkins Ct	Catherine St	Fillmore St	282	8	Ductile Iron			N		High	0	0	0	0	5	0	0.5	1578	\$46,530	\$74,977,269
New	Fin	Toppa Blvd	Kay St	Northerly	149	8	Cast iron	6/1/1955	54	Y		High	0	2	0	5	5	5	2.25	567	\$24,585	\$75,001,854
New	Fin	Toppa Blvd			91.5	8	Cast iron	4/1/1956	53	Y		High	0	2	0	5	5	5	2.25	568	\$15,098	\$75,016,952
New	Fin	Toppa Blvd	Kempsen St	Southerly	48	8	Cast iron	4/1/1956	53	Y		High	0	2	0	5	5	5	2.25	569	\$7,920	\$75,024,872
New	Fin	Toppa Blvd	Bliss Rd	Southerly	736	8	Cast iron	3/28/1951	58	N		High	0	2	0	5	5	0	1.75	940	\$121,440	\$75,146,312
New	Fin	Toppa Blvd			80	8	Cast iron	11/1/1951	58	N		High	0	2	0	5	5	0	1.75	941	\$13,200	\$75,159,512
New	Fin	Toppa Blvd			256	8	Cast iron	6/1/1953	56	N		High	0	2	0	5	5	0	1.75	942	\$42,240	\$75,201,752
New	Fin	Touro St	Spring St		23	6	Cast iron	10/1/1946	63	N		High	2.5	3	0	5	5	0	2.625	351	\$3,795	\$75,205,547
New	Fin	Touro St	Spring St		22	6	AC			N	1	High	2.5	0	2.5	5	5	0	2.25	570	\$3,630	\$75,209,177
New	Fin	Touro St	Spring St	Southerly	537	8	Cast iron	10/1/1946	63	N		High	0	3	0	5	5	0	2	710	\$88,605	\$75,297,782
New	Fin	Touro St	Southerly	Thames St	155	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	811	\$25,575	\$75,323,357
New	Fin	Touro St	Spring St	Kay St	1018	8	Ductile Iron	9/1/1978	31	N		High	0	1	0	0	5	0	0.75	1498	\$167,970	\$75,491,327
New	Fin	Training Station Rd	Third St	Westerly	720	12	Cast iron	11/1/1914	95	Y		Med	0	4	0	5	2.5	5	2.5	421	\$126,000	\$75,617,327
New	Fin	Tyler St	Rhode Island Ave	Cranston Ave	380	4	AC	9/1/1902	107	N		High	5	5	0	5	5	0	3.75	71	\$62,700	\$75,680,027
New	Fin	Tyler St	Cranston Ave		14	6	Cast iron	1/1/1939	70	N		High	2.5	3	0	5	5	0	2.625	352	\$2,310	\$75,682,337
New	Fin	Tyler St			6	6	AC	11/1/1961	48	N		High	2.5	2	0	5	5	0	2.375	490	\$990	\$75,683,327
New	Fin	Tyler St	Rhode Island Ave		28	8	AC	11/1/1961	48	N		High	0	2	0	5	5	0	1.75	943	\$4,620	\$75,687,947
New	Fin	Underwood Ct			100	2	Iron Pipe			Y	1	High	5	0	2.5	5	5	5	3.375	121	\$16,500	\$75,704,447
New	Fin	Van Zandt Ave	Second St	Bayside Ave	215	4	Cast iron			N		High	5	0	0	5	5	0	2.5	422	\$35,475	\$75,739,922
New	Fin	Van Zandt Ave	E of Congdon Ave	Tilley Ave	209	8	Cast iron	1/1/1939	70	N		High	0	3	0	5	5	0	2	711	\$34,485	\$75,774,407
New	Fin	Van Zandt Ave	Tilley Ave	Farewell St	1124.7	8	Cast iron	6/1/1930	79	N		High	0	3	0	5	5	0	2	712	\$185,576	\$75,959,982
New	Fin	Van Zandt Ave	Malbone Rd	Albro St	747	8	AC	9/14/1955	54	N		High	0	2	0	5	5	0	1.75	944	\$123,255	\$76,083,237
New	Fin	Van Zandt Ave	Albro St	Hall Ave	175	8	Cast iron			N		High	0	0	0	5	5	0	1.25	1281	\$28,875	\$76,112,112
New	Fin	Van Zandt Ave	Third St	Second St	225	8	AC			N		High	0	0	0	5	5	0	1.25	1282	\$37,125	\$76,149,237
New	Fin	Van Zandt Ave	Hall Ave	E of Congdon A	175	8	Ductile Iron	12/1/1990	19	N		High	0	0	0	0	5	0	0.5	1579	\$28,875	\$76,178,112
New	Fin	Vanderbilt Ave			85	2	Cem Lined	3/1/1938	71	Y		Med	5	3	0	5	2.5	5	3.5	93	\$14,025	\$76,192,137
New	Fin	Vanderbilt Ave			35	1.5	Cem Lined	3/1/1938	71	Y		Med	5	3	0	5	2.5	5	3.5	94	\$5,775	\$76,197,912
New	Fin	Vanderbilt Ave			35	1.5	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	285	\$5,775	\$76,203,687
New	Fin	Vanderbilt Ave			60	2	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	286	\$9,900	\$76,213,587
New	Fin	Vanderbilt Ave			60	2	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	287	\$9,900	\$76,223,487
New	Fin	Vanderbilt Ave			15	2	Copper	9/1/2001	8	Y		Med	5	0	0	3	2.5	5	2.45	426	\$2,475	\$76,225,962
New	Fin	Vaughan Ave			159.39	6	Cast iron			Y		Med	2.5	0	0	5	2.5	5	2.125	609	\$26,299	\$76,252,261
New	Fin	Vernon Ave	Fenner Ave	W of Freeborn S	724	8	Cast iron	1/1/1946	63	N		Med	0	3	0	5	2.5	0	1.75	945	\$119,460	\$76,371,721
New	Fin	Vernon Ave	Broadway			6	Cast iron			N		Med	2.5	0	0	5	2.5	0	1.625	1032	\$0	\$76,371,721
New	Fin	Vernon Ave	W of Freeborn St	Broadway	551	8	AC	9/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1283	\$90,915	\$76,462,636
New	Fin	Vicksburg Pl	Warner St		10	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	812	\$1,650	\$76,464,286
New	Fin	Vicksburg Pl	Van Zandt Ave		2	6	Cast iron			N		High	2.5	0	0	5	5	0	1.875	813	\$330	\$76,464,616
New	Fin	Vicksburg Pl	Van Zandt Ave	Warner St	1386	8	AC	3/1/1970	39	N		High	0	1	0	5	5	0	1.5	1122	\$228,690	\$76,693,306
New	Fin	Waites Whf	Thames St	Westerly	560	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1403	\$92,400	\$76,785,706
New	Fin	Walnut St	W of Third St	Washington St	512.61	2	Iron Pipe			N	2	High	5	0	5	5	5	0	3.25	139	\$84,581	\$76,870,287
New	Fin	Walnut St	Washington St		18	6	Cast iron	10/20/1917	92	N		High	2.5	4	0	5	5	0	2.875	272	\$2,970	\$76,873,257
New	Fin	Walnut St	W of Third St	Hammett Pl	315	8	Ductile Iron			Y		High	0	0	0	0	5	5	1	1404	\$51,975	\$76,925,232
New	Fin	Ward Ave	Annandale Rd	Clay St	1157	8	AC	12/1/1969	40	N		High	0	2	0	5	5	0	1.75	946	\$190,905	\$77,116,137
New	Fin	Warner Pl	Warner St	End	310	8	Ductile Iron	6/1/2003	6	Y		High	0	0	0	0	5	5	1	1405	\$51,150	\$77,167,287
New	Fin	Warner St	Kingston Ave	Farewell St	1095	6	Cast iron			N	1	High	2.5	0	2.5	5	5	0	2.25	571	\$180,675	\$77,347,962
New	Fin	Warner St	Malbone Rd	Warner Pl	1492	16	Cast iron	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	947	\$298,400	\$77,646,362
New	Fin	Warner St	Warner Pl	Kingston Ave	336	12	AC	1/1/1966	43	N		High	0	2	0	5	5	0	1.75	948	\$58,800	\$77,705,162
New	Fin	Warner St	Kingston Ave	Farewell St	1115	12	Cast iron			N		High	0	0	0	5	5	0	1.25	1284	\$195,125	\$77,900,287

City of Newport, Rhode Island - Water Main Database (NEWPORT sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est	
New	Fin	Washington Square	Thames St		17	10	Cast Iron	9/1/1928	81	N			High	0	4	0	5	5	0	2.25	572	\$2,975	\$77,903,262
New	Fin	Washington Square	Thames St		17	10	Cast Iron	9/1/1928	81	N			High	0	4	0	5	5	0	2.25	573	\$2,975	\$77,906,237
New	Fin	Washington Square	Farewell St	Thames St	600	12	Cast iron			N			High	0	0	0	5	5	0	1.25	1285	\$105,000	\$78,011,237
New	Fin	Washington St	Washington St	Second St	368	8	AC	9/1/1968	41	N			High	0	2	0	5	5	0	1.75	949	\$60,720	\$78,071,957
New	Fin	Washington St	Long Wharf	Sycamore St	3715	12	Cast iron			N			High	0	0	0	5	5	0	1.25	1286	\$650,125	\$78,722,082
New	Fin	Washington St	Cypress St	Npt Bridge Appr	170	12	Cast iron			N			High	0	0	0	5	5	0	1.25	1287	\$29,750	\$78,751,832
New	Fin	Weatherly Ave			310	2	Cem Lined			N			Med	5	0	0	5	2.5	0	2.25	574	\$51,150	\$78,802,982
New	Fin	Weatherly Ave	Ruggles Ave	Northerly	298	6	AC	4/21/1955	54	N			Med	2.5	2	0	5	2.5	0	2.125	610	\$49,170	\$78,852,152
New	Fin	Weatherly Ave	Northerly		195.5	6	AC	6/24/1959	50	N			Med	2.5	2	0	5	2.5	0	2.125	611	\$32,258	\$78,884,410
New	Fin	Weatherly Ave			70	8	Ductile Iron			N			Med	0	0	0	0	2.5	0	0.25	1645	\$11,550	\$78,895,960
New	Fin	Weaver Ave	Freebody St	Annandale Rd	440	8	Ductile Iron			N			High	0	0	0	0	5	0	0.5	1580	\$72,600	\$78,968,560
New	Fin	Webster Pl	Webster St	End	167	2	Cem Lined	1/1/1915	94	Y			Med	5	4	0	5	2.5	5	3.75	72	\$27,555	\$78,996,115
New	Fin	Webster St	Ochre Point Ave	Bellevue Ave	2036	8	Cast iron	3/1/1939	70	N			Med	0	3	0	5	2.5	0	1.75	950	\$335,940	\$79,332,055
New	Fin	Webster St	Bellevue Ave	Thames St	1610	12	AC	6/1/1970	39	N			Med	0	1	0	5	2.5	0	1.25	1288	\$281,750	\$79,613,805
New	Fin	Wellington Ave	Halidon Ave	Chastellux Ave	678	12	Cast iron	5/1/1942	67	N	1		Med	0	3	2.5	5	2.5	0	2.125	612	\$118,650	\$79,732,455
New	Fin	Wellington Ave	Roseneath Ave	Columbia Rd	722	12	AC			N			Med	0	0	0	5	2.5	0	1	1406	\$126,350	\$79,858,805
New	Fin	Wellington Ave	Columbia Rd	Chastellux Ave	404	12	AC			N			Med	0	0	0	5	2.5	0	1	1407	\$70,700	\$79,929,505
New	Fin	Wellington Ave	Thames St	Roseneath Ave	1362	12	Ductile Iron	10/1/1987	22	N			Med	0	1	0	0	2.5	0	0.5	1581	\$238,350	\$80,167,855
New	Fin	Wesley St	Rhode Island Ave	Cranston Ave	506	2	Cem Lined	1/1/1900	109	N	1		High	5	5	2.5	5	5	0	4.125	32	\$83,490	\$80,251,345
New	Fin	Wesley St			97	6	Cast Iron	1/1/1939	70	N			High	2.5	3	0	5	5	0	2.625	353	\$16,005	\$80,267,350
New	Fin	West Extension St	Thames St	Westerly	265	1.5	Iron Pipe			Y			High	5	0	0	5	5	5	3	196	\$43,725	\$80,311,075
New	Fin	West Marlborough St	Fire Station	Corridon St	132	6	Cast iron			N			High	2.5	0	0	5	5	0	1.875	814	\$21,780	\$80,332,855
New	Fin	West Marlborough St	Thames St	Fire Station	328	8	AC	4/1/1970	39	N			High	0	1	0	5	5	0	1.5	1123	\$54,120	\$80,386,975
New	Fin	West Narragansett Ave	Thames St	Roseneath Ave	1300	20	Cast iron			N	1		Med	0	0	2.5	5	2.5	0	1.375	1202	\$260,000	\$80,646,975
New	Fin	West Pelham St	Thames St	America's Cup A	132	8	AC			Y			High	0	0	0	5	5	5	1.75	951	\$21,780	\$80,668,755
New	Fin	West Pelham St	America's Cup Av	Black Pearl Res	161	8	AC			Y			High	0	0	0	5	5	5	1.75	952	\$26,565	\$80,695,320
New	Fin	West St	Perry St		5	4	Cast iron	2/1/1970	39	N			High	5	1	0	5	5	0	2.75	288	\$825	\$80,696,145
New	Fin	West St	Perry St	Pope St	457	8	AC	2/1/1970	39	N			High	0	1	0	5	5	0	1.5	1124	\$75,405	\$80,771,550
New	Fin	Wheatland Blvd	Marlborough St	Gould St	1713.5	8	Cast iron	12/1/1915	94	N			High	0	4	0	5	5	0	2.25	575	\$282,728	\$81,054,277
New	Fin	Wheatland Ct	Coggeshall Ave		156.58	2	Iron Pipe			Y			Low	5	0	0	5	0	5	2.5	423	\$25,836	\$81,080,113
New	Fin	White St	Farewell St	Tilden Ave	437	8	Ductile Iron	9/1/1978	31	N			High	0	1	0	0	5	0	0.75	1499	\$72,105	\$81,152,218
New	Fin	Whitwell Ave	Bliss Rd	Robinson St	750	8	AC	7/1/1978	31	N			High	0	1	0	5	5	0	1.5	1125	\$123,750	\$81,275,968
New	Fin	Whitwell Pl	Kay St	Northerly	378.8	6	Cast Iron	6/1/1929	80	Y			High	2.5	4	0	5	5	5	3.375	122	\$62,502	\$81,338,470
New	Fin	Wickham Rd	Hazard Rd	Brenton Rd	1357	12	AC	8/1/1957	52	N			Med	0	2	0	5	2.5	0	1.5	1126	\$237,475	\$81,575,945
New	Fin	Wilbur Ave	Bliss Rd	S of Brightman St	263	8	AC	7/1/1977	32	Y			High	0	1	0	5	5	5	2	713	\$43,395	\$81,619,340
New	Fin	William St	Bellevue Ave	E of King St	463	8	AC	7/1/1958	51	N			High	0	2	0	5	5	0	1.75	953	\$76,395	\$81,695,735
New	Fin	William St	E of King St	Spring St	749	8	Ductile Iron	9/1/1978	31	N			High	0	1	0	0	5	0	0.75	1500	\$123,585	\$81,819,320
New	Fin	Willow St	Third St	Washington St	540	4	Cast Iron			N			High	5	0	0	5	5	0	2.5	424	\$89,100	\$81,908,420
New	Fin	Willow St			318	8	Ductile Iron			N			High	0	0	0	0	5	0	0.5	1582	\$52,470	\$81,960,890
New	Fin	Winans Ave	Doris Ter	Easterly	130	8	AC	7/1/1966	43	N			Low	0	2	0	5	0	0	1.25	1289	\$21,450	\$81,982,340
New	Fin	Winans Ave	Easterly	Commonwealth	846	8	AC	11/1/1971	38	N			Low	0	1	0	5	0	0	1	1408	\$139,590	\$82,121,930
New	Fin	Winans Ave	Doris Ter	Westerly	188	8	AC	4/1/1977	32	N			Low	0	1	0	5	0	0	1	1409	\$31,020	\$82,152,950
New	Fin	Winans Ave	Ocean Ave	Easterly	232	8	AC	9/1/1978	31	N			Low	0	1	0	5	0	0	1	1410	\$38,280	\$82,191,230
New	Fin	Xavier Ter	Eustis Ave	Holten Ave	335	2	Iron Pipe			Y			High	5	0	0	5	5	5	3	197	\$55,275	\$82,246,505
New	Fin	Xavier Ter	Holten Ave		41	2	Copper			Y			High	5	0	0	3	5	5	2.7	303	\$6,765	\$82,253,270
New	Fin	Xavier Ter	Holten Ave	E to End	140.5	8	Ductile Iron			Y			High	0	0	0	0	5	5	1	1411	\$23,183	\$82,276,452
New	Fin	Yale St	Bedlow Ave		139	2	Cem Lined	1/1/1923	86	N			Med	5	4	0	5	2.5	0	3.25	140	\$22,935	\$82,299,387
New	Fin	Yale St			18	2	Cem Lined			N			Med	5	0	0	5	2.5	0	2.25	576	\$2,970	\$82,302,357
New	Fin	Yale St			516	2	Cem Lined			N			Med	5	0	0	5	2.5	0	2.25	577	\$85,140	\$82,387,497
New	Fin	Yale St	Pennacook St		38	6	Cast Iron			N			Med	2.5	0	0	5	2.5	0	1.625	1033	\$6,270	\$82,393,767
New	Fin	Young St			20	6	Ductile Iron	4/1/1981	28	N			High	2.5	1	0	0	5	0	1.375	1203	\$3,300	\$82,397,067
New	Fin	Young St	Thames St	Spring St	440	8	Ductile Iron	4/1/1981	28	N			High	0	1	0	0	5	0	0.75	1501	\$72,600	\$82,469,667
New	Fin	Yznaga Ave			21	4	Cast Iron	11/11/1910	99	Y			Low	5	4	0	5	0	5	3.5	95	\$3,465	\$82,473,132
New	Fin	Yznaga Ave			174.7	4	Cast iron	1/11/1910	99	Y			Low	5	4	0	5	0	5	3.5	96	\$28,826	\$82,501,958
New	Fin	Yznaga Ave			313	6	Cast Iron	1/1/1922	87	Y			Low	2.5	4	0	5	0	5	2.875	273	\$51,645	\$82,553,603

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd/Ports	Fin	East Main Rd	Aquidneck Ave	Goulart Ln	8747	12	AC	Nov-67	42	N		Low	0	2	0	5	0	0	1.25	1290	\$1,530,725	\$1,530,725
Midd/Ports	Raw	Raw Water	St. Mary's	Bailey's Brook	5750	16	AC		29	N		Low	0	1	0	5	0	0	1	1412	\$1,150,000	\$2,680,725
Midd	Fin	Abe Meyer Ln	Purgatory Rd	End	487	8	AC	Jul-67	42	Y		Low	0	2	0	5	0	5	1.75	954	\$80,355	\$2,761,080
Midd	Fin	Acacia Rd	Bliss Mine Rd	Bliss Mine Rd	1403	8	AC	Jan-61	48	Y		Med	0	2	0	5	2.5	5	2	714	\$231,495	\$2,992,575
Midd	Fin	Access Rd	West Main Rd	Admiralty Dr	1833	12	AC	Dec-69	40	Y		Med	0	2	0	5	2.5	5	2	715	\$320,775	\$3,313,350
Midd	Fin	Adelaide Rd	E of Boulevard	Sheri Ln	469	6	AC	Mar-56	53	Y	2	Med	2.5	2	5	5	2.5	5	3.375	123	\$77,385	\$3,390,735
Midd	Fin	Adelaide Rd	Boulevard	E of Boulevard	6	6	Cast Iron	Mar-56	53	Y		Med	2.5	2	0	5	2.5	5	2.625	354	\$908	\$3,391,643
Midd	Fin	Adelaide Rd	Sheri Ln	E of Sheri Ln	156	6	AC	May-57	52	Y		Med	2.5	2	0	5	2.5	5	2.625	355	\$25,740	\$3,417,383
Midd	Fin	Adelaide Rd	E of Sheri Ln	E of Sheri Ln	113	6	AC	Oct-68	41	Y		Med	2.5	2	0	5	2.5	5	2.625	356	\$18,563	\$3,435,945
Midd	Fin	Admiral Ct	King Rd	End	155	2	Wrought Iron			Y	1	Med	5	0	2.5	5	2.5	5	3.125	166	\$25,575	\$3,461,520
Midd	Fin	Admiralty Dr	Access Rd	End	994	8	AC	Dec-69	40	Y		Med	0	2	0	5	2.5	5	2	716	\$164,010	\$3,625,530
Midd	Fin	Airport Access Rd	Forest Ave	End		8	AC	Jan-67	42	Y		Low	0	2	0	5	0	5	1.75	955	\$0	\$3,625,530
Midd	Fin	Algonquin Dr	Pocahontas Dr	Squantam Dr	1625	10	AC	Oct-69	40	N		Med	0	2	0	5	2.5	0	1.5	1127	\$284,375	\$3,909,905
Midd	Fin	Allston Ave	Purgatory Rd	S of Purgatory	73	6	AC	6/19/48	61	Y		Med	2.5	3	0	5	2.5	5	2.875	274	\$12,045	\$3,921,950
Midd	Fin	Allston Ave	Briarwood Ave	N of Briarwood	11	6	Cast Iron	1/1/49	60	N		Med	2.5	3	0	5	2.5	0	2.375	491	\$1,815	\$3,923,765
Midd	Fin	Allston Ave	N of Briarwood	N of Briarwood	90	6	AC	1/1/49	60	N		Med	2.5	3	0	5	2.5	0	2.375	492	\$14,850	\$3,938,615
Midd	Fin	Allston Ave	N of Briarwood	N of Briarwood	74	6	AC	6/1/51	58	N		Med	2.5	2	0	5	2.5	0	2.125	613	\$12,210	\$3,950,825
Midd	Fin	Allston Ave	Briarwood Ave	S of Briarwood	156	6	AC	9/1/52	57	N		Med	2.5	2	0	5	2.5	0	2.125	614	\$25,740	\$3,976,565
Midd	Fin	Allston Ave	Orchard Ave	S of Orchard	59	6	AC	8/1/56	53	N		Med	2.5	2	0	5	2.5	0	2.125	615	\$9,735	\$3,986,300
Midd	Fin	Allston Ave	Purgatory Rd	N of Purgatory	6.5	6	Cast Iron	8/1/56	53	N		Med	2.5	2	0	5	2.5	0	2.125	616	\$1,073	\$3,987,373
Midd	Fin	Allston Ave	N of Purgatory Rd	N of Purgatory	152	6	AC	8/1/56	53	N		Med	2.5	2	0	5	2.5	0	2.125	617	\$25,080	\$4,012,453
Midd	Fin	Allston Ave	S of Orchard	S of Orchard	74	6	AC	9/5/58	51	N		Med	2.5	2	0	5	2.5	0	2.125	618	\$12,210	\$4,024,663
Midd	Fin	Allston Ave	S of Orchard	S of Orchard	167	6	AC	6/1/63	46	N		Med	2.5	2	0	5	2.5	0	2.125	619	\$27,555	\$4,052,218
Midd	Fin	Allston Ave	S of Briarwood	N of Purgatory	450	6	AC	3/1/81	28	N		Med	2.5	1	0	5	2.5	0	1.875	815	\$74,250	\$4,126,468
Midd	Fin	Allston Ave	Orchard Ave	N of Orchard	200	8	AC	8/1/73	36	Y		Med	0	1	0	5	2.5	5	1.75	956	\$33,000	\$4,159,468
Midd	Fin	Allston Ave	N of Orchard	N of Orchard	200	8	AC	11/1/78	31	Y		Med	0	1	0	5	2.5	5	1.75	957	\$33,000	\$4,192,468
Midd	Fin	Allston Ave	S of Purgatory	S of Purgatory	230	8	Ductile Iron	1/1/90	19	Y		Med	0	0	0	0	2.5	5	0.75	1502	\$37,950	\$4,230,418
Midd	Fin	Ames Plaza (off West N	gate	west straight	100	6	AC	Jan-68	41	Y		Med	2.5	2	0	5	2.5	5	2.625	357	\$16,500	\$4,246,918
Midd	Fin	Ames Plaza (off West N	gate	west straight		10	cast iron	Jan-68	41	Y		Med	0	2	0	5	2.5	5	2	717	\$0	\$4,246,918
Midd	Fin	Amesbury Circle	Oak Forest Dr	Loop	1380	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1672	\$227,700	\$4,474,618
Midd	Fin	Aquidneck Ave	Purgatory Rd	Valley Rd	1783	20	CI - CL	Jan-66	43	N	2	Med	0	2	5	5	2.5	0	2.25	578	\$356,600	\$4,831,218
Midd	Fin	Aquidneck Ave	East Main Rd	S of East Main Rd	921	12	AC	May-67	42	N		Med	0	2	0	5	2.5	0	1.5	1128	\$161,175	\$4,992,393
Midd	Fin	Aquidneck Ave	Aquidneck Dr	Reardon Dr	464	12	AC	4/1/1966	43	N		Med	0	2	0	5	2.5	0	1.5	1129	\$81,200	\$5,073,593
Midd	Fin	Aquidneck Ave	Reardon Dr	S of Reardon Dr	74	12	AC	May-67	42	N		Med	0	2	0	5	2.5	0	1.5	1130	\$12,950	\$5,086,543
Midd	Fin	Aquidneck Ave	Reservoir Rd	Ocean View Dr	1437	12	AC	Aug-75	34	N		Med	0	1	0	5	2.5	0	1.25	1291	\$251,475	\$5,338,018
Midd	Fin	Aquidneck Ave	Reservoir Rd	E. on Aquidneck Ave		12	AC	Mar-82	27	N		Med	0	1	0	5	2.5	0	1.25	1292	\$0	\$5,338,018
Midd	Fin	Aquidneck Ave	Reservoir Rd	Valley Rd		18	Cast Iron			N		Med	0	0	0	5	2.5	0	1	1413	\$0	\$5,338,018
Midd	Fin	Aquidneck Ave	Reservoir Rd	Valley Rd		16	Ductile Iron	Jan-71	38	N		Med	0	1	0	0	2.5	0	0.5	1583	\$0	\$5,338,018
Midd	Fin	Aquidneck Ave	S of Reardon Dr	Vierra Terr	369.25	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1646	\$64,619	\$5,402,636
Midd	Fin	Aquidneck Ave	Vierra Terr	Trimble Rd	898.17	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1647	\$157,180	\$5,559,816
Midd	Fin	Aquidneck Ave	Trimble Rd	Green End Ave	2557.26	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1648	\$447,521	\$6,007,337
Midd	Fin	Aquidneck Ave	Green End Ave	S of Green End	40.75	12	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1649	\$7,131	\$6,014,468
Midd	Fin	Aquidneck Dr	Gae St	E of Gae St		6	AC			N		Low	2.5	0	0	5	0	0	1.375	1204	\$0	\$6,014,468
Midd	Fin	Aquidneck Dr	Jude St	Gae St		8	AC	Apr-52	57	N		Low	0	2	0	5	0	0	1.25	1293	\$0	\$6,014,468
Midd	Fin	Aquidneck Dr	E of Gae St	E of Gae St	195	8	AC	Aug-54	55	N		Low	0	2	0	5	0	0	1.25	1294	\$32,175	\$6,046,643
Midd	Fin	Aquidneck Dr	E of Gae St	E of Gae St	39	8	AC	Sep-65	44	N		Low	0	2	0	5	0	0	1.25	1295	\$6,435	\$6,053,078
Midd	Fin	Aquidneck Dr	E of Gae St	Aquidneck Ave	73	8	AC	Apr-66	43	N		Low	0	2	0	5	0	0	1.25	1296	\$12,045	\$6,065,123
Midd	Fin	Arruda Terr	West Main Rd	E of W Main Rd	207	6	AC	5/1/1952	57	Y		Low	2.5	2	0	5	0	5	2.375	493	\$34,155	\$6,099,278
Midd	Fin	Arruda Terr	E of W Main Rd	E of W Main Rd	74	6	AC	11/1/1953	56	Y		Low	2.5	2	0	5	0	5	2.375	494	\$12,210	\$6,111,488
Midd	Fin	Arruda Terr	E of W Main Rd	E of W Main Rd	75	6	AC	8/1/1970	39	Y		Low	2.5	1	0	5	0	5	2.125	620	\$12,375	\$6,123,863
Midd	Fin	Ashurst Ave	Tuckerman Ave	N of Tuckerman	3	6	AC	10/27/1952	57	Y		Low	2.5	2	0	5	0	5	2.375	495	\$495	\$6,124,358
Midd	Fin	Ashurst Ave	N of Tuckerman	N of Tuckerman	188	8	AC	10/27/1952	57	Y		Low	0	2	0	5	0	5	1.75	958	\$31,020	\$6,155,378
Midd	Fin	Ashurst Ave	N of Tuckerman	Kent Rd	78	8	AC	3/28/1956	53	Y		Low	0	2	0	5	0	5	1.75	959	\$12,870	\$6,168,248
Midd	Fin	Ashurst Ave	Kent Rd	N of Kent Rd	267	8	AC	4/1/1977	32	Y		Low	0	1	0	5	0	5	1.5	1131	\$44,055	\$6,212,303
Midd	Fin	Atlantic Dr	Valley Rd	End	1612	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1584	\$265,980	\$6,478,283
Midd	Fin	Bailey Terr	Paul St	End	445	8	AC	8/1/1960	49	Y		Med	0	2	0	5	2.5	5	2	718	\$73,425	\$6,551,708
Midd	Fin	Balsam St	Paul St	S of Elmwood Ave	875	8	AC	7/1/1960	49	Y		Med	0	2	0	5	2.5	5	2	719	\$144,375	\$6,696,083
Midd	Fin	Balsam St	S of Elmwood Ave	Elmwood Ave	6	8	AC	7/1/1961	48	Y		Med	0	2	0	5	2.5	5	2	720	\$990	\$6,697,073
Midd	Fin	Beach View Terr	Wolcott Ave	E of Wolcott Ave	579	6	AC	Sep-50	59	Y		Low	2.5	2	0	5	0	5	2.375	496	\$95,535	\$6,792,608
Midd	Fin	Beacon St	Beacon Terr North	N of Beacon Terr	17.25	6	Cast Iron	Feb-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	358	\$2,846	\$6,795,454

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Material	Locat.	End	Rating	Ranking	Estimate	Cum Est
Midd	Fin	Beacon St	Hillside Ave	N of Hillside Ave	35.5	8	Cast Iron	Jan-41	68	Y		Med	0	3	0	5	2.5	5	2.25	579	\$5,858	\$6,801,312
Midd	Fin	Beacon St	N of Beacon Terr	Beacon Terr	6	6	Cast Iron	Aug-77	32	N		Med	2.5	1	0	5	2.5	0	1.875	816	\$990	\$6,802,302
Midd	Fin	Beacon St	West Main Rd	S of W Main Rd	17	8	Cast Iron	Jan-43	66	N		Med	0	3	0	5	2.5	0	1.75	960	\$2,805	\$6,805,107
Midd	Fin	Beacon St	S of W Main Rd	S of W Main Rd	46	8	Cast Iron	Jan-31	78	N		Med	0	3	0	5	2.5	0	1.75	961	\$7,590	\$6,812,697
Midd	Fin	Beacon St	S of W Main Rd	S of Race St	550	8	Cast Iron	Mar-40	69	N		Med	0	3	0	5	2.5	0	1.75	962	\$90,750	\$6,903,447
Midd	Fin	Beacon St	S of Race St	S of Race St	8	8	Cast Iron	Nov-47	62	N		Med	0	3	0	5	2.5	0	1.75	963	\$1,320	\$6,904,767
Midd	Fin	Beacon St	S of Race St	Peace St	302	8	AC	Nov-47	62	N		Med	0	3	0	5	2.5	0	1.75	964	\$49,830	\$6,954,597
Midd	Fin	Beacon St	Peace St	N of Beacon Terr	174	8	AC	Aug-77	32	N		Med	0	1	0	5	2.5	0	1.25	1297	\$28,710	\$6,983,307
Midd	Fin	Beacon St	Beacon Terr North	Beacon Ct	186	8	Ductile Iron	Jan-93	16	N		Med	0	0	0	0	2.5	0	0.25	1650	\$30,690	\$7,013,997
Midd	Fin	Beacon Terr	Rosedale Terr	S of Beacon St	565	6	AC	Jan-44	65	N		Med	2.5	3	0	5	2.5	0	2.375	497	\$93,225	\$7,107,222
Midd	Fin	Beacon Terr	S of Beacon St	Beacon St	8	6	Cast Iron	Feb-54	55	N		Med	2.5	2	0	5	2.5	0	2.125	621	\$1,320	\$7,108,542
Midd	Fin	Beacon Terr North	Beacon St	N of Beacon St	42	6	Cast Iron	Feb-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	359	\$6,930	\$7,115,472
Midd	Fin	Beacon Terr North	N of Beacon St	N of Beacon St	336	6	AC	Feb-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	360	\$55,440	\$7,170,912
Midd	Fin	Beacon Terr North	N of Beacon St	N of Beacon St	107	6	AC	May-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	361	\$17,655	\$7,188,567
Midd	Fin	Beagle Dr	Berkeley Ave	End	665	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1585	\$109,725	\$7,298,292
Midd	Fin	Beechland Pl	Green End Ave	End	606	8	AC	4/1/1981	28	Y		Med	0	1	0	5	2.5	5	1.75	965	\$99,990	\$7,398,282
Midd	Fin	Berkeley Ave	Wyatt Rd	S of Wyatt Rd	3.5	6	AC	9/1/1970	39	N		Low	2.5	1	0	5	0	0	1.625	1034	\$578	\$7,398,859
Midd	Fin	Berkeley Ave	S of Wyatt Rd	S of Wyatt Rd	697	8	AC	9/1/1970	39	N		Low	0	1	0	5	0	0	1	1414	\$115,005	\$7,513,864
Midd	Fin	Berkeley Ave	S of Wyatt Rd	S of Wyatt Rd	369	8	AC	12/1/1979	30	N		Low	0	1	0	5	0	0	1	1415	\$60,885	\$7,574,749
Midd	Fin	Berkeley Ave	Wyatt Rd	Wyndham Hill R	3081	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1673	\$539,175	\$8,113,924
Midd	Fin	Berkeley Ave	Wyndham Hill Rd	Tally Ho Ct	885	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1674	\$154,875	\$8,268,799
Midd	Fin	Berkeley Ave	Tally Ho Ct	Green End Ave	651	12	Ductile Iron	1/1/1993	16	N		Low	0	0	0	0	0	0	0	1675	\$113,925	\$8,382,724
Midd	Fin	Bliss Mine Rd	Town Line	Boulevard	2918	12	AC	8/1/1943	66	N	1	High	0	3	2.5	5	5	0	2.375	498	\$510,650	\$8,893,374
Midd	Fin	Bluegrass Dr	Forest Ave	End	765	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1586	\$126,225	\$9,019,599
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonomi	150	2	Gal - CL	Jan-21	88	N		Med	5	4	0	5	2.5	0	3.25	141	\$24,750	\$9,044,349
Midd	Fin	Boulevard	West Main Rd	Fenner Ave	1845	6	AC	Jan-40	69	N	2	Med	2.5	3	5	5	2.5	0	3.125	167	\$304,343	\$9,348,692
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonomi	45	2	Gal - CL	Jan-30	79	N		Med	5	3	0	5	2.5	0	3	198	\$7,425	\$9,356,117
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonomi	95	1.5	Gal - CL	Jan-30	79	N		Med	5	3	0	5	2.5	0	3	199	\$15,675	\$9,371,792
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonomi	133	1.5	Gal - CL	Jan-39	70	N		Med	5	3	0	5	2.5	0	3	200	\$21,863	\$9,393,654
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonomi	22	1.5	Gal - CL	Jan-40	69	N		Med	5	3	0	5	2.5	0	3	201	\$3,630	\$9,397,284
Midd	Fin	Boulevard	Miantonomi Ave	N of Miantonomi	20	6	Cast Iron	Jan-43	66	N		Med	2.5	3	0	5	2.5	0	2.375	499	\$3,300	\$9,400,584
Midd	Fin	Boulevard	Miantonomi Ave	Vernon Ave	720	12	Cast Iron	Jan-43	66	N		Med	0	3	0	5	2.5	0	1.75	966	\$126,000	\$9,526,584
Midd	Fin	Boulevard Terr	Boulevard	End	609	6	CI - C	Apr-37	72	Y	1	Med	2.5	3	2.5	5	2.5	5	3.25	142	\$100,436	\$9,627,020
Midd	Fin	Briarwood Ave	Renfrew Ave	E of Renfrew Av	134	6	AC	5/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	622	\$22,110	\$9,649,130
Midd	Fin	Briarwood Ave	E of Renfrew Ave	Allston Ave	170	6	AC	1/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	623	\$28,050	\$9,677,180
Midd	Fin	Briarwood Ave	E of Allston Ave	E of Allston Ave	10	6	Cast Iron	1/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	624	\$1,650	\$9,678,830
Midd	Fin	Briarwood Ave	E of Allston Ave	Centre Ave	282	6	AC	1/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	625	\$46,530	\$9,725,360
Midd	Fin	Briarwood Ave	Centre Ave	E of Centre Ave	258	6	AC	9/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	626	\$42,570	\$9,767,930
Midd	Fin	Briarwood Ave	Ellery Ave	E of Ellery Ave	105	6	AC	9/1/1956	53	N		Low	2.5	2	0	5	0	0	1.875	817	\$17,325	\$9,785,255
Midd	Fin	Briarwood Ave	E of Ellery Ave	E of Ellery Ave	29.5	6	AC	10/8/1956	53	N		Low	2.5	2	0	5	0	0	1.875	818	\$4,868	\$9,790,122
Midd	Fin	Briarwood Ave	E of Ellery Ave	Renfrew Ave	181	6	AC	8/1/1956	53	N		Low	2.5	2	0	5	0	0	1.875	819	\$29,865	\$9,819,987
Midd	Fin	Briarwood Ave	E of Centre Ave	Wolcott Ave	47	6	AC	3/1/1951	58	N		Low	2.5	2	0	5	0	0	1.875	820	\$7,755	\$9,827,742
Midd	Fin	Briarwood Ave	Aquidneck Ave	E of Aquidneck	69	8	AC	1/1/1967	42	N		Low	0	2	0	5	0	0	1.25	1298	\$11,385	\$9,839,127
Midd	Fin	Briarwood Ave	E of Aquidneck A	Ellery Ave	565	8	AC	12/1/1968	41	N		Low	0	2	0	5	0	0	1.25	1299	\$93,225	\$9,932,352
Midd	Fin	Bristol Rd	Ludlow Rd	Woolsey Rd	465	6	AC	8/1/1955	54	Y		Med	2.5	2	0	5	2.5	5	2.625	362	\$76,725	\$10,009,077
Midd	Fin	Bristol Rd	Woolsey Rd	End	257	8	AC	8/1/1955	54	Y		Med	0	2	0	5	2.5	5	2	721	\$42,405	\$10,051,482
Midd	Fin	Brookdale Ave	East Main Rd	N of E Main Rd	3	6	AC	7/1/1971	38	Y		Med	2.5	1	0	5	2.5	5	2.375	500	\$495	\$10,051,977
Midd	Fin	Brookdale Ave	N of E Main Rd	N of E Main Rd	279	8	AC	7/1/1971	38	Y		Med	0	1	0	5	2.5	5	1.75	967	\$46,035	\$10,098,012
Midd	Fin	Brookdale Ave	N of E Main Rd	N of E Main Rd	150	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1503	\$24,750	\$10,122,762
Midd	Fin	Browns Ln	West Main Rd	W of E Main Rd	750	10	PVC	May-82	27	Y		Med	0	1	0	2	2.5	5	1.3	1222	\$131,278	\$10,254,040
Midd	Fin	Browns Ln	Pocahontas Dr	Quantam Dr	680	10	AC	Sep-69	40	N		Low	0	2	0	5	0	0	1.25	1300	\$119,000	\$10,373,040
Midd	Fin	Browns Ln	W of E Main Rd	W of E Main Rd	352	10	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1587	\$61,513	\$10,434,553
Midd	Fin	Buck Rd	Ludlow Rd	Woolsey Rd	646	6	AC	Aug-55	54	Y		Med	2.5	2	0	5	2.5	5	2.625	363	\$106,590	\$10,541,143
Midd	Fin	Buck Rd	Woolsey Rd	E to End	570	8	Ductile Iron	Jan-93	16	Y		Med	0	0	0	0	2.5	5	0.75	1504	\$94,050	\$10,635,193
Midd	Fin	Burton Lane	Marshall Ln	S of Marshall Ln	9	8	AC	8/1/1971	38	N		Low	0	1	0	5	0	0	1	1416	\$1,485	\$10,636,678
Midd	Fin	Burton Lane	S of Marshall Ln	Rogers Ln	765	12	AC	8/1/1971	38	N		Low	0	1	0	5	0	0	1	1417	\$133,875	\$10,770,553
Midd	Fin	Busher Dr	Pasture Farm Dr	Loop	1670	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1676	\$275,550	\$11,046,103
Midd	Fin	Carraige Trail	Golden Rod Ln	N of Wintergree	1009	8	Ductile Iron	6/1/2001	8	Y		Low	0	0	0	0	0	5	0.5	1588	\$166,485	\$11,212,588
Midd	Fin	Casey Dr	N of Murphy Cir	N of Murphy Cir	98	1.25	Copper	7/1/1964	45	Y		Low	5	2	0	3	0	5	2.7	304	\$16,170	\$11,228,758
Midd	Fin	Casey Dr	Chases Ln	N of Chases Ln	8	8	AC	12/1/1955	54	Y		Low	0	2	0	5	0	5	1.75	968	\$1,320	\$11,230,078
Midd	Fin	Casey Dr	N of Chases Ln	N of Orville Dr	674	8	AC	2/1/1956	53	Y		Low	0	2	0	5	0	5	1.75	969	\$11,210	\$11,341,288

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
Midd	Fin	Casey Dr	N of Orville Dr	N of Murphy Cir	155	8	AC	9/1/1956	53	Y		Low	0	2	0	5	0	5	1.75	970	\$25,575	\$11,366,863
Midd	Fin	Center Ave	Newport Ave	N of Orchard	450	8	AC	Sep-81	28	N		Low	0	1	0	5	0	0	1	1418	\$74,250	\$11,441,113
Midd	Fin	Center Ave	N of Orchard	N of Briarwood	804	8	AC			N		Low	0	0	0	5	0	0	0.75	1505	\$132,660	\$11,573,773
Midd	Fin	Center Ave	N of Briarwood	Briarwood	33.25	8	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1506	\$5,486	\$11,579,259
Midd	Fin	Center Ave	Briarwood Ave	Purgatory Rd	803					N		Low	0	0	0	5	0	0	0.75	1507	\$132,495	\$11,711,754
Midd	Fin	Champlin Terr	Forest Ave	End	754	8	AC	11/1/1964	45	Y		Low	0	2	0	5	0	5	1.75	971	\$124,410	\$11,836,164
Midd	Fin	Chases Ln Rd	West Main Rd	W of W Main Rd	681	8	AC	11/20/1952	57	Y		Low	0	2	0	5	0	5	1.75	972	\$112,365	\$11,948,529
Midd	Fin	Chases Ln Rd	W of W Main Rd	Casey Dr	693	8	AC	12/1/1955	54	Y		Low	0	2	0	5	0	5	1.75	973	\$114,345	\$12,062,874
Midd	Fin	Chases Ln Rd	Casey Dr	N of Donald Dr	1500	8	AC	11/1/1960	49	Y		Low	0	2	0	5	0	5	1.75	974	\$247,500	\$12,310,374
Midd	Fin	Chases Ln Rd	N of Donald Dr	N of Donald Dr	85	8	AC	4/5/1961	48	Y		Low	0	2	0	5	0	5	1.75	975	\$14,025	\$12,324,399
Midd	Fin	Chases Ln Rd	N of Donald Dr	N of Donald Dr	100	8	AC	8/23/1961	48	Y		Low	0	2	0	5	0	5	1.75	976	\$16,500	\$12,340,899
Midd	Fin	Christine Ct	Busher Dr	John Kesson Ln	540	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1677	\$89,100	\$12,429,999
Midd	Fin	Clayton St	Boulevard	N of Boulevard	400	6	AC	May-52	57	Y		Med	2.5	2	0	5	2.5	5	2.625	364	\$66,000	\$12,495,999
Midd	Fin	Clayton St	N of Boulevard	N of Boulevard	13	6	AC	7/22/1955	54	Y		Med	2.5	2	0	5	2.5	5	2.625	365	\$2,145	\$12,498,144
Midd	Fin	Coggeshall Dr	Coggeshall Way	End	292	8	AC	9/1/1980	29	Y		Low	0	1	0	5	0	5	1.5	1132	\$48,180	\$12,546,324
Midd	Fin	Coggeshall Way	Oliphant Ln	Oliphant Ln	2038	8	AC	9/1/1980	29	N		Low	0	1	0	5	0	0	1	1419	\$336,270	\$12,882,594
Midd	Fin	Collins Terr	Miantonomi Ave	N of Miantonomi	5	6	Cast Iron	9/16/1957	52	Y		Med	2.5	2	0	5	2.5	5	2.625	366	\$825	\$12,883,419
Midd	Fin	Collins Terr	N of Miantonomi	N of Miantonomi	365	6	AC	9/16/1957	52	Y		Med	2.5	2	0	5	2.5	5	2.625	367	\$60,225	\$12,943,644
Midd	Fin	Colony Dr				8	AC			N		Low	0	0	0	5	0	0	0.75	1508	\$0	\$12,943,644
Midd	Fin	Columbia Rd	Ward Ave	N to bend	653	8	Ductile Iron	1/1/2000	9	Y		Low	0	0	0	0	0	5	0.5	1589	\$107,745	\$13,051,389
Midd	Fin	Commerce Dr				12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1678	\$0	\$13,051,389
Midd	Fin	Compton View Dr			342.74	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1205	\$56,552	\$13,107,941
Midd	Fin	Compton View Dr	S of Green End	S of Lighthouse View Dr		8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1679	\$0	\$13,107,941
Midd	Fin	Concord Dr	Continental Dr	W of Continental	1603.68	8	AC	Apr-82	27	Y		Low	0	1	0	5	0	5	1.5	1133	\$264,607	\$13,372,548
Midd	Fin	Continental Dr	Valley Rd	N of Green End	2508	8	AC	4/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1134	\$413,820	\$13,786,368
Midd	Fin	Continental Dr	N of Green End	N of Green End	47.42	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1590	\$7,824	\$13,794,192
Midd	Fin	Corporate Pl				8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1591	\$0	\$13,794,192
Midd	Fin	Corporate Pl				12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1680	\$0	\$13,794,192
Midd	Fin	Cows Path	West View Rd	End	314	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1592	\$51,810	\$13,846,002
Midd	Fin	Crescent St	N of Purgatory Rd	N of Purgatory R	161.67	2	WI - CL	7/1/1948	61	Y		Med	5	3	0	5	2.5	5	3.5	97	\$26,676	\$13,872,678
Midd	Fin	Crescent St	N of Purgatory Rd	N of Purgatory R	7	2	WI - CL	8/12/1950	59	Y		Med	5	2	0	5	2.5	5	3.25	143	\$1,155	\$13,873,833
Midd	Fin	Crescent St	Purgatory Rd	N of Purgatory R	20	8	AC	1/1/1971	38	Y		Med	0	1	0	5	2.5	5	1.75	977	\$3,300	\$13,877,133
Midd	Fin	Crest St	Tuckerman Ave	E of Tuckerman	20	6	CI - CL	7/1/1938	71	N		Low	2.5	3	0	5	0	0	2.125	627	\$3,300	\$13,880,433
Midd	Fin	Crest St	E of Tuckerman	E+N of Tuckerm	686	6	AC	7/1/1938	71	N		Low	2.5	3	0	5	0	0	2.125	628	\$113,190	\$13,993,623
Midd	Fin	Crest St	E+N of Tuckerm	S of Purgatory R	300	6	AC	9/1/1952	57	N		Low	2.5	2	0	5	0	0	1.875	821	\$49,500	\$14,043,123
Midd	Fin	Crest St	S of Purgatory Rd	S of Purgatory R	3	6	AC	1/1/1971	38	N		Low	2.5	1	0	5	0	0	1.625	1035	\$495	\$14,043,618
Midd	Fin	Crest St	S of Purgatory Rd	Purgatory Rd	205	8	AC	1/1/1971	38	N		Low	0	1	0	5	0	0	1	1420	\$33,825	\$14,077,443
Midd	Fin	Crest St South	Hoover Rd	N of Hoover Rd	394	6	AC	8/1/1958	51	Y		Low	2.5	2	0	5	0	5	2.375	501	\$65,010	\$14,142,453
Midd	Fin	Cross Country	S of East Main Rd	East Main Rd		6	AC	Jan-58	51	N		Med	2.5	2	0	5	2.5	0	2.125	629	\$0	\$14,142,453
Midd	Fin	Cross Country	O'Neill Blvd	S of East Main R	663	10	AC	Jan-58	51	N		Med	0	2	0	5	2.5	0	1.5	1135	\$116,025	\$14,258,478
Midd	Fin	Cross Country	Park Dr	East Main Rd	433	8	Cast Iron	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1301	\$71,445	\$14,329,923
Midd	Fin	Cross Country	Aquidneck Ace	Honeyman Ave		8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1681	\$0	\$14,329,923
Midd	Fin	Debbie Ct	Pasture Farm Dr	Busher Dr	345	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1682	\$56,925	\$14,386,848
Midd	Fin	Dexter St	West Main Rd	W of West Main	6	2	Copper	Aug-41	68	Y		Med	5	3	0	3	2.5	5	3.2	149	\$990	\$14,387,838
Midd	Fin	Dexter St	W of West Main R	W of West Main	337	1.25	Copper	Aug-41	68	Y		Med	5	3	0	3	2.5	5	3.2	150	\$55,605	\$14,443,443
Midd	Fin	Dexter St	W of West Main R	W of West Main	52	1.25	Copper	Jan-48	61	Y		Med	5	3	0	3	2.5	5	3.2	151	\$8,580	\$14,452,023
Midd	Fin	Dexter St	W of West Main R	W of West Main	77.5	1.25	Copper	6/30/1952	57	Y		Med	5	2	0	3	2.5	5	2.95	213	\$12,788	\$14,464,810
Midd	Fin	Donald Dr	Casey Dr	W of Casey Dr	345.5	6	AC	6/1/1956	53	Y		Low	2.5	2	0	5	0	5	2.375	502	\$57,008	\$14,521,818
Midd	Fin	Donald Dr	W of Casey Dr	Murphy Cir	351.5	6	AC	9/1/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	503	\$57,998	\$14,579,815
Midd	Fin	Donald Dr	Murphy Cir	Chases Ln	201	6	AC	11/1/1960	49	Y		Low	2.5	2	0	5	0	5	2.375	504	\$33,165	\$14,612,980
Midd	Fin	Draper St	Reservoir Rd	N of Reservoir R	45	8	AC	Sep-71	38	Y		Low	0	1	0	5	0	5	1.5	1136	\$7,425	\$14,620,405
Midd	Fin	Draper St	N of Reservoir Rd	N of Reservoir R	213	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1593	\$35,145	\$14,655,550
Midd	Fin	Dudley Pl	West Main Rd	E of W Main Rd	19	8	Cast Iron	1/1/1943	66	Y		Med	0	3	0	5	2.5	5	2.25	580	\$3,135	\$14,658,685
Midd	Fin	Dudley Pl North	Phelps Rd	W of Phelps Rd	13	6	Cast Iron	2/1/1949	60	Y		Med	2.5	3	0	5	2.5	5	2.875	275	\$2,145	\$14,660,830
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	313	6	AC	2/1/1949	60	Y		Med	2.5	3	0	5	2.5	5	2.875	276	\$51,645	\$14,712,475
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	48	6	AC	5/16/1951	58	Y		Med	2.5	2	0	5	2.5	5	2.625	368	\$7,920	\$14,720,395
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	13.5	6	AC	1/27/1954	55	Y		Med	2.5	2	0	5	2.5	5	2.625	369	\$2,228	\$14,722,623
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	22	6	AC	1/1/1955	54	Y		Med	2.5	2	0	5	2.5	5	2.625	370	\$3,630	\$14,726,253
Midd	Fin	Dudley Pl South	Phelps Rd	W of Phelps Rd	335	6	Cast Iron	7/15/1940	69	Y		Med	2.5	3	0	5	2.5	5	2.875	277	\$55,275	\$14,781,528
Midd	Fin	Dudley Pl South	W of Phelps Rd	S of Dudley Pl	152	6	Cast Iron	8/1/1950	59	Y		Med	2.5	2	0	5	2.5	5	2.625	371	\$25,080	\$14,806,608
Midd	Fin	Dudley Pl South	S of Dudley Pl	N of Dudley Pl	56	6	Cast Iron	10/1/1951	58	Y		Med	2.5	2	0	5	2.5	5	2.625	372	\$9,240	\$14,815,848

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
Midd	Fin	East Bay Village	West Main Rd	West Main Rd	2556	8	AC	9/1/1971	38	Y		Med	0	1	0	5	2.5	5	1.75	978	\$421,740	\$15,237,588
Midd	Fin	East Bay Village	Brook Crossing		108	8	AC	9/1/1971	38	Y		Med	0	1	0	5	2.5	5	1.75	979	\$17,820	\$15,255,408
Midd	Fin	East Main Rd	E of W Main Rd	E of Wood Rd	1102.33	6	CI - CL	Sep-36	73	N		Low	2.5	3	0	5	0	0	2.125	630	\$181,884	\$15,437,292
Midd	Fin	East Main Rd	E of Wood Rd	Across Road	45.17	6	Cast Iron	Jun-53	56	N		Low	2.5	2	0	5	0	0	1.875	822	\$7,453	\$15,444,745
Midd	Fin	East Main Rd	W of Rego	W of Brookdale	462	6	AC	Jun-53	56	N		Low	2.5	2	0	5	0	0	1.875	823	\$76,230	\$15,520,975
Midd	Fin	East Main Rd	W of Rego	Rego Rd	58	6	AC	10/21/1958	51	N		Low	2.5	2	0	5	0	0	1.875	824	\$9,570	\$15,530,545
Midd	Fin	East Main Rd	W of Brookdale	Brookdale Ave	293	6	AC	Apr-54	55	N		Low	2.5	2	0	5	0	0	1.875	825	\$48,345	\$15,578,890
Midd	Fin	East Main Rd	Brookdale Ave	Across Road	51.5	6	Cast Iron	Apr-54	55	N		Low	2.5	2	0	5	0	0	1.875	826	\$8,498	\$15,587,388
Midd	Fin	East Main Rd	E of Brookdale	E of Brookdale	46	6	AC	6/7/1956	53	N		Low	2.5	2	0	5	0	0	1.875	827	\$7,590	\$15,594,978
Midd	Fin	East Main Rd	West Main Rd	E of W Main Rd	13.5	8	Cast Iron	Sep-35	74	N		Low	0	3	0	5	0	0	1.5	1137	\$2,228	\$15,597,205
Midd	Fin	East Main Rd	Forest Ave	E of Forest Ave	390	12	AC	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1302	\$68,250	\$15,665,455
Midd	Fin	East Main Rd	Forest Ave	W of Forest Ave	260	8	CI - CL	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1303	\$42,900	\$15,708,355
Midd	Fin	East Main Rd	Forest Ave	E of Forest Ave	100	8	CI - CL	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1304	\$16,500	\$15,724,855
Midd	Fin	East Main Rd	E of Forest Ave	E of Forest Ave	192	8	AC	Mar-55	54	N		Low	0	2	0	5	0	0	1.25	1305	\$31,680	\$15,756,535
Midd	Fin	East Main Rd	E of Forest Ave	Aquidneck Ave	357.5	8	AC	Jun-55	54	N		Low	0	2	0	5	0	0	1.25	1306	\$58,988	\$15,815,523
Midd	Fin	East Main Rd	Brookdale Ave	W of Valley Rd	328	8	AC	Jul-71	38	N		Low	0	1	0	5	0	0	1	1421	\$54,120	\$15,869,643
Midd	Fin	East Main Rd	Forest Ave	Valley Rd	2316	12	AC	May-73	36	N		Low	0	1	0	5	0	0	1	1422	\$405,300	\$16,274,943
Midd	Fin	East Main Rd	E of Valley Rd	E of Valley Rd	29	8	AC	May-73	36	N		Low	0	1	0	5	0	0	1	1423	\$4,785	\$16,279,728
Midd	Fin	East Main Rd	E of Valley Rd	across road	53	12	Ductile Iron	May-73	36	N		Low	0	1	0	0	0	0	0.25	1651	\$9,275	\$16,289,003
Midd	Fin	East Main Rd	E of Valley Rd	Valley Rd	198	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1683	\$34,650	\$16,323,653
Midd	Fin	Easton Ave	Wolcott Ave	S of Wolcott Ave	374	8	PVC	1/1/1981	28	Y		Low	0	1	0	2	0	5	1.05	1379	\$61,710	\$16,385,363
Midd	Fin	Easton Farm	W of Paradise	W of Paradise	407	4	AC	9/3/1957	52	Y		Low	5	2	0	5	0	5	3	202	\$67,155	\$16,452,518
Midd	Fin	Easton Farm	Paradise Ave	W of Paradise	35	6	Cast Iron	9/3/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	505	\$5,775	\$16,458,293
Midd	Fin	Easton Farm	W of Paradise	W of Paradise	437.5	6	AC	9/3/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	506	\$72,188	\$16,530,480
Midd	Fin	Easton Farm	W of Paradise	W of Paradise	32	6	Cast Iron	9/3/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	507	\$5,280	\$16,535,760
Midd	Fin	Easton Terr	Wolcott Ave	W of Wolcott Av	230	2	WI - CL	11/26/1952	57	Y		Low	5	2	0	5	0	5	3	203	\$37,950	\$16,573,710
Midd	Fin	Ellery Ave	S of Briarwood	Purgatory Rd	320	6	AC	12/1/1981	28	N		Low	2.5	1	0	5	0	0	1.625	1036	\$52,800	\$16,626,510
Midd	Fin	Ellery Ave	S of Newport Ave	S of Newport Av	301	8	AC	7/7/1953	56	N		Low	0	2	0	5	0	0	1.25	1307	\$49,665	\$16,676,175
Midd	Fin	Ellery Ave	S of Newport Ave	Orchard Ave	300	8	AC	5/1/1953	56	N		Low	0	2	0	5	0	0	1.25	1308	\$49,500	\$16,725,675
Midd	Fin	Ellery Ave	Newport Ave	S of Newport Av	79.5	8	AC	2/1/1966	43	N		Low	0	2	0	5	0	0	1.25	1309	\$13,118	\$16,738,793
Midd	Fin	Ellery Ave	Orchard Ave	Briarwood Ave	494	8	AC			N		Low	0	0	0	5	0	0	0.75	1509	\$81,510	\$16,820,303
Midd	Fin	Ellery Ave	Briarwood Ave	S of Briarwood	272.25	8	AC			N		Low	0	0	0	5	0	0	0.75	1510	\$44,921	\$16,865,224
Midd	Fin	Elmwood Ave	High Street	Balsam Street	180	8	AC	7/1/1961	48	N		Med	0	2	0	5	2.5	0	1.5	1138	\$29,700	\$16,894,924
Midd	Fin	Elmwood Ave	fire service		162	6	Ductile Iron	6/1/1995	14	Y		Med	2.5	0	0	0	2.5	5	1.375	1206	\$26,730	\$16,921,654
Midd	Fin	Elmwood Ave	Balsam St	Willow Ave	250	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1652	\$41,250	\$16,962,904
Midd	Fin	Enterprise Ct	E Main Rd	End		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1594	\$0	\$16,962,904
Midd	Fin	Esplanade	S of Tuckerman		1162.6	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1207	\$191,829	\$17,154,733
Midd	Fin	Esplanade	S of Tuckerman	S of Tuckerman	42.4	6	Ductile Iron	1/8/1987	22	N		Low	2.5	1	0	0	0	0	0.875	1456	\$6,996	\$17,161,729
Midd	Fin	Esplanade	Tuckerman Ave	S of Tuckerman		8	Ductile Iron	12/4/1986	23	N		Low	0	1	0	0	0	0	0.25	1653	\$0	\$17,161,729
Midd	Fin	Evelin Cir	John Kesson Ln	loop	1020	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1595	\$168,300	\$17,330,029
Midd	Fin	Everett St	Boulevard	N of Boulevard	12	4	Cast Iron	8/1/1950	59	N		Med	5	2	0	5	2.5	0	2.75	289	\$1,980	\$17,332,009
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	255	4	AC	8/1/1950	59	N		Med	5	2	0	5	2.5	0	2.75	290	\$42,075	\$17,374,084
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	78	4	AC	6/1/1951	58	N		Med	5	2	0	5	2.5	0	2.75	291	\$12,870	\$17,386,954
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	178.42	4	AC	5/6/1952	57	N		Med	5	2	0	5	2.5	0	2.75	292	\$29,439	\$17,416,393
Midd	Fin	Everett St	N of Boulevard	Granada Terr	197.5	8	AC	10/1/1962	47	N		Med	0	2	0	5	2.5	0	1.5	1139	\$32,588	\$17,448,981
Midd	Fin	Everett St	Granada Terr	Paul Ave	398	8	AC	6/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1140	\$65,670	\$17,514,651
Midd	Fin	Evergreen Ave	E of West main R	E of West main	86	6	Cast Iron	10/1/1936	73	N		Med	2.5	3	0	5	2.5	0	2.375	508	\$14,190	\$17,528,841
Midd	Fin	Evergreen Ave	E of West main R	E of West main	64	6	Cast Iron	4/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	509	\$10,560	\$17,539,401
Midd	Fin	Evergreen Ave	E of West main R	Linden St	26	6	AC	4/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	510	\$4,290	\$17,543,691
Midd	Fin	Evergreen Ave	Linden St	Oak St	249	6	AC	8/1/1955	54	N		Med	2.5	2	0	5	2.5	0	2.125	631	\$41,085	\$17,584,776
Midd	Fin	Evergreen Ave	Oak St	E of Oak St	81	6	AC	8/1/1956	53	N		Med	2.5	2	0	5	2.5	0	2.125	632	\$13,365	\$17,598,141
Midd	Fin	Evergreen Ave	West Main Rd	E of West main	98	8	Cast Iron	1/1/1932	77	N		Med	0	3	0	5	2.5	0	1.75	980	\$16,170	\$17,614,311
Midd	Fin	Evergreen Ave	West Main Rd	connect to 24	24	8	Cast Iron	1/1/1944	65	N		Med	0	3	0	5	2.5	0	1.75	981	\$3,960	\$17,618,271
Midd	Fin	Evergreen Ave	E of West main R	E of West main	6	8	Cast Iron	10/1/1936	73	N		Med	0	3	0	5	2.5	0	1.75	982	\$990	\$17,619,261
Midd	Fin	Evergreen Ave	E of Oak St	Willow Ave	157	8	AC	8/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1141	\$25,905	\$17,645,166
Midd	Fin	Fairview Ave	Boulevard	N of Boulevard	123	2	Cem Lined	3/20/1919	90	Y		Med	5	4	0	5	2.5	5	3.75	73	\$20,295	\$17,665,461
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	126.83	2	Cem Lined	6/18/1928	81	Y		Med	5	4	0	5	2.5	5	3.75	74	\$20,927	\$17,686,388
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	33.5	2	Cem Lined	5/17/1935	74	Y		Med	5	3	0	5	2.5	5	3.5	98	\$5,528	\$17,691,915
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	123	2	Cem Lined	9/1/1956	53	Y		Med	5	2	0	5	2.5	5	3.25	144	\$20,295	\$17,712,210
Midd	Fin	Fairway Dr	Brown's Ln	N of Browns	1760	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1596	\$290,400	\$18,002,610
Midd	Fin	Fenner Ave	Miantonomi Ave	Vernon Ave	698	8	AC	1/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1310	\$115,170	\$18,117,780

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)																						
	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	Fenner Ave North	Miantonomi Ave	Village Ln	493.33	8	Cast Iron	1/1/1939	70	N		Med	0	3	0	5	2.5	0	1.75	983	\$81,399	\$18,199,180
Midd	Fin	Fenner Ave North	Village Ln	Boulevard	414	8	Cast Iron	1/1/1941	68	N		Med	0	3	0	5	2.5	0	1.75	984	\$68,310	\$18,267,490
Midd	Fin	Forest Ave	West Main Rd	E West Main Rd	30	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1208	\$4,950	\$18,272,440
Midd	Fin	Forest Ave	West of Francisc	West of Francis	6.5	8	AC	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1311	\$1,073	\$18,273,512
Midd	Fin	Forest Ave	West of Francisc	East Main Rd	3302	12	AC	Dec-50	59	N		Low	0	2	0	5	0	0	1.25	1312	\$577,850	\$18,851,362
Midd	Fin	Forest Ave	West Main Rd	E of Wilson Rd	690	12	AC	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1313	\$120,750	\$18,972,112
Midd	Fin	Forest Ave	E of Wilson Rd	FAPS	136	12	Cast Iron	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1314	\$23,800	\$18,995,912
Midd	Fin	Forest Ave	FAPS	S of Forest Ave	31	10	Cast Iron	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1315	\$5,425	\$19,001,337
Midd	Fin	Forest Ave	S of Forest Ave	Existing Main	25	10	AC	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1316	\$4,375	\$19,005,712
Midd	Fin	Forest Ave	Existing Main	10-inch Cl	80	8	Cast Iron	Dec-67	42	N		Low	0	2	0	5	0	0	1.25	1317	\$13,200	\$19,018,912
Midd	Fin	Forest Ave	E West Main Rd	W of FAPS		8	AC			N		Low	0	0	0	5	0	0	0.75	1511	\$0	\$19,018,912
Midd	Fin	Forest Ave	FAPS	West of Francis	778	8	AC			N		Low	0	0	0	5	0	0	0.75	1512	\$128,370	\$19,147,282
Midd	Fin	Francisco Drive	Forest Ave	S. of Forest Ave	412	8	AC	Jul-62	47	Y		Low	0	2	0	5	0	5	1.75	985	\$67,980	\$19,215,262
Midd	Fin	Freeborn St	Miantonomi Ave	N of Hoppin Rd	565	6	AC	Sep-49	60	N	1	High	2.5	3	2.5	5	5	0	3	204	\$93,225	\$19,308,487
Midd	Fin	Gae St	Park Dr	Aquidneck Dr	469	6	AC	Apr-52	57	N		Low	2.5	2	0	5	0	0	1.875	828	\$77,344	\$19,385,831
Midd	Fin	Gibson Park Road	Bliss Rd	S of Sherwood F	275	4	AC			Y		Med	5	0	0	5	2.5	5	2.75	293	\$45,375	\$19,431,206
Midd	Fin	Goldenrod Drive	Valley Rd	Carriage Trail	500	8	Ductile Iron	May-01	8	Y		Low	0	0	0	0	0	5	0.5	1597	\$82,500	\$19,513,706
Midd	Fin	Goldenrod Drive	Carriage Trail	Wintergreen Dr	580	8	Ductile Iron	May-01	8	Y		Low	0	0	0	0	0	5	0.5	1598	\$95,700	\$19,609,406
Midd	Fin	Goldenrod Drive	Wintergreen Dr	End Goldenrod	431	8	Ductile Iron	May-01	8	Y		Low	0	0	0	0	0	5	0.5	1599	\$71,115	\$19,680,521
Midd	Fin	Gosset's Turn Rd				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1684	\$0	\$19,680,521
Midd	Fin	Granada Terrace	Everett St	W. of Willow St	505	8	AC	Oct-62	47	Y		Med	0	2	0	5	2.5	5	2	722	\$83,325	\$19,763,846
Midd	Fin	Green End Ave	Valley Rd	E. of Valley Rd	147	12	AC	Oct-59	50	Y		Med	0	2	0	5	2.5	5	2	723	\$25,725	\$19,789,571
Midd	Fin	Green End Ave	Valley Rd		615	12	AC	Sep-69	40	Y		Med	0	2	0	5	2.5	5	2	724	\$107,625	\$19,897,196
Midd	Fin	Green End Ave	Bliss Main Rd	E. of Bliss Main	305	8	AC	Apr-81	28	Y		Med	0	1	0	5	2.5	5	1.75	986	\$50,325	\$19,947,521
Midd	Fin	Green End Ave	Valley Rd	W. of Valley Rd	499	12	AC	May-57	52	N		Med	0	2	0	5	2.5	0	1.5	1142	\$87,325	\$20,034,846
Midd	Fin	Green End Ave	Bailey's Brook		1195.5	12	AC	May-57	52	N		Med	0	2	0	5	2.5	0	1.5	1143	\$209,213	\$20,244,059
Midd	Fin	Green End Ave	Miantonomi Ave.	N of Miantonomi	157	12	AC	Jun-64	45	N		Med	0	2	0	5	2.5	0	1.5	1144	\$27,475	\$20,271,534
Midd	Fin	Green End Ave	N of Miantonomi	across bridge	29.5	12	Cast Iron	May-57	52	N		Med	0	2	0	5	2.5	0	1.5	1145	\$5,163	\$20,276,696
Midd	Fin	Green End Ave	Miantonomi Ave.	S. of Miantonomi	215.75	8	PVC	Mar-82	27	Y		Med	0	1	0	2	2.5	5	1.3	1223	\$35,599	\$20,312,295
Midd	Fin	Green End Ave	S. of Miantonomi	S. of Miantonomi	260	8	Ductile Iron	Mar-82	27	Y		Med	0	1	0	0	2.5	5	1	1424	\$42,900	\$20,355,195
Midd	Fin	Green End Ave	W. of Aquidneck	E. of Berkly Ave		12	Ductile Iron	Jun-02	7	Y		Med	0	0	0	0	2.5	5	0.75	1513	\$0	\$20,355,195
Midd	Fin	Greene Ln	JH Dwyer Dr	West Main Rd	1709	12	Cast iron			Y		Low	0	0	0	5	0	5	1.25	1318	\$299,075	\$20,654,270
Midd	Fin	Greene Ln	West Main Rd	JH Dwyer Dr	1740	12	Ductile Iron			N		Low	0	0	0	0	0	0	0	1685	\$304,500	\$20,958,770
Midd	Fin	Griffin Road	Wedgewood Rd	Smithfield Dr	222.5	12	AC	Mar-82	27	Y		Med	0	1	0	5	2.5	5	1.75	987	\$38,938	\$20,997,707
Midd	Fin	Gunning Road	Wolcott Ave	W. of Walcott A	375	6	Cast Iron	Mar-51	58	Y		Low	2.5	2	0	5	0	5	2.375	511	\$61,875	\$21,059,582
Midd	Fin	Gunning Road	W. of Walcott Ave	N. on Gunning R	144	6	Cast Iron	Sep-51	58	Y		Low	2.5	2	0	5	0	5	2.375	512	\$23,760	\$21,083,342
Midd	Fin	Gunning Road	N. on Gunning Rd	N. on Gunning R	103	6	AC	4/22/1952	57	Y		Low	2.5	2	0	5	0	5	2.375	513	\$16,995	\$21,100,337
Midd	Fin	Halsey St	King Road	Maple Ave	350	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1037	\$57,750	\$21,158,087
Midd	Fin	Hammarlund Way	Johnny Cake Hill	End of Hammarlund Way	10		AC	Mar-82	27	Y		Low	0	1	0	5	0	5	1.5	1146	\$0	\$21,158,087
Midd	Fin	Harbor View Court	Maple Ave	N. on Harbor Vie	18	2	Wrought Iron	Dec-97	12	Y		Med	5	0	0	5	2.5	5	2.75	294	\$2,970	\$21,161,057
Midd	Fin	Harbor View Court	N. of Maple Ave	N. on Harbor Vie	510	1	Wrought Iron	Dec-97	12	Y		Med	5	0	0	5	2.5	5	2.75	295	\$84,150	\$21,245,207
Midd	Fin	Harold Lane	Intersection of Harold and Gunning		3	6	Cast Iron	Jul-60	49	Y		Low	2.5	2	0	5	0	5	2.375	514	\$495	\$21,245,702
Midd	Fin	Harold Lane	Gunning Rd	N. of Reservoir	124	6	AC	Jul-60	49	Y		Low	2.5	2	0	5	0	5	2.375	515	\$20,460	\$21,266,162
Midd	Fin	Harold Lane	N. of Reservoir Ave		30	6	AC	Nov-66	43	Y		Low	2.5	2	0	5	0	5	2.375	516	\$4,950	\$21,271,112
Midd	Fin	Harold Lane	N. of Reservoir A	Reservoir Rd	80	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1600	\$13,200	\$21,284,312
Midd	Fin	Hart Avenue	West Main Rd	King Ave	590	6	AC			N	1	Med	2.5	0	2.5	5	2.5	0	2	725	\$97,350	\$21,381,662
Midd	Fin	Harvest Rd	West View Rd	End	237	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1601	\$39,105	\$21,420,767
Midd	Fin	Haymaker Road	Valley Road	W. of Valley Roa	394	8	AC	Jul-61	48	Y		Med	0	2	0	5	2.5	5	2	726	\$65,010	\$21,485,777
Midd	Fin	High Meadow Ct	West View Rd	End	239	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1602	\$39,435	\$21,525,212
Midd	Fin	High Street	Boulevard	N. of Boulevard	676	8	AC	Oct-59	50	N		Med	0	2	0	5	2.5	0	1.5	1147	\$111,540	\$21,636,752
Midd	Fin	High Street	N. of Boulevard	Paul St	495	8	AC	May-61	48	N		Med	0	2	0	5	2.5	0	1.5	1148	\$81,675	\$21,718,427
Midd	Fin	High Street	Paul St	Elmwood Ave	929.5	8	AC	Jul-61	48	N		Med	0	2	0	5	2.5	0	1.5	1149	\$153,368	\$21,871,795
Midd	Fin	High Street	O'Neil Boulevard	Elmwood Ave	746	8	AC	Jul-73	36	N		Med	0	1	0	5	2.5	0	1.25	1319	\$123,090	\$21,994,885
Midd	Fin	Hill Top Avenue	Boulevard	N. of Boulevard	468	6	AC	Dec-39	70	Y		Med	2.5	3	0	5	2.5	5	2.875	278	\$77,220	\$22,072,105
Midd	Fin	Hillside Street	Reservoir Rd	N. of Reservoir	43	8	AC	Sep-71	38	Y		Low	0	1	0	5	0	5	1.5	1150	\$7,095	\$22,079,200
Midd	Fin	Honeyman Ave	Ward Ave	Cross Country	2315	8	Ductile Iron	Jan-02	7	N		Low	0	0	0	0	0	0	0	1686	\$381,975	\$22,461,175
Midd	Fin	Hoover Street	Tuckerman Ave	Walcott Ave	492	6	Cast Iron	Oct-39	70	N		Low	2.5	3	0	5	0	0	2.125	633	\$81,180	\$22,542,355
Midd	Fin	Hunt Lane	Beagle Dr	Talley Ho Court	395	8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1687	\$65,175	\$22,607,530
Midd	Fin	Ichabod Lane	Restmere Ter.	Dead end	25	6	AC	Jul-65	44	Y		Med	2.5	2	0	5	2.5	5	2.625	373	\$4,125	\$22,611,655
Midd	Fin	Ichabod Lane	Restmere Terr	End of Ichabod	146	6	AC	Jul-65	44	Y		Med	2.5	2	0	5	2.5	5	2.625	374	\$24,090	\$22,635,745
Midd	Fin	Island Drive	East Main Rd	End	1865	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1603	\$307,725	\$22,943,470

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
Midd	Fin	J.H. Dwyer Drive	Greene Ln	End J.H. Dwyer	2405	10	AC	Jun-80	29	N		Low	0	1	0	5	0	0	1	1425	\$420,875	\$23,364,345
Midd	Fin	James Street	Kane Ave	W. of Kane Ave	16	6	AC	Dec-55	54	Y		Low	2.5	2	0	5	0	5	2.375	517	\$2,640	\$23,366,985
Midd	Fin	James Street	W. of Kane Ave	W. of Kane Ave	500	6	AC	Dec-55	54	Y		Low	2.5	2	0	5	0	5	2.375	518	\$82,500	\$23,449,485
Midd	Fin	Jean Street	N of Rogers	S of Road A	586	12	AC	Aug-71	38	Y		Low	0	1	0	5	0	5	1.5	1151	\$102,550	\$23,552,035
Midd	Fin	Jean Street	Philips Ave	S. of Roy Ave	566	8	AC	Nov-62	47	N		Low	0	2	0	5	0	0	1.25	1320	\$93,390	\$23,645,425
Midd	Fin	Jean Terrace	Roy Ave	S. of Roy Ave	508	8	AC	Jul-79	30	Y		Low	0	1	0	5	0	5	1.5	1152	\$83,820	\$23,729,245
Midd	Fin	Jepson Ln	N. of Oliphant Ln	N. of Oliphant Ln	480	8	PVC	9/23/1981	28	Y		Low	0	1	0	2	0	5	1.05	1380	\$79,200	\$23,808,445
Midd	Fin	Jepson Ln	Oliphant Ln	N. of Oliphant Ln		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1604	\$0	\$23,808,445
Midd	Fin	Jib Ct	Atlantic Dr	End	270	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1605	\$44,550	\$23,852,995
Midd	Fin	John Clarke Road	Johnny Cake Hill	Silva Ln	500	10	AC	Mar-82	27	N		Low	0	1	0	5	0	0	1	1426	\$87,500	\$23,940,495
Midd	Fin	John Clarke Road	Silva Ln	Aquidneck Ave		12	AC	Mar-82	27	N		Low	0	1	0	5	0	0	1	1427	\$0	\$23,940,495
Midd	Fin	John Kesson Ln			2011	8	Ductile Iron	Jan-99	10	Y		Low	0	0	0	0	0	5	0.5	1606	\$331,815	\$24,272,310
Midd	Fin	Johnny Cake Hill	John Clarke Rd	Hammarlund Way		10	AC	Mar-82	27	Y		Low	0	1	0	5	0	5	1.5	1153	\$0	\$24,272,310
Midd	Fin	Johnny Cake Hill	Valley Rd	John Clarke Rd		12	AC	Mar-82	27	N		Low	0	1	0	5	0	0	1	1428	\$0	\$24,272,310
Midd	Fin	Johnson Terrace	East Main Rd	End		6	Ductile Iron	Dec-94	15	Y		Low	2.5	0	0	0	0	5	1.125	1376	\$0	\$24,272,310
Midd	Fin	Jude St	Park Dr	N of Park Dr	94.5	2	Wrought Iron	Apr-52	57	Y		Low	5	2	0	5	0	5	3	205	\$15,593	\$24,287,902
Midd	Fin	Jude St	N of Park Dr	N of Park Dr	28	2	Wrought Iron	Sep-52	57	Y		Low	5	2	0	5	0	5	3	206	\$4,620	\$24,292,522
Midd	Fin	Jude St	Park Dr	Aquidneck Dr		8	AC	Apr-52	57	N		Low	0	2	0	5	0	0	1.25	1321	\$0	\$24,292,522
Midd	Fin	Kane Avenue	Purgatory Rd	S. of Purgatory Rd	16	8	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1514	\$2,640	\$24,295,162
Midd	Fin	Kane Avenue	S. of Purgatory Rd	S. of Purgatory Rd	179	8	AC			N		Low	0	0	0	5	0	0	0.75	1515	\$29,535	\$24,324,697
Midd	Fin	Kane Avenue	S. of Purgatory Rd	O'Donnell Way	305	8	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1516	\$50,325	\$24,375,022
Midd	Fin	Kane Avenue	O'Donnell Way	White Terr	1197	8	AC			N		Low	0	0	0	5	0	0	0.75	1517	\$197,505	\$24,572,527
Midd	Fin	Kent Road	Ashhurst Ave	End of Kent Rd	370	6	AC	3/29/1956	53	Y		Low	2.5	2	0	5	0	5	2.375	519	\$61,050	\$24,633,577
Midd	Fin	King Road	Maple Ave	N. of Maple Ave	150	2	Wrought Iron			N		Med	5	0	0	5	2.5	0	2.25	581	\$24,750	\$24,658,327
Midd	Fin	King Road	N. of Maple Ave	King Road N. of	1150	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1038	\$189,750	\$24,848,077
Midd	Fin	King Road	King Road N. of	Halsey St	350	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1039	\$57,750	\$24,905,827
Midd	Fin	Laura Rd				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1688	\$0	\$24,905,827
Midd	Fin	Lawrence Avenue/Nav	Chases Ln	S. of Chases Ln	49	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	634	\$8,085	\$24,913,912
Midd	Fin	Lighthouse View Drive	Compton View Dr	Compton View Dr South		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1607	\$0	\$24,913,912
Midd	Fin	Linden Street	Evergreen Ave	S. of Evergreen	83.25	6	AC	Apr-49	60	Y		Med	2.5	3	0	5	2.5	5	2.875	279	\$13,736	\$24,927,649
Midd	Fin	Linden Street	Evergreen Ave	N of Evergreen	289	6	AC	Oct-49	60	Y		Med	2.5	3	0	5	2.5	5	2.875	280	\$47,685	\$24,975,334
Midd	Fin	Linden Street	S. of Evergreen	S. of Evergreen	26	6	AC	Jan-50	59	Y		Med	2.5	2	0	5	2.5	5	2.625	375	\$4,290	\$24,979,624
Midd	Fin	Linden Street	S. of Evergreen	S. of Evergreen	91	6	AC	May-51	58	Y		Med	2.5	2	0	5	2.5	5	2.625	376	\$15,015	\$24,994,639
Midd	Fin	Linden Street	S. of Evergreen	S. of Evergreen	36.5	6	AC	Sep-52	57	Y		Med	2.5	2	0	5	2.5	5	2.625	377	\$6,023	\$25,000,661
Midd	Fin	Linden Street	N of Evergreen	N of Evergreen	52	6	AC	Sep-52	57	Y		Med	2.5	2	0	5	2.5	5	2.625	378	\$8,580	\$25,009,241
Midd	Fin	Linden Street	N of Evergreen	N of Evergreen	152	6	AC	Nov-54	55	Y		Med	2.5	2	0	5	2.5	5	2.625	379	\$25,080	\$25,034,321
Midd	Fin	Longmeadow Avenue	Winthrop Dr	W. of Winthrop	458	8	AC	May-58	51	Y		Low	0	2	0	5	0	5	1.75	988	\$75,570	\$25,109,891
Midd	Fin	Longmeadow Avenue	Winthrop Dr	E. of Winthrop Dr	158	8	AC	Sep-63	46	Y		Low	0	2	0	5	0	5	1.75	989	\$26,070	\$25,135,961
Midd	Fin	Longmeadow Avenue	E. of Winthrop Dr	End of Longmea	733	8	AC	Jun-66	43	Y		Low	0	2	0	5	0	5	1.75	990	\$120,945	\$25,256,906
Midd	Fin	Loring Street	Reservoir Ave	N. of Reservoir	466	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1458	\$76,890	\$25,333,796
Midd	Fin	Loring Street	N. of Reservoir	End of Loring St	147	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1608	\$24,255	\$25,358,051
Midd	Fin	Ludlow Road	Buck Rd	Woolsey Rd	1200	6	AC	Jul-55	54	Y		Med	2.5	2	0	5	2.5	5	2.625	380	\$198,000	\$25,556,051
Midd	Fin	Maloney Lane	Walcott Ave	End of Maloney	500	8	AC	May-79	30	Y		Low	0	1	0	5	0	5	1.5	1154	\$82,500	\$25,638,551
Midd	Fin	Maple Avenue	West Main Rd	E. of RR propert	4600	12	AC	Dec-02	7	N		Med	0	0	0	5	2.5	0	1	1429	\$805,000	\$26,443,551
Midd	Fin	Maple Terrace	Maple Ave	End of Maple Te	411	8	AC	Sep-59	50	Y		Med	0	2	0	5	2.5	5	2	727	\$67,815	\$26,511,366
Midd	Fin	Maplewood Road	Rego Terrace	End of Maplewo	280	8	AC	Oct-63	46	Y		Med	0	2	0	5	2.5	5	2	728	\$46,200	\$26,557,566
Midd	Fin	Maplewood Road	West Main Rd	E. of Maplewood	250	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1040	\$41,250	\$26,598,816
Midd	Fin	Maplewood Road	E. of Ridgewood	Wood Rd	157	8	AC			Y		Med	0	0	0	5	2.5	5	1.5	1155	\$25,905	\$26,624,721
Midd	Fin	Maplewood Road	E. of Maplewood	Ridgewood Rd	66	8	AC			N		Med	0	0	0	5	2.5	0	1	1430	\$10,890	\$26,635,611
Midd	Fin	Maplewood Road	Ridgewood Rd	E. of Ridgewood	69	8	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1518	\$11,385	\$26,646,996
Midd	Fin	Marshall Lane	West Main Rd	W. of West Main	44	8	Cast Iron	Aug-54	55	N		Low	0	2	0	5	0	0	1.25	1322	\$7,260	\$26,654,256
Midd	Fin	Marshall Lane	W. of West Main	Roy Ave	1160	8	AC	Aug-54	55	N		Low	0	2	0	5	0	0	1.25	1323	\$191,400	\$26,845,656
Midd	Fin	Marshall Terr	Marshall Ln	End	220	8	Ductile Iron	Jan-02	7	Y		Low	0	0	0	0	0	5	0.5	1609	\$36,300	\$26,881,956
Midd	Fin	Mast Ct	Atlantic Dr	End	295	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1610	\$48,675	\$26,930,631
Midd	Fin	Meadow Lane	East Main Rd	Loop	3250	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1611	\$536,250	\$27,466,881
Midd	Fin	Miantonomi Ave.	Bliss Mine Rd	West Main Rd	1803	12	AC	Aug-43	66	N		Med	0	3	0	5	2.5	0	1.75	991	\$315,525	\$27,782,406
Midd	Fin	Miantonomi Ave.	Bliss Mine Rd	Green End Ave	1039	12	AC	Jun-64	45	N		Med	0	2	0	5	2.5	0	1.5	1156	\$181,825	\$27,964,231
Midd	Fin	Mixer Street	Maple Ave	S. of Maple Ave	22	8	Cast Iron	Mar-57	52	Y		Med	0	2	0	5	2.5	5	2	729	\$3,630	\$27,967,861
Midd	Fin	Mixer Street	S. of Maple Ave	S. of Maple Ave	275	8	AC	Mar-57	52	Y		Med	0	2	0	5	2.5	5	2	730	\$45,375	\$28,013,236
Midd	Fin	Mixer Street	S. of Maple Ave	S. of Maple Ave	195	8	AC	Jul-64	45	Y		Med	0	2	0	5	2.5	5	2	731	\$32,175	\$28,045,411
Midd	Fin	Mixer Street	S. of Maple Ave	S. of Maple Ave	98	8	AC	Jan-67	42	Y		Med	0	2	0	5	2.5	5	2	732	\$16,170	\$28,061,581

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
Midd	Fin	Moy Ct	Jepson Ln	End	585	8	Ductile Iron	Jan-99	10	Y		Low	0	0	0	0	0	5	0.5	1612	\$96,525	\$28,158,106
Midd	Fin	Murphy Circle	Casey Drive	W. of Casey Dr	359	6	AC	Jun-56	53	Y		Low	2.5	2	0	5	0	5	2.375	520	\$59,235	\$28,217,341
Midd	Fin	Murphy Circle	W. of Casey Dr	Donald Dr	901	6	AC	Sep-57	52	Y		Low	2.5	2	0	5	0	5	2.375	521	\$148,665	\$28,366,006
Midd	Fin	Nakomis Road	Squantum Dr	N. of Squantum	265	8	AC	Dec-62	47	Y		Low	0	2	0	5	0	5	1.75	992	\$43,725	\$28,409,731
Midd	Fin	Namquid Drive	Pocono Rd	W. of Pocono Rd	871	8	AC	Dec-62	47	N		Low	0	2	0	5	0	0	1.25	1324	\$143,715	\$28,553,446
Midd	Fin	Namquid Drive	W. of Pocono Rd	Aspinet Road	870	8	AC	May-64	45	N		Low	0	2	0	5	0	0	1.25	1325	\$143,550	\$28,696,996
Midd	Fin	Newport Avenue	Aquidneck Ave	E. of Aquidneck	366	6	AC	Jun-50	59	N	1	Low	2.5	2	2.5	5	0	0	2.25	582	\$60,390	\$28,757,386
Midd	Fin	Newport Avenue	E. of Aquidneck Ave	E. of Aquidneck	174	6	AC	Apr-52	57	N		Low	2.5	2	0	5	0	0	1.875	829	\$28,710	\$28,786,096
Midd	Fin	Newport Avenue	E. of Aquidneck Ave	E. of Aquidneck	81	6	AC	Oct-55	54	N		Low	2.5	2	0	5	0	0	1.875	830	\$13,365	\$28,799,461
Midd	Fin	Newport Avenue	E. of Aquidneck Ave	E. of Aquidneck	237	8	AC	Jun-64	45	N		Low	0	2	0	5	0	0	1.25	1326	\$39,105	\$28,838,566
Midd	Fin	Newport Avenue	Renfrew Ave	E. of Renfrew Ave	327	8	AC	Oct-69	40	N		Low	0	2	0	5	0	0	1.25	1327	\$53,955	\$28,892,521
Midd	Fin	Newport Avenue	E. of Renfrew Ave	E. of Renfrew Ave	273	8	AC	Nov-74	35	N		Low	0	1	0	5	0	0	1	1431	\$45,045	\$28,937,566
Midd	Fin	Newport Avenue	E. of Renfrew Ave	E. of Renfrew Ave	81	8	AC	May-76	33	N		Low	0	1	0	5	0	0	1	1432	\$13,365	\$28,950,931
Midd	Fin	Newport Avenue	E. of Renfrew Ave	E. of Renfrew Ave		8	AC	Oct-78	31	N		Low	0	1	0	5	0	0	1	1433	\$0	\$28,950,931
Midd	Fin	Newport Avenue	W. of Center Ave	Wolcott Ave	206	8	AC	Oct-78	31	N		Low	0	1	0	5	0	0	1	1434	\$33,990	\$28,984,921
Midd	Fin	Nicholson Crescent	Boulevard North	S. on Nicholson	757	6	Cast Iron	May-47	62	N		Med	2.5	3	0	5	2.5	0	2.375	522	\$124,905	\$29,109,826
Midd	Fin	Nicholson Crescent	W. of Boulevard	Boulevard	31	6	Cast Iron	Nov-57	52	N		Med	2.5	2	0	5	2.5	0	2.125	635	\$5,115	\$29,114,941
Midd	Fin	North Island Drive			540	8		Jul-02	7	Y		Low	0	0	0	5	0	5	1.25	1328	\$89,100	\$29,204,041
Midd	Fin	Oak Forest Drive	Oliphant Ln	Swan Dr	322	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1459	\$53,130	\$29,257,171
Midd	Fin	Oak Forest Drive	Swan Dr	E. of Swan Dr	869	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1460	\$143,385	\$29,400,556
Midd	Fin	Oak Forest Drive	E. of Swan Dr	Amesbury Circle		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1613	\$0	\$29,400,556
Midd	Fin	Oak Street	Evergreen Ave	N. of Evergreen	215	8	AC	Aug-55	54	Y		Med	0	2	0	5	2.5	5	2	733	\$35,475	\$29,436,031
Midd	Fin	Oak Street	N. of Evergreen Ave	N. of Evergreen	71	8	AC	Apr-56	53	Y		Med	0	2	0	5	2.5	5	2	734	\$11,715	\$29,447,746
Midd	Fin	Oak Street	N. of Evergreen Ave	N. of Evergreen	192	8	AC	Jun-56	53	Y		Med	0	2	0	5	2.5	5	2	735	\$31,680	\$29,479,426
Midd	Fin	Oakview Terrace	Forest Ave	W. of Forest Ave	344	6	AC			Y		Low	2.5	0	0	5	0	5	1.875	831	\$56,760	\$29,536,186
Midd	Fin	Oakwood Road	West Main Rd	E. of West Main	50	6	Cast Iron	Apr-48	61	N		Med	2.5	3	0	5	2.5	0	2.375	523	\$8,250	\$29,544,436
Midd	Fin	Oakwood Road	E. of West Main Rd	W. of Ridgewood	184	6	AC	Apr-48	61	N		Med	2.5	3	0	5	2.5	0	2.375	524	\$30,360	\$29,574,796
Midd	Fin	Oakwood Road	W. of Ridgewood	Ridgewood Rd	125	6	AC	Aug-53	56	N		Med	2.5	2	0	5	2.5	0	2.125	636	\$20,625	\$29,595,421
Midd	Fin	Oakwood Road	Wood Rd	Wood Terrace	79	8	AC	Jun-62	47	Y		Med	0	2	0	5	2.5	5	2	736	\$13,035	\$29,608,456
Midd	Fin	Ocean View Drive	Aquidneck Ave Sd	Aquidneck Ave Sd	1450	8	Ductile Iron					Low	0	0	0	0	0	0	0	1689	\$239,250	\$29,847,706
Midd	Fin	O'Connell Street	Tuckerman Ave	W. of Tuckerman	258	2	Wrought Iron	Apr-39	70	Y		Med	5	3	0	5	2.5	5	3.5	99	\$42,570	\$29,890,276
Midd	Fin	O'Donnell Road	Purgatory Rd	S of Purgatory	30	6	Cast Iron	Apr-49	60	Y		Low	2.5	3	0	5	0	5	2.625	381	\$4,950	\$29,895,226
Midd	Fin	O'Donnell Road	S of Purgatory	S of Purgatory	69	6	Cast Iron	May-49	60	Y		Low	2.5	3	0	5	0	5	2.625	382	\$11,385	\$29,906,611
Midd	Fin	O'Donnell Road	S of Purgatory	S of Purgatory	348	6	AC	May-49	60	Y		Low	2.5	3	0	5	0	5	2.625	383	\$57,420	\$29,964,031
Midd	Fin	Old Farm Way	West View Rd	End	240	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1614	\$39,600	\$30,003,631
Midd	Fin	Oliphant Lane	West Main Rd	E. of West Main	32	6	Cast Iron	Sep-95	14	Y		Low	2.5	0	0	5	0	5	1.875	832	\$5,280	\$30,008,911
Midd	Fin	Oliphant Lane	E. of West Main Rd	E. of West Main	195	8	AC	Aug-55	54	Y		Low	0	2	0	5	0	5	1.75	993	\$32,175	\$30,041,086
Midd	Fin	Oliphant Lane	East Main Rd	Jepson Ln	3177	12	AC	Dec-75	34	Y		Low	0	1	0	5	0	5	1.5	1157	\$555,975	\$30,597,061
Midd	Fin	Oliphant Lane	W. of Oak Forest	Oak Forest Dr		12	PVC			Y		Low	0	0	0	2	0	5	0.8	1461	\$0	\$30,597,061
Midd	Fin	Oliphant Lane	Oak Forest Dr	Barton Ln		12	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1615	\$0	\$30,597,061
Midd	Fin	Olive Way				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1690	\$0	\$30,597,061
Midd	Fin	O'Niell Boulevard	West Main Rd	E. of West Main	1540	10	AC	Jan-58	51	N		Med	0	2	0	5	2.5	0	1.5	1158	\$269,500	\$30,866,561
Midd	Fin	O'Niell Boulevard	E. of West Main Rd	Bailey's Brook	50	10	Cast Iron	Jun-60	49	N		Med	0	2	0	5	2.5	0	1.5	1159	\$8,750	\$30,875,311
Midd	Fin	O'Niell Boulevard	Bailey's Brook	Valley Road	1003	10	AC	Jun-60	49	N		Med	0	2	0	5	2.5	0	1.5	1160	\$175,525	\$31,050,836
Midd	Fin	Orchard Avenue	Renfrew Ave	W. of Renfrew Ave	194	6	AC	Sep-50	59	N		Med	2.5	2	0	5	2.5	0	2.125	637	\$32,010	\$31,082,846
Midd	Fin	Orchard Avenue	Renfrew Ave	E. of Renfrew Ave	252	6	AC	Sep-50	59	N		Med	2.5	2	0	5	2.5	0	2.125	638	\$41,580	\$31,124,426
Midd	Fin	Orchard Avenue	Center Ave	Wolcott Ave	325	6	AC	Sep-50	59	N		Med	2.5	2	0	5	2.5	0	2.125	639	\$53,625	\$31,178,051
Midd	Fin	Orchard Avenue	W. of Renfrew	W. of Renfrew Ave	59	6	AC	May-52	57	N		Med	2.5	2	0	5	2.5	0	2.125	640	\$9,735	\$31,187,786
Midd	Fin	Orchard Avenue	W. of Renfrew	Ellery Ave	62	6	AC	May-53	56	N		Med	2.5	2	0	5	2.5	0	2.125	641	\$10,230	\$31,198,016
Midd	Fin	Orchard Avenue	E. of Renfrew Ave	E. of Renfrew Ave	81	6	AC	Aug-53	56	N		Med	2.5	2	0	5	2.5	0	2.125	642	\$13,365	\$31,211,381
Midd	Fin	Orville Dr	Casey Dr	West of Casey Dr	57	6	AC	Feb-56	53	N		Low	2.5	2	0	5	0	0	1.875	833	\$9,405	\$31,220,786
Midd	Fin	Orville Dr	West of Casey Dr	East of Murphy Circle	281	6	AC	Jun-56	53	N		Low	2.5	2	0	5	0	0	1.875	834	\$46,365	\$31,267,151
Midd	Fin	Orville Dr	East of Murphy Circle		39	6	AC	10/18/1956	53	N		Low	2.5	2	0	5	0	0	1.875	835	\$6,435	\$31,273,586
Midd	Fin	Orville Dr	East of Murphy Circle	Murphy Circle	385	6	AC	Sep-57	52	N		Low	2.5	2	0	5	0	0	1.875	836	\$63,525	\$31,337,111
Midd	Fin	Osage Dr	Pocahontas Dr	Pocahontas Dr	912	8	AC	Sep-69	40	N		Low	0	2	0	5	0	0	1.25	1329	\$150,480	\$31,487,591
Midd	Fin	Paquin Place	Maple Ave	North of Maple Ave	448	6	AC	Nov-52	57	Y		Med	2.5	2	0	5	2.5	5	2.625	384	\$73,920	\$31,561,511
Midd	Fin	Paquin Place	North of Maple Ave	6" DI Pipe	45	6	AC	Sep-58	51	Y		Med	2.5	2	0	5	2.5	5	2.625	385	\$7,425	\$31,568,936
Midd	Fin	Paquin Place	6" Transit Pipe	Meter Pit	55.33	6	Ductile Iron	Dec-90	19	Y		Med	2.5	0	0	0	2.5	5	1.375	1209	\$9,129	\$31,578,066
Midd	Fin	Paradise Ave	6" Transit Pipe	S. of Prospect Dr	595.5	6	AC	May-40	69	Y	1	Low	2.5	3	2.5	5	0	5	3	207	\$98,258	\$31,676,323
Midd	Fin	Paradise Ave	S. of Prospect Dr	Paradise School	783	6	AC	Mar-42	67	Y	1	Low	2.5	3	2.5	5	0	5	3	208	\$129,195	\$31,805,518
Midd	Fin	Paradise Ave	Reservoir Rd	N. to 6" Transit	21.5	6	Cast Iron	May-40	69	Y		Low	2.5	3	0	5	0	5	2.625	386	\$3,548	\$31,809,066

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
Midd	Fin	Paradise Ave	Increase	Gosling Service	1141.1	8	AC	Jun-55	54	Y		Low	0	2	0	5	0	5	1.75	994	\$188,282	\$31,997,347
Midd	Raw	Paradise Ave	Paradise PS	Station 1 WTP	2232	16	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1330	\$446,400	\$32,443,747
Midd	Fin	Paradise Ave	Purgatory Rd	Plug at Reservo	3129	12	AC	Jan-79	30	N		Low	0	1	0	5	0	0	1	1435	\$547,575	\$32,991,322
Midd	Fin	Paradise Brook Farm R	Maidford River Rd	90 deg. Bend	310	8	Ductile Iron	Jul-02	7	Y		Low	0	0	0	0	0	5	0.5	1616	\$51,150	\$33,042,472
Midd	Fin	Paradise Brook Farm R	90 deg. Bend	hydrant	77	8	Ductile Iron	Jul-02	7	Y		Low	0	0	0	0	0	5	0.5	1617	\$12,705	\$33,055,177
Midd	Fin	Paradise Brook Farm R	hydrant	meter vault	510	8	Ductile Iron	Jul-02	7	Y		Low	0	0	0	0	0	5	0.5	1618	\$84,150	\$33,139,327
Midd	Fin	Paradise Ct	Paradise Ave	Easterly		6	Cast Iron			Y		Low	2.5	0	0	5	0	5	1.875	837	\$0	\$33,139,327
Midd	Fin	Paradise Pump Station	Paradise Ave	Paradise PS Hy	478	8	AC	Jan-71	38	Y		Low	0	1	0	5	0	5	1.5	1161	\$78,870	\$33,218,197
Midd	Fin	Park Dr	E of Gae St	E of Gae St	235	6	AC	Aug-54	55	N		Low	2.5	2	0	5	0	0	1.875	838	\$38,693	\$33,256,890
Midd	Fin	Park Dr	E of Gae St	E of Gae St	40	6	AC	Apr-65	44	N		Low	2.5	2	0	5	0	0	1.875	839	\$6,600	\$33,263,490
Midd	Fin	Park Dr	E of Gae St	Jude St		8	AC	Apr-52	57	N		Low	0	2	0	5	0	0	1.25	1331	\$0	\$33,263,490
Midd	Fin	Park Dr	E of Gae St	E of Gae St	5	8	AC	Sep-53	56	N		Low	0	2	0	5	0	0	1.25	1332	\$743	\$33,264,232
Midd	Fin	Park Dr	E of Gae St	Aquidneck Ave	89	8	AC	Apr-67	42	N		Low	0	2	0	5	0	0	1.25	1333	\$14,685	\$33,278,917
Midd	Fin	Pasture Farm Dr				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1691	\$0	\$33,278,917
Midd	Fin	Paul St	Willow Ave	Balsam St	238	8	AC	Jun-60	49	N		Med	0	2	0	5	2.5	0	1.5	1162	\$39,270	\$33,318,187
Midd	Fin	Paul St	Balsam St	Bailey Terrace	189	8	AC	Jul-60	49	N		Med	0	2	0	5	2.5	0	1.5	1163	\$31,185	\$33,349,372
Midd	Fin	Paul St	Bailey Terrace	High St	258	8	AC	May-61	48	N		Med	0	2	0	5	2.5	0	1.5	1164	\$42,570	\$33,391,942
Midd	Fin	Peace St	Beacon St	Northerly to Ser	154.5	6	AC	Jun-50	59	Y		Low	2.5	2	0	5	0	5	2.375	525	\$25,493	\$33,417,435
Midd	Fin	Pequot Ln	Brown's Ln	Pocahontas Dr	1224	8	Ductile Iron	Jan-97	12	N		Low	0	0	0	0	0	0	0	1692	\$201,960	\$33,619,395
Midd	Fin	Perry Rd	Wolcott Ave	E of Wolcott	510.5	6	AC	11/19/1954	55	Y		Low	2.5	2	0	5	0	5	2.375	526	\$84,233	\$33,703,627
Midd	Fin	Perry Rd	E of Wolcott	E of Wolcott	39.5	6	AC	5/11/1955	54	Y		Low	2.5	2	0	5	0	5	2.375	527	\$6,518	\$33,710,145
Midd	Fin	Perry Village	West Main Rd	Easterly	44.5	8	Cast Iron	May-55	54	Y		Low	0	2	0	5	0	5	1.75	995	\$7,343	\$33,717,487
Midd	Fin	Phelps Rd	Boulevard	Miantonomi Ave	891	8	CI - CL	Oct-39	70	N		Med	0	3	0	5	2.5	0	1.75	996	\$147,015	\$33,864,502
Midd	Fin	Philips Ave	E. of Marshall La	Blow Off	160	8	AC	Nov-62	47	Y		Low	0	2	0	5	0	5	1.75	997	\$26,400	\$33,890,902
Midd	Fin	Philips Ave	Ruth St	E. of Marshall La	856	8	AC	Jan-56	53	N		Low	0	2	0	5	0	0	1.25	1334	\$141,240	\$34,032,142
Midd	Fin	Philips Ave	Ruth St	Gate Valve	53	8	AC	Jul-61	48	N		Low	0	2	0	5	0	0	1.25	1335	\$8,745	\$34,040,887
Midd	Fin	Philips Ave	Gate Valve	Jean St	275	8	AC	Nov-62	47	N		Low	0	2	0	5	0	0	1.25	1336	\$45,375	\$34,086,262
Midd	Fin	Philips Ave	Jean St	JH Dwyer Dr	13	8	AC	Jan-80	29	N		Low	0	1	0	5	0	0	1	1436	\$2,145	\$34,088,407
Midd	Fin	Plymouth Dr	Continental Dr	Concord Dr	328	6	AC	Apr-82	27	Y		Low	2.5	1	0	5	0	5	2.125	643	\$54,120	\$34,142,527
Midd	Fin	Pocahontas Rd	Osage Rd	10" gate valve	814	10	AC	Oct-69	40	N		Low	0	2	0	5	0	0	1.25	1337	\$142,450	\$34,284,977
Midd	Fin	Pocahontas Rd	Browns Ln	Osage Rd (north	704	10	AC	Oct-69	40	N		Low	0	2	0	5	0	0	1.25	1338	\$123,200	\$34,408,177
Midd	Fin	Pocono Rd	Squantum Dr	Blow Off	587	8	AC	Dec-62	47	Y		Low	0	2	0	5	0	5	1.75	998	\$96,855	\$34,505,032
Midd	Fin	Prospect Ave	Paradise Ave	Gate Valve	56	8	Cast Iron	Jun-55	54	Y		Low	0	2	0	5	0	5	1.75	999	\$9,240	\$34,514,272
Midd	Fin	Prospect Ave	Gate Valve	Blow Off	82	8	AC	Jun-55	54	Y		Low	0	2	0	5	0	5	1.75	1000	\$13,530	\$34,527,802
Midd	Fin	Purgatory Rd	Aquidneck Ave	Paradise Ave	5000	12	AC	Jan-71	38	N		Low	0	1	0	5	0	0	1	1437	\$875,000	\$35,402,802
Midd	Raw	Raw Water	Paradise	Gardiner	1216	24	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1519	\$273,600	\$35,676,402
Midd	Raw	Raw Water	Paradise	Gardiner	2193	24	Cement			N		Low	0	0	0	5	0	0	0.75	1520	\$493,425	\$36,169,827
Midd	Fin	Reardon Dr	Aquidneck Ave	Westerly on N. R	718	8	AC	Apr-66	43	Y		Low	0	2	0	5	0	5	1.75	1001	\$118,470	\$36,288,297
Midd	Fin	Reardon Dr	Westerly on N. R	Connect Loop	1089	8	AC	Sep-66	43	Y		Low	0	2	0	5	0	5	1.75	1002	\$179,685	\$36,467,982
Midd	Fin	Rego Lane	Sousa Rd	Maplewood Rd	99	8	AC	Oct-63	46	Y	1	Med	0	2	2.5	5	2.5	5	2.375	528	\$16,335	\$36,484,317
Midd	Fin	Rego Lane	East Main Rd	N. of E. Main Rd	306.5	8	AC	9/21/1958	51	Y		Med	0	2	0	5	2.5	5	2	737	\$50,573	\$36,534,890
Midd	Fin	Rego Lane	N. of E. Main Rd	Sousa	52	8	AC	Nov-60	49	Y		Med	0	2	0	5	2.5	5	2	738	\$8,580	\$36,543,470
Midd	Fin	Renfrew Ave	Newport Ave	Briarwood Ave	1175	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1210	\$193,875	\$36,737,345
Midd	Fin	Renfrew Ave	Seascape Ave	N. of Reservoir R	259	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1211	\$42,735	\$36,780,080
Midd	Fin	Renfrew Ave	N. of Newport Ave		20	8				N		Low	0	0	0	5	0	0	0.75	1521	\$3,300	\$36,783,380
Midd	Fin	Renfrew Ave	Newport Ave	Seascape Ave	283	8				N		Low	0	0	0	5	0	0	0.75	1522	\$46,695	\$36,830,075
Midd	Fin	Renfrew Ave	N. of Reservoir Rd	Reservoir Rd	18	8				N		Low	0	0	0	5	0	0	0.75	1523	\$2,970	\$36,833,045
Midd	Fin	Renfrew Park	East	End	231	2	Wrought Iron	May-45	64	Y		Low	5	3	0	5	0	5	3.25	145	\$38,115	\$36,871,160
Midd	Fin	Renfrew Park	Ellery Rd	East	348	8	AC	Oct-41	68	Y		Low	0	3	0	5	0	5	2	739	\$57,420	\$36,928,580
Midd	Raw	Reservoir Rd	Paradise PS	Station 1 WTP	5596	16	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1339	\$1,119,200	\$38,047,780
Midd	Fin	Reservoir Rd	Gate at Standpipe	Reducer	150	18	Cast Iron	Jan-65	44	N		Low	0	2	0	5	0	0	1.25	1340	\$30,000	\$38,077,780
Midd	Fin	Reservoir Rd	Reducer	W. of Walcott A	815	20	Cast Iron	Jan-65	44	N		Low	0	2	0	5	0	0	1.25	1341	\$163,000	\$38,240,780
Midd	Fin	Reservoir Rd	Reducer at Parad	Reducer at Aquid	5235	16	Ductile Iron	Jan-71	38	N		Low	0	1	0	0	0	0	0.25	1654	\$1,047,000	\$39,287,780
Midd	Fin	Reservoir Rd	Aquidneck Ave	Walcott Ave		16	Ductile Iron	Jan-71	38	N		Low	0	1	0	0	0	0	0.25	1655	\$0	\$39,287,780
Midd	Fin	Restmere Terrace	Blow Off	Dead end	100	6	AC	Jun-69	40	Y		Med	2.5	2	0	5	2.5	5	2.625	387	\$16,500	\$39,304,280
Midd	Fin	Restmere Terrace	Miantonomi Ave	Blow Off	315	8	AC	Aug-63	46	Y		Med	0	2	0	5	2.5	5	2	740	\$51,975	\$39,356,255
Midd	Fin	Ridgewood Rd	N of Oakwood Rd	Oakwood Rd	175	6	AC	8/10/1953	56	Y		Med	2.5	2	0	5	2.5	5	2.625	388	\$28,875	\$39,385,130
Midd	Fin	Ridgewood Rd	Blow Off	N of Oakwood R	195	8	AC	Nov-61	48	Y		Med	0	2	0	5	2.5	5	2	741	\$32,175	\$39,417,305
Midd	Fin	Ridgewood Rd	Rockwood	N of Rockwood	38	8	AC	Nov-51	58	Y		Med	0	2	0	5	2.5	5	2	742	\$6,270	\$39,423,575
Midd	Fin	Ridgewood Rd	N of Rockwood	N of Rockwood	94	8	AC	Mar-52	57	Y		Med	0	2	0	5	2.5	5	2	743	\$15,510	\$39,439,085
Midd	Fin	Ridgewood Rd	N of Rockwood	N of Rockwood	61	8	AC	Apr-53	56	Y		Med	0	2	0	5	2.5	5	2	744	\$10,065	\$39,449,150

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	Ridgewood Rd	N of Oakwood Rd	N of Oakwood R	133.5	8	AC	Nov-61	48	Y		Med	0	2	0	5	2.5	5	2	745	\$22,028	\$39,471,177
Midd	Fin	Ridgewood Rd	N of Rockwood	N of Rockwood	169	8	AC	Jul-69	40	Y		Med	0	2	0	5	2.5	5	2	746	\$27,885	\$39,499,062
Midd	Fin	Ridgewood Rd	Oakwood Rd	N. of Maplewood	431	8	AC	Jul-67	42	N		Med	0	2	0	5	2.5	0	1.5	1165	\$71,115	\$39,570,177
Midd	Fin	Ridgewood Rd	N. of Maplewood	Maplewood Rd	404	8	Ductile Iron			N		Med	0	0	0	0	2.5	0	0.25	1656	\$66,660	\$39,636,837
Midd	Fin	Road "A" off Jean Street	Jean St	W. of Jean St	265	12	AC	Aug-71	38	Y		Low	0	1	0	5	0	5	1.5	1166	\$46,375	\$39,683,212
Midd	Fin	Road B	Pocahontas Dr	Dead end	153	8	AC	Oct-69	40	Y		Low	0	2	0	5	0	5	1.75	1003	\$25,245	\$39,708,457
Midd	Fin	Rockwood Rd	E of W Main Rd	E of W Main Rd	48	8	Cast Iron	10/15/1951	58	Y		Med	0	2	0	5	2.5	5	2	747	\$7,920	\$39,716,377
Midd	Fin	Rockwood Rd	West Main Rd	E of W Main Rd	10.5	8	Cast Iron	May-57	52	Y		Med	0	2	0	5	2.5	5	2	748	\$1,733	\$39,718,110
Midd	Fin	Rockwood Rd	E of W Main Rd	Ridgewood Rd	314	8	AC	11/14/1951	58	Y		Med	0	2	0	5	2.5	5	2	749	\$51,810	\$39,769,920
Midd	Fin	Roger Lane	Jean St	West Main Rd	2284	12	AC	Aug-71	38	Y		Low	0	1	0	5	0	5	1.5	1167	\$399,700	\$40,169,620
Midd	Fin	Rooster Way	West View Rd	End	325	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1619	\$53,625	\$40,223,245
Midd	Fin	Rosa Rd	S of Maple		12	4	Cast Iron	Jul-48	61	Y		Med	5	3	0	5	2.5	5	3.5	100	\$1,980	\$40,225,225
Midd	Fin	Rosa Rd		Dead End	394	4	AC	Jul-48	61	Y		Med	5	3	0	5	2.5	5	3.5	101	\$65,010	\$40,290,235
Midd	Fin	Rosa Rd	Maple Ave	S of Maple	38	6	Cast Iron	Jul-48	61	Y		Med	2.5	3	0	5	2.5	5	2.875	281	\$6,270	\$40,296,505
Midd	Fin	Roseart Terrace	Jean Terrace	Dead end	220	8	AC	Jul-79	30	Y		Low	0	1	0	5	0	5	1.5	1168	\$36,300	\$40,332,805
Midd	Fin	Rosedale Ave	Stockton Dr	E of Stockton	158	6	AC	Nov-51	58	Y		Med	2.5	2	0	5	2.5	5	2.625	389	\$26,070	\$40,358,875
Midd	Fin	Rosedale Ave	E of Stockton	E of Stockton	156.5	6	AC	3/29/1954	55	Y		Med	2.5	2	0	5	2.5	5	2.625	390	\$25,823	\$40,384,697
Midd	Fin	Rosedale Ave	E of Stockton	End	73	6	AC	May-79	30	Y		Med	2.5	1	0	5	2.5	5	2.375	529	\$12,045	\$40,396,742
Midd	Fin	Rosedale Ct	Stockton Dr	Beginning of Loop	260	4	AC	Jan-44	65	Y		Med	5	3	0	5	2.5	5	3.5	102	\$42,900	\$40,439,642
Midd	Fin	Rosedale Ct	Beginning of Loop	End of Loop	250	2	Wrought Iron	Jan-44	65	Y		Med	5	3	0	5	2.5	5	3.5	103	\$41,250	\$40,480,892
Midd	Fin	Rosedale Terrace	Rosedale Ave	Dead end	377.5	6	AC	3/31/1954	55	Y		Med	2.5	2	0	5	2.5	5	2.625	391	\$62,288	\$40,543,180
Midd	Fin	Roy Ave	Ruth St	W. of Marshall L	680	8	AC	Jan-56	53	N		Low	0	2	0	5	0	0	1.25	1342	\$112,200	\$40,655,380
Midd	Fin	Roy Ave	W. of Ruth St	Westerly on Roy	52	8	AC	Jul-60	49	N		Low	0	2	0	5	0	0	1.25	1343	\$8,580	\$40,663,960
Midd	Fin	Roy Ave	W. of Ruth St	Jean St	282.5	8	AC	Nov-62	47	N		Low	0	2	0	5	0	0	1.25	1344	\$46,613	\$40,710,572
Midd	Fin	Roy Ave	Marshall Ln	W. of Marshall L	93	8	AC	Sep-71	38	N		Low	0	1	0	5	0	0	1	1438	\$15,345	\$40,725,917
Midd	Fin	Roy Ave	Philips Ave	Roy Ave	458.5	8	AC	Jan-56	53	N		Low	0	2	0	5	0	0	1.25	1345	\$75,653	\$40,801,570
Midd	Fin	Sachuest Beach	Gate @ Paradise	Meter Pit near B	3201	4	AC	May-63	46	Y		Low	5	2	0	5	0	5	3	209	\$528,165	\$41,329,735
Midd	Fin	Sail Ct	Atlantic Dr	End	250	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1620	\$41,250	\$41,370,985
Midd	Fin	Samson Ln				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1693	\$0	\$41,370,985
Midd	Fin	Sanctuary View Dr				8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1621	\$0	\$41,370,985
Midd	Fin	Seaboard Court	High St	Blow Off	187	6	AC	Sep-59	50	Y		Med	2.5	2	0	5	2.5	5	2.625	392	\$30,855	\$41,401,840
Midd	Fin	Seascape Ave	Renfrew Ave	Perlinger Service	279	6	AC	Nov-55	54	Y		Low	2.5	2	0	5	0	5	2.375	530	\$46,035	\$41,447,875
Midd	Fin	Seascape Ave	Perlinger Service	Santos Service	221	6	AC	May-59	50	Y		Low	2.5	2	0	5	0	5	2.375	531	\$36,465	\$41,484,340
Midd	Fin	Seascape Ave	Wolcott Ave	Roche Service	174	6	AC	Sep-50	59	N		Low	2.5	2	0	5	0	0	1.875	840	\$28,710	\$41,513,050
Midd	Fin	Seascape Ave	Roche Service	Mitchell Service	256	6	AC	Aug-52	57	N		Low	2.5	2	0	5	0	0	1.875	841	\$42,240	\$41,555,290
Midd	Fin	Seascape Ave	Renfrew Ave	Alves Service	175	6	AC	Jun-58	51	N		Low	2.5	2	0	5	0	0	1.875	842	\$28,875	\$41,584,165
Midd	Fin	Seascape Ave	Alves Service	Brennan Service	70	6	AC	Oct-65	44	N		Low	2.5	2	0	5	0	0	1.875	843	\$11,550	\$41,595,715
Midd	Fin	Seascape Ave	Brennan Service	Mitchell Service	205	6	AC	Feb-66	43	N		Low	2.5	2	0	5	0	0	1.875	844	\$33,825	\$41,629,540
Midd	Fin	Seascape Ave	W. of Newport Av	Reducer	265	8	AC	Dec-78	31	Y		Low	0	1	0	5	0	5	1.5	1169	\$43,725	\$41,673,265
Midd	Fin	Service Rd	West Main Rd	S. of West Main	39	6	Cast Iron	Sep-53	56	Y		Low	2.5	2	0	5	0	5	2.375	532	\$6,435	\$41,679,700
Midd	Fin	Service Rd	S. of West Main	A & P	210	6	AC	Sep-53	56	Y		Low	2.5	2	0	5	0	5	2.375	533	\$34,650	\$41,714,350
Midd	Fin	Service Rd	A & P	Hydrant after An	258	6	AC	Oct-69	40	Y		Low	2.5	2	0	5	0	5	2.375	534	\$42,570	\$41,756,920
Midd	Fin	Shangri-La Lane	Bliss Mine Rd	S of Bliss	7	6	Cast Iron	Oct-43	66	N		Med	2.5	3	0	5	2.5	0	2.375	535	\$1,155	\$41,758,075
Midd	Fin	Shangri-La Lane	S of Bliss	E of Vernon	855	6	AC	Oct-43	66	N		Med	2.5	3	0	5	2.5	0	2.375	536	\$141,075	\$41,899,150
Midd	Fin	Shangri-La Lane	E of Vernon	Vernon Ave	8	6	Cast Iron	Oct-43	66	N		Med	2.5	3	0	5	2.5	0	2.375	537	\$1,320	\$41,900,470
Midd	Fin	Shaw Court	High St	Blow Off	169	6	AC	Jul-51	58	Y		Med	2.5	2	0	5	2.5	5	2.625	393	\$27,885	\$41,928,355
Midd	Fin	Sherman Lane	Maple Ave	North	826	2	Cem Lined	Aug-48	61	Y		Med	5	3	0	5	2.5	5	3.5	104	\$136,290	\$42,064,645
Midd	Fin	Sherri Lane	Adelaide Ave	Blow Off	369	2	Wrought Iron	4/10/1956	53	Y		Med	5	2	0	5	2.5	5	3.25	146	\$60,885	\$42,125,530
Midd	Fin	Sherwood Road	North	N of Gibson Par	331	4	AC			Y		Med	5	0	0	5	2.5	5	2.75	296	\$54,615	\$42,180,145
Midd	Fin	Sherwood Road	North	North	150	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	644	\$24,750	\$42,204,895
Midd	Fin	Sherwood Road	North	North	206	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	645	\$33,990	\$42,238,885
Midd	Fin	Sherwood Road	North	North	120	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	646	\$19,800	\$42,258,685
Midd	Fin	Sherwood Road	Bliss Rd	North	285	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	647	\$47,025	\$42,305,710
Midd	Fin	Silva Lane	John Clarke Rd	End of Silva Lan	692.24	10	AC	Mar-82	27	Y		Low	0	1	0	5	0	5	1.5	1170	\$121,142	\$42,426,852
Midd	Fin	Simmons Terr	Miantonomi Ave	End	219	2	Gal - CL	6/29/1954	55	Y		Med	5	2	0	5	2.5	5	3.25	147	\$36,135	\$42,462,987
Midd	Fin	Smithfield Dr	Haymaker Rd	S of Haymaker R	468	8	AC	7/11/1961	48	Y		Low	0	2	0	5	0	5	1.75	1004	\$77,220	\$42,540,207
Midd	Fin	Smythe Av	West Main Rd	W of W Main Rd	262	6	Cast Iron	7/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	538	\$43,230	\$42,583,437
Midd	Fin	Smythe Av	Maple Ave	S of Maple Ave	35	6	Cast Iron	10/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	539	\$5,775	\$42,589,212
Midd	Fin	Smythe Av	S of Maple Ave	S of Maple Ave	317	6	AC	10/1/1949	60	N		Med	2.5	3	0	5	2.5	0	2.375	540	\$52,305	\$42,641,517
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	192	6	Cast Iron	4/23/1953	56	N		Med	2.5	2	0	5	2.5	0	2.125	648	\$31,680	\$42,673,197
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	107	6	AC	10/1/1955	54	N		Med	2.5	2	0	5	2.5	0	2.125	649	\$17,655	\$42,690,852

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)																						
	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	52	6	AC	8/1/1957	52	N		Med	2.5	2	0	5	2.5	0	2.125	650	\$8,580	\$42,699,432
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	56	6	AC	7/1/1956	53	N		Med	2.5	2	0	5	2.5	0	2.125	651	\$9,240	\$42,708,672
Midd	Fin	Spinnaker Ct	Atlantic Dr	End	270	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1622	\$44,550	\$42,753,222
Midd	Fin	Squantam Ct				6	AC			Y		Low	2.5	0	0	5	0	5	1.875	845	\$0	\$42,753,222
Midd	Fin	Squantam Dr	West Main Rd	E of Pocono Rd	271	12	AC	12/1/1962	47	N		Low	0	2	0	5	0	0	1.25	1346	\$47,425	\$42,800,647
Midd	Fin	Squantam Dr	E of Pocono Rd	W of Nakomis R	854	10	AC	12/1/1962	47	N		Low	0	2	0	5	0	0	1.25	1347	\$149,450	\$42,950,097
Midd	Fin	Squantam Dr	W of Nakomis Rd	W of Aspinet Rd	985	10	AC	5/1/1964	45	N		Low	0	2	0	5	0	0	1.25	1348	\$172,375	\$43,122,472
Midd	Fin	Squantam Dr	W of Aspinet Rd	Browns Ln	641	10	AC	10/1/1969	40	N		Low	0	2	0	5	0	0	1.25	1349	\$112,175	\$43,234,647
Midd	Fin	Stimpson St			100	2	Wrought Iron			Y		Low	5	0	0	5	0	5	2.5	425	\$16,500	\$43,251,147
Midd	Fin	Stockton Dr	West Main Rd	Rosedale Ave	1110	6	AC	1/1/1944	65	N	1	Med	2.5	3	2.5	5	2.5	0	2.75	297	\$183,150	\$43,434,297
Midd	Fin	Sullivan Terr	W of West Main Rd	Motel	100	2	Copper	5/1/1957	52	Y		Low	5	2	0	3	0	5	2.7	305	\$16,500	\$43,450,797
Midd	Fin	Sullivan Terr	West Main Rd	W of West Main	16	6	Cast Iron	5/1/1957	52	Y		Low	2.5	2	0	5	0	5	2.375	541	\$2,640	\$43,453,437
Midd	Fin	Sullivan Terr	W of West Main Rd	W of West Main Rd		8	AC	5/1/1957	52	Y		Low	0	2	0	5	0	5	1.75	1005	\$0	\$43,453,437
Midd	Fin	Sundown Ln	Buck Rd	End	760	8	Ductile Iron	1/1/1993	16	Y		Med	0	0	0	0	2.5	5	0.75	1524	\$125,400	\$43,578,837
Midd	Fin	Sunset Hill Rd	W of Kane Ave	Wolcott Ave		6	AC			N		Low	2.5	0	0	5	0	0	1.375	1212	\$0	\$43,578,837
Midd	Fin	Sunset Hill Rd	Kane Ave	W of Kane Ave	234	8	AC	10/1/1981	28	N		Low	0	1	0	5	0	0	1	1439	\$38,610	\$43,617,447
Midd	Fin	Swan Dr	Oak Forest Dr	End	760	8	PVC			Y		Low	0	0	0	2	0	5	0.8	1462	\$125,400	\$43,742,847
Midd	Fin	Tally Ho Ct	Berkeley Ave	End		8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1623	\$0	\$43,742,847
Midd	Fin	Toni Lynn Terr	Reservoir Rd	Wayside Ave	463	8	AC	5/1/1974	35	Y		Low	0	1	0	5	0	5	1.5	1171	\$76,395	\$43,819,242
Midd	Fin	Trout Dr	Green End Ave	N of Green End	1750	8	Ductile Iron	1/1/1993	16	Y		Low	0	0	0	0	0	5	0.5	1624	\$288,750	\$44,107,992
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	705.75	6	CI - CL	10/1/1937	72	N		Low	2.5	3	0	5	0	0	2.125	652	\$116,449	\$44,224,440
Midd	Fin	Tuckerman Ave	Hoover St	Wolcott Ave	2007	6	Cast Iron			N	8	Low	2.5	0	5	5	0	0	2.125	653	\$331,155	\$44,555,595
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	350	6	AC	10/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	654	\$57,750	\$44,613,345
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	10	6	Cast Iron	10/1/1949	60	N		Low	2.5	3	0	5	0	0	2.125	655	\$1,650	\$44,614,995
Midd	Fin	Tuckerman Ave	Wolcott Ave	S of Kane Rd	629	6	AC	5/1/1955	54	N		Low	2.5	2	0	5	0	0	1.875	846	\$103,785	\$44,718,780
Midd	Fin	Tuckerman Ave	N of Kane Rd	S of Ashurst Ave	194	6	AC	11/1/1951	58	N		Low	2.5	2	0	5	0	0	1.875	847	\$32,010	\$44,750,790
Midd	Fin	Tuckerman Ave	S of Ashurst Ave	N of Ashurst Ave	368	6	AC	3/2/1951	58	N		Low	2.5	2	0	5	0	0	1.875	848	\$60,720	\$44,811,510
Midd	Fin	Tuckerman Ave	S of Kane Rd	S of Kane Rd	13	6	AC	1/1/1967	42	N		Low	2.5	2	0	5	0	0	1.875	849	\$2,145	\$44,813,655
Midd	Fin	Tuckerman Ave	S of Kane Rd	N of Kane Rd	384	6	AC	4/1/1968	41	N		Low	2.5	2	0	5	0	0	1.875	850	\$63,360	\$44,877,015
Midd	Fin	Tuckerman Ave	N of Kane Rd	N of Kane Rd	393	6	AC	9/1/1971	38	N		Low	2.5	1	0	5	0	0	1.625	1041	\$64,845	\$44,941,860
Midd	Fin	Tuckerman Ave	Purgatory Rd	Hoover St	1357	8	Cast Iron			N	2	Low	0	0	5	5	0	0	1.5	1172	\$223,905	\$45,165,765
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	38.5	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1213	\$6,353	\$45,172,118
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	Purgatory Rd		6	AC			N		Low	2.5	0	0	5	0	0	1.375	1214	\$0	\$45,172,118
Midd	Fin	Turner Rd	East Main Rd	S of East Main Rd	79	8	AC	Nov-67	42	Y		Low	0	2	0	5	0	5	1.75	1006	\$13,035	\$45,185,153
Midd	Fin	Turner Rd	S of East Main Rd	S of East Main Rd	138	8	AC	Oct-69	40	Y		Low	0	2	0	5	0	5	1.75	1007	\$22,770	\$45,207,923
Midd	Fin	Turner Rd	S of East Main Rd	S of East Main Rd	200	8	AC	Jul-78	31	Y		Low	0	1	0	5	0	5	1.5	1173	\$33,000	\$45,240,923
Midd	Fin	Turner Rd	Green End Ave	Wyatt Rd	4970	12	Ductile Iron	Jan-03	6	N		Low	0	0	0	0	0	0	0	1694	\$869,750	\$46,110,673
Midd	Fin	Underwood Lane	Maple Ave	North	785	6	AC	9/17/1954	55	Y		Med	2.5	2	0	5	2.5	5	2.625	394	\$129,525	\$46,240,198
Midd	Fin	Unity Dr				8	Ductile Iron			N		Low	0	0	0	0	0	0	0	1695	\$0	\$46,240,198
Midd	Fin	Valley Rd	Green End Ave	South	1048	12	AC	8/1/1975	34	Y		Med	0	1	0	5	2.5	5	1.75	1008	\$183,400	\$46,423,598
Midd	Fin	Valley Rd	Aquidneck Ave	North	1552	12	AC	11/1/1974	35	Y		Med	0	1	0	5	2.5	5	1.75	1009	\$271,600	\$46,695,198
Midd	Fin	Valley Rd	High School	south toward W	1205	12	AC	6/1/1961	48	N		Med	0	2	0	5	2.5	0	1.5	1174	\$210,875	\$46,906,073
Midd	Fin	Valley Rd		51' past Wedge	208	12	AC	11/1/1964	45	N		Med	0	2	0	5	2.5	0	1.5	1175	\$36,400	\$46,942,473
Midd	Fin	Valley Rd	end of Valley	across W Main R	42	8	Cast Iron	5/22/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1176	\$6,930	\$46,949,403
Midd	Fin	Valley Rd	hyd M-87 O'Neil	High School	230	12	AC	7/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1177	\$40,250	\$46,989,653
Midd	Fin	Valley Rd	main Green End A	north to branch	234	12	AC	4/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1178	\$40,950	\$47,030,603
Midd	Fin	Valley Rd	branch at Contine	Winthrop Dr	588	12	AC	5/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1179	\$102,900	\$47,133,503
Midd	Fin	Valley Rd	East Main Rd	south	213	12	AC	5/1/1973	36	N		Med	0	1	0	5	2.5	0	1.25	1350	\$37,275	\$47,170,778
Midd	Fin	Valley Rd	extended	hyd M-87 @O'N	610	12	AC	7/1/1973	36	N		Med	0	1	0	5	2.5	0	1.25	1351	\$106,750	\$47,277,528
Midd	Fin	Valley Rd	Winthrop Dr	Longmeadow	196	12	AC			N		Med	0	0	0	5	2.5	0	1	1440	\$34,300	\$47,311,828
Midd	Fin	Valley Rd	Longmeadow	north	343	12	AC			N		Med	0	0	0	5	2.5	0	1	1441	\$60,025	\$47,371,853
Midd	Fin	Valley Rd North	12" x 8" tee	off road to tee	115					Y		Med	0	0	0	5	2.5	5	1.5	1180	\$18,975	\$47,390,828
Midd	Fin	Valley Rd North	12" x 8" tee	past hyd M-238	49	6	Ductile Iron			Y		Med	2.5	0	0	0	2.5	5	1.375	1215	\$8,085	\$47,398,913
Midd	Fin	Valley Rd North		hyd M-249	225	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1525	\$39,375	\$47,438,288
Midd	Fin	Valley Rd North	hyd M-249	hyd M-248	233	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1526	\$40,775	\$47,479,063
Midd	Fin	Valley Rd North	hyd M-248	6" gate	188	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1527	\$32,900	\$47,511,963
Midd	Fin	Valley Rd North	6" gate	across st, past 1	50	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1528	\$8,750	\$47,520,713
Midd	Fin	Valley Rd North	~3' in from last po	12" x 8" tee	468	12	Ductile Iron			Y		Med	0	0	0	0	2.5	5	0.75	1529	\$81,900	\$47,602,613
Midd	Fin	Vanicek Ave	West Main Rd	West	560	8	AC	4/1/1971	38	Y		Low	0	1	0	5	0	5	1.5	1181	\$92,400	\$47,695,013
Midd	Fin	Vernon Ave	Fenner Ave	Bliss Mine	841	8	AC	9/1/1970	39	N		Med	0	1	0	5	2.5	0	1.25	1352	\$138,765	\$47,833,778
Midd	Fin	Village Lane	Phelps Rd	Fenner Ave	270.17	8	CI - CL	Oct-39	70	N		Med	0	3	0	5	2.5	0	1.75	1010	\$44,578	\$47,878,356

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)																						
	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cum Est
Midd	Fin	Wabasso Terrace	East Main Rd 12"	AC	1030	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1625	\$169,950	\$48,048,306
Midd	Fin	Walcott Terrace	Wolcott Ave	E of Wolcott	72	6	Cast Iron			N		Low	2.5	0	0	5	0	0	1.375	1216	\$11,880	\$48,060,186
Midd	Fin	Walcott Terrace	E of Wolcott	White Terr	767	6	AC			N		Low	2.5	0	0	5	0	0	1.375	1217	\$126,555	\$48,186,741
Midd	Fin	Ward Ave	Turner Rd	Columbia Rd	Jul-01	8	Ductile Iron	1/1/2003	6	N		Low	0	0	0	0	0	0	0	1696	\$95,370	\$48,282,111
Midd	Fin	Ward Ave	Columbia Rd stub	Honeyman Ave	250	8	Ductile Iron	1/1/2002	7	N		Low	0	0	0	0	0	0	0	1697	\$41,250	\$48,323,361
Midd	Fin	Warren Ave	Newport Ave	Hyd 79	205	8	AC	Jan-58	51	N		Low	0	2	0	5	0	0	1.25	1353	\$33,825	\$48,357,186
Midd	Fin	Warren Ave	Hyd 79	Briarwood Ave	841	8	AC	4/1/1969	40	N		Low	0	2	0	5	0	0	1.25	1354	\$138,765	\$48,495,951
Midd	Fin	Wedgewood Rd	Griffin Rd	south	130	8	AC	3/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1182	\$21,450	\$48,517,401
Midd	Fin	Wedgewood Rd	Griffin Rd	north around be	705.62	12	AC	3/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1183	\$123,484	\$48,640,884
Midd	Fin	West Main Road	point b	south	430	2	Wrought Iron	Jan-29	80	N		Med	5	4	0	5	2.5	0	3.25	148	\$70,950	\$48,711,834
Midd	Fin	West Main Road	gate	north to gate	110	1.5	Wrought Iron	10/1/1945	64	N		Med	5	3	0	5	2.5	0	3	210	\$18,150	\$48,729,984
Midd	Fin	West Main Road	gate	north	102	1.5	Wrought Iron	4/1/1949	60	N		Med	5	3	0	5	2.5	0	3	211	\$16,830	\$48,746,814
Midd	Fin	West Main Road	south of Evergree	across to east side of street		2	Wrought Iron			N		Med	5	0	0	5	2.5	0	2.25	583	\$0	\$48,746,814
Midd	Fin	West Main Road	point a	north	253	6	AC	10/1/1952	57	N		Med	2.5	2	0	5	2.5	0	2.125	656	\$41,745	\$48,788,559
Midd	Fin	West Main Road	runs west side of street by Evergre		900	24	cast iron	Jan-42	67	N	1	Med	0	3	2.5	5	2.5	0	2.125	657	\$202,500	\$48,991,059
Midd	Fin	West Main Road	gate in Evergreen	north along east	18	1.5	Copper			N		Med	5	0	0	3	2.5	0	1.95	756	\$2,970	\$48,994,029
Midd	Fin	West Main Road	Newport Line	north to just pas	1426	24	CI - CL	Jan-43	66	N		Med	0	3	0	5	2.5	0	1.75	1011	\$320,850	\$49,314,879
Midd	Fin	West Main Road	gate on main near	north past Chases Lane		24	cast iron			N	5	Med	0	0	5	5	2.5	0	1.75	1012	\$0	\$49,314,879
Midd	Fin	West Main Road	NWW Plant	Raytheon Plant	2670	12	Cast Iron	12/1/1959	50	N		Med	0	2	0	5	2.5	0	1.5	1184	\$467,250	\$49,782,129
Midd	Fin	West Main Road	gate at Forest Ave	north now 22' from east side		24	cast iron			N	1	Med	0	0	2.5	5	2.5	0	1.375	1218	\$0	\$49,782,129
Midd	Fin	West Main Road	16" CI at Reservo	Beyond Union St		24	AC			N	1	Med	0	0	2.5	5	2.5	0	1.375	1219	\$0	\$49,782,129
Midd	Fin	West Main Road	Dudley Ave	across street to Dudley Plac		8	cast iron			N		Med	0	0	0	5	2.5	0	1	1442	\$0	\$49,782,129
Midd	Fin	West Main Road	at Evergreen	across to gate in Evergreen		8				N		Med	0	0	0	5	2.5	0	1	1443	\$0	\$49,782,129
Midd	Fin	West Main Road	Elmwood Ave gate	across to gate of	38	8	cast iron			N		Med	0	0	0	5	2.5	0	1	1444	\$6,270	\$49,788,399
Midd	Fin	West Main Road	approx 40' before	main diagonally crosses tow		24	cast iron			N		Med	0	0	0	5	2.5	0	1	1445	\$0	\$49,788,399
Midd	Fin	West Main Road	continues past Ol	aprox 300' before Greene L		24	cast iron			N		Med	0	0	0	5	2.5	0	1	1446	\$0	\$49,788,399
Midd	Fin	West Main Road	aprox 450' before	20.6' from west s	60	24	cast iron			N		Med	0	0	0	5	2.5	0	1	1447	\$13,500	\$49,801,899
Midd	Fin	West Main Road	bend	north	216	24	cast iron			N		Med	0	0	0	5	2.5	0	1	1448	\$48,600	\$49,850,499
Midd	Fin	West Main Road	where 216" cast ir	north		24	AC			N		Med	0	0	0	5	2.5	0	1	1449	\$0	\$49,850,499
Midd	Fin	West Main Road	Filter Plant	16" CI at Reserv	487	24	AC	Cont. #1		N		Med	0	0	0	5	2.5	0	1	1450	\$109,575	\$49,960,074
Midd	Fin	West View Rd	West Main Rd	Cows Path	2115	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1626	\$348,975	\$50,309,049
Midd	Fin	White Terrace	Wolcott Ave	Kane	614	6	AC			N		Med	2.5	0	0	5	2.5	0	1.625	1042	\$101,310	\$50,410,359
Midd	Fin	William Drive	Wedgewood valve	south to valve	412.33	12	AC	3/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1185	\$72,158	\$50,482,517
Midd	Fin	William Drive	Wedgewood valve	north to hydrant	553.16	12	AC	3/1/1982	27	Y		Low	0	1	0	5	0	5	1.5	1186	\$96,803	\$50,579,320
Midd	Fin	Willow Ave	Elmwood Ave	N of Paul St	708	8	AC	8/1/1957	52	N		Med	0	2	0	5	2.5	0	1.5	1187	\$116,820	\$50,696,140
Midd	Fin	Willow Ave	N of Paul St	Paul St	418	8	AC	5/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1188	\$68,970	\$50,765,110
Midd	Fin	Willow Ave	Paul St	southerly	39	8	AC	5/1/1960	49	N		Med	0	2	0	5	2.5	0	1.5	1189	\$6,435	\$50,771,545
Midd	Fin	Willow Ave	S of Paul St	Granada Terr	166.5	8	AC	10/1/1962	47	N		Med	0	2	0	5	2.5	0	1.5	1190	\$27,473	\$50,799,018
Midd	Fin	Wilson Rd	Forest Ave	Forest Ave	1041	8	AC	10/1/1960	49	N		Low	0	2	0	5	0	0	1.25	1355	\$171,765	\$50,970,783
Midd	Fin	Wintergreen Dr	Goldenrod Dr gate	hydrant	462	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1627	\$76,230	\$51,047,013
Midd	Fin	Wintergreen Dr	hydrant	gate at Carriage	208.5	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1628	\$34,403	\$51,081,415
Midd	Fin	Wintergreen Dr	gate at Carriage	hydrant	308	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1629	\$50,820	\$51,132,235
Midd	Fin	Wintergreen Dr	hydrant	hydrant AT END	295	8	Ductile Iron			Y		Low	0	0	0	0	0	5	0.5	1630	\$48,675	\$51,180,910
Midd	Fin	Winthrop Dr	Valley Rd	Longmeadow Av	713	8	AC	Jan-57	52	Y		Low	0	2	0	5	0	5	1.75	1013	\$117,645	\$51,298,555
Midd	Fin	Wolcott Ave	tee at Sunset Hill	tee at Hoover	60	8	AC	<1956	>48	N		Low	0	5	0	5	0	0	2	750	\$9,900	\$51,308,455
Midd	Fin	Wolcott Ave	132.5' north	point before Car	132.5	8	AC	4/21/1952	57	Y		Low	0	2	0	5	0	5	1.75	1014	\$21,863	\$51,330,318
Midd	Fin	Wolcott Ave	point before Carr	Gunning Rd	298	8	AC	11/1/1951	58	Y		Low	0	2	0	5	0	5	1.75	1015	\$49,170	\$51,379,488
Midd	Fin	Wolcott Ave	Gunning Rd	gate at Reservo	435	8	cast iron	3/1/1951	58	Y		Low	0	2	0	5	0	5	1.75	1016	\$71,775	\$51,451,263
Midd	Fin	Wolcott Ave	tee at Hoover	tee at White Ter	374	8	AC	7/1/1940	69	N		Low	0	3	0	5	0	0	1.5	1191	\$61,710	\$51,512,973
Midd	Fin	Wolcott Ave	tee at Wolcott Ter	south to Donan	68	8	AC	4/1/1948	61	N		Low	0	3	0	5	0	0	1.5	1192	\$11,220	\$51,524,193
Midd	Fin	Wolcott Ave	gate at Reservoir	across to gate2	23	8	cast iron	9/1/1957	52	N		Low	0	2	0	5	0	0	1.25	1356	\$3,795	\$51,527,988
Midd	Fin	Wolcott Ave	gate 2	135.5' N of Seas	125.5	8	AC	5/1/1950	59	N		Low	0	2	0	5	0	0	1.25	1357	\$20,708	\$51,548,695
Midd	Fin	Wolcott Ave	135.5' N of Seas	54' N of Maloney	337.5	8	AC	5/1/1950	59	N		Low	0	2	0	5	0	0	1.25	1358	\$55,688	\$51,604,383
Midd	Fin	Wolcott Ave	54' N of Maloney	56' S of Maloney	110	8	AC	7/1/1955	54	N		Low	0	2	0	5	0	0	1.25	1359	\$18,150	\$51,622,533
Midd	Fin	Wolcott Ave	56' S of Maloney	tee at Newport A	69	8	AC	11/1/1961	48	N		Low	0	2	0	5	0	0	1.25	1360	\$11,385	\$51,633,918
Midd	Fin	Wolcott Ave	tee at Newport Av	43' S of Newport	43	8	AC	11/1/1961	48	N		Low	0	2	0	5	0	0	1.25	1361	\$7,095	\$51,641,013
Midd	Fin	Wolcott Ave	43' S of Newport	58' N of Perry R	285	8	AC	12/1/1961	48	N		Low	0	2	0	5	0	0	1.25	1362	\$47,025	\$51,688,038
Midd	Fin	Wolcott Ave	58' N of Perry Rd	tee at Beach Vie	300	8	AC	8/1/1952	57	N		Low	0	2	0	5	0	0	1.25	1363	\$49,500	\$51,737,538
Midd	Fin	Wolcott Ave	tee at Beach View	branch at Orcha	139	8	Cast iron	9/1/1950	59	N		Low	0	2	0	5	0	0	1.25	1364	\$22,935	\$51,760,473
Midd	Fin	Wolcott Ave	branch at Orchard	Perlin... Service	155	8	AC	10/1/1956	53	N		Low	0	2	0	5	0	0	1.25	1365	\$25,575	\$51,786,048
Midd	Fin	Wolcott Ave	Perlin... Service	Souza Service	143	8	AC	11/21/1956	53	N		Low	0	2	0	5	0	0	1.25	1366	\$23,595	\$51,809,643

City of Newport, Rhode Island - Water Main Database (MIDDLETOWN sorted by STREET)

	Raw/				Pipe	Exist	Exist	Pipe	Pipe	Age	Dead	Main	Locat.						Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Break			Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Midd	Fin	Wolcott Ave	tee at Briarwood	tee south of Briarwood	238	8	AC	3/1/1951	58	N			Low	0	2	0	5	0	0	1.25	1367	\$39,270	\$51,848,913
Midd	Fin	Wolcott Ave	tee at Easton Terr	tee at Sunset Hill	256	8	AC	4/1/1956	53	N			Low	0	2	0	5	0	0	1.25	1368	\$42,240	\$51,891,153
Midd	Fin	Wolcott Ave	tee at White Terr	south to Friedman	68.75	8	AC	4/1/1952	57	N			Low	0	2	0	5	0	0	1.25	1369	\$11,344	\$51,902,496
Midd	Fin	Wolcott Ave	Friedman and Alo	south to Fowler	91.5	8	AC	3/1/1956	53	N			Low	0	2	0	5	0	0	1.25	1370	\$15,098	\$51,917,594
Midd	Fin	Wolcott Ave	Donan Service	south to NE Cor	123.25	8	AC	5/1/1952	57	N			Low	0	2	0	5	0	0	1.25	1371	\$20,336	\$51,937,930
Midd	Fin	Wolcott Ave	NE Corp	main in Tucker	159	8	AC	5/1/1955	54	N			Low	0	2	0	5	0	0	1.25	1372	\$26,235	\$51,964,165
Midd	Fin	Wolcott Ave	Souza Service	bend	184	8	AC	Jan-78	31	N			Low	0	1	0	5	0	0	1	1451	\$30,360	\$51,994,525
Midd	Fin	Wolcott Ave	bend	bend (diag across)	28	8	AC	Jan-78	31	N			Low	0	1	0	5	0	0	1	1452	\$4,620	\$51,999,145
Midd	Fin	Wolcott Ave	bend	tee at Briarwood	101	8	AC	Jan-78	31	N			Low	0	1	0	5	0	0	1	1453	\$16,665	\$52,015,810
Midd	Fin	Wolcott Ave	tee south of Briarwood	tee at Purgatory Hill	680	8	AC	Jan-71	38	N			Low	0	1	0	5	0	0	1	1454	\$112,200	\$52,128,010
Midd	Fin	Wolcott Ave	tee at Purgatory Hill	tee at Easton Terr						N			Low	0	0	0	5	0	0	0.75	1530	\$0	\$52,128,010
Midd	Fin	Wolcott Ave	Fowler	south to tee at V	484	8	AC			N			Low	0	0	0	5	0	0	0.75	1531	\$79,860	\$52,207,870
Midd	Fin	Wolcott Terrace	tee at Wolcott Ave	tee	72	6	Cast Iron			N			Low	2.5	0	0	5	0	0	1.375	1220	\$11,880	\$52,219,750
Midd	Fin	Wolcott Terrace	tee	tee at White Terr	767	6	AC			N			Low	2.5	0	0	5	0	0	1.375	1221	\$126,555	\$52,346,305
Midd	Fin	Wood Rd	point b	tee at Oakwood	89	8	AC	6/1/1962	47	Y	1		Med	0	2	2.5	5	2.5	5	2.375	542	\$14,685	\$52,360,990
Midd	Fin	Wood Rd	north of Maplewood	north (point a)	221	8	AC	1/1/1961	48	Y			Med	0	2	0	5	2.5	5	2	751	\$36,465	\$52,397,455
Midd	Fin	Wood Rd	point a	north (point b)	443	8	AC	7/1/1961	48	Y			Med	0	2	0	5	2.5	5	2	752	\$73,095	\$52,470,550
Midd	Fin	Wood Rd	6" main on East Main	north of Maplewood	620	8	AC	8/1/1960	49	N			Med	0	2	0	5	2.5	0	1.5	1193	\$102,300	\$52,572,850
Midd	Fin	Wood Terr	tee at Oakwood Rd	north	283	8	AC	6/1/1962	47	Y			Med	0	2	0	5	2.5	5	2	753	\$46,695	\$52,619,545
Midd	Fin	Wood Terr	north	north	221	8	AC	9/1/1962	47	Y			Med	0	2	0	5	2.5	5	2	754	\$36,465	\$52,656,010
Midd	Fin	Woolsey Rd	E of W Main Rd	Ludlow Rd	1268	8	AC	7/1/1955	54	Y	1		Med	0	2	2.5	5	2.5	5	2.375	543	\$209,220	\$52,865,230
Midd	Fin	Woolsey Rd	West Main Rd	E of W Main Rd	44.5	8	cast iron	6/1/1955	54	Y			Med	0	2	0	5	2.5	5	2	755	\$7,343	\$52,872,573
Midd	Fin	Woolsey Rd	Bristol Rd	Buck Rd	262	8	AC			Y			Med	0	0	0	5	2.5	5	1.5	1194	\$43,230	\$52,915,803
Midd	Fin	Woolsey Rd	Ludlow Rd	Bristol Rd	276	8	AC			Y			Med	0	0	0	5	2.5	5	1.5	1195	\$45,540	\$52,961,343
Midd	Fin	Wyatt Rd	East Main Rd	N of E Main Rd	66	12	AC	11/1/1967	42	N			Low	0	2	0	5	0	0	1.25	1373	\$11,550	\$52,972,893
Midd	Fin	Wyatt Rd	N of E Main Rd	Berkley Ave	2462	12	AC	9/1/1970	39	N			Low	0	1	0	5	0	0	1	1455	\$430,850	\$53,403,743
Midd	Fin	Wyatt Rd	Turner Rd - GV	Turner Rd - GV	30	12	Ductile Iron	1/1/2004	5	N			Low	0	0	0	0	0	0	0	1698	\$5,250	\$53,408,993
Midd	Fin	Wyndham Rd	Berkley Ave	end	2211	8	Ductile Iron	9/1/1987	22	Y			Low	0	1	0	0	0	5	0.75	1532	\$364,815	\$53,773,808
Midd	Fin	Yarnell Ave	south	Maple Ave	140	2	WI - CL	6/1/1944	65	N			Med	5	3	0	5	2.5	0	3	212	\$23,100	\$53,796,908
Midd	Fin	Yarnell Ave	Hart Ave	south	870	6	AC	6/1/1944	65	N			Med	2.5	3	0	5	2.5	0	2.375	544	\$143,550	\$53,940,458

City of Newport, Rhode Island - Water Main Database (PORTSMOUTH sorted by STREET)

	Raw/					Exist	Exist			Dead								Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	End	Rating	Ranking	Estimate	Cost Est
Ports	Fin	Galley Ln	Redwood Rd	North		6	AC			Y		Low	2.5	0	0	5	0	5	1.875	757	\$0	\$0
Ports	Fin	Goulart Ln	East Main Rd	Goulart Ln Stdp	650	12	Cast Iron	Nov-67	42	N		Low	0	2	0	5	0	0	1.25	1226	\$113,750	\$113,750
Ports	Fin	Goulart Ln	East Main Rd	Goulart Ln Stdp	139	12	Cast Iron			N		Low	0	0	0	5	0	0	0.75	1463	\$24,325	\$138,075
Ports	Fin	Harbor View Rd	Redwood Rd	north	500	4	AC	Jan-57	52	Y	1	Low	5	2	2.5	5	0	5	3.375	105	\$82,500	\$220,575
Ports	Fin	Harbor View Rd	point	north	30	4	AC	6/1/1961	48	Y		Low	5	2	0	5	0	5	3	168	\$4,950	\$225,525
Ports	Fin	Lawton's Valley Apts.	West Main Rd		824	8	AC	11/1/1963	46	Y		Low	0	2	0	5	0	5	1.75	851	\$135,960	\$361,485
Ports	Fin	Lawton's Valley Apts.	extended		170	8	AC	12/1/1969	40	Y		Low	0	2	0	5	0	5	1.75	852	\$28,050	\$389,535
Ports	Fin	Mail Coach Road	extended S & E	Redwood Rd	1596	6	AC	Jan-55	54	N		Low	2.5	2	0	5	0	0	1.875	758	\$263,340	\$652,875
Ports	Fin	Mail Coach Road	West Main Rd		19.5	8	AC	3/1/1955	54	N		Low	0	2	0	5	0	0	1.25	1227	\$3,218	\$656,093
Ports	Fin	Mail Coach Road	extended		1109	8	AC	Jan-55	54	N		Low	0	2	0	5	0	0	1.25	1228	\$182,985	\$839,078
Ports	Fin	Pioneer Lane	Redwood Rd	south	280	2	Wrought Iron	Jan-57	52	Y		Low	5	2	0	5	0	5	3	169	\$46,200	\$885,278
Ports	Raw	Raw Water	Lawton Valley PS	Lawton Valley V	950	16	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1229	\$190,000	\$1,075,278
Ports	Raw	Raw Water	Lawton Valley PS	Lawton Valley V	220	20	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1230	\$44,000	\$1,119,278
Ports	Raw	Raw Water	Sakonnet River	St. Mary's	8237	20	Cast Iron		52	N		Low	0	2	0	5	0	0	1.25	1231	\$1,647,400	\$2,766,678
Ports	Fin	Redwood Rd	extended	westerly	150	6	AC	7/1/1963	46	Y		Low	2.5	2	0	5	0	5	2.375	427	\$24,750	\$2,791,428
Ports	Fin	Redwood Rd	extended	westerly	160	6	AC	4/1/1965	44	Y		Low	2.5	2	0	5	0	5	2.375	428	\$26,400	\$2,817,828
Ports	Fin	Redwood Rd	extended	westerly	90	6	AC	10/1/1965	44	Y		Low	2.5	2	0	5	0	5	2.375	429	\$14,850	\$2,832,678
Ports	Fin	Redwood Rd	extended	westerly	584	6	AC	6/1/1966	43	Y		Low	2.5	2	0	5	0	5	2.375	430	\$96,360	\$2,929,038
Ports	Fin	Redwood Rd	branch at Stage C	Harbor View Rd	973.5	6	AC	Jan-55	54	N		Low	2.5	2	0	5	0	0	1.875	759	\$160,628	\$3,089,665
Ports	Fin	Redwood Rd	West Main Rd	branch at Stage	249.5	8	AC	3/1/1955	54	N		Low	0	2	0	5	0	0	1.25	1232	\$41,168	\$3,130,833
Ports	Fin	Slate Lane	main in Mailcoach	6" gate at Mailco	37	6	AC	Jan-57	52	Y		Low	2.5	2	0	5	0	5	2.375	431	\$6,105	\$3,136,938
Ports	Fin	Slate Lane	6" gate at Mailcoa	point	20	6	AC	10/1/1967	42	Y		Low	2.5	2	0	5	0	5	2.375	432	\$3,300	\$3,140,238
Ports	Fin	Slate Lane	point		290	8	AC	10/1/1967	42	Y		Low	0	2	0	5	0	5	1.75	853	\$47,850	\$3,188,088
Ports	Fin	Stage Coach Rd	Redwood Rd	Mailcoach Rd	1240	6	AC	Jan-56	53	N		Low	2.5	2	0	5	0	0	1.875	760	\$204,600	\$3,392,688
Ports	Fin	Union St	West Main Rd		48	12	Cast Iron	5/1/1957	52	Y		Low	0	2	0	5	0	5	1.75	854	\$8,400	\$3,401,088

City of Newport, Rhode Island - Water Main Database (TIVERTON / LITTLE COMPTON sorted by STREET)																					
	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead							Dead	Total	Pipe	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	End	Main	Locat.					End	Rating	Ranking	Estimate	Cost Est
Tiv/Ports	Raw	Raw Water	submarine		5285	20	Cast iron		52	N		Low	0	2	0	5	0	1.25	1224	\$1,057,000	\$1,057,000
Tiv/Ports	Raw	Raw Water	Sak PS	St. Mary's	23150	24	Ductile Iron		6	N		Low	0	0	0	0	0	0	1657	\$5,208,750	\$6,265,750
Tiv/LC	Raw	Raw Water	Watson Res	Sak PS	5662	24	RCP		29	N		Low	0	1	0	5	0	1	1381	\$1,273,950	\$7,539,700
Tiv	Raw	Raw Water	Nonquit PS	Sakonnet River	5233	20	Cast Iron		52	N		Low	0	2	0	5	0	1.25	1225	\$1,046,600	\$8,586,300

APPENDIX D

**WATER MAIN DATABASE
SORTED BY FISCAL YEAR
[FOR PLANNING PURPOSES ONLY]**

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]																					
Town	Raw/ Fin	Street Name	From	To	Pipe Lth (ft)	Exist Pipe Dia (in)	Exist Pipe Material	Pipe Age	Age (years)	Dead End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	Dead End	Total Rating	Cost Estimate	Cum Cost Est
FY 2012																					
New	Fin	Allens Ct	Spring St	southerly	142.47	2	Cem Lined	6/20/1894	110	Y		High	5	5	0	5	5	5	4.25	\$23,508	\$23,508
New	Fin	Ashurst Pl	Calvert Sr		175	2	Cem Lined	1/1/1895	109	N		High	5	5	0	5	5	0	3.75	\$28,875	\$52,383
New	Fin	Ashurst Pl		Cranston Ave	20	6	Cast Iron	1/1/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$3,300	\$55,683
New	Fin	Ayrault St	Broadway	Kay St	990	6	Cast Iron		76	N	1	High	2.5	3	2.5	5	5	0	3	\$163,350	\$219,033
New	Fin	Barney Ct	Barney St	Easterly	154.4	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	\$25,476	\$244,509
New	Fin	Bartlett Ct	Broadway	Easterly	160	2	Iron Pipe	1/1/1913	97	Y		High	5	4	0	5	5	5	4	\$26,400	\$270,909
New	Fin	Bartlett Ct	Broadway	Easterly	19	4	Cast Iron			Y		High	5	0	0	5	5	5	3	\$3,135	\$274,044
New	Fin	Battery St	Washington St	Second St	363	6	Cast Iron	4/1/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$59,895	\$333,939
New	Fin	Bayside Ave	Van Zandt Ave		154.43	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	\$25,481	\$359,420
New	Fin	Bowler Ln	Brinley St	Easterly	209.94	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	\$34,640	\$394,060
New	Fin	Broadway/Washington	Thames St	Equality Park Pl	2288.8	12	Cast Iron	9/1/1928	82	N		High	0	4	0	5	5	0	2.25	\$400,540	\$794,600
New	Fin	Caleb Earl St		Wheatland Blvd	5	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$825	\$795,425
New	Fin	Calvert St	Broadway	Cranston Ave	923	6	Cast Iron	5/25/1914	96	N	1	High	2.5	4	2.5	5	5	0	3.25	\$152,295	\$947,720
New	Fin	Calvert St	Cranston Ave		20.5	6	Cast Iron	1/1/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$3,383	\$951,102
New	Fin	Charles St	Coddington St	Marlborough St	210	6	Cast Iron	1/1/1922	88	N		High	2.5	4	0	5	5	0	2.875	\$34,650	\$985,752
New	Fin	Cherry St	Second St	Third St	207	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$34,155	\$1,019,907
New	Fin	Clinton Ave	Broadway	Warner St	772.38	4	Cast Iron	1/1/1911	99	N		High	5	4	0	5	5	0	3.5	\$127,443	\$1,147,350
New	Fin	Colonial St	Broadway		207	4	Cast Iron	7/20/1904	106	Y	1	High	5	5	2.5	5	5	5	4.625	\$34,155	\$1,181,505
New	Fin	Colonial St	Broadway		39.66	4	Cast Iron	7/20/1904	106	Y		High	5	5	0	5	5	5	4.25	\$6,544	\$1,188,049
New	Fin	Cottage St	Catherine St	Redwood St	234.33	6	Cast Iron	1/1/1926	84	N		High	2.5	4	0	5	5	0	2.875	\$38,664	\$1,226,713
New	Fin	Cozzens Ct			20.12	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	\$3,320	\$1,230,033
New	Fin	Cozzens Ct	Thames St		180.12	2	Iron Pipe	4/15/1900	110	Y	2	High	5	5	5	5	5	5	5	\$29,720	\$1,259,753
New	Fin	Cranston Ave	Broadway		21.6	12	Cast Iron	1/1/1923	87	N		High	0	4	0	5	5	0	2.25	\$3,780	\$1,263,533
New	Fin	Davis Ct	Callender St	Burnside Ave	180.25	2	Iron Pipe			N		High	5	0	0	5	5	0	2.5	\$29,741	\$1,293,274
New	Fin	Edward St	White St	Wheatland Blvd	788	6	Cast Iron	6/1/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$130,020	\$1,423,294
New	Fin	Equality Park Pl	Pond Ave	Broadway	187.19	4	Cast Iron			N	2	High	5	0	5	5	5	0	3.25	\$30,886	\$1,454,180
New	Fin	Everett St	S of Kay St	Francis St	513	2	Iron Pipe	1/1/1892	112	N	2	High	5	5	5	5	5	0	4.5	\$84,645	\$1,538,825
New	Fin	Everett St	Broadway	N of Kay St	976	6	Cast Iron	6/13/1910	100	N		High	2.5	5	0	5	5	0	3.125	\$161,040	\$1,699,865
New	Fin	Feke St	Tilden Ave	Edward St	192	2	Cem Lined	2/19/1917	93	N		High	5	4	0	5	5	0	3.5	\$31,680	\$1,731,545
New	Fin	Feke St	Tilden Ave		9.5	6	Cast Iron	1/1/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$1,568	\$1,733,113
New	Fin	Gladning Ct	Sunshine Ct	End	158	2	Cem Lined	9/10/1926	84	Y	1	High	5	4	2.5	5	5	5	4.375	\$26,070	\$1,759,183
New	Fin	Griswold Pl	Rhode Island Ave	End	162	2	Cem Lined	12/16/1880	124	Y		High	5	5	0	5	5	5	4.25	\$26,730	\$1,785,913
New	Fin	Guernsey Ct	Cherry St	End	115	1.5	Cem Lined	8/27/1894	110	Y		High	5	5	0	5	5	5	4.25	\$18,975	\$1,804,888
New	Fin	Guinn Ct	Fillmore St	End	147.3	1.5	Cem Lined	7/8/1927	83	Y		High	5	4	0	5	5	5	4	\$24,305	\$1,829,192
New	Fin	Hoffman Pl	Cranston Ave	End	200.45	1.5	Cement	01/01/1889	115	Y		High	5	5	0	5	5	5	4.25	\$33,074	\$1,862,267
New	Fin	Hope St	Rhode Island Ave	Powell Ave	328	2	Cem Lined	1/1/1893	111	N	1	High	5	5	2.5	5	5	0	4.125	\$54,120	\$1,916,387
New	Fin	Hozier St	Broadway	Spring St	200	1.5	Cem Lined	5/19/1903	107	N		High	5	5	0	5	5	0	3.75	\$33,000	\$1,949,387
New	Fin	Hozier St	Broadway		41.75	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$6,889	\$1,956,275
New	Fin	Hozier St	Spring St		35	6	AC	1/1/1967	43	N		High	2.5	2	0	5	5	0	2.375	\$5,775	\$1,962,050
New	Fin	Hunter Ave	Ellery Rd	S of Kay St	313	2	Cem Lined	1/1/1923	87	Y		High	5	4	0	5	5	5	4	\$51,645	\$2,013,695
New	Fin	Johnson Ct	Kingston Ave	W of Kingston A	166.25	1.5	Cem Lined	1/1/1897	107	Y	1	High	5	5	2.5	5	5	5	4.625	\$27,431	\$2,041,127
New	Fin	Johnson Ct	Kingston Ave	E of Kingston A	200	2	Cem Lined	1/1/1902	108	Y		High	5	5	0	5	5	5	4.25	\$33,000	\$2,074,127
New	Fin	Katzman Pl			20	2	Iron Pipe	1/31/1955	55	Y		High	5	2	0	5	5	5	3.5	\$3,300	\$2,077,427
New	Fin	Katzman Pl			109	2	Iron Pipe	1/1/1972	38	Y		High	5	1	0	5	5	5	3.25	\$17,985	\$2,095,412
New	Fin	Katzman Pl		End	26	2	Iron Pipe	1/1/1977	33	Y		High	5	1	0	5	5	5	3.25	\$4,290	\$2,099,702
New	Fin	Kay St	Cranston Ave	Prairie Ave	519	16	Cast Iron	6/1/1920	90	N		High	0	4	0	5	5	0	2.25	\$103,800	\$2,203,502
New	Fin	Kay Ter	Kay St	End	278	4	Cast Iron	10/30/1913	97	Y		High	5	4	0	5	5	5	4	\$45,870	\$2,249,372
New	Fin	Kay Ter			13	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	\$2,145	\$2,251,517
New	Fin	Kilburne Ct	Broadway		23	6	Cast Iron	7/3/1915	95	Y		High	2.5	4	0	5	5	5	3.375	\$3,795	\$2,255,312
New	Fin	Kilburne Ct	Broadway	End	264	6	Cast Iron	12/6/1918	92	Y		High	2.5	4	0	5	5	5	3.375	\$43,560	\$2,298,872
New	Fin	LaSalle Pl	Third St		340.97	2	Cem Lined			Y		High	5	0	0	5	5	5	3	\$56,260	\$2,355,132
New	Fin	Lees Wharf			323.47	2	Cem Lined			Y		High	5	0	0	5	5	5	3	\$53,373	\$2,408,504
New	Fin	Mann Ave	Broadway		28.8	8	Cast Iron	8/1/1928	82	N		High	0	4	0	5	5	0	2.25	\$4,752	\$2,413,256
New	Fin	Mt Vernon St			716.07	4	Cast Iron	9/13/1901	109	N	1	High	5	5	2.5	5	5	0	4.125	\$118,152	\$2,531,408
New	Fin	Mt Vernon St	Tuoro		263.26	4	Cast Iron	9/13/1901	109	N		High	5	5	0	5	5	0	3.75	\$43,438	\$2,574,846
New	Fin	Pell St	Greenough Pl	Northerly	157.83	6	Cast Iron	11/7/1919	91	N		High	2.5	4	0	5	5	0	2.875	\$26,042	\$2,600,888
New	Fin	Pell St	Northerly	Kay St	294.42	6	Cast Iron	5/5/1920	90	N		High	2.5	4	0	5	5	0	2.875	\$48,579	\$2,649,467
New	Fin	Pine St	Second St	Third St	233.08	4	Cast Iron	7/10/1908	102	N		High	5	5	0	5	5	0	3.75	\$38,458	\$2,687,925
New	Fin	Pond Ave	Wheatland Blvd		30	4	Cast Iron			N	1	High	5	0	2.5	5	5	0	2.875	\$4,950	\$2,692,875
New	Fin	Prairie Ave	Kay St		72.75	16	Cast Iron	6/1/1920	90	N		High	0	4	0	5	5	0	2.25	\$14,550	\$2,707,425

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Estimate	Cost Est
New	Fin	River Ln			143.12	2	Iron Pipe	06/25/1890	114	Y		High	5	5	0	5	5	5	4.25	\$23,615	\$2,731,040
New	Fin	Sherman St			100	4	Cast Iron			Y	1	High	5	0	2.5	5	5	5	3.375	\$16,500	\$2,747,540
New	Fin	Sunshine Ct	Third St	End	310	2	Cem Lined	9/10/1926	84	Y		High	5	4	0	5	5	5	4	\$51,150	\$2,798,690
New	Fin	Sunshine Ct	Third St		14	1.5	Copper			Y		High	5	0	0	3	5	5	2.7	\$2,310	\$2,801,000
New	Fin	Tilden Ave	Warner St	Wheatland Blvd	650.47	6	Cast Iron	6/1/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$107,328	\$2,908,327
New	Fin	Tompkins Ct	Fillmore St	End	85	2	Cem Lined			Y		High	5	0	0	5	5	5	3	\$14,025	\$2,922,352
New	Fin	Touro St	Spring St		23	6	Cast Iron	10/1/1946	64	N		High	2.5	3	0	5	5	0	2.625	\$3,795	\$2,926,147
New	Fin	Touro St	Spring St		22	6	AC			N	1	High	2.5	0	2.5	5	5	0	2.25	\$3,630	\$2,929,777
New	Fin	Tyler St	Rhode Island Ave	Cranston Ave	380	4	AC	9/1/1902	108	N		High	5	5	0	5	5	0	3.75	\$62,700	\$2,992,477
New	Fin	Tyler St	Cranston Ave		14	6	Cast Iron	1/1/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$2,310	\$2,994,787
New	Fin	Tyler St			6	6	AC	11/1/1961	49	N		High	2.5	2	0	5	5	0	2.375	\$990	\$2,995,777
New	Fin	Van Zandt Ave	Second St	Bayside Ave	215	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$35,475	\$3,031,252
New	Fin	Walnut St	W of Third St	Washington St	512.61	2	Iron Pipe			N	2	High	5	0	5	5	5	0	3.25	\$84,581	\$3,115,833
New	Fin	Walnut St	Washington St		18	6	Cast Iron	10/20/1917	93	N		High	2.5	4	0	5	5	0	2.875	\$2,970	\$3,118,803
New	Fin	Warner St	Kingston Ave	Farewell St	1095	6	Cast Iron			N	1	High	2.5	0	2.5	5	5	0	2.25	\$180,675	\$3,299,478
New	Fin	Washington Square	Thames St		17	10	Cast Iron	9/1/1928	82	N		High	0	4	0	5	5	0	2.25	\$2,975	\$3,302,453
New	Fin	Washington Square	Thames St		17	10	Cast Iron	9/1/1928	82	N		High	0	4	0	5	5	0	2.25	\$2,975	\$3,305,428
New	Fin	Wesley St	Rhode Island Ave	Cranston Ave	506	2	Cem Lined	1/1/1900	110	N	1	High	5	5	2.5	5	5	0	4.125	\$83,490	\$3,388,918
New	Fin	Wesley St			97	6	Cast Iron	1/1/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$16,005	\$3,404,923
New	Fin	West Extension St	Thames St	Westerly	265	1.5	Iron Pipe			Y		High	5	0	0	5	5	5	3	\$43,725	\$3,448,648
New	Fin	Wheatland Blvd	Marlborough St	Gould St	1713.5	8	Cast Iron	12/1/1915	95	N		High	0	4	0	5	5	0	2.25	\$282,728	\$3,731,376
New	Fin	Willow St	Third St	Washington St	540	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$89,100	\$3,820,476
																				FY 2012 RECOMMENDED IMPROVEMENTS:	\$3,820,476

FY 2014																					
New	Fin	Armstrong Pl			156.25	1.5	Cem Lined	4/1/1931	79	Y		High	5	3	0	5	5	5	3.75	\$25,781	\$25,781
New	Fin	Arnold Ave			115	1.5	Cem Lined	6/25/1954	56	Y		High	5	2	0	5	5	5	3.5	\$18,975	\$44,756
New	Fin	Arnold Ave			26.2	6	Cast Iron	7/1/1923	87	Y		High	2.5	4	0	5	5	5	3.375	\$4,323	\$49,079
New	Fin	Arnold Ave			396	6	Cast Iron	10/26/1928	82	Y		High	2.5	4	0	5	5	5	3.375	\$65,340	\$114,419
New	Fin	Bayside Village			30	6	AC	8/1/1972	38	Y		High	2.5	1	0	5	5	5	2.625	\$4,950	\$119,369
New	Fin	Bayview Ave			40	6	Cast Iron	6/1/1923	87	N		High	2.5	4	0	5	5	0	2.875	\$6,600	\$125,969
New	Fin	Bayview Ave	Broadway		550	4	Cast Iron		30	N		High	5	1	0	5	5	0	2.75	\$90,750	\$216,719
New	Fin	Bayview Ave		Warner St	43	6	Cast Iron	1/1/1966	44	N		High	2.5	2	0	5	5	0	2.375	\$7,095	\$223,814
New	Fin	Bradford Ave			11.74	6	Cast Iron	04/29/1893	111	N		High	2.5	5	0	5	5	0	3.125	\$1,937	\$225,751
New	Fin	Bradford Ave	Friendship St		12.06	6	AC	1/1/1953	57	N		High	2.5	2	0	5	5	0	2.375	\$1,990	\$227,741
New	Fin	Bradford Ave		Bliss	493.31	6	AC	10/1/1953	57	N		High	2.5	2	0	5	5	0	2.375	\$81,396	\$309,137
New	Fin	Brandt St			170.23	6	Cast Iron	1/1/1900	110	N		High	2.5	5	0	5	5	0	3.125	\$28,088	\$337,225
New	Fin	Brandt St	Van Zandt Ave		23.62	6	Cast Iron	6/1/1930	80	N		High	2.5	4	0	5	5	0	2.875	\$3,897	\$341,123
New	Fin	Brandt St			134	6	AC	5/1/1948	62	N		High	2.5	3	0	5	5	0	2.625	\$22,110	\$363,233
New	Fin	Brandt St		Evarts	16	6	Cast Iron	5/1/1948	62	N		High	2.5	3	0	5	5	0	2.625	\$2,640	\$365,873
New	Fin	Burdick Ave	Malbone Rd	Thurston Ave	780	6	Cast Iron	9/19/1917	93	N		High	2.5	4	0	5	5	0	2.875	\$128,700	\$494,573
New	Fin	Butler St	Evart St	Southmayd St	349	6	Cast Iron	4/12/1905	105	N		Med	2.5	5	0	5	2.5	0	2.875	\$57,585	\$552,158
New	Fin	Butler St	Van Zandt Ave	Evart St	346	6	Cast Iron	12/1/1939	71	N		Med	2.5	3	0	5	2.5	0	2.375	\$57,090	\$609,248
New	Fin	Channing Pl	Channing St	Warner St	344.7	4	Cast Iron	10/1/1914	96	N		High	5	4	0	5	5	0	3.5	\$56,876	\$666,123
New	Fin	County St	Almy St	Broadway	617	16	Cast Iron	9/1/1939	71	N	1	High	0	3	2.5	5	5	0	2.375	\$123,400	\$789,523
New	Fin	Eadie St	Gibbs Ave	Whitwell Ave	357	6	Cast Iron	5/12/1937	73	N		High	2.5	3	0	5	5	0	2.625	\$58,905	\$848,428
New	Fin	Ellwood Pl	Friendship St	End	158.33	2	Iron Pipe	4/1/1967	43	Y		Med	5	2	0	5	2.5	5	3.25	\$26,124	\$874,553
New	Fin	Evart St	Butler St	Easterly	50	6	Cast Iron	3/1/1941	69	N		Med	2.5	3	0	5	2.5	0	2.375	\$8,250	\$882,803
New	Fin	Evart St	E of Butler St	Homer St	711	6	Cast Iron	6/1/1941	69	N		Med	2.5	3	0	5	2.5	0	2.375	\$117,315	\$1,000,118
New	Fin	Evart St	Butler St	Brandt St	238	6	Cast Iron	4/1/1948	62	N		Med	2.5	3	0	5	2.5	0	2.375	\$39,270	\$1,039,388
New	Fin	Evart St	Hall Ave	Homer St	208	6	Cast Iron	4/1/1948	62	N		Med	2.5	3	0	5	2.5	0	2.375	\$34,320	\$1,073,708
New	Fin	Exeter St	Training Station Rd		22.5	6	Cast Iron	5/16/1932	78	Y		Med	2.5	3	0	5	2.5	5	2.875	\$3,713	\$1,077,420
New	Fin	Findlay Pl	Bliss Rd	End	366.9	6	Cast Iron	4/15/1916	94	Y		High	2.5	4	0	5	5	5	3.375	\$60,539	\$1,137,959
New	Fin	Freeborn St		S of Vernon Ave	60	1.5	Cem Lined	8/1/1946	64	Y	1	High	5	3	2.5	5	5	5	4.125	\$9,900	\$1,147,859
New	Fin	Freeborn St	Bliss Rd	Northerly	520.8	6	Cast Iron	11/1/1922	88	Y		High	2.5	4	0	5	5	5	3.375	\$85,932	\$1,233,791
New	Fin	Freeborn St	Vernon Ave		27	6	Cast Iron	8/1/1946	64	Y		High	2.5	3	0	5	5	5	3.125	\$4,455	\$1,238,246
New	Fin	Freeborn St			72	6	AC	5/1/1957	53	Y		High	2.5	2	0	5	5	5	2.875	\$11,880	\$1,250,126
New	Fin	Friendship St	Broadway		21	6	Cast Iron	1/1/1923	87	N		High	2.5	4	0	5	5	0	2.875	\$3,465	\$1,253,591
New	Fin	Gardiner St	Gibbs Ave	Friendship St	300	2	Iron Pipe	5/10/1899	105	N		High	5	5	0	5	5	0	3.75	\$49,500	\$1,303,091
New	Fin	Garfield St	Homer St	Prescott Hall Rd	665	6	Cast Iron	1/1/1933	77	N		Med	2.5	3	0	5	2.5	0	2.375	\$109,725	\$1,412,816
New	Fin	Greene Ln	Broadway	Porter Ave	94.25	6	Cast Iron	5/2/1919	91	Y		High	2.5	4	0	5	5	5	3.375	\$15,551	\$1,428,367
New	Fin	Greene Ln	Broadway	Porter Ave	96	6	Cast Iron	10/17/1921	89	Y		High	2.5	4	0	5	5	5	3.375	\$15,840	\$1,444,207
New	Fin	Greene Ln	Broadway	Porter Ave	84.5	6	Cast Iron	3/22/1927	83	Y		High	2.5	4	0	5	5	5	3.375	\$13,943	\$1,458,149

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]																						
						Exist	Exist			Dead								Dead	Total	Cost	Cum	
Town	Raw/ Fin	Street Name	From	To	Pipe Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	Age (years)	End (Y/N)	Main Break	Locat.		Size	Age	Break	Mater.	Locat.	End	Rating	Estimate	Cost Est
New	Fin	Greene Ln	Broadway	Porter Ave	60.5	6	Cast iron	10/30/1928	82	Y			High	2.5	4	0	5	5	5	3.375	\$9,983	\$1,468,132
New	Fin	Greene Ln	Broadway	Porter Ave	126.5	6	Cast iron	9/24/1929	81	Y			High	2.5	4	0	5	5	5	3.375	\$20,873	\$1,489,004
New	Fin	Greene Ln	Broadway	Porter Ave	174.5	6	Cast iron	2/1/1930	80	Y			High	2.5	4	0	5	5	5	3.375	\$28,793	\$1,517,797
New	Fin	Greene Ln	Broadway	Porter Ave	41.5	6	Cast iron	10/1/1940	70	Y			High	2.5	3	0	5	5	5	3.125	\$6,848	\$1,524,644
New	Fin	Halsey St			35	6	Cast iron	1/1/1933	77	Y			Med	2.5	3	0	5	2.5	5	2.875	\$5,775	\$1,530,419
New	Fin	Halsey St			626	6	AC	12/1/1938	72	Y			Med	2.5	3	0	5	2.5	5	2.875	\$103,290	\$1,633,709
New	Fin	Haskell Ave	Bliss Rd	Brooks Ave	340.5	2	Cem Lined	7/15/1931	79	N			High	5	3	0	5	5	0	3.25	\$56,183	\$1,689,892
New	Fin	Homer St	Garfield St	N to end	163	6	AC	1/1/1957	53	Y			Med	2.5	2	0	5	2.5	5	2.625	\$26,895	\$1,716,787
New	Fin	Hope St	Powell Ave	Friendship St	225	1.5	Cem Lined	1/1/1896	108	N			High	5	5	0	5	5	0	3.75	\$37,125	\$1,753,912
New	Fin	Kyle Ter	Bliss Rd	End	520	8	AC	11/1/1968	42	Y			High	0	2	0	5	5	5	2.25	\$85,800	\$1,839,712
New	Fin	Leal Terr	Maple Ave		303	6	Cast iron	8/1/1949	61	N			Med	2.5	3	0	5	2.5	0	2.375	\$49,995	\$1,889,707
New	Fin	Longwood Pl	Evert St	End	143.25	2	PVC			Y			High	5	0	0	2	5	5	2.55	\$23,636	\$1,913,343
New	Fin	Loyola Ter	Eustis Ave	E of Eustis Ave	215	8	AC	1/1/1945	65	Y			High	0	3	0	5	5	5	2.5	\$35,475	\$1,948,818
New	Fin	Loyola Ter			80	8	AC	12/1/1949	61	Y			High	0	3	0	5	5	5	2.5	\$13,200	\$1,962,018
New	Fin	Loyola Ter			222	8	AC	9/1/1950	60	Y			High	0	3	0	5	5	5	2.5	\$36,630	\$1,998,648
New	Fin	Manning Ter	Holten Ave	W of Holten Ave	250	2	Cem Lined	11/1/1954	56	Y			High	5	2	0	5	5	5	3.5	\$41,250	\$2,039,898
New	Fin	Manning Ter		W of Holten Ave	48	2	Iron Pipe	10/10/1957	53	Y			High	5	2	0	5	5	5	3.5	\$7,920	\$2,047,818
New	Fin	Manning Ter	Holten Ave	S of Holten Ave	172	2	Cem Lined	12/1/1952	58	Y			High	5	2	0	5	5	5	3.5	\$28,380	\$2,076,198
New	Fin	Mumford Ave		Porter Ave	192	6	Cast iron	11/1/1936	74	Y			High	2.5	3	0	5	5	5	3.125	\$31,680	\$2,107,878
New	Fin	Mumford Ave	Broadway		36	6	Cast iron	1/1/1923	87	N			High	2.5	4	0	5	5	0	2.875	\$5,940	\$2,113,818
New	Fin	Mumford Ave			132	6	Cast iron	9/30/1927	83	N			High	2.5	4	0	5	5	0	2.875	\$21,780	\$2,135,598
New	Fin	Mumford Ave			192	6	Cast iron	8/5/1931	79	N			High	2.5	3	0	5	5	0	2.625	\$31,680	\$2,167,278
New	Fin	Mumford Ave			93	6	Cast iron	7/26/1932	78	N			High	2.5	3	0	5	5	0	2.625	\$15,345	\$2,182,623
New	Fin	Peckham Ave	Broadway		14	6	Cast iron	1/1/1923	87	N			High	2.5	4	0	5	5	0	2.875	\$2,310	\$2,184,933
New	Fin	Peckham Ave	Broadway	Russell Ave	680	6	Cast Iron	1/1/1910	100	N			High	2.5	5	0	5	5	0	3.125	\$112,200	\$2,297,133
New	Fin	Porter Ave	Greene Ln	Southerly	95	2	Cem Lined	10/1/1952	58	Y			High	5	2	0	5	5	5	3.5	\$15,675	\$2,312,808
New	Fin	Prescott Pl	Hall Ave	End	127	1.5	Cem Lined	3/10/1903	107	Y	1		High	5	5	2.5	5	5	5	4.625	\$20,955	\$2,333,763
New	Fin	Record St	Warner St	Channing St	263	2	Iron Pipe	8/31/1905	105	N			High	5	5	0	5	5	0	3.75	\$43,395	\$2,377,158
New	Fin	Third St	Cypress St	Training Station	2240	12	Cast iron	11/1/1912	98	N			High	0	4	0	5	5	0	2.25	\$392,000	\$2,769,158
New	Fin	Third St Ext	Training Station R	Northerly	278	2	Cem Lined	11/3/1920	90	Y			High	5	4	0	5	5	5	4	\$45,870	\$2,815,028
New	Fin	Training Station Rd	Third St	Westerly	720	12	Cast iron	11/1/1914	96	Y			Med	0	4	0	5	2.5	5	2.5	\$126,000	\$2,941,028
New	Fin	Whitwell Pl	Kay St	Northerly	378.8	6	Cast iron	6/1/1929	81	Y			High	2.5	4	0	5	5	5	3.375	\$62,502	\$3,003,530
Midd	Fin	Beacon St	Beacon Terr North	N of Beacon St	17.25	6	Cast iron	Feb-54	56	Y			Med	2.5	2	0	5	2.5	5	2.625	\$2,846	\$3,006,376
Midd	Fin	Beacon St	Hillside Ave	N of Hillside Ave	35.5	8	Cast Iron	Jan-41	69	Y			Med	0	3	0	5	2.5	5	2.25	\$5,858	\$3,012,234
Midd	Fin	Beacon Terr	Rosedale Terr	S of Beacon St	565	6	AC	Jan-44	66	N			Med	2.5	3	0	5	2.5	0	2.375	\$93,225	\$3,105,459
Midd	Fin	Beacon Terr	S of Beacon St	Beacon St	8	6	Cast Iron	Feb-54	56	N			Med	2.5	2	0	5	2.5	0	2.125	\$1,320	\$3,106,779
Midd	Fin	Beacon Terr North	Beacon St	N of Beacon St	42	6	Cast iron	Feb-54	56	Y			Med	2.5	2	0	5	2.5	5	2.625	\$6,930	\$3,113,709
Midd	Fin	Beacon Terr North	N of Beacon St	N of Beacon St	336	6	AC	Feb-54	56	Y			Med	2.5	2	0	5	2.5	5	2.625	\$55,440	\$3,169,149
Midd	Fin	Beacon Terr North	N of Beacon St	N of Beacon St	107	6	AC	May-54	56	Y			Med	2.5	2	0	5	2.5	5	2.625	\$17,655	\$3,186,804
Midd	Fin	Rosedale Ave	E of Stockton	End	73	6	AC	May-79	31	Y			Med	2.5	1	0	5	2.5	5	2.375	\$12,045	\$3,198,849
FY 2014 RECOMMENDED IMPROVEMENTS:																				\$3,198,849		
FY 2016 - 2020																						
New	Fin	America's Cup Ave	Thames St	Westerly	15	6	Cast Iron	6/1/1969	41	Y			High	2.5	2	0	5	5	5	2.875	\$2,475	\$2,475
New	Fin	Annandale Rd	Narragansett Ave	Memorial Blvd	2967	20	Cast iron	8/1/1939	71	N	3		High	0	3	5	5	5	0	2.75	\$593,400	\$595,875
New	Fin	Annandale Ter	Annandale Rd		46	2	Iron Pipe			Y			High	5	0	0	5	5	5	3	\$7,590	\$603,465
New	Fin	Annandale Ter	Annandale Rd	Loop	444	1.5	Iron Pipe			N			High	5	0	0	5	5	0	2.5	\$73,260	\$676,725
New	Fin	Annandale Ter	Annandale Rd	Loop	220	1.5	Iron Pipe			N			High	5	0	0	5	5	0	2.5	\$36,300	\$713,025
New	Fin	Anthony St	Pope St	Bowery St	347	6	Cast Iron	1/1/1915	95	N			High	2.5	4	0	5	5	0	2.875	\$57,255	\$770,280
New	Fin	Apthorp Ave	Bedlow Ave	Canonicus Ave	513.73	6	Cast Iron	4/21/1916	94	N			Med	2.5	4	0	5	2.5	0	2.625	\$84,765	\$855,045
New	Fin	Barclay Square			22	4	Cast Iron			Y			High	5	0	0	5	5	5	3	\$3,630	\$858,675
New	Fin	Barclay Square	Cliff Ave Ext	End	392	4	AC			Y			High	5	0	0	5	5	5	3	\$64,680	\$923,355
New	Fin	Bedlow Pl	Bedlow Ave		356	2	Cem Lined	5/26/1927	83	Y			Med	5	4	0	5	2.5	5	3.75	\$58,740	\$982,095
New	Fin	Bellevue Ave	Kay St/Touro St	Narragansett Av	4560	12	Cast Iron	11/1/1924	86	N			High	0	4	0	5	5	0	2.25	\$798,000	\$1,780,095
New	Fin	Berkeley Ter	Berkeley Ave		155.5	2	Cem Lined	7/1/1925	85	Y			High	5	4	0	5	5	5	4	\$25,658	\$1,805,753
New	Fin	Blackwell Pl			352.3	2	Cem Lined	6/16/1927	83	Y			Med	5	4	0	5	2.5	5	3.75	\$58,130	\$1,863,882
New	Fin	Bowery St	Spring St	Bellevue Ave	1129	6	Cast iron	1/1/1915	95	N			High	2.5	4	0	5	5	0	2.875	\$186,285	\$2,050,167
New	Fin	Canonicus Ave	Broadway	Sagamore St	956.67	6	Cast iron	10/17/1909	101	N			Med	2.5	5	0	5	2.5	0	2.875	\$157,851	\$2,208,018
New	Fin	Casino Ter	Bellevue Ave	End	221	2	Cem Lined	10/1/1932	78	Y			High	5	3	0	5	5	5	3.75	\$36,465	\$2,244,483
New	Fin	Casino Ter	Bellevue Ave		20.4	6	Cast iron	10/1/1924	86	Y			High	2.5	4	0	5	5	5	3.375	\$3,366	\$2,247,849
New	Fin	Catherine St	Gibbs Ave	Easterly	438	2	Iron Pipe			Y			High	5	0	0	5	5	5	3	\$72,270	\$2,320,119
New	Fin	Catherine St	Bellevue Ave	Greenough Pl	1054	6	Cast Iron			N	1		High	2.5	0	2.5	5	5	0	2.25	\$173,910	\$2,494,029
New	Fin	Champlin Pl	Ellery Rd		57.5	6	Cast iron	8/15/1932	78	N			High	2.5	3	0	5	5	0	2.625	\$9,488	\$2,503,517

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Estimate	Cost Est
New	Fin	Champlin Pl	Champlin St	Ellery Rd	501.5	6	Cast Iron	6/1/1929	81	N		High	2.5	4	0	5	5	0	2.875	\$82,748	\$2,586,264
New	Fin	Cliff Ave	Dresser St	Cliff Ave Ext	92	6	Cast Iron	8/21/1931	79	Y		High	2.5	3	0	5	5	5	3.125	\$15,180	\$2,601,444
New	Fin	Cliff Ave	S of Merton Rd	Dresser St	250	6	Cast Iron	2/1/1930	80	N		High	2.5	4	0	5	5	0	2.875	\$41,250	\$2,642,694
New	Fin	Cliff Ter	Cliff Ave	End	473.25	4	Cast Iron	5/3/1915	95	Y		High	5	4	0	5	5	5	4	\$78,086	\$2,720,780
New	Fin	Cliff Ter	Cliff Ave		35	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	\$5,775	\$2,726,555
New	Fin	Commercial Whf	W of Thames St	W of Thames St	101	2	Iron Pipe	10/1/1940	70	Y		High	5	3	0	5	5	5	3.75	\$16,665	\$2,743,220
New	Fin	Commercial Whf	W of Thames St	End	69	6	Cast Iron	1/1/1880	124	Y		High	2.5	5	0	5	5	5	3.625	\$11,385	\$2,754,605
New	Fin	Commercial Whf	W of Thames St	W of Thames St	186	6	Cast Iron	1/1/1923	87	Y		High	2.5	4	0	5	5	5	3.375	\$30,690	\$2,785,295
New	Fin	Commercial Whf	Thames St	Westerly	400	8	AC	3/1/1950	60	Y		High	0	3	0	5	5	5	2.5	\$66,000	\$2,851,295
New	Fin	Come St	Mill St	Pelham St	234	6	Cast Iron	4/1/1927	83	N		High	2.5	4	0	5	5	0	2.875	\$38,610	\$2,889,905
New	Fin	Cottage St	Redwood St	Old Beach Rd	212.73	4	Cast Iron	1/1/1912	98	N		High	5	4	0	5	5	0	3.5	\$35,100	\$2,925,006
New	Fin	Cottons Ct	Thames St	Easterly	147.55	2	Cem Lined			N		High	5	0	0	5	5	0	2.5	\$24,346	\$2,949,351
New	Fin	Curry Ave	Bedlow Ave	Northerly	369.3	6	Cast iron	9/6/1916	94	N		Med	2.5	4	0	5	2.5	0	2.625	\$60,935	\$3,010,286
New	Fin	Curry Ave			72	6	Cast iron	6/15/1915	95	N		Med	2.5	4	0	5	2.5	0	2.625	\$11,880	\$3,022,166
New	Fin	Curry Ave		Canonicus Ave	57.6	6	Cast iron	8/1/1923	87	N		Med	2.5	4	0	5	2.5	0	2.625	\$9,504	\$3,031,670
New	Fin	DeBlois St	Bellevue Ave	End	129	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$21,285	\$3,052,955
New	Fin	Dennison St	Spring St	Thames St	470	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$77,550	\$3,130,505
New	Fin	Division St			342.68	4	Cast Iron	3/1/1932	78	N		High	5	3	0	5	5	0	3.25	\$56,542	\$3,187,047
New	Fin	Division St			587.34	4	Cast Iron	3/1/1932	78	N		High	5	3	0	5	5	0	3.25	\$96,911	\$3,283,958
New	Fin	Downing St	Bellevue Ave	Liberty St	328.23	2	Cem Lined	1/1/1896	108	N		High	5	5	0	5	5	0	3.75	\$54,158	\$3,338,116
New	Fin	Dudley Ave	Hillside Ave	Sagamore St	820	6	AC	7/1/1952	58	N		High	2.5	2	0	5	5	0	2.375	\$135,300	\$3,473,416
New	Fin	East Bowery St	Middleton Ave	Annandale Rd	430	6	Cast Iron			N	3	High	2.5	0	5	5	5	0	2.625	\$70,950	\$3,544,366
New	Fin	Edgar Ct	Memorial Blvd		12	6	Cast Iron	3/1/1933	77	Y		High	2.5	3	0	5	5	5	3.125	\$1,980	\$3,546,346
New	Fin	Edgar Ct	Memorial Blvd		79	6	Cast Iron	1/1/1945	65	Y		High	2.5	3	0	5	5	5	3.125	\$13,035	\$3,559,381
New	Fin	Edgar Ct	Memorial Blvd	End	456	8	AC	9/1/1961	49	Y		High	0	2	0	5	5	5	2.25	\$75,240	\$3,634,621
New	Fin	Elizabeth St	Catherine St	End	323.6	2	Iron Pipe	4/8/1902	108	Y	1	High	5	5	2.5	5	5	5	4.625	\$53,394	\$3,688,015
New	Fin	Eustis Ave	Memorial Blvd	Ellery Rd	3275	18	Cast iron	12/1/1927	83	N		High	0	4	0	5	5	0	2.25	\$655,000	\$4,343,015
New	Fin	Everett Pl	Francis St	Ayrault Ct	318	2	Cem Lined	1/1/1889	115	N	1	High	5	5	2.5	5	5	0	4.125	\$52,470	\$4,395,485
New	Fin	Fair St	Spring St	Thames St	444	4	Cast iron	3/28/1903	107	N		High	5	5	0	5	5	0	3.75	\$73,260	\$4,468,745
New	Fin	Fair St	Spring St		35	6	Cast iron	1/1/1967	43	N		High	2.5	2	0	5	5	0	2.375	\$5,775	\$4,474,520
New	Fin	Faxon Green	Annadale Rd	Roel Ln	425	8	AC	11/1/1961	49	Y		High	0	2	0	5	5	5	2.25	\$70,125	\$4,544,645
New	Fin	Fir St	Old Beach Rd	Catherine St	515	2	Cem Lined	6/6/1902	108	N	2	High	5	5	5	5	5	0	4.5	\$84,975	\$4,629,620
New	Fin	Fountain St	Anthony St	Spring St	200	1.5	Cem Lined	1/5/1892	112	N	1	High	5	5	2.5	5	5	0	4.125	\$33,000	\$4,662,620
New	Fin	Freebody St	East Bowery St		4	4	Cast iron			N		High	5	0	0	5	5	0	2.5	\$660	\$4,663,280
New	Fin	Gibbs Ave	Ellery Rd	Old Beach Rd	2060	6	Cast Iron			N	3	High	2.5	0	5	5	5	0	2.625	\$339,900	\$5,003,180
New	Fin	Gidley St	Spring St		392	2	Cem Lined	1/1/1900	110	N	1	High	5	5	2.5	5	5	0	4.125	\$64,680	\$5,067,860
New	Fin	Gidley St	Thames St		39	4	Cast iron			N		High	5	0	0	5	5	0	2.5	\$6,435	\$5,074,295
New	Fin	Green Pl	Spring St	End	140.87	2	Cem Lined	4/7/1921	89	Y		High	5	4	0	5	5	5	4	\$23,244	\$5,097,539
New	Fin	Green St	Spring St	Thames St	495	4	Cast iron			N		High	5	0	0	5	5	0	2.5	\$81,675	\$5,179,214
New	Fin	Harvard St	Pennacook St	Southerly	227.9	6	Cast Iron	11/22/1921	89	N		Med	2.5	4	0	5	2.5	0	2.625	\$37,604	\$5,216,817
New	Fin	Harvard St	S of Pennacook St	Bedlow Ave	187.8	6	Cast Iron	6/13/1927	83	N		Med	2.5	4	0	5	2.5	0	2.625	\$30,987	\$5,247,804
New	Fin	Hayden Ct	Memorial Blvd	End	120	1.25	Cem Lined	5/9/1906	104	Y		Med	5	5	0	5	2.5	5	4	\$19,800	\$5,267,604
New	Fin	High St	Church St	N of Church St	204	4	Cast Iron	10/23/1891	113	N		High	5	5	0	5	5	0	3.75	\$33,660	\$5,301,264
New	Fin	High St	N of Church St	Touro St	285	4	Cast Iron	3/25/1902	108	N		High	5	5	0	5	5	0	3.75	\$47,025	\$5,348,289
New	Fin	Hoppin Rd	Vernon Ave	Northerly	204	6	Cast iron	11/1/1936	74	N		Med	2.5	3	0	5	2.5	0	2.375	\$33,660	\$5,381,949
New	Fin	Hoppin Rd			90.25	6	Cast iron	5/1/1937	73	N		Med	2.5	3	0	5	2.5	0	2.375	\$14,891	\$5,396,841
New	Fin	Hoppin Rd			100	6	Cast iron	7/26/1938	72	N		Med	2.5	3	0	5	2.5	0	2.375	\$16,500	\$5,413,341
New	Fin	Hoppin Rd			70.5	6	Cast Iron	7/13/1939	71	N		Med	2.5	3	0	5	2.5	0	2.375	\$11,633	\$5,424,973
New	Fin	Hoppin Rd			22	6	Cast Iron	10/1/1948	62	N		Med	2.5	3	0	5	2.5	0	2.375	\$3,630	\$5,428,603
New	Fin	Hoppin Rd	W of Freeborn St	N of Vernon Ave	121	6	AC	10/1/1948	62	N		Med	2.5	3	0	5	2.5	0	2.375	\$19,965	\$5,448,568
New	Fin	Howard St	Spring St	E of Thames St	500	6	Cast Iron	1/1/1881	123	N	4	High	2.5	5	5	5	5	0	3.875	\$82,500	\$5,531,068
New	Fin	Hunt Ct	Spring St	End	130.73	1	Cem Lined	11/25/1904	106	Y		High	5	5	0	5	5	5	4.25	\$21,570	\$5,552,638
New	Fin	Katzman Pl	Third St	E of Third St	134	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	\$22,110	\$5,574,748
New	Fin	King Philip Rd	Adm Kalbfus Rd	S of Adm Kalbfu	147.6	2	Iron Pipe	4/5/1939	71	Y		Med	5	3	0	5	2.5	5	3.5	\$24,354	\$5,599,102
New	Fin	Lees Wharf			86.05	2	Cem Lined			Y		High	5	0	0	5	5	5	3	\$14,198	\$5,613,301
New	Fin	Lee's Wharf	Thames St	Westerly	500	2	Cem Lined	7/27/1885	119	Y		High	5	5	0	5	5	5	4.25	\$82,500	\$5,695,801
New	Fin	Liberty St	Old Beach Rd		100	6	Cast iron			Y		High	2.5	0	0	5	5	5	2.375	\$16,500	\$5,712,301
New	Fin	Memorial Blvd	Eustis Ave	Aquidneck Ave	5926	20	Cast Iron	1/1/1915	95	N	1	Med	0	4	2.5	5	2.5	0	2.375	\$1,185,200	\$6,897,501
New	Fin	Merton Rd	Annandale Rd	Middleton Ave	470	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$77,550	\$6,975,051
New	Fin	Merton Rd	Middleton Ave	Freebody St	160	2	Iron Pipe			N		High	5	0	0	5	5	0	2.5	\$26,400	\$7,001,451
New	Fin	Middleton Ave	Berkeley Ave	Parker Ave	450	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	\$74,250	\$7,075,701
New	Fin	Mill St	Thames St	Bellevue Ave	1668	12	Cast Iron	4/1/1927	83	N		High	0	4	0	5	5	0	2.25	\$291,900	\$7,367,601
New	Fin	Old Beach Rd	Greenough Pl	Rhode Island Av	782.7	6	Cast iron	4/26/1922	88	N		High	2.5	4	0	5	5	0	2.875	\$129,146	\$7,496,746

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	End (Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Estimate	Cost Est
New	Fin	Pennacook St	Sagamore St	Westerly	208	6	Cast iron	9/10/1920	90	N		Med	2.5	4	0	5	2.5	0	2.625	\$34,320	\$7,531,066
New	Fin	Pennacook St			183.75	6	Cast iron	10/19/1928	82	N		Med	2.5	4	0	5	2.5	0	2.625	\$30,319	\$7,561,385
New	Fin	Pennacook St			84.5	6	Cast iron	9/16/1929	81	N		Med	2.5	4	0	5	2.5	0	2.625	\$13,943	\$7,575,327
New	Fin	Pennacook St			60	6	Cast iron	1/14/1932	78	N		Med	2.5	3	0	5	2.5	0	2.375	\$9,900	\$7,585,227
New	Fin	Pennacook St			182	6	Cast iron	11/1/1937	73	N		Med	2.5	3	0	5	2.5	0	2.375	\$30,030	\$7,615,257
New	Fin	Pennacook St	Westerly	Hillside Ave	19	6	Cast iron	1/1/1941	69	N		Med	2.5	3	0	5	2.5	0	2.375	\$3,135	\$7,618,392
New	Fin	Perry Mill Whf	Thames St	Westerly	325	6	AC	9/1/1969	41	Y		High	2.5	2	0	5	5	5	2.875	\$53,625	\$7,672,017
New	Fin	Pope St	Easterly	Spring St	124	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$20,460	\$7,692,477
New	Fin	Pope St	Spring St		35	6	AC	1/1/1967	43	N		High	2.5	2	0	5	5	0	2.375	\$5,775	\$7,698,252
New	Fin	Prospect Hill St	Spring St		52	6	Cast iron	1/1/1967	43	N		High	2.5	2	0	5	5	0	2.375	\$8,580	\$7,706,832
New	Fin	Red Cross Ter	Red Cross Ave	Westerly	277	4	AC	7/27/1938	72	Y		High	5	3	0	5	5	5	3.75	\$45,705	\$7,752,537
New	Fin	Red Cross Ter	Westerly	End	142.8	4	AC	12/1/1947	63	Y		High	5	3	0	5	5	5	3.75	\$23,562	\$7,776,099
New	Fin	Red Cross Ter	Red Cross Ave		9.5	6	Cast Iron	1/1/1939	71	Y		High	2.5	3	0	5	5	5	3.125	\$1,568	\$7,777,667
New	Fin	Redwood St	Bellevue Ave	Cottage St	495	6	Cast Iron	5/8/1926	84	N	1	High	2.5	4	2.5	5	5	0	3.25	\$81,675	\$7,859,342
New	Fin	Rowland Rd	Northerly		154	2	Cem Lined	5/1/1928	82	N		Med	5	4	0	5	2.5	0	3.25	\$25,410	\$7,884,752
New	Fin	Rowland Rd	Northerly		105.5	2	Cem Lined	7/25/1929	81	N		Med	5	4	0	5	2.5	0	3.25	\$17,408	\$7,902,159
New	Fin	Rowland Rd	Canonicus Ave	Northerly	43.4	6	Cast Iron	5/1/1928	82	N		Med	2.5	4	0	5	2.5	0	2.625	\$7,161	\$7,909,320
New	Fin	Rowland Rd	Northerly	Adm Kalbfus Rd	81	2	Cem Lined	4/1/1932	78	N		Med	5	3	0	5	2.5	0	3	\$13,365	\$7,922,685
New	Fin	Sagamore St	Canonicus Ave	Adm Kalbfus Rd	271	2	Cem Lined	3/31/1920	90	N		Med	5	4	0	5	2.5	0	3.25	\$44,715	\$7,967,400
New	Fin	Sagamore St	Canonicus Ave	Pennacook St	91.2	6	Cast iron	9/10/1920	90	N		Med	2.5	4	0	5	2.5	0	2.625	\$15,048	\$7,982,448
New	Fin	School St	Mary St		33.7	4	Cast iron	8/24/1926	84	N		High	5	4	0	5	5	0	3.5	\$5,561	\$7,988,009
New	Fin	School St	Church St		12.7	6	Cast iron	9/27/1921	89	N		High	2.5	4	0	5	5	0	2.875	\$2,096	\$7,990,104
New	Fin	School St	Church St	Touro St	565.8	6	Cast iron	8/24/1926	84	N		High	2.5	4	0	5	5	0	2.875	\$93,357	\$8,083,461
New	Fin	School St	Touro St		18	6	Cast iron	9/23/1926	84	N		High	2.5	4	0	5	5	0	2.875	\$2,970	\$8,086,431
New	Fin	Scotts Wharf	Thames St	Westerly	116.9	2	Cem Lined			Y		High	5	0	0	5	5	5	3	\$19,289	\$8,105,720
New	Fin	Seaview Ave	Cliff Ave	Easterly	500.61	4	Cast Iron	03/16/1881	123	Y		High	5	5	0	5	5	5	4.25	\$82,601	\$8,188,321
New	Fin	Stoddard Ct			80.95	2	Cem Lined			Y		High	5	0	0	5	5	5	3	\$13,357	\$8,201,677
New	Fin	Sunnyside Pl	Old Beach Rd		100	6	Cast iron			Y		High	2.5	0	0	5	5	5	2.375	\$16,500	\$8,218,177
New	Fin	Sunnyside Pl	Old Beach Rd	End	326	8	AC	8/1/1969	41	Y		High	0	2	0	5	5	5	2.25	\$53,790	\$8,271,967
New	Fin	Sylvan St	Berkeley Ave	Sylvan Ter	326	6	Cast iron	9/21/1912	98	N		High	2.5	4	0	5	5	0	2.875	\$53,790	\$8,325,757
New	Fin	Sylvan St	Sylvan Ter	Parker Ave	281	6	Cast iron	6/22/1927	83	N		High	2.5	4	0	5	5	0	2.875	\$46,365	\$8,372,122
New	Fin	Sylvan Ter	Sylvan St	Easterly	177.5	6	AC	8/1/1953	57	N		High	2.5	2	0	5	5	0	2.375	\$29,288	\$8,401,410
New	Fin	Sylvan Ter	Middleton Ave		16	6	Cast iron	11/1/1954	56	N		High	2.5	2	0	5	5	0	2.375	\$2,640	\$8,404,050
New	Fin	Sylvan Ter	Middleton Ave	Westerly	269	6	AC	11/1/1954	56	N		High	2.5	2	0	5	5	0	2.375	\$44,385	\$8,448,435
New	Fin	Thomas St	Memorial Blvd W	John St	120	6	AC	9/1/1967	43	N		High	2.5	2	0	5	5	0	2.375	\$19,800	\$8,468,235
New	Fin	Thomas St	Memorial Blvd W		30	6	Cast iron	1/1/1966	44	N		High	2.5	2	0	5	5	0	2.375	\$4,950	\$8,473,185
New	Fin	West St	Perry St		5	4	Cast iron	2/1/1970	40	N		High	5	2	0	5	5	0	3	\$825	\$8,474,010
New	Fin	Yale St	Bedlow Ave		139	2	Cem Lined	1/1/1923	87	N		Med	5	4	0	5	2.5	0	3.25	\$22,935	\$8,496,945
New	Fin	Yale St			18	2	Cem Lined			N		Med	5	0	0	5	2.5	0	2.25	\$2,970	\$8,499,915
New	Fin	Yale St			516	2	Cem Lined			N		Med	5	0	0	5	2.5	0	2.25	\$85,140	\$8,585,055
Midd	Fin	Adelaide Rd	E of Boulevard	Sheri Ln	469	6	AC	Mar-56	54	Y	2	Med	2.5	2	5	5	2.5	5	3.375	\$77,385	\$8,662,440
Midd	Fin	Adelaide Rd	Boulevard	E of Boulevard	6	6	Cast Iron	Mar-56	54	Y		Med	2.5	2	0	5	2.5	5	2.625	\$908	\$8,663,347
Midd	Fin	Adelaide Rd	Sheri Ln	E of Sheri Ln	156	6	AC	May-57	53	Y		Med	2.5	2	0	5	2.5	5	2.625	\$25,740	\$8,689,087
Midd	Fin	Adelaide Rd	E of Sheri Ln	E of Sheri Ln	113	6	AC	Oct-68	42	Y		Med	2.5	2	0	5	2.5	5	2.625	\$18,563	\$8,707,650
Midd	Fin	Boulevard	West Main Rd	Fenner Ave	1845	6	AC	Jan-40	70	N	2	Med	2.5	3	5	5	2.5	0	3.125	\$304,343	\$9,011,992
Midd	Fin	Boulevard	Miantonomi Ave	N of Miantonom	20	6	Cast Iron	Jan-43	67	N		Med	2.5	3	0	5	2.5	0	2.375	\$3,300	\$9,015,292
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	150	2	Gal - CL	Jan-21	89	N		Med	5	4	0	5	2.5	0	3.25	\$24,750	\$9,040,042
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	45	2	Gal - CL	Jan-30	80	N		Med	5	4	0	5	2.5	0	3.25	\$7,425	\$9,047,467
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	95	1.5	Gal - CL	Jan-30	80	N		Med	5	4	0	5	2.5	0	3.25	\$15,675	\$9,063,142
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	133	1.5	Gal - CL	Jan-39	71	N		Med	5	3	0	5	2.5	0	3	\$21,863	\$9,085,005
Midd	Fin	Boulevard	N of Miantonomi	N of Miantonom	22	1.5	Gal - CL	Jan-40	70	N		Med	5	3	0	5	2.5	0	3	\$3,630	\$9,088,635
Midd	Fin	Boulevard Terr	Boulevard	End	609	6	Cl - C	Apr-37	73	Y	1	Med	2.5	3	2.5	5	2.5	5	3.25	\$100,436	\$9,189,070
Midd	Fin	Clayton St	Boulevard	N of Boulevard	400	6	AC	May-52	58	Y		Med	2.5	2	0	5	2.5	5	2.625	\$66,000	\$9,255,070
Midd	Fin	Clayton St	N of Boulevard	N of Boulevard	13	6	AC	7/22/1955	55	Y		Med	2.5	2	0	5	2.5	5	2.625	\$2,145	\$9,257,215
Midd	Fin	Collins Terr	Miantonomi Ave	N of Miantonom	5	6	Cast Iron	9/16/1957	53	Y		Med	2.5	2	0	5	2.5	5	2.625	\$825	\$9,258,040
Midd	Fin	Collins Terr	N of Miantonomi	N of Miantonom	365	6	AC	9/16/1957	53	Y		Med	2.5	2	0	5	2.5	5	2.625	\$60,225	\$9,318,265
Midd	Fin	Dexter St	West Main Rd	W of West Main	6	2	Copper	Aug-41	69	Y		Med	5	3	0	3	2.5	5	3.2	\$990	\$9,319,255
Midd	Fin	Dexter St	W of West Main	W of West Main	337	1.25	Copper	Aug-41	69	Y		Med	5	3	0	3	2.5	5	3.2	\$55,605	\$9,374,860
Midd	Fin	Dexter St	W of West Main	W of West Main	52	1.25	Copper	Jan-48	62	Y		Med	5	3	0	3	2.5	5	3.2	\$8,580	\$9,383,440
Midd	Fin	Dexter St	W of West Main	W of West Main	77.5	1.25	Copper	6/30/1952	58	Y		Med	5	2	0	3	2.5	5	2.95	\$12,788	\$9,396,228
Midd	Fin	Dudley Pl	West Main Rd	E of W Main Rd	19	8	Cast Iron	1/1/1943	67	Y		Med	0	3	0	5	2.5	5	2.25	\$3,135	\$9,399,363
Midd	Fin	Dudley Pl North	Phelps Rd	W of Phelps Rd	13	6	Cast Iron	2/1/1949	61	Y		Med	2.5	3	0	5	2.5	5	2.875	\$2,145	\$9,401,508
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	313	6	AC	2/1/1949	61	Y		Med	2.5	3	0	5	2.5	5	2.875	\$51,645	\$9,453,153

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]																						
	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead							Dead	Total	Cost	Cum		
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Main	Locat.		Size	Age	Break	Mater.	Locat.	End	Rating	Estimate	Cost Est
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	48	6	AC	5/16/1951	59	Y		Med	2.5	2	0	5	2.5	5	2.625	\$7,920	\$9,461,073	
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	13.5	6	AC	1/27/1954	56	Y		Med	2.5	2	0	5	2.5	5	2.625	\$2,228	\$9,463,300	
Midd	Fin	Dudley Pl North	W of Phelps Rd	W of Phelps Rd	22	6	AC	1/1/1955	55	Y		Med	2.5	2	0	5	2.5	5	2.625	\$3,630	\$9,466,930	
Midd	Fin	Dudley Pl South	Phelps Rd	W of Phelps Rd	335	6	Cast Iron	7/15/1940	70	Y		Med	2.5	3	0	5	2.5	5	2.875	\$55,275	\$9,522,205	
Midd	Fin	Dudley Pl South	W of Phelps Rd	S of Dudley Pl	152	6	Cast Iron	8/1/1950	60	Y		Med	2.5	3	0	5	2.5	5	2.875	\$25,080	\$9,547,285	
Midd	Fin	Dudley Pl South	S of Dudley Pl	N of Dudley Pl	56	6	Cast Iron	10/1/1951	59	Y		Med	2.5	2	0	5	2.5	5	2.625	\$9,240	\$9,556,525	
Midd	Fin	Everett St	Boulevard	N of Boulevard	12	4	Cast Iron	8/1/1950	60	N		Med	5	3	0	5	2.5	0	3	\$1,980	\$9,558,505	
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	255	4	AC	8/1/1950	60	N		Med	5	3	0	5	2.5	0	3	\$42,075	\$9,600,580	
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	78	4	AC	6/1/1951	59	N		Med	5	2	0	5	2.5	0	2.75	\$12,870	\$9,613,450	
Midd	Fin	Everett St	N of Boulevard	N of Boulevard	178.42	4	AC	5/6/1952	58	N		Med	5	2	0	5	2.5	0	2.75	\$29,439	\$9,642,890	
Midd	Fin	Evergreen Ave	E of West main R	E of West main	86	6	Cast Iron	10/1/1936	74	N		Med	2.5	3	0	5	2.5	0	2.375	\$14,190	\$9,657,080	
Midd	Fin	Evergreen Ave	E of West main R	E of West main	64	6	Cast Iron	4/1/1949	61	N		Med	2.5	3	0	5	2.5	0	2.375	\$10,560	\$9,667,640	
Midd	Fin	Evergreen Ave	E of West main R	Linden St	26	6	AC	4/1/1949	61	N		Med	2.5	3	0	5	2.5	0	2.375	\$4,290	\$9,671,930	
Midd	Fin	Evergreen Ave	Linden St	Oak St	249	6	AC	8/1/1955	55	N		Med	2.5	2	0	5	2.5	0	2.125	\$41,085	\$9,713,015	
Midd	Fin	Evergreen Ave	Oak St	E of Oak St	81	6	AC	8/1/1956	54	N		Med	2.5	2	0	5	2.5	0	2.125	\$13,365	\$9,726,380	
Midd	Fin	Fairview Ave	Boulevard	N of Boulevard	123	2	Cem Lined	3/20/1919	91	Y		Med	5	4	0	5	2.5	5	3.75	\$20,295	\$9,746,675	
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	126.83	2	Cem Lined	6/18/1928	82	Y		Med	5	4	0	5	2.5	5	3.75	\$20,927	\$9,767,602	
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	33.5	2	Cem Lined	5/17/1935	75	Y		Med	5	3	0	5	2.5	5	3.5	\$5,528	\$9,773,129	
Midd	Fin	Fairview Ave	N of Boulevard	N of Boulevard	123	2	Cem Lined	9/1/1956	54	Y		Med	5	2	0	5	2.5	5	3.25	\$20,295	\$9,793,424	
Midd	Fin	Freeborn St	Mianotnomi Ave	N of Hoppin Rd	565	6	AC	Sep-49	61	N	1	High	2.5	3	2.5	5	5	0	3	\$93,225	\$9,886,649	
Midd	Fin	Hill Top Avenue	Boulevard	N. of Boulevard	468	6	AC	Dec-39	71	Y		Med	2.5	3	0	5	2.5	5	2.875	\$77,220	\$9,963,869	
Midd	Fin	Ichabod Lane	Restmere Ter.	Dead end	25	6	AC	Jul-65	45	Y		Med	2.5	2	0	5	2.5	5	2.625	\$4,125	\$9,967,994	
Midd	Fin	Ichabod Lane	Restmere Terr	End of Ichabod	146	6	AC	Jul-65	45	Y		Med	2.5	2	0	5	2.5	5	2.625	\$24,090	\$9,992,084	
Midd	Fin	Linden Street	Evergreen Ave	S. of Evergreen	83.25	6	AC	Apr-49	61	Y		Med	2.5	3	0	5	2.5	5	2.875	\$13,736	\$10,005,820	
Midd	Fin	Linden Street	Evergreen Ave	N of Evergreen	289	6	AC	Oct-49	61	Y		Med	2.5	3	0	5	2.5	5	2.875	\$47,685	\$10,053,505	
Midd	Fin	Nicholson Crescent	Boulevard North	S. on Nicholson	757	6	Cast Iron	May-47	63	N		Med	2.5	3	0	5	2.5	0	2.375	\$124,905	\$10,178,410	
Midd	Fin	Nicholson Crescent	W. of Boulevard	Boulevard	31	6	Cast Iron	Nov-57	53	N		Med	2.5	2	0	5	2.5	0	2.125	\$5,115	\$10,183,525	
Midd	Fin	Restmere Terrace	Blow Off	Dead end	100	6	AC	Jun-69	41	Y		Med	2.5	2	0	5	2.5	5	2.625	\$16,500	\$10,200,025	
Midd	Fin	Rosedale Ave	Stockton Dr	E of Stockton	158	6	AC	Nov-51	59	Y		Med	2.5	2	0	5	2.5	5	2.625	\$26,070	\$10,226,095	
Midd	Fin	Rosedale Ave	E of Stockton	E of Stockton	156.5	6	AC	3/29/1954	56	Y		Med	2.5	2	0	5	2.5	5	2.625	\$25,823	\$10,251,918	
Midd	Fin	Rosedale Ct	Stockton Dr	Beginning of Loop	260	4	AC	Jan-44	66	Y		Med	5	3	0	5	2.5	5	3.5	\$42,900	\$10,294,818	
Midd	Fin	Rosedale Ct	Beginning of Loop	End of Loop	250	2	Wrought Iron	Jan-44	66	Y		Med	5	3	0	5	2.5	5	3.5	\$41,250	\$10,336,068	
Midd	Fin	Rosedale Terrace	Rosedale Ave	Dead end	377.5	6	AC	3/31/1954	56	Y		Med	2.5	2	0	5	2.5	5	2.625	\$62,288	\$10,398,355	
Midd	Fin	Seaboard Court	High St	Blow Off	187	6	AC	Sep-59	51	Y		Med	2.5	2	0	5	2.5	5	2.625	\$30,855	\$10,429,210	
Midd	Fin	Shangri-La Lane	Bliss Mine Rd	S of Bliss	7	6	Cast Iron	Oct-43	67	N		Med	2.5	3	0	5	2.5	0	2.375	\$1,155	\$10,430,365	
Midd	Fin	Shangri-La Lane	S of Bliss	E of Vernon	855	6	AC	Oct-43	67	N		Med	2.5	3	0	5	2.5	0	2.375	\$141,075	\$10,571,440	
Midd	Fin	Shangri-La Lane	E of Vernon	Vernon Ave	8	6	Cast Iron	Oct-43	67	N		Med	2.5	3	0	5	2.5	0	2.375	\$1,320	\$10,572,760	
Midd	Fin	Sherri Lane	Adeliade Ave	Blow Off	369	2	Wrought Iron	4/10/1956	54	Y		Med	5	2	0	5	2.5	5	3.25	\$60,885	\$10,633,645	
Midd	Fin	Simmons Terr	Miantonomi Ave	End	219	2	Gal - CL	6/29/1954	56	Y		Med	5	2	0	5	2.5	5	3.25	\$36,135	\$10,669,780	
Midd	Fin	Stockton Dr	West Main Rd	Rosedale Ave	1110	6	AC	1/1/1944	66	N	1	Med	2.5	3	2.5	5	2.5	0	2.75	\$183,150	\$10,852,930	
Midd	Fin	West Main Road	south of Evergreen	across to east side of street	2	2	Wrought Iron			N		Med	5	0	0	5	2.5	0	2.25	\$0	\$10,852,930	
Midd	Fin	West Main Road	runs west side of street by Evergreen		900	24	cast iron	Jan-42	68	N	1	Med	0	3	2.5	5	2.5	0	2.125	\$202,500	\$11,055,430	
FY 2016-2020 PROJECTS:																			\$11,055,430			
FY 2021 - 2025																						
Ports	Fin	Harbor View Rd	point	north	30	4	AC	6/1/1961	49	Y		Low	5	2	0	5	0	5	3	\$4,950	\$4,950	
New	Fin	Aborn St			172	6	AC	3/1/1949	61	Y	1	High	2.5	3	2.5	5	5	5	3.5	\$28,380	\$33,330	
New	Fin	Aborn St			227	6	AC	12/1/1941	69	Y		High	2.5	3	0	5	5	5	3.125	\$37,455	\$70,785	
New	Fin	Aborn St			73	6	AC	1/27/1953	57	Y		High	2.5	2	0	5	5	5	2.875	\$12,045	\$82,830	
New	Fin	Aborn St			20	6	AC	3/1/1966	44	Y		High	2.5	2	0	5	5	5	2.875	\$3,300	\$86,130	
New	Fin	Aborn St	Ellery Rd		22.5	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	\$3,713	\$89,843	
New	Fin	Aborn St			33	6	AC			Y		High	2.5	0	0	5	5	5	2.375	\$5,445	\$95,288	
New	Fin	Almy Ct			32.55	6	Cast Iron	7/31/1957	53	Y		Low	2.5	2	0	5	0	5	2.375	\$5,371	\$100,658	
New	Fin	Almy Ct			289.04	6	AC	7/31/1957	53	Y		Low	2.5	2	0	5	0	5	2.375	\$47,692	\$148,350	
New	Fin	Bacheller St			417	1.5	Iron Pipe		117	N	1	High	5	5	2.5	5	5	0	4.125	\$68,805	\$217,155	
New	Fin	Bacheller St			10	4	Cast Iron	6/1/1903	107	N		High	5	5	0	5	5	0	3.75	\$1,650	\$218,805	
New	Fin	Bellevue Ct	Bellevue Ave	Westerly	567.3	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	\$93,605	\$312,409	
New	Fin	Bellevue Ct	Bellevue Ave	Westerly	30	6	Cast Iron			Y		High	2.5	0	0	5	5	5	2.375	\$4,950	\$317,359	
New	Fin	Boss Ct	Wellington Ave	S of Wellington	167.76	2	Cast Iron	01/01/1893	118	Y		Med	5	5	0	5	2.5	5	4	\$27,680	\$345,040	
New	Fin	Brenton Rd	Ocean Ave	Northerly	269.44	2	Iron Pipe	5/1/1956	54	N		Low	5	2	0	5	0	0	2.5	\$44,458	\$389,497	
New	Fin	Byrnes St			100	2	WI - CL			Y	1	High	5	0	2.5	5	5	5	3.375	\$16,500	\$405,997	
New	Fin	Casey Ct	Coggeshall Ave		314	2	Cem Lined	1/1/1888	116	Y		Low	5	5	0	5	0	5	3.75	\$51,810	\$457,807	
New	Fin	Casey Ct		End	80	2	WI - CL	8/1/1940	70	Y	1	Low	5	3	2.5	5	0	5	3.625	\$13,200	\$471,007	

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]

	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead	Main	Locat.						Dead	Total	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Pipe Dia (in)	Pipe Material	Pipe Age	(years)	(Y/N)	Break		Size	Age	Break	Mater.	Locat.	End	Rating	Estimate	Cost Est
New	Fin	Champlin Pl North	Ellery Rd	Northerly	71.5	6	Cast Iron	12/1/1938	72	Y		High	2.5	3	0	5	5	5	3.125	\$11,798	\$482,805
New	Fin	Champlin Pl North			95.5	6	Cast Iron	7/1/1939	71	Y		High	2.5	3	0	5	5	5	3.125	\$15,758	\$498,562
New	Fin	Champlin Pl North			338	6	AC	4/1/1950	60	Y		High	2.5	3	0	5	5	5	3.125	\$55,770	\$554,332
New	Fin	Champlin Pl North	Ellery Rd		20	8	Cast Iron	12/1/1938	72	Y		High	0	3	0	5	5	5	2.5	\$3,300	\$557,632
New	Fin	Coddington Whf	Thames St		14.2	2	Brass	7/1/1929	81	Y		High	5	4	0	5	5	5	4	\$2,343	\$559,975
New	Fin	Coddington Whf	Thames St	Kirwin's 5th Wa	370	1.5	Iron Pipe	4/29/1886	118	N		High	5	5	0	5	5	0	3.75	\$61,050	\$621,025
New	Fin	Connection St	Thames St	Marchant St	555	6	Cast Iron	8/1/1947	63	N		Med	2.5	3	0	5	2.5	0	2.375	\$91,575	\$712,600
New	Fin	Daniel St	Ellery Rd		3	6	Cast iron	3/2/1953	57	Y		High	2.5	2	0	5	5	5	2.875	\$495	\$713,095
New	Fin	Dean Ave	Spring St		24	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$3,960	\$717,055
New	Fin	Dixon St	Thames St		397.37	4	Tin	1/1/1886	118	N	2	High	5	5	5	5	5	0	4.5	\$65,566	\$782,621
New	Fin	Dixon St		Spring St	365.46	4	Cast Iron	1/1/1903	107	N		High	5	5	0	5	5	0	3.75	\$60,301	\$842,922
New	Fin	Dixon St	Spring St	Bellevue Ave	886.5	6	Cast Iron	5/1/1926	84	N		High	2.5	4	0	5	5	0	2.875	\$146,273	\$989,195
New	Fin	Eustis Ave	Ellery Rd	Bliss Rd	2240	16	Cast iron	8/1/1939	71	N	2	High	0	3	5	5	5	0	2.75	\$448,000	\$1,437,195
New	Fin	Florence Ave	Ruggles Ave	Northerly	159	6	Cast iron	3/1/1938	72	Y		Med	2.5	3	0	5	2.5	5	2.875	\$26,235	\$1,463,430
New	Fin	Florence Ave			112.5	6	Cast Iron	5/1/1939	71	Y		Med	2.5	3	0	5	2.5	5	2.875	\$18,563	\$1,481,992
New	Fin	Florence Ave			112	6	Cast Iron	11/1/1940	70	Y		Med	2.5	3	0	5	2.5	5	2.875	\$18,480	\$1,500,472
New	Fin	Florence Ave			160	6	Cast Iron	1/1/1949	61	Y		Med	2.5	3	0	5	2.5	5	2.875	\$26,400	\$1,526,872
New	Fin	Gibson Park Rd	Bliss Rd	End	293	4	AC			Y		High	5	0	0	5	5	5	3	\$48,345	\$1,575,217
New	Fin	Gilroy St	Palmer St		154	6	Cast Iron	1/1/1918	92	N		Med	2.5	4	0	5	2.5	0	2.625	\$25,410	\$1,600,627
New	Fin	Goodwin St	Thames St	End	304	2	Cem Lined	10/08/1890	114	N	2	High	5	5	5	5	5	0	4.5	\$50,160	\$1,650,787
New	Fin	Gordon St	Coggeshall Ave		300	1.5	Cem Lined	1/1/1890	114	N	1	Med	5	5	2.5	5	2.5	0	3.875	\$49,500	\$1,700,287
New	Fin	Gordon St	Bellevue Ave		248	2	Cem Lined	4/2/1901	109	N		Med	5	5	0	5	2.5	0	3.5	\$40,920	\$1,741,207
New	Fin	Gravel Ct	Narragansett Ave	Northerly	266.17	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	\$43,918	\$1,785,125
New	Fin	Gravel Ct	Narragansett Ave	Northerly	120.26	4	Cast Iron			Y		High	5	0	0	5	5	5	3	\$19,843	\$1,804,968
New	Fin	Guthrie St	Bliss Mine Rd		26.5	6	AC	8/5/1950	60	Y		High	2.5	3	0	5	5	5	3.125	\$4,373	\$1,809,341
New	Fin	Guthrie St	Bliss Mine Rd		355	6	AC	4/25/1950	60	Y		High	2.5	3	0	5	5	5	3.125	\$58,575	\$1,867,916
New	Fin	Harold St	Carroll Ave	Easterly	268.75	2	Cem Lined	5/1/1935	75	Y		Low	5	3	0	5	0	5	3.25	\$44,344	\$1,912,260
New	Fin	Harold St	Carroll Ave		63	6	Cast Iron	10/17/1922	88	Y		Low	2.5	4	0	5	0	5	2.875	\$10,395	\$1,922,655
New	Fin	Harrison Ave	Roseneath Ave	Ridge Rd	8586	12	Cast Iron	6/21/1912	98	N	2	Low	0	4	5	5	0	0	2.5	\$1,502,550	\$3,425,205
New	Fin	Harrison Ln			338	2	Iron Pipe	9/1/1952	58	Y		Low	5	2	0	5	0	5	3	\$55,770	\$3,480,975
New	Fin	Holland St	Thames St	Spring St	641.28	4	Cast Iron			N		High	5	0	0	5	5	0	2.5	\$105,811	\$3,586,786
New	Fin	Holten Ave	Kempson St	Northerly	102	6	AC	8/1/1949	61	Y		High	2.5	3	0	5	5	5	3.125	\$16,830	\$3,603,616
New	Fin	Holten Ave			47.25	6	AC	4/1/1952	58	Y		High	2.5	2	0	5	5	5	2.875	\$7,796	\$3,611,412
New	Fin	Holten Ave			201	6	AC	8/27/1952	58	Y		High	2.5	2	0	5	5	5	2.875	\$33,165	\$3,644,577
New	Fin	Holten Ave	Loyola Ter	Northerly	100	6	AC	11/1/1951	59	Y		High	2.5	2	0	5	5	5	2.875	\$16,500	\$3,661,077
New	Fin	Holten Ave			253	6	AC	5/1/1952	58	Y		High	2.5	2	0	5	5	5	2.875	\$41,745	\$3,702,822
New	Fin	Holten Ave			202	8	AC	12/1/1959	51	Y		High	0	2	0	5	5	5	2.25	\$33,330	\$3,736,152
New	Fin	Holten Ave			19.5	8	AC	10/1/1962	48	Y		High	0	2	0	5	5	5	2.25	\$3,218	\$3,739,369
New	Fin	Houston Ave	Wellington Ave	W Narragansett	678	6	Cast Iron	11/6/1910	100	N		Med	2.5	5	0	5	2.5	0	2.875	\$111,870	\$3,851,239
New	Fin	Hunt Ct	Spring St		23	4	AC			Y		High	5	0	0	5	5	5	3	\$3,795	\$3,855,034
New	Fin	Kay Blvd	Kay		752.1	6	Cast iron	8/14/1917	93	N		High	2.5	4	0	5	5	0	2.875	\$124,097	\$3,979,131
New	Fin	Kay Blvd			176	6	Cast iron	9/26/1936	74	N		High	2.5	3	0	5	5	0	2.625	\$29,040	\$4,008,171
New	Fin	Kay Blvd		Bliss	48	6	Cast iron	3/6/1939	71	N		High	2.5	3	0	5	5	0	2.625	\$7,920	\$4,016,091
New	Fin	Kay St	Friendship St	Eustis Ave	775	6	Cast iron	6/5/1931	79	N		High	2.5	3	0	5	5	0	2.625	\$127,875	\$4,143,966
New	Fin	Keeher Ave	Bliss Rd	S of Bliss Rd	12	6	Cast Iron	4/1/1930	80	N		High	2.5	4	0	5	5	0	2.875	\$1,980	\$4,145,946
New	Fin	Keeher Ave	Kay St	N of Kay St	28	6	Cast Iron	11/1/1945	65	N		High	2.5	3	0	5	5	0	2.625	\$4,620	\$4,150,566
New	Fin	Keeher Ave			44	6	Cast Iron	10/6/1947	63	N		High	2.5	3	0	5	5	0	2.625	\$7,260	\$4,157,826
New	Fin	Keeher Ave			25	6	Cast Iron	6/1/1950	60	N		High	2.5	3	0	5	5	0	2.625	\$4,125	\$4,161,951
New	Fin	Keeher Ave			166	6	AC	6/1/1950	60	N		High	2.5	3	0	5	5	0	2.625	\$27,390	\$4,189,341
New	Fin	Keeher Ave			360	6	AC	6/1/1951	59	N		High	2.5	2	0	5	5	0	2.375	\$59,400	\$4,248,741
New	Fin	Keeher Ave			501	6	AC	6/1/1952	58	N		High	2.5	2	0	5	5	0	2.375	\$82,665	\$4,331,406
New	Fin	Keeher Ave			50	6	AC	9/1/1952	58	N		High	2.5	2	0	5	5	0	2.375	\$8,250	\$4,339,656
New	Fin	Keeher Ave			149.5	6	AC	6/1/1955	55	N		High	2.5	2	0	5	5	0	2.375	\$24,668	\$4,364,323
New	Fin	Keeher Ave			114	6	AC	11/1/1961	49	N		High	2.5	2	0	5	5	0	2.375	\$18,810	\$4,383,133
New	Fin	Kempson St	Eustis Ave		156.5	6	Cast iron	5/1/1941	69	N		High	2.5	3	0	5	5	0	2.625	\$25,823	\$4,408,956
New	Fin	Kempson St			279	6	Cast Iron	8/1/1949	61	N		High	2.5	3	0	5	5	0	2.625	\$46,035	\$4,454,991
New	Fin	Kempson St			82	6	AC	8/1/1949	61	N		High	2.5	3	0	5	5	0	2.625	\$13,530	\$4,468,521
New	Fin	Kempson St			58	6	AC	3/1/1950	60	N		High	2.5	3	0	5	5	0	2.625	\$9,570	\$4,478,091
New	Fin	Kempson St		Toppa Blvd	88.5	6	AC	4/1/1956	54	N		High	2.5	2	0	5	5	0	2.375	\$14,603	\$4,492,693
New	Fin	Leonard Ter	Holten Ave	W of Holten Ave	268	6	AC	4/10/1953	57	Y		High	2.5	2	0	5	5	5	2.875	\$44,220	\$4,536,913
New	Fin	Loyola Ter		E of Holten Ave	79	2	Iron Pipe	10/1/1952	58	Y		High	5	2	0	5	5	5	3.5	\$13,035	\$4,549,948
New	Fin	Maher Ct			340.81	2	Cem Lined			Y		Low	5	0	0	5	0	5	2.5	\$56,234	\$4,606,182
New	Fin	Marchant St	* replaced with 1	Grafton - W. Na	100	1.5	Iron Pipe			N	5	Med	5	0	5	5	2.5	0	3	\$16,500	\$4,622,682

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]																						
	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead								Dead	Total	Cost	Cum	
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Main	Locat.		Size	Age	Break	Mater.	Locat.	End	Rating	Estimate	Cost Est
New	Fin	Marchant St	Wellington Ave	S of Wellington	183	6	Cast Iron	12/5/1916	94	N		Med	2.5	4	0	5	2.5	0	2.625	\$30,195	\$4,652,877	
New	Fin	Marion St	Kay St		40.5	6	Cast iron	6/1/1952	58	Y		High	2.5	2	0	5	5	5	2.875	\$6,683	\$4,659,560	
New	Fin	Marion St	Kay St	S of Kay St	149.5	6	AC	6/1/1952	58	Y		High	2.5	2	0	5	5	5	2.875	\$24,668	\$4,684,227	
New	Fin	Marion St	S of Kay St		26.5	8	AC	7/8/1952	58	Y		High	0	2	0	5	5	5	2.25	\$4,373	\$4,688,600	
New	Fin	McAllister St	Thames St		25.4	6	Cast Iron	7/17/1915	95	N		High	2.5	4	0	5	5	0	2.875	\$4,191	\$4,692,791	
New	Fin	Michael Ter	Eustis Ave	End	223	6	AC	8/1/1956	54	Y		High	2.5	2	0	5	5	5	2.875	\$36,795	\$4,729,586	
New	Fin	Michael Ter	Eustis Ave		9	6	Cast Iron	10/17/1956	54	Y		High	2.5	2	0	5	5	5	2.875	\$1,485	\$4,731,071	
New	Fin	Michael Ter	Eustis Ave		3	6	AC	10/17/1956	54	Y		High	2.5	2	0	5	5	5	2.875	\$495	\$4,731,566	
New	Fin	Morgan St	Palmer St	Northerly	249	6	Cast Iron	1/1/1918	92	N		Med	2.5	4	0	5	2.5	0	2.625	\$41,085	\$4,772,651	
New	Fin	Morgan St	Harrison Ave		27	6	Cast Iron	1/1/1939	71	N		Med	2.5	3	0	5	2.5	0	2.375	\$4,455	\$4,777,106	
New	Fin	Morton Pl	Morton Ave	Northerly	166	2	Cem Lined	1/1/1914	96	Y	1	Med	5	4	2.5	5	2.5	5	4.125	\$27,390	\$4,804,496	
New	Fin	Murray Pl	Coggeshall Ave	Westerly	200	2	Cem Lined			Y		Low	5	0	0	5	0	5	2.5	\$33,000	\$4,837,496	
New	Fin	Norman Ave	Old Fort Rd	Palmer Ave	513	6	Cast iron	11/1/1918	92	N		Med	2.5	4	0	5	2.5	0	2.625	\$84,645	\$4,922,141	
New	Fin	Ocean Ave	Prices Cove Rd	W of Green Bld	2770	8	Cast iron	5/1/1915	95	N	2	Low	0	4	5	5	0	0	2.5	\$457,050	\$5,379,191	
New	Fin	Old Fort Rd	Ruggles Ave	Northerly	212.25	6	Cast iron	8/27/1937	73	N		Med	2.5	3	0	5	2.5	0	2.375	\$35,021	\$5,414,212	
New	Fin	Old Fort Rd			60	6	Cast Iron	1/1/1938	72	N		Med	2.5	3	0	5	2.5	0	2.375	\$9,900	\$5,424,112	
New	Fin	Palmer St	Carroll Ave	Westerly	710.8	6	Cast Iron	11/1/1918	92	N		Med	2.5	4	0	5	2.5	0	2.625	\$117,282	\$5,541,394	
New	Fin	Perry St	Bellevue Ave	Spring St	940	12	Cast iron	6/1/1915	95	N		High	0	4	0	5	5	0	2.25	\$164,500	\$5,705,894	
New	Fin	Price's Cove Rd	Ocean Ave	Southerly	1043	6	Cast iron	6/7/1915	95	Y		Low	2.5	4	0	5	0	5	2.875	\$172,095	\$5,877,989	
New	Fin	Rose St			132	2	Cem Lined	7/14/1923	87	Y		Med	5	4	0	5	2.5	5	3.75	\$21,780	\$5,899,769	
New	Fin	Ruggles Ave	Ochre Point Ave	Easterly	308	8	Cast iron	2/1/1939	71	Y		Med	0	3	0	5	2.5	5	2.25	\$50,820	\$5,950,589	
New	Fin	Shepard Ave	Bellevue Ave	Lawrence Ave	1490	6	Cast Iron	1/1/1903	107	N		Med	2.5	5	0	5	2.5	0	2.875	\$245,850	\$6,196,439	
New	Fin	Shepard Ave	Lawrence Ave	Ochre Point Ave	583	6	Cast Iron	3/1/1931	79	N		Med	2.5	3	0	5	2.5	0	2.375	\$96,195	\$6,292,634	
New	Fin	Spring St	Perry St	N of Narragansett	1450	6	Cast Iron			N	2	High	2.5	0	5	5	5	0	2.625	\$239,250	\$6,531,884	
New	Fin	Spring Wharf	Thames St	Westerly	264	4	Cast iron	6/2/1902	108	Y		High	5	5	0	5	5	5	4.25	\$43,560	\$6,575,444	
New	Fin	Stacy Ave	Norman Ave	Palmer Ave	215	6	Cast iron	11/1/1915	95	N	1	Med	2.5	4	2.5	5	2.5	0	3	\$35,475	\$6,610,919	
New	Fin	Sullivan St	Harrison Ave	S to End	292	2	Cem Lined	11/10/1927	83	Y		Low	5	4	0	5	0	5	3.5	\$48,180	\$6,659,099	
New	Fin	Toppa Blvd	Kay St	Northerly	149	8	Cast iron	6/1/1955	55	Y		High	0	2	0	5	5	5	2.25	\$24,585	\$6,683,684	
New	Fin	Toppa Blvd			91.5	8	Cast Iron	4/1/1956	54	Y		High	0	2	0	5	5	5	2.25	\$15,098	\$6,698,781	
New	Fin	Toppa Blvd	Kempsen St	Southerly	48	8	Cast Iron	4/1/1956	54	Y		High	0	2	0	5	5	5	2.25	\$7,920	\$6,706,701	
New	Fin	Underwood Ct			100	2	Iron Pipe			Y	1	High	5	0	2.5	5	5	5	3.375	\$16,500	\$6,723,201	
New	Fin	Vanderbilt Ave			85	2	Cem Lined	3/1/1938	72	Y		Med	5	3	0	5	2.5	5	3.5	\$14,025	\$6,737,226	
New	Fin	Vanderbilt Ave			35	1.5	Cem Lined	3/1/1938	72	Y		Med	5	3	0	5	2.5	5	3.5	\$5,775	\$6,743,001	
New	Fin	Vanderbilt Ave			35	1.5	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	\$5,775	\$6,748,776	
New	Fin	Vanderbilt Ave			60	2	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	\$9,900	\$6,758,676	
New	Fin	Vanderbilt Ave			60	2	Cem Lined			Y		Med	5	0	0	5	2.5	5	2.75	\$9,900	\$6,768,576	
New	Fin	Weatherly Ave			310	2	Cem Lined			N		Med	5	0	0	5	2.5	0	2.25	\$51,150	\$6,819,726	
New	Fin	Webster Pl	Webster St	End	167	2	Cem Lined	1/1/1915	95	Y		Med	5	4	0	5	2.5	5	3.75	\$27,555	\$6,847,281	
New	Fin	Wheatland Ct	Coggeshall Ave		156.58	2	Iron Pipe			Y		Low	5	0	0	5	0	5	2.5	\$25,836	\$6,873,117	
New	Fin	Xavier Ter	Holten Ave		41	2	Copper			Y		High	5	0	0	3	5	5	2.7	\$6,765	\$6,879,882	
New	Fin	Xavier Ter	Eustis Ave	Holten Ave	335	2	Iron Pipe			Y		High	5	0	0	5	5	5	3	\$55,275	\$6,935,157	
New	Fin	Yznaga Ave			21	4	Cast Iron	11/11/1910	100	Y		Low	5	5	0	5	0	5	3.75	\$3,465	\$6,938,622	
New	Fin	Yznaga Ave			174.7	4	Cast iron	1/11/1910	100	Y		Low	5	5	0	5	0	5	3.75	\$28,826	\$6,967,448	
New	Fin	Yznaga Ave			313	6	Cast Iron	1/1/1922	88	Y		Low	2.5	4	0	5	0	5	2.875	\$51,645	\$7,019,093	
Midd	Fin	Acacia Rd	Bliss Mine Rd	Bliss Mine Rd	1403	8	AC	Jan-61	49	Y		Med	0	2	0	5	2.5	5	2	\$231,495	\$7,250,588	
Midd	Fin	Bliss Mine Rd	Town Line	Boulevard	2918	12	AC	8/1/1943	67	N	1	High	0	3	2.5	5	5	0	2.375	\$510,650	\$7,761,238	
Midd	Fin	Gibson Park Road	Bliss Rd	S of Sherwood Rd	275	4	AC			Y		Med	5	0	0	5	2.5	5	2.75	\$45,375	\$7,806,613	
Midd	Fin	Sherwood Road	North	N of Gibson Park	331	4	AC			Y		Med	5	0	0	5	2.5	5	2.75	\$54,615	\$7,861,228	
Midd	Fin	Sherwood Road	North	North	150	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	\$24,750	\$7,885,978	
Midd	Fin	Sherwood Road	North	North	206	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	\$33,990	\$7,919,968	
Midd	Fin	Sherwood Road	North	North	120	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	\$19,800	\$7,939,768	
Midd	Fin	Sherwood Road	Bliss Rd	North	285	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	\$47,025	\$7,986,793	
FY 2021-2025 RECOMMENDED IMPROVMENTS:																					\$7,986,793	
FY 2026 - 2030																						
Ports	Fin	Harbor View Rd	Redwood Rd	north	500	4	AC	Jan-57	53	Y	1	Low	5	2	2.5	5	0	5	3.375	\$82,500	\$82,500	
Ports	Fin	Pioneer Lane	Redwood Rd	south	280	2	Wrought Iron	Jan-57	53	Y		Low	5	2	0	5	0	5	3	\$46,200	\$128,700	
Ports	Fin	Redwood Rd	extended	westerly	150	6	AC	7/1/1963	47	Y		Low	2.5	2	0	5	0	5	2.375	\$24,750	\$153,450	
Ports	Fin	Redwood Rd	extended	westerly	160	6	AC	4/1/1965	45	Y		Low	2.5	2	0	5	0	5	2.375	\$26,400	\$179,850	
Ports	Fin	Redwood Rd	extended	westerly	90	6	AC	10/1/1965	45	Y		Low	2.5	2	0	5	0	5	2.375	\$14,850	\$194,700	
Ports	Fin	Redwood Rd	extended	westerly	584	6	AC	6/1/1966	44	Y		Low	2.5	2	0	5	0	5	2.375	\$96,360	\$291,060	
Ports	Fin	Slate Lane	main in Mailcoac	6" gate at Mailco	37	6	AC	Jan-57	53	Y		Low	2.5	2	0	5	0	5	2.375	\$6,105	\$297,165	
Ports	Fin	Slate Lane	6" gate at Mailcoac	point	20	6	AC	10/1/1967	43	Y		Low	2.5	2	0	5	0	5	2.375	\$3,300	\$300,465	

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]

Town	Raw/ Fin	Street Name	From	To	Pipe Lth (ft)	Exist Pipe Dia (in)	Exist Pipe Material	Pipe Age	Age (years)	Dead End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	Dead End	Total Rating	Cost Estimate	Cum Cost Est
Midd	Fin	West Main Road	gate	north to gate	110	1.5	Wrought Iron	10/1/1945	65	N		Med	5	3	0	5	2.5	0	3	\$18,150	\$318,615
Midd	Fin	Arruda Terr	West Main Rd	E of W Main Rd	207	6	AC	5/1/1952	58	Y		Low	2.5	2	0	5	0	5	2.375	\$34,155	\$352,770
Midd	Fin	Arruda Terr	E of W Main Rd	E of W Main Rd	74	6	AC	11/1/1953	57	Y		Low	2.5	2	0	5	0	5	2.375	\$12,210	\$364,980
Midd	Fin	Arruda Terr	E of W Main Rd	E of W Main Rd	75	6	AC	8/1/1970	40	Y		Low	2.5	2	0	5	0	5	2.375	\$12,375	\$377,355
Midd	Fin	Casey Dr	N of Murphy Cir	N of Murphy Cir	98	1.25	Copper	7/1/1964	46	Y		Low	5	2	0	3	0	5	2.7	\$16,170	\$393,525
Midd	Fin	Donald Dr	Casey Dr	W of Casey Dr	345.5	6	AC	6/1/1956	54	Y		Low	2.5	2	0	5	0	5	2.375	\$57,008	\$450,533
Midd	Fin	Donald Dr	W of Casey Dr	Murphy Cir	351.5	6	AC	9/1/1957	53	Y		Low	2.5	2	0	5	0	5	2.375	\$57,998	\$508,530
Midd	Fin	Donald Dr	Murphy Cir	Chases Ln	201	6	AC	11/1/1960	50	Y		Low	2.5	2	0	5	0	5	2.375	\$33,165	\$541,695
Midd	Fin	Lawrence Avenue/Nav	Chases Ln	S. of Chases Ln	49	6	AC			Y		Med	2.5	0	0	5	2.5	5	2.125	\$8,085	\$549,780
Midd	Fin	Murphy Circle	Casey Drive	W. of Casey Dr	359	6	AC	Jun-56	54	Y		Low	2.5	2	0	5	0	5	2.375	\$59,235	\$609,015
Midd	Fin	Murphy Circle	Donald Dr	W. of Casey Dr	901	6	AC	Sep-57	53	Y		Low	2.5	2	0	5	0	5	2.375	\$148,665	\$757,680
Midd	Fin	Bristol Rd	Ludlow Rd	Woolsey Rd	465	6	AC	8/1/1955	55	Y		Med	2.5	2	0	5	2.5	5	2.625	\$76,725	\$834,405
Midd	Fin	Buck Rd	Ludlow Rd	Woolsey Rd	646	6	AC	Aug-55	55	Y		Med	2.5	2	0	5	2.5	5	2.625	\$106,590	\$940,995
Midd	Fin	Ludlow Road	Buck Rd	Woolsey Rd	1200	6	AC	Jul-55	55	Y		Med	2.5	2	0	5	2.5	5	2.625	\$198,000	\$1,138,995
Midd	Fin	Oakwood Road	West Main Rd	E. of West Main	50	6	Cast Iron	Apr-48	62	N		Med	2.5	3	0	5	2.5	0	2.375	\$8,250	\$1,147,245
Midd	Fin	Oakwood Road	E. of West Main	W. of Ridgewood	184	6	AC	Apr-48	62	N		Med	2.5	3	0	5	2.5	0	2.375	\$30,360	\$1,177,605
Midd	Fin	Oakwood Road	W. of Ridgewood	Ridgewood Rd	125	6	AC	Aug-53	57	N		Med	2.5	2	0	5	2.5	0	2.125	\$20,625	\$1,198,230
Midd	Fin	Ridgewood Rd	N of Oakwood Rd	Oakwood Rd	175	6	AC	8/10/1953	57	Y		Med	2.5	2	0	5	2.5	5	2.625	\$28,875	\$1,227,105
Midd	Fin	Wood Rd	point b	tee at Oakwood	89	8	AC	6/1/1962	48	Y	1	Med	0	2	2.5	5	2.5	5	2.375	\$14,685	\$1,241,790
Midd	Fin	Woolsey Rd	E of W Main Rd	Ludlow Rd	1268	8	AC	7/1/1955	55	Y	1	Med	0	2	2.5	5	2.5	5	2.375	\$209,220	\$1,451,010
Midd	Fin	Jude St	Park Dr	N of Park Dr	94.5	2	Wrought Iron	Apr-52	58	Y		Low	5	2	0	5	0	5	3	\$15,593	\$1,466,603
Midd	Fin	Jude St	N of Park Dr	N of Park Dr	28	2	Wrought Iron	Sep-52	58	Y		Low	5	2	0	5	0	5	3	\$4,620	\$1,471,223
Midd	Fin	Admiral Ct	King Rd	End	155	2	Wrought Iron			Y	1	Med	5	0	2.5	5	2.5	5	3.125	\$25,575	\$1,496,798
Midd	Fin	Harbor View Court	Maple Ave	N. on Harbor Vi	18	2	Wrought Iron	Dec-97	13	Y		Med	5	0	0	5	2.5	5	2.75	\$2,970	\$1,499,768
Midd	Fin	Harbor View Court	N. of Maple Ave	N. on Harbor Vi	510	1	Wrought Iron	Dec-97	13	Y		Med	5	0	0	5	2.5	5	2.75	\$84,150	\$1,583,918
Midd	Fin	King Road	Maple Ave	N. of Maple Ave	150	2	Wrought Iron			N		Med	5	0	0	5	2.5	0	2.25	\$24,750	\$1,608,668
Midd	Fin	Paquin Place	Maple Ave	North of Maple A	448	6	AC	Nov-52	58	Y		Med	2.5	2	0	5	2.5	5	2.625	\$73,920	\$1,682,588
Midd	Fin	Paquin Place	North of Maple Av	6" DI Pipe	45	6	AC	Sep-58	52	Y		Med	2.5	2	0	5	2.5	5	2.625	\$7,425	\$1,690,013
Midd	Fin	Peace St	Beacon St	Northerly to Ser	154.5	6	AC	Jun-50	60	Y		Low	2.5	3	0	5	0	5	2.625	\$25,493	\$1,715,505
Midd	Fin	Rosa Rd	S of Maple		12	4	Cast Iron	Jul-48	62	Y		Med	5	3	0	5	2.5	5	3.5	\$1,980	\$1,717,485
Midd	Fin	Rosa Rd		Dead End	394	4	AC	Jul-48	62	Y		Med	5	3	0	5	2.5	5	3.5	\$65,010	\$1,782,495
Midd	Fin	Rosa Rd	Maple Ave	S of Maple	38	6	Cast Iron	Jul-48	62	Y		Med	2.5	3	0	5	2.5	5	2.875	\$6,270	\$1,788,765
Midd	Fin	Sherman Lane	Maple Ave	North	826	2	Cem Lined	Aug-48	62	Y		Med	5	3	0	5	2.5	5	3.5	\$136,290	\$1,925,055
Midd	Fin	Smythe Av	West Main Rd	W of W Main Rd	262	6	Cast Iron	7/1/1949	61	N		Med	2.5	3	0	5	2.5	0	2.375	\$43,230	\$1,968,285
Midd	Fin	Smythe Av	Maple Ave	S of Maple Ave	35	6	Cast Iron	10/1/1949	61	N		Med	2.5	3	0	5	2.5	0	2.375	\$5,775	\$1,974,060
Midd	Fin	Smythe Av	S of Maple Ave	S of Maple Ave	317	6	AC	10/1/1949	61	N		Med	2.5	3	0	5	2.5	0	2.375	\$52,305	\$2,026,365
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	192	6	Cast Iron	4/23/1953	57	N		Med	2.5	2	0	5	2.5	0	2.125	\$31,680	\$2,058,045
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	107	6	AC	10/1/1955	55	N		Med	2.5	2	0	5	2.5	0	2.125	\$17,655	\$2,075,700
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	52	6	AC	8/1/1957	53	N		Med	2.5	2	0	5	2.5	0	2.125	\$8,580	\$2,084,280
Midd	Fin	Smythe Av	W of W Main Rd	W of W Main Rd	56	6	AC	7/1/1956	54	N		Med	2.5	2	0	5	2.5	0	2.125	\$9,240	\$2,093,520
Midd	Fin	Underwood Lane	Maple Ave	North	785	6	AC	9/17/1954	56	Y		Med	2.5	2	0	5	2.5	5	2.625	\$129,525	\$2,223,045
Midd	Fin	Yarnell Ave	south	Maple Ave	140	2	WI- CL	6/1/1944	66	N		Med	5	3	0	5	2.5	0	3	\$23,100	\$2,246,145
Midd	Fin	Yarnell Ave	Hart Ave	south	870	6	AC	6/1/1944	66	N		Med	2.5	3	0	5	2.5	0	2.375	\$143,550	\$2,389,695
Midd	Fin	East Main Rd	E of W Main Rd	E of Wood Rd	1102.33	6	CI - CL	Sep-36	74	N		Low	2.5	3	0	5	0	0	2.125	\$181,884	\$2,571,579
Midd	Fin	Linden Street	S. of Evergreen A	S. of Evergreen	26	6	AC	Jan-50	60	Y		Med	2.5	3	0	5	2.5	5	2.875	\$4,290	\$2,575,869
Midd	Fin	Linden Street	S. of Evergreen A	S. of Evergreen	91	6	AC	May-51	59	Y		Med	2.5	2	0	5	2.5	5	2.625	\$15,015	\$2,590,884
Midd	Fin	Linden Street	S. of Evergreen A	S. of Evergreen	36.5	6	AC	Sep-52	58	Y		Med	2.5	2	0	5	2.5	5	2.625	\$6,023	\$2,596,907
Midd	Fin	Linden Street	N of Evergreen A	N of Evergreen A	52	6	AC	Sep-52	58	Y		Med	2.5	2	0	5	2.5	5	2.625	\$8,580	\$2,605,487
Midd	Fin	Linden Street	N of Evergreen A	N of Evergreen A	152	6	AC	Nov-54	56	Y		Med	2.5	2	0	5	2.5	5	2.625	\$25,080	\$2,630,567
Midd	Fin	Rego Lane	Sousa Rd	Maplewood Rd	99	8	AC	Oct-63	47	Y	1	Med	0	2	2.5	5	2.5	5	2.375	\$16,335	\$2,646,902
Midd	Fin	Shaw Court	High St	Blow Off	169	6	AC	Jul-51	59	Y		Med	2.5	2	0	5	2.5	5	2.625	\$27,885	\$2,674,787
New	Fin	Hillside Ave	Bedlow Ave	S of Beacon St	2181	12	Cast Iron	12/1/1940	70	N		Med	0	3	0	5	2.5	0	1.75	\$381,675	\$3,056,462
New	Fin	Hillside Ave	Bedlow Ave		20.5	8	Cast Iron	1/1/1939	71	N		Med	0	3	0	5	2.5	0	1.75	\$3,383	\$3,059,844
New	Fin	Maple Ave	Hillside Ave	Leal Terr	1727	12	Cast Iron	Jan-43		N		High	0	0	0	5	5	0	1.25	\$302,225	\$3,362,069
New	Fin	Adm Kalbfus Rd	Broadway		361	8	Cast Iron	10/1/1934	76	N	1	Med	0	3	2.5	5	2.5	0	2.125	\$59,565	\$3,421,634
New	Fin	Adm Kalbfus Rd	Broadway	E of Hillside	1440	8	Cast Iron	7/1/1941	69	N	1	Med	0	3	2.5	5	2.5	0	2.125	\$237,600	\$3,659,234
New	Fin	Adm Kalbfus Rd	Broadway		29	8	Cast Iron	1/1/1923	87	N		Med	0	4	0	5	2.5	0	2	\$4,785	\$3,664,019
New	Fin	Sagamore St	Adm Kalbfus Rd		21.3	1.5	Copper	7/1/1941	69	N		Med	5	3	0	3	2.5	0	2.7	\$3,515	\$3,667,534
Midd	Fin	Gunning Road	Wolcott Ave	W. of Walcott A	375	6	Cast Iron	Mar-51	59	Y		Low	2.5	2	0	5	0	5	2.375	\$61,875	\$3,729,409
Midd	Fin	Gunning Road	W. of Walcott Ave	N. on Gunning R	144	6	Cast Iron	Sep-51	59	Y		Low	2.5	2	0	5	0	5	2.375	\$23,760	\$3,753,169
Midd	Fin	Gunning Road	N. on Gunning Rd	N. on Gunning R	103	6	AC	4/22/1952	58	Y		Low	2.5	2	0	5	0	5	2.375	\$16,995	\$3,770,164
Midd	Fin	Harold Lane	Intersection of Harold and Gunning		3	6	Cast Iron	Jul-60	50	Y		Low	2.5	2	0	5	0	5	2.375	\$495	\$3,770,659
Midd	Fin	Harold Lane	Gunning Rd	N. of Reservoir A	124	6	AC	Jul-60	50	Y		Low	2.5	2	0	5	0	5	2.375	\$20,460	\$3,791,119

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]

Town	Raw/ Fin	Street Name	From	To	Pipe Lth (ft)	Exist Pipe Dia (in)	Exist Pipe Material	Pipe Age	Age (years)	Dead End (Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	Dead End	Total Rating	Cost Estimate	Cum Cost Est
Midd	Fin	Harold Lane	N. of Reservoir Ave		30	6	AC	Nov-66	44	Y		Low	2.5	2	0	5	0	5	2.375	\$4,950	\$3,796,069
Midd	Fin	Paradise Ave	6" Transite Pipe	S. of Prospect Dr	595.5	6	AC	May-40	70	Y	1	Low	2.5	3	2.5	5	0	5	3	\$98,258	\$3,894,326
Midd	Fin	Paradise Ave	S. of Prospect Dr	Paradise School	783	6	AC	Mar-42	68	Y	1	Low	2.5	3	2.5	5	0	5	3	\$129,195	\$4,023,521
Midd	Fin	Paradise Ave	Reservoir Rd	N. to 6" Transite	21.5	6	Cast Iron	May-40	70	Y		Low	2.5	3	0	5	0	5	2.625	\$3,548	\$4,027,069
New	Fin	Van Zandt Ave	E of Congdon Ave	Tilley Ave	209	8	Cast iron	1/1/1939	71	N		High	0	3	0	5	5	0	2	\$34,485	\$4,061,554
New	Fin	Van Zandt Ave	Tilley Ave	Farewell St	1124.7	8	Cast iron	6/1/1930	80	N		High	0	4	0	5	5	0	2.25	\$185,576	\$4,247,129
Midd	Fin	Aquidneck Ave	Purgatory Rd	Valley Rd	1783	20	Cl - CL	Jan-66	44	N	2	Med	0	2	5	5	2.5	0	2.25	\$356,600	\$4,603,729
Midd	Fin	Briarwood Ave	Ellery Ave	E of Ellery Ave	105	6	AC	9/1/1956	54	N		Low	2.5	2	0	5	0	0	1.875	\$17,325	\$4,621,054
Midd	Fin	Briarwood Ave	E of Ellery Ave	E of Ellery Ave	29.5	6	AC	10/8/1956	54	N		Low	2.5	2	0	5	0	0	1.875	\$4,868	\$4,625,922
Midd	Fin	Briarwood Ave	E of Ellery Ave	Renfrew Ave	181	6	AC	8/1/1956	54	N		Low	2.5	2	0	5	0	0	1.875	\$29,865	\$4,655,787
Midd	Fin	Briarwood Ave	E of Centre Ave	Wolcott Ave	47	6	AC	3/1/1951	59	N		Low	2.5	2	0	5	0	0	1.875	\$7,755	\$4,663,542
Midd	Fin	Crescent St	N of Purgatory Rd	N of Purgatory Rd	161.67	2	WI - CL	7/1/1948	62	Y		Med	5	3	0	5	2.5	5	3.5	\$26,676	\$4,690,218
Midd	Fin	Crescent St	N of Purgatory Rd	N of Purgatory Rd	7	2	WI - CL	8/12/1950	60	Y		Med	5	3	0	5	2.5	5	3.5	\$1,155	\$4,691,373
Midd	Fin	Newport Avenue	Aquidneck Ave	E. of Aquidneck	366	6	AC	Jun-50	60	N	1	Low	2.5	3	2.5	5	0	0	2.5	\$60,390	\$4,751,763
Midd	Fin	Orchard Avenue	Renfrew Ave	W. of Renfrew Ave	194	6	AC	Sep-50	60	N		Med	2.5	3	0	5	2.5	0	2.375	\$32,010	\$4,783,773
Midd	Fin	Orchard Avenue	Renfrew Ave	E. of Renfrew Ave	252	6	AC	Sep-50	60	N		Med	2.5	3	0	5	2.5	0	2.375	\$41,580	\$4,825,353
Midd	Fin	Orchard Avenue	W. of Renfrew Ave	W. of Renfrew Ave	59	6	AC	May-52	58	N		Med	2.5	2	0	5	2.5	0	2.125	\$9,735	\$4,835,088
Midd	Fin	Orchard Avenue	W. of Renfrew Ave	Ellery Ave	62	6	AC	May-53	57	N		Med	2.5	2	0	5	2.5	0	2.125	\$10,230	\$4,845,318
Midd	Fin	Orchard Avenue	E. of Renfrew Ave	E. of Renfrew Ave	81	6	AC	Aug-53	57	N		Med	2.5	2	0	5	2.5	0	2.125	\$13,365	\$4,858,683
Midd	Fin	Seascape Ave	Renfrew Ave	Perlinger Service	279	6	AC	Nov-55	55	Y		Low	2.5	2	0	5	0	5	2.375	\$46,035	\$4,904,718
Midd	Fin	Seascape Ave	Perlinger Service	Santos Service	221	6	AC	May-59	51	Y		Low	2.5	2	0	5	0	5	2.375	\$36,465	\$4,941,183
Midd	Fin	Allston Ave	Purgatory Rd	S of Purgatory Rd	73	6	AC	6/19/48	62	Y		Med	2.5	3	0	5	2.5	5	2.875	\$12,045	\$4,953,228
Midd	Fin	Allston Ave	Briarwood Ave	N of Briarwood	11	6	Cast Iron	1/1/49	61	N		Med	2.5	3	0	5	2.5	0	2.375	\$1,815	\$4,955,043
Midd	Fin	Allston Ave	N of Briarwood	N of Briarwood	90	6	AC	1/1/49	61	N		Med	2.5	3	0	5	2.5	0	2.375	\$14,850	\$4,969,893
Midd	Fin	Allston Ave	N of Briarwood	N of Briarwood	74	6	AC	6/1/51	59	N		Med	2.5	2	0	5	2.5	0	2.125	\$12,210	\$4,982,103
Midd	Fin	Allston Ave	Briarwood Ave	S of Briarwood	156	6	AC	9/1/52	58	N		Med	2.5	2	0	5	2.5	0	2.125	\$25,740	\$5,007,843
Midd	Fin	Allston Ave	Orchard Ave	S of Orchard	59	6	AC	8/1/56	54	N		Med	2.5	2	0	5	2.5	0	2.125	\$9,735	\$5,017,578
Midd	Fin	Allston Ave	Purgatory Rd	N of Purgatory Rd	6.5	6	Cast Iron	8/1/56	54	N		Med	2.5	2	0	5	2.5	0	2.125	\$1,073	\$5,018,650
Midd	Fin	Allston Ave	N of Purgatory Rd	N of Purgatory Rd	152	6	AC	8/1/56	54	N		Med	2.5	2	0	5	2.5	0	2.125	\$25,080	\$5,043,730
Midd	Fin	Allston Ave	S of Orchard	S of Orchard	74	6	AC	9/5/58	52	N		Med	2.5	2	0	5	2.5	0	2.125	\$12,210	\$5,055,940
Midd	Fin	Allston Ave	S of Orchard	S of Orchard	167	6	AC	6/1/63	47	N		Med	2.5	2	0	5	2.5	0	2.125	\$27,555	\$5,083,495
Midd	Fin	Beach View Terr	Wolcott Ave	E of Wolcott Ave	579	6	AC	Sep-50	60	Y		Low	2.5	3	0	5	0	5	2.625	\$95,535	\$5,179,030
Midd	Fin	Briarwood Ave	Renfrew Ave	E of Renfrew Ave	134	6	AC	5/1/1949	61	N		Low	2.5	3	0	5	0	0	2.125	\$22,110	\$5,201,140
Midd	Fin	Briarwood Ave	E of Renfrew Ave	Allston Ave	170	6	AC	1/1/1949	61	N		Low	2.5	3	0	5	0	0	2.125	\$28,050	\$5,229,190
Midd	Fin	Briarwood Ave	E of Allston Ave	E of Allston Ave	10	6	Cast Iron	1/1/1949	61	N		Low	2.5	3	0	5	0	0	2.125	\$1,650	\$5,230,840
Midd	Fin	Briarwood Ave	E of Allston Ave	Centre Ave	282	6	AC	1/1/1949	61	N		Low	2.5	3	0	5	0	0	2.125	\$46,530	\$5,277,370
Midd	Fin	Briarwood Ave	Centre Ave	E of Centre Ave	258	6	AC	9/1/1949	61	N		Low	2.5	3	0	5	0	0	2.125	\$42,570	\$5,319,940
Midd	Fin	Crest St	Tuckerman Ave	E of Tuckerman	20	6	Cl - CL	7/1/1938	72	N		Low	2.5	3	0	5	0	0	2.125	\$3,300	\$5,323,240
Midd	Fin	Crest St	E of Tuckerman	E+N of Tuckerman	686	6	AC	7/1/1938	72	N		Low	2.5	3	0	5	0	0	2.125	\$113,190	\$5,436,430
Midd	Fin	Easton Terr	Wolcott Ave	E of Wolcott Ave	230	2	WI - CL	11/26/1952	58	Y		Low	5	2	0	5	0	5	3	\$37,950	\$5,474,380
Midd	Fin	James Street	Kane Ave	W. of Kane Ave	16	6	AC	Dec-55	55	Y		Low	2.5	2	0	5	0	5	2.375	\$2,640	\$5,477,020
Midd	Fin	James Street	W. of Kane Ave	W. of Kane Ave	500	6	AC	Dec-55	55	Y		Low	2.5	2	0	5	0	5	2.375	\$82,500	\$5,559,520
Midd	Fin	Kent Road	Ashhurst Ave	End of Kent Rd	370	6	AC	3/29/1956	54	Y		Low	2.5	2	0	5	0	5	2.375	\$61,050	\$5,620,570
Midd	Fin	O'Donnell Street	Tuckerman Ave	W. of Tuckerman	258	2	Wrought Iron	Apr-39	71	Y		Med	5	3	0	5	2.5	5	3.5	\$42,570	\$5,663,140
Midd	Fin	O'Donnell Road	Purgatory Rd	S of Purgatory Rd	30	6	Cast Iron	Apr-49	61	Y		Low	2.5	3	0	5	0	5	2.625	\$4,950	\$5,668,090
Midd	Fin	O'Donnell Road	S of Purgatory Rd	S of Purgatory Rd	69	6	Cast Iron	May-49	61	Y		Low	2.5	3	0	5	0	5	2.625	\$11,385	\$5,679,475
Midd	Fin	O'Donnell Road	S of Purgatory Rd	S of Purgatory Rd	348	6	AC	May-49	61	Y		Low	2.5	3	0	5	0	5	2.625	\$57,420	\$5,736,895
Midd	Fin	Orchard Avenue	Center Ave	Wolcott Ave	325	6	AC	Sep-50	60	N		Med	2.5	3	0	5	2.5	0	2.375	\$53,625	\$5,790,520
Midd	Fin	Perry Rd	Wolcott Ave	E of Wolcott Ave	510.5	6	AC	11/19/1954	56	Y		Low	2.5	2	0	5	0	5	2.375	\$84,233	\$5,874,753
Midd	Fin	Perry Rd	E of Wolcott Ave	E of Wolcott Ave	39.5	6	AC	5/11/1955	55	Y		Low	2.5	2	0	5	0	5	2.375	\$6,518	\$5,881,270
Midd	Fin	Renfrew Park	East	End	231	2	Wrought Iron	May-45	65	Y		Low	5	3	0	5	0	5	3.25	\$38,115	\$5,919,385
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	705.75	6	Cl - CL	10/1/1937	73	N		Low	2.5	3	0	5	0	0	2.125	\$116,449	\$6,035,834
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	350	6	AC	10/1/1949	61	N		Low	2.5	3	0	5	0	0	2.125	\$57,750	\$6,093,584
Midd	Fin	Tuckerman Ave	N of Ashurst Ave	N of Ashurst Ave	10	6	Cast Iron	10/1/1949	61	N		Low	2.5	3	0	5	0	0	2.125	\$1,650	\$6,095,234
Midd	Fin	Crest St South	Hoover Rd	N of Hoover Rd	394	6	AC	8/1/1958	52	Y		Low	2.5	2	0	5	0	5	2.375	\$65,010	\$6,160,244
Midd	Fin	Hoover Street	Tuckerman Ave	Wolcott Ave	492	6	Cast Iron	Oct-39	71	N		Low	2.5	3	0	5	0	0	2.125	\$81,180	\$6,241,424
Midd	Fin	Stimpson St			100	2	Wrought Iron			Y		Low	5	0	0	5	0	5	2.5	\$16,500	\$6,257,924
Midd	Fin	Tuckerman Ave	Hoover St	Wolcott Ave	2007	6	Cast Iron			N	8	Low	2.5	0	5	5	0	0	2.125	\$331,155	\$6,589,079
New	Fin	Wellington Ave	Halidon Ave	Chastellux Ave	678	12	Cast iron	5/1/1942	68	N	1	Med	0	3	2.5	5	2.5	0	2.125	\$118,650	\$6,707,729
New	Fin	Halidon Ave	Chastellux Ave	Harrison Ave	1309	12	Cast iron	5/1/1942	68	N		Med	0	3	0	5	2.5	0	1.75	\$229,075	\$6,936,804
New	Fin	Coggeshall Ave	Ruggles Ave	Bellevue Ave	4443	12	Cast iron	5/28/1909	101	N		Low	0	5	0	5	0	0	2	\$777,525	\$7,714,329
New	Fin	Ocean Ave		Coggeshall Ave	65	8	Cast iron	4/1/1898	106	N		Low	0	5	0	5	0	0	2	\$10,725	\$7,725,054
New	Fin	Ocean Ave	S of Winans Ave	S of Winans Ave	69	8	Cast iron	8/18/1913	97	N		Low	0	4	0	5	0	0	1.75	\$11,385	\$7,736,439

City of Newport, Rhode Island - Water Main Database (sorted by FISCAL YEAR) [FOR PLANNING PURPOSES ONLY-SUBJECT TO CHANGE]																					
	Raw/				Pipe	Exist	Exist	Pipe	Age	Dead								Dead	Total	Cost	Cum
Town	Fin	Street Name	From	To	Lth (ft)	Dia (in)	Material	Age	(years)	(Y/N)	Main Break	Locat.	Size	Age	Break	Mater.	Locat.	End	Rating	Estimate	Cost Est
New	Fin	Ocean Ave	E of Green Bridge	S of Hazard Rd	1091	8	Cast iron	5/1/1915	95	N		Low	0	4	0	5	0	0	1.75	\$180,015	\$7,916,454
New	Fin	Ocean Ave	Carroll Ave	S of Hazard Rd	4223	8	Cast iron	5/1/1914	96	N		Low	0	4	0	5	0	0	1.75	\$696,795	\$8,613,249
New	Fin	Ocean Ave	Carroll Ave		39	8	Cast Iron	10/2/1923	87	N		Low	0	4	0	5	0	0	1.75	\$6,435	\$8,619,684
New	Fin	Ocean Ave	S of Winans Ave	Harrison Ave	2786	8	AC	5/1/1946	64	N		Low	0	3	0	5	0	0	1.5	\$459,690	\$9,079,374
New	Fin	Ocean Ave	S of Winans Ave	S of Winans Ave	33	8	Cast iron	5/1/1946	64	N		Low	0	3	0	5	0	0	1.5	\$5,445	\$9,084,819
New	Fin	Ocean Ave	Carroll Ave	S of Jeffrey Rd	542	8	Cast iron	9/1/1939	71	N		Low	0	3	0	5	0	0	1.5	\$89,430	\$9,174,249
New	Fin	Brenton Rd	Harrison Ave	Beacon Hill Rd	1395	12	Cast iron	9/1/1935	75	N		Low	0	3	0	5	0	0	1.5	\$244,125	\$9,418,374
													FY 2026-2030 RECOMMENDED IMPROVEMENTS:							\$9,418,374	

APPENDIX E

**CAPITAL IMPROVEMENT
SCHEDULE CORRECTION
JANUARY 6, 2010**

City of Newport, Rhode Island
FY 2010 Rate Filing
Capital Improvement Plan

RFC Schedule 4 Compliance

	2007-2008	2009	Rate Year 2010	2011	2012	2013	2014
2007 SRF A \$2,780,588							
TRL LV Residual Management Proj- \$3M SRF	2,761,500						
TRL \$3M borrowing costs	19,088						
	\$ 2,780,588	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2008 SRF A \$2,144,185							
S Intake at Gardiner Pond	93,238	4,907					
TRL LV Reservoir Aeration	69,350	21,650					
TRL LVWTP pH constr	247,095	28,255					
TRL LVWTP Chloramine Conversion Construction			200,000				
TRL Lawton Valley Sed Basin Imp	302,457	21,043					
TRN Sta 1 pH constr	247,095	28,255					
TRN Sta 1 Chloramine Conversion Construction			180,000				
TD Distribution Main Design		105,444					
ST Finished Water Storage Tank Maintenance	20,396	575,000					
	\$ 979,631	\$ 784,554	\$ 380,000	\$ -	\$ -	\$ -	\$ -
2008 SRF B \$2,800,000							
CS Remote Radio Read Meter System- Install		900,000	1,000,000	900,000			
	\$ -	\$ 900,000	\$ 1,000,000	\$ 900,000	\$ -	\$ -	\$ -
2009 SRF A \$6,000,000							
S Easton Pond Dam Imprv - North & West Embank		3,000,000	3,000,000				
	\$ -	\$ 3,000,000	\$ 3,000,000	\$ -	\$ -	\$ -	\$ -
2010 SRF A \$6,725,950							
TR City Agent for New LVWTP & Sta1 Imprv		866,200	1,846,960	912,790	500,000	525,000	550,000
TR Professional Services for New Plt & Sta 1 (legal,etc))		350,000	450,000	350,000	125,000	125,000	125,000
	\$ -	\$ 1,216,200	\$ 2,296,960	\$ 1,262,790	\$ 625,000	\$ 650,000	\$ 675,000
2010 SRF B \$3,393,048							
TD Distribution Main Improvements (System-wide)			3,093,048	300,000	-	-	
	\$ -	\$ -	\$ 3,093,048	\$ 300,000	\$ -	\$ -	\$ -
2011 SRF A \$10,800,000							
TRN Station 1 - Additional Pretreatment/Clarification Train(DB/Constr)				2,500,000	5,806,000	2,494,000	
	\$ -	\$ -	\$ -	\$ 2,500,000	\$ 5,806,000	\$ 2,494,000	\$ -
2011 SRF B \$8,600,000							
S Main from Gardiner to Paradise				1,600,000			
TD Distribution Main Improvements (System-wide)					3,200,000	300,000	3,500,000
	\$ -	\$ -	\$ -	\$ 1,600,000	\$ 3,200,000	\$ 300,000	\$ 3,500,000
2012 SRF A \$38,739,000							
TRL Lawton Valley WTP - New WTP (DB/Constr)					8,910,000	24,405,000	5,424,000
	\$ -	\$ -	\$ -	\$ -	\$ 8,910,000	\$ 24,405,000	\$ 5,424,000
Total Debt Funded Capital	\$ 3,760,219	\$ 5,900,754	\$ 9,770,008	\$ 6,562,790	\$ 18,541,000	\$ 27,849,000	\$ 9,599,000

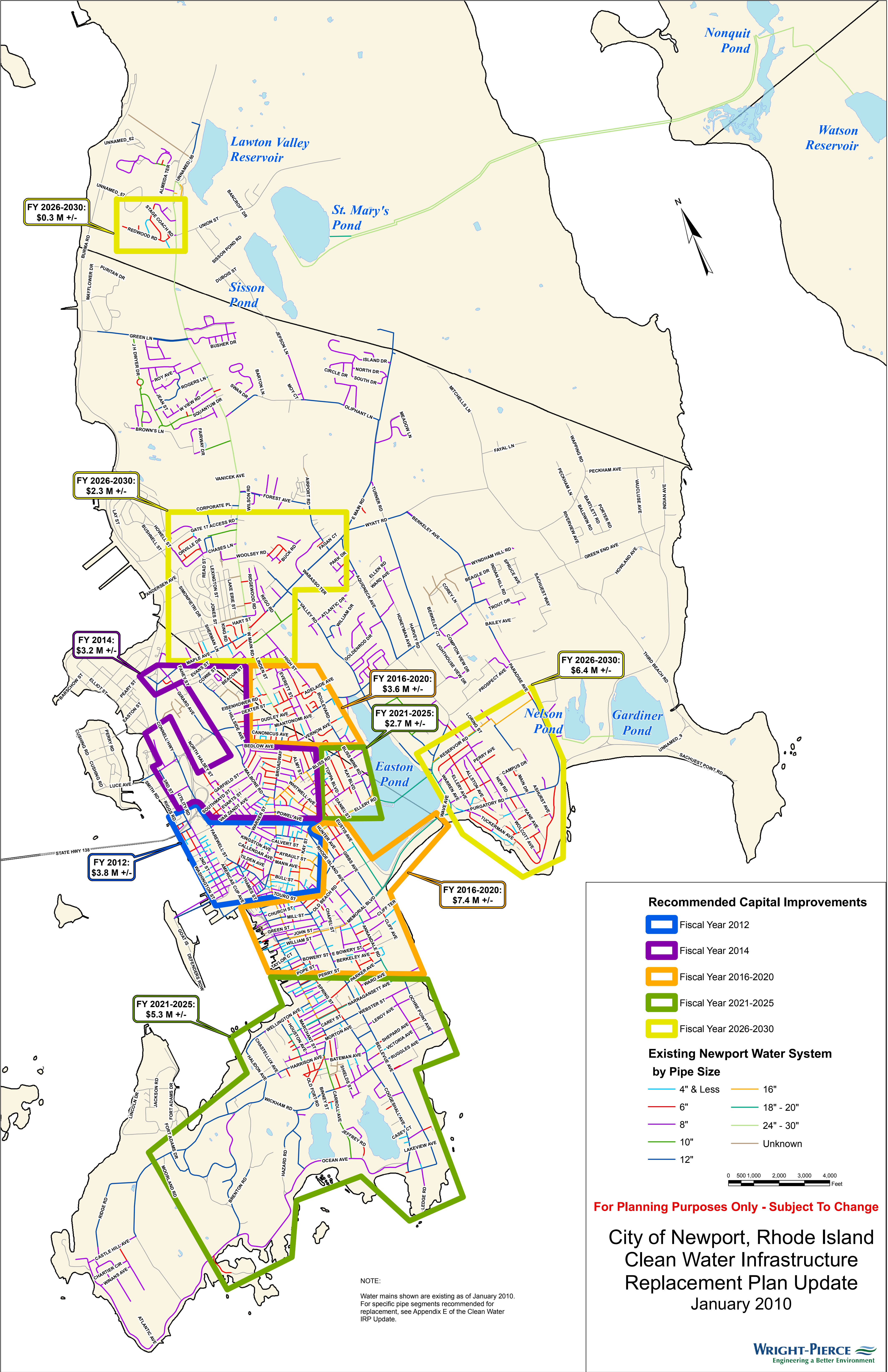
City of Newport, Rhode Island
FY 2010 Rate Filing
Capital Improvement Plan

RFC Schedule 4 Compliance

Rate Funded Capital		2007-2008	2009	Rate Year 2010	2011	2012	2013	2014
S	Safe Yield Study		124,660					
TD	GIS and Hydraulic Modeling		200,000	90,000				
TD	IRP Update- RIDOH due Jan 2010			80,000				
S	Water Quality Protection Plan Update- RIWRB			80,000				
S	WSSMP 5 year Update- RIWRB due July 2012				80,000			
S	Easton Pond Dam Imprv - North & West Embank	76,481						
S	Maguire Amen #11 Sediment Assess prop for NOV-CA	1,155	770					
S	Sediment Assessment - Lawton Brook		25,000	35,000				
S	Maguire Amend #9- assist with NOV- CA		1,680					
S	LVWTP RIPDES CA- Constructed Wetlands;Maguire Amend #12	9,250	9,250					
S	Constucted Wetlands/Flow Diversion		197,500					
S	Main from Gardiner to Paradise			150,000				
S	Intake at Paradise				190,000			
S	Intake at Watson & Nonquit			-	250,000			
S	Intake at Sissons				50,000			
S	Demolition of Old Nonquit Pump Sta			125,000				
S	Dam and Dike Rehabilitation - Lawton Valley				100,000	800,000		
S	Dam and Spillway Rehabilitation - Station 1						250,000	
TRL	Lawton Valley WTP - Chloramine Conversion Design	75,988	62,400	30,410				
TRL	Lawton Valley Water Age Study	23,968						
TRL	LVWTP pH design	17,188	1,441					
TRN	Station 1 - Chloramine Conversion Design	75,988	62,400	30,410				
TRN	Sta 1 pH design	17,188	1,441					
TR	City Agent for New LVWTP & Sta1 Imprv							
S	Ocean Ave Water project (closeout0	469,316						
S	Distribution Main Iprov.(Sherman St) Design & Construct			156,952				
S	Meter Replacement	59,400	61,776	64,247	66,817	69,490	72,269	
S	Forest Ave Pump Sta Imprv.			-	250,000			
CS	Water Trench Restoration	57,580	67,600	75,000	78,000	81,120	84,365	
F	Fire Hydrant Replacement			17,000	17,000	18,000	18,000	
ST	LV 4 Mgal resrv Aeration- Design & Constr	4,718	17,000	-	-			
M	Equipment and Vehicle Replacement	184,056	93,300	118,000	160,000	199,000	92,000	
M	Fire Code Upgrades		75,000					
Gross Rate Funded Capital		\$ 1,072,276	\$ 1,001,218	\$ 1,052,019	\$ 1,241,817	\$ 1,167,610	\$ 516,634	\$ -
Funding From Reserves		\$ -	\$ -	\$ -			\$	-
Net Rate Funded Capital		\$ 1,072,276	\$ 1,001,218	\$ 1,052,019	\$ 1,241,817	\$ 1,167,610	\$ 516,634	\$ -
Total Capital Project Costs		\$ 4,832,495	\$ 6,901,972	\$ 10,822,027	\$ 7,804,607	\$ 19,708,610	\$ 28,365,634	\$ 9,599,000

APPENDIX F

CITY OF NEWPORT, RHODE ISLAND SYSTEM-WIDE DISTRIBUTION MAP RECOMMENDED IMPROVEMENTS BY FISCAL YEAR [FOR PLANNING PURPOSES ONLY]



**STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION
DOCKET NO. 4243
Response Of The City Of Newport,
Utilities Division, Water Department
To The Portsmouth Water and Fire District's
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Set 1**

PWFD 1-18: For the Projects listed for FY 2005-2010 in the January 31, 2005 Infrastructure Replacement Report, Table 3-1, please indicate the status of each of these and how much had been spent through June 30, 2010 on each project. If additional or new projects were added, please identify these projects and the amount spent on them each of the years FY 2005 – FY 2010.

Response: The attached schedule indicates the status of each project listed in Table 3-1 of the January 31, 2005 Infrastructure Replacement Report with spending through June 30, 2010. Additional projects not included on the 2005 list have been identified on the list.

Prepared by: K. Mason

City of Newport - Utilities Department Water Division Docket No. 4243
PWFD 1-18

Project ID - Table 3-1 2005 IRP	Status	Amount Expended Through 6-30-10
Safe Yield Study	Complete	\$124,400.00
GIS & Hydraulic Modeling	95% complete	\$263,007.00
Infrastructure Repalcement Plan	Complete	\$46,493.70
Easton Pond Dam and Moat Study	Complete	\$187,764.00
Lawton Valley Raw Water Main Replacement	Complete	\$1,258,442.00
Lawton Valley Reservoir Intake - Bottom Sluice Gate	Complete	\$191,630.00
Intake at Gardiner Pond	Complete	\$98,145.00
Main from Gardiner to Paradise Pond	Design contract awarded FY11	\$0.00
Intake at Paradise	Assessment complete FY11. Design in progress	\$0.00
LVWTP Chloramine Conversion	See below	
LVWTP Residuals Management	Complete	\$1,258,442.00
LVWTP Chemical Feed	See below	
LVWTP SCADA	Project not completed	
Station 1 Chloramine Conversion	See below	
Station 1 Additional Pretreatment/Clarification Train	Work included with City Advisor for new LVWTP	
Station 1 General Improvements	Work included with City Advisor for new LVWTP	
Station 1 UV	Project not completed	
Distribution Main Improvements		
Ocean Ave. Phase 2 Construction / Oversight and Phase 3 design	FY2006 - Complete	\$156,241.00
Ocean Ave. Phase 3 Construction/ Design	FY2007	\$1,522,863.00
Ocean Ave. Phase 3 Construction	FY2008 - Complete	\$203,385.00
Water Main Improvements Phase 1 design	FY2009 - Complete	\$105,444.00
Water Main Improvements Phase 1 Construction and oversight	FY2010 - Ongoing	\$548,406.00
Remote Radio Read Pilot	Complete	\$19,858.00
Leak Detection Equipment	Complete	\$29,900.00
Meter Replacement		
	FY2006	\$33,720.00
	FY2007	\$9,486.00
	FY2008	\$59,341.00
	FY2009	\$67,323.00
	FY2010	\$54,256.00
Water Trench Restoration		
	FY2006	\$53,899.00
	FY2007	\$0.00
	FY2008	\$52,811.00
	FY2009	\$64,688.00
	FY2010	\$68,365.00
Fire Hydrant Replacement		
	FY2006	\$38,720.00
	FY2010	\$14,447.00
Finished Water Storage Tank Maintenance		
Reservoir Road Tank Design and Contract Admin	Complete	\$30,537.00
Reservoir Road Tank Construction	Complete	\$443,675.00
Goulart Lane Tank Design and Contract Admin	Complete	\$46,700.00

City of Newport - Utilities Department Water Division Docket No. 4243
PWFD 1-18

Project ID - Table 3-1 2005 IRP	Status	Amount Expended Through 6-30-10
Goulart Lane Tank Construction	Complete	\$553,200.00
Vehicle and Equipment Replacement		
	FY2006	\$103,349.00
	FY2007	\$36,044.00
	FY2008	\$109,600.00
	FY2009	\$70,340.00
	FY2010	\$94,868.00
Fire Code Upgrades	Complete	\$35,253.00

Additional/New Projects

Lawton Valley Reservoir Aeration Project	Complete	\$91,000.00
LVWTP Sedimentation Basin #1 Repairs	Complete	\$318,376.00
Water Quality/Source Water Assessment	Complete	\$18,727.00
Sherman Street Water/Utilities - Design	Complete	\$15,227.00
Treatment Plant Short Term Improvments-Chloramine Conversion	Ongoing	\$447,618.00
pH Project design CDM Amendment 1	Complete	\$108,400.00
pH Project Construction	Complete	\$550,700.00
Water Age Study - CDM Amendment 2	Complete	\$46,730.00
Radio Read Metering System	Ongoing	\$1,679,670.00
Mixing System LV 4Mgal Reservoir - Design	Complete	\$13,409.00
New LVWTP/Sta. 1 upgrades City Advisor Phase 1	Complete	\$116,200.00
New LVWTP/Sta. 1 upgrades City Advisor Amendment 1 Phases 2-4	Ongoing	\$621,332.00
New LVWTP/Sta. 1 upgrades City Advisor Amendment 2 Phases 2-4	Ongoing	\$1,023,995.00
New LVWTP/Sta. 1 upgrades City Advisor Amendment 3 Phases 2-5	Ongoing	\$0.00
Legal Services - DB Project	Ongoing	\$11,630.00
Financial Services - DB Project	Ongoing	\$3,575.00
Easton Pond Embankment Repair and Modification - Design	Ongoing	\$196,765.00
Easton Pond Embankment Repair and Modification Design Amend. 1	Ongoing	\$17,388.00
Demolition of Old Nonquit Pump Station	Ongoing	\$2,800.00

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CERTIFICATION

I hereby certify that on May 27, 2011, I sent by electronic mail a copy of the within to Service List herein below, and mailed one original and nine copies to Luly Massaro, Clerk, Rhode Island Public Utilities Commission.

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**STATE OF RHODE ISLAND
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