

OFFICIAL
EXHIBITS

STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

PETITION OF INDIANA-AMERICAN WATER)
COMPANY, INC. FOR APPROVAL OF (A) A NEW)
DISTRIBUTION SYSTEM IMPROVEMENT)
CHARGE ("DSIC") PURSUANT TO IND. CODE)
CHAP. 8-1-31; (B) A NEW RATE SCHEDULE)
REFLECTING THE DSIC; AND (C) INCLUSION OF)
THE COST OF ELIGIBLE DISTRIBUTION)
SYSTEM IMPROVEMENTS IN ITS DSIC)

CAUSE NO. 42351 DSIC 13

IURC
PUBLIC'S

PUBLIC'S EXHIBIT NO. 2

EXHIBIT NO. 2
3-7-22 AT
DATE REPORTER

TESTIMONY OF CARL N. SEALS

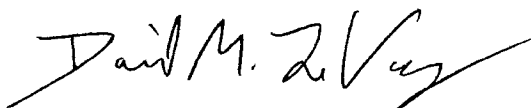
ON BEHALF OF

THE INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

FEBRUARY 18, 2022

Respectfully submitted

INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR



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TESTIMONY OF OUCC WITNESS CARL N. SEALS
CAUSE NO. 42351 DSIC 13
INDIANA AMERICAN WATER COMPANY, INC.

I. INTRODUCTION

1 **Q: Please state your name and business address.**

2 A: My name is Carl N. Seals, and my business address is 115 West Washington Street, Suite
3 1500 South, Indianapolis, Indiana 46204.

4 **Q: By whom are you employed and in what capacity?**

5 A: I am employed by the Indiana Office of Utility Consumer Counselor ("OUCC") as the
6 Assistant Director in the Water/Wastewater Division. My qualifications and experience are
7 set forth in Appendix A.

8 **Q: What is the purpose of your testimony?**

9 A: My testimony will examine 1) DSIC spending per customer by district and 2) Indiana
10 American Water Company, Inc.'s ("Indiana American") average cost of hydrant
11 replacement, as compared to other utilities.

12 **Q: Please describe the review and analysis you conducted to prepare your testimony.**

13 A: I reviewed Indiana American's Petition and testimony of its witnesses, Stacy S. Hoffman
14 and Gregory D. Shimansky. I reviewed Indiana American's responses to OUCC Data
15 Requests.

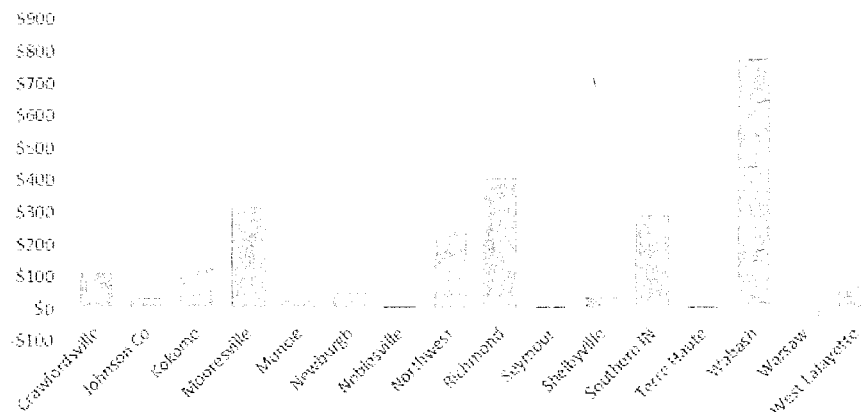
16 **Q: Does your testimony include attachments?**

17 A: Yes. My testimony includes the following attachments:
18 ○ OUCC Attachment CNS-1 – Data responses regarding hydrant replacements;
19 ○ OUCC Attachment CNS-2 – Hydrant replacement costs, other utilities; and
20 ○ OUCC Attachment CNS-3 – Excerpts of Indiana American testimony.

1 **Q: How do Indiana American's per customer DSIC expenditures compare across**
2 **districts?**

3 **A:** For purposes of this comparison, Indiana American has sixteen districts. I prepared the
4 table below to compare Indiana American's spending per customer on non-blanket DSIC
5 eligible expenditures among the districts. The table shows DSIC 13 spending per customer
6 on non-blanket DSIC eligible expenditures varied from a low of \$10 per customer
7 (Noblesville, Seymour) to a high of \$784 per customer (Wabash). Average DSIC spending
8 across all districts was \$157 per customer.¹

Table 1
DSIC 13 Spend per Cust



9 **Q: Does this information indicate a trend?**

10 **A:** The expenditures in one DSIC case does not indicate a trend. It may be expected that over
11 time investments per customer in each district would be more evenly distributed. Again,
12 all customers paying a DSIC will pay the same DSIC charge. While investment dollars
13 may not be a precise indicator of the benefits received by customers in each district, it may
14 be a useful benchmark for purposes of comparison. (Note: The table above only includes

¹ Warsaw experienced a negative spend per customer.

1 non-blanket expenditures because Indiana American does not present its blanket
2 expenditures on a per district basis in its DSIC applications.)

3 **Q: What do you believe should be done with this benchmark?**

4 A: Going forward I believe this benchmark should be tracked and reported in each of Indiana
5 American's DSIC filings for current and prior DSIC's. In this way, the Commission can
6 observe and potentially respond to any trends showing potential inequities in per customer
7 spending by district.

8 **Q: Why are you examining Indiana American's average cost of hydrant replacement?**

9 A: Indiana American's testimony and responses to data requests, indicate a high average cost
10 per hydrant replacement in 2020 and 2021.

11 **Q: What was Indiana American's average cost of hydrant replacement for 2020 and**
12 **2021?**

13 A: As shown in Table 2, the average cost of hydrant replacement for the two-year period was
14 \$13,847 per hydrant.²

Table 2

	2020	2021	combined
hydrant replacement cost	4,360,603	4,556,705	8,917,308
hydrant replacement count	340	304	644
cost per hydrant	12,825	14,989	13,847

15 **Q: Did you compare this cost with the hydrant replacement cost of other utilities?**

16 A: Yes. I searched the internet for recent information about hydrant installation and hydrant
17 replacement costs, including news articles, bid tabulations and reports. Although Indiana
18 American includes replacement of hydrants in its DSIC application, I included hydrant
19 *installation* in my search because the cost of purchasing and installing a new hydrant

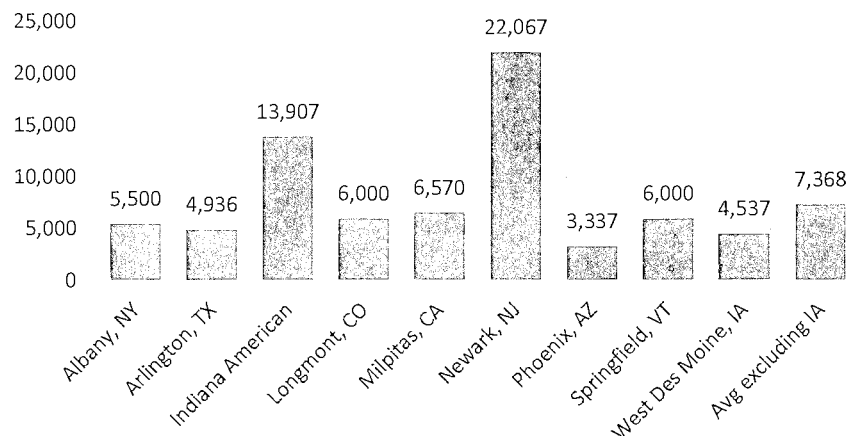
² See OUCC Attachment CNS-1 for Indiana American responses to data requests regarding hydrant replacement costs and counts.

should be very similar to the cost of replacing an existing hydrant. The only cost that would not be included would be physical removal costs and bid tabs I reviewed showed the itemized removal costs to be a small portion of the total cost and in no case more than \$1,000.

Q: What did this research into the cost of hydrant replacement reveal?

A: Indiana American's cost of hydrant replacement is the second highest of those identified and is 1.89 times the average of the non-Indiana American records that I was able to locate.³ Only one location showed a higher cost, and that appears to have been at least in part due to a failure to bid that specific portion of the project.⁴ The Table below compares these costs.

Table 3
Hydrant Replacement
Costs



³ Excluding Newark, NJ, which was not bid and therefore may not be representative, the average cost was \$5,269 per hydrant.

⁴ See OUCC Attachment CNS-2 for source documentation of hydrant replacement or installation costs.

1 **Q: Does Indiana American have economies of scale that should assist it in installing**
2 **hydrants at less cost to the consumer?**

3 A: Indiana American has indicated in various cases (e.g., Cause Nos. 45290, 45461 and
4 45550) that its purchasing power and business practices enable it to be a more efficient
5 provider of services. I have attached excerpts from testimony and attachments in other
6 cases where Indiana American has referred to the intrinsic economies of scale or
7 efficiencies of its operations in cases before the Commission.⁵ With respect to hydrant
8 replacement, it is unclear how Indiana American's economies of scale have translated into
9 lower construction costs.

10 **Q: What are your recommendations?**

11 A: With respect to Indiana American's DSIC expenditures, I recommend the Commission
12 require Indiana American to track and report current and historical DSIC expenditures per
13 customer and by district and provide that information in its next DSIC application. With
14 respect to hydrant replacement costs, I recommend Indiana American benchmark its
15 hydrant replacement costs and evaluate how it can better use its economies of scale to
16 perform hydrant replacements at lower costs to benefit its more than 300,000 ratepayers.

17 **Q: Does this conclude your testimony?**

18 A: Yes.

⁵ Please see OUCC Attachment CNS-3.

APPENDIX A
QUALIFICATIONS

1 **Q: Please describe your educational background and experience.**

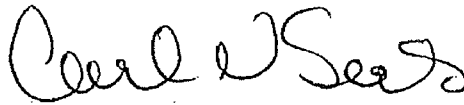
2 A: In 1981 I graduated from Purdue University, where I received a Bachelor of Science degree
3 in Industrial Management with a minor in Engineering. I was recruited by the Union Pacific
4 Railroad, where I served as mechanical and maintenance supervisor and industrial engineer
5 in both local and corporate settings in St. Louis, Chicago, Little Rock and Beaumont,
6 Texas. I then served as Industrial Engineer for a molded-rubber parts manufacturer before
7 joining the Indiana Utility Regulatory Commission ("IURC") as Engineer, Supervisor and
8 Analyst for more than ten years. It was during my tenure at the IURC that I received my
9 Master of Health Administration degree from Indiana University. After the IURC, I worked
10 at Indiana-American Water Company, initially in their rates department, then managing
11 their Shelbyville operations for eight years, and later served as Director of Regulatory
12 Compliance and Contract Management for Veolia Water Indianapolis. I joined Citizens
13 Energy Group as Rate & Regulatory Analyst following the October 2011 transfer of the
14 Indianapolis water utility and joined the Office of Utility Consumer Counselor in April of
15 2016. In March 2020 I was promoted to my current position of Assistant Director of the
16 Water and Wastewater Division. In summary, in addition to working in manufacturing and
17 transportation, I have been working in or with utilities since 1988, or nearly 35 years.

18 **Q: Have you previously testified before the Indiana Utility Regulatory Commission?**

19 A: Yes. I have testified in telecommunications, water and wastewater utility cases before the
20 Commission.

AFFIRMATION

I affirm the representations I made in the foregoing testimony are true to the best of my knowledge, information, and belief.

A handwritten signature in black ink, appearing to read "Carl N. Seals". The signature is fluid and cursive, with the first name "Carl" being more prominent than the last name "Seals".

By: Carl N. Seals
Cause No. 42351 DSIC-13
Office of Utility Consumer Counselor (OUCC)

Date: February 18, 2022

OUCG DR 2-31

DATA REQUEST
Indiana-American Water Company, Inc.

Cause No. 42351 DSIC-13

Information Requested:

Please state the dollar amount of hydrants replaced (NARUC Account 335) for each calendar year 2020 and 2021.

Objection:

Petitioner objects to the request on the grounds and to the extent it seeks a compilation or analysis that Petitioner has not performed and which it objects to performing. Petitioner further objects to the request on the grounds and to the extent it is overly broad and unduly burdensome. Petitioner also objects to the request on the grounds and to the extent the request solicits information that exceeds the scope of this proceeding and is not reasonably calculated to lead to the discovery of relevant or admissible evidence. The Commission's administrative rules (170 IAC 6-1.1-1 *et seq.*) provide what information Petitioner is required to submit with its DSIC filing. The information requested for prior years and which is not included in this DSIC-13 proceeding is outside the scope of this proceeding and unduly burdensome given the expedited nature of the proceeding. Petitioner further objects to the requests on the grounds and to the extent it is vague and ambiguous in that it is unclear from the request whether it is asking for dollar amounts recorded in the account listed, or whether the request seeks total spend related to the items listed.

Information Provided:

Subject to and without waiver of the foregoing objections, Petitioner responds as follows:

Hydrant and valve replacements are charged to the same RP WBS line (R10-##F1). Hydrant and valve replacement capital expenditure amounts by calendar year for 2020 and 2021, are provided below. Project expenditures are assigned to appropriate accounts after the projects are placed in service. Breakdown by account has been provided for projects included in this DSIC-13 proceeding. The Company doesn't have breakdown by account readily available for prior years or for work not included in this DSIC-13 Cause.

2020: \$4,360,603

2021: \$4,556,705

OUCC DR 2-32

DATA REQUEST
Indiana-American Water Company, Inc.

Cause No. 42351 DSIC-13

Information Requested:

Please state the number of hydrants replaced (NARUC Account 335) for each calendar year 2020 and 2021.

Objection:

Petitioner objects to the request on the grounds and to the extent it seeks a compilation or analysis that Petitioner has not performed and which it objects to performing. Petitioner further objects to the request on the grounds and to the extent it is overly broad and unduly burdensome. Petitioner also objects to the request on the grounds and to the extent the request solicits information that exceeds the scope of this proceeding and is not reasonably calculated to lead to the discovery of relevant or admissible evidence. The Commission's administrative rules (170 IAC 6-1.1-1 et seq.) provide what information Petitioner is required to submit with its DSIC filing. The information requested for prior years and which is not included in this DSIC-13 proceeding is outside the scope of this proceeding and unduly burdensome given the expedited nature of the proceeding. Petitioner further objects to the requests on the grounds and to the extent it is vague and ambiguous in that it is unclear from the request whether it is asking for dollar amounts recorded in the account listed, or whether the request seeks total spend related to the items listed.

Information Provided:

Subject to and without waiver of the foregoing objections, Petitioner responds as follows:

Hydrants replaced in 2020 was 340

Hydrants replaced in 2021 was 304

**ALBANY WATER BOARD
SCHEDULE OF PROPOSED RATE STRUCTURE
PROPOSED TO BE EFFECTIVE JANUARY 1, 2021**

	RESIDENTIAL/ COMMERCIAL RATE (A) (per 100 cf)	TIER I LARGE USER RATE (B) (per 100 cf)	TIER II LARGE USER RATE (B) (per 100 cf)	VACANT PROPERTY (per front foot, per year)
Rates Prior to January 1, 2020	\$2.72	\$4.95	\$5.94	\$2.46
Rates through December 31, 2020	\$2.79	\$5.07	\$6.09	\$2.52
Rates Effective January 1, 2021	\$2.89	\$5.25	\$6.30	\$2.61

----- SEWER CHARGE IS BILLED AT 100% OF ABOVE WATER RATES -----

- (A) *The minimum water charge for residential customers will be increased 3.5% from \$36.50 per 120 day billing cycle to \$37.78 per 120 day billing cycle.*
- (B) *A Tier I large user customer is defined as a customer who utilizes in excess of 120,000 cubic feet of water per month. A Tier II large user customer is defined as a customer who utilizes in excess of 600,000 cubic feet of water per month. Tier I and Tier II large user rates apply to all water usage for those customers who meet the user definition.*
- (C) *A 1% monthly finance charge (or 12% annually) is currently charged on any unpaid accounts (those not paid within 30 days of the date billed) based on the average monthly balance of the account.*
- (D) *A one-time penalty of 5% is currently charged to all accounts not paid within 30 days of the initial date of billing. An additional penalty of 5% is currently charged to all accounts delinquent as of November 15 of each year and, as such, subject to rollover and collection by the City of Albany on the City's general taxes.*
- (E) *Albany's water measurements, billings and rates are expressed in units of 100 cubic feet (cf). Approximately 1 cf is equivalent to 7.48 gallons; approximately 100 cf is equivalent to 748 gallons.*
- (F) *Certain senior citizen residential owners, meeting age and income limitations, are provided (upon application) discounts on the usage rates detailed in the above table.*
- (G) *For users outside the City of Albany's municipal borders who do not have an inter-municipal water purchase agreement, the water rates are effective at 1.5 times the usage rates detailed in the above table.*

ALBANY WATER BOARD
SCHEDULE OF COST RECOVERY AND OTHER COMMERCIAL RATES
EFFECTIVE JANUARY 1, 2021

Air Conditioning (Annual)

Recirculating	\$19.50/H.P.
Non-recirculating	\$94.00/H.P.

Refrigeration (applies to existing services only)

Recirculating	\$19.50/Ton
Non-recirculating	\$94.00/H.P.

Fire Service/Sprinklers (Annual)

3" service or less	\$185.00
4" service	\$300.00
6" service	\$550.00
8" service	\$730.00
Over 8" service	\$1,100.00

Fire Hydrant Charges

Base permit charge for up to 5,000 gallons (up to 10 calendar days)	\$500.00
Charge for each additional day (beyond 10 days)	\$50.00
Charge for each 1,000 gallons (over 5,000 gallons)	\$7.30
Fire hydrant meter deposit	\$500.00
Fire hydrant meter back flow valve (city owned) deposit	\$200.00
Daily use fee (up to 10 calendar days)	\$10.00
Charge for each additional day beyond (10 calendar days)	\$20.00
Fire hydrant meter back flow valve (private owned) inspection only	\$50.00
Unauthorized hydrant use fee/penalty	\$1,500.00

Closing Meter Reading Charge

A charge of \$50.00 will be made for each closing reading taken by Water Department personnel.

Fire Flow Charges

\$350.00 each test.

Turn On/Shut Off Charges

Curb box \$40.00; branch valve \$55.00 (4" or larger).

Missed Appointment Charge

A charge of \$50 will be assessed for any missed appointment/no show (after the second attempt).

Denial of Access Charge

A charge of \$250.00 will be assessed for denial of access to replace, repair, inspect, or otherwise access Water and Sewer devices and equipment that may be located at private residences.

Theft of Services Charge

A charge of \$650.00, plus value of services stolen, will be assessed to property owners who receive water that is not recorded by the meter. This includes tampering with the meter and/or bypassing the meter.

Other

Charges for labor and materials, for work performed on private property pursuant to a signed consent form, will be billed at the Department of Water and Water Supply's direct costs, plus a 30% overhead fee.

**ALBANY WATER BOARD
SCHEDULE OF MATERIAL AND LABOR FEES
EFFECTIVE JANUARY 1, 2021**

Tapping Charges

3/4"	\$500.00
1"	\$600.00
1 1/2"	\$700.00
2"	\$800.00
4"	\$1,000.00
6"	\$1,250.00
8"	\$1,500.00
12"	\$1,750.00

All tapping rates include material and equipment charges.

Fees on Water Meters

Meter with Orion Head 5/8"	\$250.00
Meter with Orion Head 1"	\$425.00
Meter with Orion Head 1-1/2"	\$750.00
Meter with Orion Head 2"	\$1,050.00
Meter only: 5/8"	\$100.00
Meter only: 1"	\$275.00
Meter only: 1-1/2"	\$600.00
Meter only: 2"	\$900.00
Orion Head only: 5/8" through 2"	\$150.00

Fees on water meters are based upon current market conditions and are subject to change. Please call for current prices of meters or heads in excess of 2".

Due to uncertain freight costs, the Albany Water Board reserves the right to adjust the costs for meters and heads.

**ALBANY WATER BOARD
SCHEDULE OF MATERIAL AND LABOR FEES
EFFECTIVE JANUARY 1, 2021**

Frozen meter replacements

Customer will be charged for the cost of a new meter, for the size currently in place, plus labor and materials:

- Labor charge during working hours: \$175.00 (Plus cost of meter)
- Labor charge during non-working hours: \$260.00 (Plus cost of meter)

Water Service Repair Charges/Termination

¾" up to 1" service repair	\$4,750.00
1 ¼" up to 2" service repair	\$5,200.00

Fire Branch and Private Water Main Repair Charges

4"	\$5,000.00
6"	\$5,250.00
8"	\$5,500.00

Other Fees/Charges

Base permit fee on all water and sewer applications: \$50.00

New sewer connection fees:

Residential	\$160.00
Commercial	\$370.00
Industrial	\$700.00

Hydrant Repair/Replacement Fees:

Repair	\$500.00 (plus materials)
Replacement	\$5,500.00

Meter Selection:

All meters shall be selected for a minimum 95% accuracy at anticipated low flows. Meter selection and cross-connection control device selection shall be reviewed and approved by the Department of Water and Water Supply.

BID TABULATION REPORT

2017 Water Main Renewal, City of Arlington				Murphy Pipeline Contractors Inc.				Portland Utilities Construction Co., LLC				Reyes Group, Ltd.				Omega Contracting, Inc.				Jackson Construction, Ltd.				Gra-Tec Utilities, Inc.				Alkins Brothers Equipment Co., Inc.				Ark Contracting Services			
Project No. W10457612 Bidding Period 8/19/2017 to 10/01/2017				Jacksonville, Florida				Portland, Tennessee				Grand Prairie, Texas				Dallas, Texas				Fort Worth, Texas				Arlington, Texas				Midland, Texas				Kenselville, Texas			
ITEM	DESCRIPTION	UNITS	QTY	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST	UNIT PRICE	TOTAL COST						
101	Mobilization & Bonds	LS	1	\$	-	\$	-	\$	80,000.00	\$	80,000.00	\$	80,000.00	\$	80,000.00	\$	80,000.00	\$	80,000.00	\$	80,000.00	\$	80,000.00	\$	80,000.00	\$	80,000.00	\$	80,000.00						
102	SWPPP	LS	1	\$	-	\$	-	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00	\$	20,000.00						
103	Furnish & Install 8-inch PVC Water Line C-600 (DR-18) by open cut	LF	18,200	\$	-	\$	-	\$	71.00	\$	1,292,200.00	\$	62.00	\$	1,128,400.00	\$	115.00	\$	2,083,000.00	\$	130.00	\$	2,366,000.00	\$	110.00	\$	1,998,000.00	\$	110.00						
104	Furnish & Install 6-inch PVC Water Line C-600 (DR-18) by open cut	LF	1,120	\$	-	\$	-	\$	57.00	\$	63,840.00	\$	57.00	\$	63,840.00	\$	115.00	\$	128,800.00	\$	110.00	\$	123,200.00	\$	110.00	\$	123,200.00	\$	110.00						
105	Furnish & Install 8-inch PVC Water Line C-600 by bore	LF	145	\$	-	\$	-	\$	275.00	\$	39,875.00	\$	290.00	\$	42,550.00	\$	470.00	\$	68,150.00	\$	450.00	\$	65,250.00	\$	450.00	\$	65,250.00	\$	450.00						
106	Furnish & Install, Maintain, and Remove Temporary 8-inch HDPE Water Line	LF	500	\$	-	\$	-	\$	54.50	\$	27,250.00	\$	75.00	\$	37,500.00	\$	45.00	\$	22,500.00	\$	80.00	\$	40,000.00	\$	80.00	\$	40,000.00	\$	80.00						
107	Furnish & Install, Maintain, and Remove Minimum 6-inch Temporary Fire Service	EA	5	\$	-	\$	-	\$	4,500.00	\$	22,500.00	\$	5,284.00	\$	26,420.00	\$	2,560.00	\$	12,800.00	\$	3,500.00	\$	17,500.00	\$	3,500.00	\$	17,500.00	\$	3,500.00						
108	Furnish and Install 8-inch Resilient Wedge Gate Valve	EA	65	\$	-	\$	-	\$	2,050.00	\$	133,250.00	\$	2,040.00	\$	132,600.00	\$	1,500.00	\$	97,500.00	\$	1,750.00	\$	113,750.00	\$	1,750.00	\$	113,750.00	\$	1,750.00						
109	Furnish and Install 6-inch Resilient Wedge Gate Valve	EA	55	\$	-	\$	-	\$	1,800.00	\$	99,000.00	\$	1,777.00	\$	97,735.00	\$	1,100.00	\$	60,500.00	\$	1,200.00	\$	66,000.00	\$	1,200.00	\$	66,000.00	\$	1,200.00						
110	Abandon Existing Gate Valve & Box	EA	45	\$	-	\$	-	\$	300.00	\$	13,500.00	\$	385.00	\$	17,275.00	\$	150.00	\$	6,750.00	\$	350.00	\$	15,750.00	\$	350.00	\$	15,750.00	\$	350.00						
111	Remove & Dispose Existing Gate Valve at the locations conflict with pavement subgrade	EA	10	\$	-	\$	-	\$	1,050.00	\$	10,500.00	\$	987.50	\$	9,875.00	\$	1,500.00	\$	15,000.00	\$	1,500.00	\$	15,000.00	\$	1,500.00	\$	15,000.00	\$	1,500.00						
112	Furnish & Install Lead Free Fire Hydrant Assembly	EA	35	\$	-	\$	-	\$	3,000.00	\$	105,000.00	\$	4,212.00	\$	147,420.00	\$	4,000.00	\$	140,000.00	\$	3,600.00	\$	126,000.00	\$	3,600.00	\$	126,000.00	\$	3,600.00						
113	Remove & Dispose Existing Fire Hydrant	EA	35	\$	-	\$	-	\$	500.00	\$	17,500.00	\$	724.00	\$	25,340.00	\$	1,000.00	\$	35,000.00	\$	425.00	\$	14,875.00	\$	425.00	\$	14,875.00	\$	425.00						
114	Relocate & Adjust Existing 14-inch or 16-inch AMI Water Meter to Final Grade & Location	EA	147	\$	-	\$	-	\$	980.00	\$	144,060.00	\$	1,053.00	\$	154,791.00	\$	750.00	\$	110,250.00	\$	320.00	\$	47,040.00	\$	320.00	\$	47,040.00	\$	320.00						
115	Replace Existing Meter with City Furnished 1-inch or 1/2-inch AMI Meter	EA	38	\$	-	\$	-	\$	1,100.00	\$	41,800.00	\$	1,110.00	\$	42,180.00	\$	450.00	\$	17,100.00	\$	150.00	\$	5,700.00	\$	150.00	\$	5,700.00	\$	150.00						
116	Replace Existing Meter Box with City Furnished 1-inch Meter Box	EA	185	\$	-	\$	-	\$	275.00	\$	50,875.00	\$	277.00	\$	51,245.00	\$	260.00	\$	48,300.00	\$	165.00	\$	30,525.00	\$	165.00	\$	30,525.00	\$	165.00						
117	Furnish & Install 1-inch Bullhead Water Service from Main to Meter per Detail	EA	1	\$	-	\$	-	\$	1,500.00	\$	1,500.00	\$	1,448.00	\$	1,448.00	\$	2,700.00	\$	2,700.00	\$	1,800.00	\$	1,800.00	\$	1,800.00	\$	1,800.00	\$	1,800.00						
118	Furnish & Install 1-inch Short Water Service from Main to Meter	EA	80	\$	-	\$	-	\$	1,150.00	\$	92,000.00	\$	1,110.00	\$	89,200.00	\$	850.00	\$	68,000.00	\$	1,300.00	\$	104,000.00	\$	1,300.00	\$	104,000.00	\$	1,300.00						
119	Furnish & Install 1-inch Long Water Service from Main to Meter	EA	103	\$	-	\$	-	\$	1,150.00	\$	118,450.00	\$	1,053.00	\$	108,459.00	\$	2,300.00	\$	236,900.00	\$	1,700.00	\$	175,100.00	\$	1,700.00	\$	175,100.00	\$	1,700.00						
120	Relocate & Adjust Existing 2-inch or 1-1/2-inch AMI Water Meter to Final Grade & Location	EA	15	\$	-	\$	-	\$	1,900.00	\$	28,500.00	\$	1,974.00	\$	29,610.00	\$	800.00	\$	12,000.00	\$	800.00	\$	7,500.00	\$	800.00	\$	7,500.00	\$	800.00						
121	Replace Existing Meter with City Furnished 2-inch or 1-1/2-inch AMI Meter	EA	9	\$	-	\$	-	\$	2,300.00	\$	20,700.00	\$	2,370.00	\$	21,330.00	\$	450.00	\$	4,050.00	\$	500.00	\$	4,500.00	\$	500.00	\$	4,500.00	\$	500.00						
122	Replace Existing Meter Box with City Furnished 2-inch Meter Box	EA	24	\$	-	\$	-	\$	500.00	\$	12,000.00	\$	527.00	\$	12,648.00	\$	200.00	\$	4,800.00	\$	300.00	\$	7,200.00	\$	300.00	\$	7,200.00	\$	300.00						
123	Furnish & Install 2-inch Short Water Service from Main to Meter	EA	17	\$	-	\$	-	\$	2,300.00	\$	39,100.00	\$	2,368.00	\$	40,273.00	\$	1,400.00	\$	23,800.00	\$	2,500.00	\$	42,500.00	\$	2,500.00	\$	42,500.00	\$	2,500.00						
124	Furnish & Install 2-inch Long Water Service from Main to Meter	EA	7	\$	-	\$	-	\$	2,300.00	\$	16,100.00	\$	2,567.00	\$	17,869.00	\$	2,800.00	\$	19,600.00	\$	2,700.00	\$	16,650.00	\$	2,700.00	\$	16,650.00	\$	2,700.00						
125	Furnish & Install 4-inch PVC C-800 Water Service from Main to Meter	EA	4	\$	-	\$	-	\$	1,800.00	\$	7,200.00	\$	1,580.00	\$	6,320.00	\$	3,000.00	\$	12,000.00	\$	3,000.00	\$	12,000.00	\$	3,000.00	\$	12,000.00	\$	3,000.00						
126	Remove Existing 4-inch Meter Vault, Furnish & Install 4-inch Meter Vault and Adjust Meter Assembly	EA	1	\$	-	\$	-	\$	12,500.00	\$	12,500.00	\$	1,874.00	\$	1,874.00	\$	14,000.00	\$	14,000.00	\$	9,800.00	\$	9,800.00	\$	9,800.00	\$	9,800.00	\$	9,800.00						
127	Remove Existing 3-inch Meter Vault and Replace with 2-inch Meter Box	EA	4	\$	-	\$	-	\$	1,700.00	\$	6,800.00	\$	1,777.00	\$	7,108.00	\$	4,000.00	\$	16,000.00	\$	5,000.00	\$	20,000.00	\$	5,000.00	\$	20,000.00	\$	5,000.00						
128	Connect to Existing 12-inch Water Line, Gate Valve, Tee or Cross	EA	5	\$	-	\$	-	\$	800.00	\$	4,000.00	\$	856.00	\$	4,280.00	\$	3,000.00	\$	15,000.00	\$	5,000.00	\$	25,000.00	\$	5,000.00	\$	25,000.00	\$	5,000.00						
129	Connect to Existing 8-inch and 8-inch Water Line, Gate Valve, Tee or Cross	EA	55	\$	-	\$	-	\$	1,400.00	\$	77,000.00	\$	1,448.00	\$	79,640.00	\$	2,400.00	\$	132,000.00	\$	1,900.00	\$	104,500.00	\$	1,900.00	\$	104,500.00	\$	1,900.00						
130	Cut & Plug Existing 8-inch to 12-inch Water Line	EA	40	\$	-	\$	-	\$	780.00	\$	31,200.00	\$	1,280.00	\$	51,200.00	\$	1,000.00	\$	40,000.00	\$	1,100.00	\$	44,000.00	\$	1,100.00	\$	44,000.00	\$	1,100.00						
131	Remove & Dispose of Existing Water Line (Including AC pipe)	LF	800	\$	-	\$	-	\$	55.00	\$	44,000.00	\$	73.00	\$	58,400.00	\$	4.00	\$	3,200.00	\$	42.00	\$	33,600.00	\$	42.00	\$	33,600.00	\$	42.00						
132	Furnish & Install Concrete Encasement	LF	100	\$	-	\$	-	\$	45.00	\$	4,500.00	\$	46.00	\$	4,600.00	\$	60.00	\$	6,000.00	\$	70.00	\$	7,000.00	\$	70.00	\$	7,000.00	\$	70.00						
133	Furnish & Install Rock Cushion	TN	20	\$	-	\$	-	\$	45.00	\$	900.00	\$	46.00	\$	920.00	\$	50.00	\$	1,000.00	\$	35.00	\$	700.00	\$	35.00	\$	700.00	\$	35.00						
134	Furnish & Install ADA Compliant Barrier Free Ramp	EA	5	\$	-	\$	-	\$	1,600.00	\$	8,000.00	\$	1,645.00	\$	8,225.00	\$	2,000.00	\$	10,000.00	\$	2,300.00	\$	11,500.00	\$	2,300.00	\$	11,500.00	\$	2,300.00						
135	Furnish G.P.S. Data on New Water & Sanitary Sewer Attributes	LS	1	\$	-	\$	-	\$	10,000.00	\$	10,000.00	\$	13,162.00	\$	26,324.00	\$	26,000.00	\$	26,000.00	\$	4,000.00	\$	4,000.00	\$	4,000.00	\$	4,000.00	\$	4,000.00						
136	Construction Contingency for Water Reuse	LS	1	\$	-	\$	-	\$	150,000.00	\$	150,000.00	\$	150,000.00	\$	150,000.00	\$	150,000.00	\$	150,000.00	\$	150,000.00	\$	150,000.00	\$	150,000.00	\$	150,000.00	\$	150,000.00						
137	Furnish & Install Permanent Pavement Markings	LS	1	\$	-	\$	-	\$	12,500.00	\$	12,500.00	\$	13,200.00	\$	13,200.00	\$	5,000.00	\$	5,000.00	\$	10,000.00	\$	10,000.00	\$	10,000.00	\$	10,000.00	\$	10,000.00						
138	Flagman and Flagging Protection as required by UPRR	LS	1	\$	-	\$	-	\$	21,000.00	\$	21,000.00	\$	21,000.00	\$</																					

[illegible]



LONGS PEAK WATER DISTRICT

9875 Vermillion Road • Longmont, CO 80504 • (303) 776-3847 office • (303) 776-0198 fax

FIRE HYDRANT INSTALLATION REVIEW

(For fire hydrants not related to new subdivision construction)

Information for Applicant:

Most fire hydrants within the District are installed by developers, as part of new subdivision construction. The District will install fire hydrants where possible, and when requested by an Applicant who is willing to pay the costs of the fire hydrant including materials, installation and fire hydrant fee costs.

This form is for an individual or group of individuals to request and receive approval to have a fire hydrant installed at a specific location and are willing to pay the costs and fees associated with such an installation.

The hydrant, if approved, will be installed by either District crews or a contractor hired by the District to complete the installation. All installations will be in accordance with District Standards and Specifications.

Cost of Fire Hydrants:

Generally, the base cost of a fire hydrant including materials, installation and fees is about \$6,000. Of course every situation is different and costs of a fire hydrant will vary depending upon line size, location, complexity of installation and other factors. All costs associated with a fire hydrant installation will be the responsibility of the Applicant.

The Review fee is \$50 per hydrant, to be submitted with this application.

Applicant Name _____ Date _____ Phone Number _____

Mailing Address _____ Daytime Phone _____ Fax _____

City, State, Zip Code _____

Desired Location of Fire Hydrant: (Attach sketch)

By signing below, Applicant hereby acknowledges his or her understanding and acceptance of the items set forth in this Review:

Signature: _____

Date: _____



**CITY OF MILPITAS
AGENDA REPORT
(AR)**

Item Title:	Report on Bids and Award Construction Contract to Platinum Pipeline, Inc., in the amount of \$190,532.00 for the Replacement of City Fire Hydrants.
Category:	Consent Calendar-Community Services and Sustainable Infrastructure
Meeting Date:	6/16/2020
Staff Contact:	Tony Ndah, 408-586-2602 and Chris Schroeder, 408-586-3161
Recommendation:	<ol style="list-style-type: none">1. Receive report on bids and award a construction contract to the lowest responsible bidder submitting a responsive bid, Platinum Pipeline, Inc., in the amount of \$190,532.00 for the Fire Hydrant Replacement Project.2. Authorize the Director of Public Works to negotiate and execute contract change order(s) in an aggregate amount not to exceed \$9,000.00 for unforeseen work related to the Fire Hydrant Replacement Project.

Background:

The City of Milpitas maintains approximately 2,200 fire hydrants citywide, with each hydrant having a 30-year service life. Approximately 10% of the City's fire hydrants have exceeded their useful life and are in need of rehabilitation and replacement. Per the California Fire Code, fire hydrant systems shall be maintained in an operative condition at all times and shall be repaired where defective and comply with approved standards. In addition, fire hydrant replacement is a necessary safety maintenance measure that ensures that the City meets not only firefighting requirements per the California Fire Code but water quality standards as well, per California State Regulation, Title 22.

In 2008, Council approved CIP No. 7110, Hydrant Replacement Program, to provide funding for the replacement of Greenberg fire hydrants in the Manor, Sunnyhills, and Milford neighborhoods and later approved the expansion of the project scope to include citywide hydrants as recommended in the Water Supply Augmentation Feasibility Report (March 2015). Award of this contract will ensure the City's fire hydrants are replaced as the infrastructure ages and the hydrants remain in functioning condition for use in case of a fire.

Analysis:

The City's Hydrant Replacement Program is responsible for the systematic, system-wide replacement of older, leaking, or damaged hydrants. Older, high maintenance fire hydrants are replaced with newer, more effectively operating devices. Fire hydrants are replaced based upon maintenance inspections, leak detection testing, and damage as a result of vehicular accidents. The ongoing replacement program is designed to maintain the integrity of the fire protection system throughout the City.

On April 24, 2020, the Purchasing Division released an Invitation for Bid (IFB) 2426 for fire hydrant replacement services at twenty-nine (29) City locations. The IFB was publicly noticed in accordance with the Uniform Public Construction Cost Accounting Act and the City's municipal code and advertised on the City's website. Email notifications were sent to companies registered with the City via ProcureNow.com, the City's eProcurement system and a bid notification placed on PublicPurchase.com. Upon release, 175 firms received the solicitation notification, fourteen (14) firms downloaded the IFB documents, and four (4) firms participated in the mandatory pre-bid meeting. The Purchasing Division received three (3) bids by the May 20, 2020 deadline to respond to the IFB. Platinum Pipeline, Inc., is the lowest responsible bidder submitting a responsive bid. The bid submitted was within the City's estimate for these services.

BIDDER	BASE BID
1. Platinum Pipeline, Inc.	\$190,532.00
2. West Valley Construction Company	\$207,125.00
3. FD Underground Inc.	\$289,578.00

Policy Alternatives:

Alternative 1: Direct City staff to provide the required services with in-house resources.

Pros: Increased work options for City staff.

Cons: City staff do not have sufficient resources to provide these services, in addition to the ongoing operations and maintenance of the City's infrastructure.

Reason not recommended: The City does not have enough resources to perform the hydrant replacement work, as well as continue staff work on operation and maintenance of the City's infrastructure. The timeline for the replacement of the hydrants would be delayed, which would result in more hydrants exceeding their useful life and potentially impacting Fire Department response to a fire.

Fiscal Impact:

Sufficient funds for the project are available in CIP 7110 – Hydrant Replacement Program.

California Environmental Quality Act:


By the definition provided in the CEQA Guidelines Section 15378, this action does not qualify as a "project" for the purpose of CEQA as this action has no potential to result in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment.

Recommendation:

1. Receive report on bids and award a construction contract to the lowest responsible bidder submitting a responsive bid, Platinum Pipeline, Inc., in the amount of \$190,532.00 for the Fire Hydrant Replacement Project, for a total amount not to exceed \$190,532.00.
2. Authorize the Director of Public Works to negotiate and execute contract change order(s) in an aggregate amount not to exceed \$9,000.00 for unforeseen work related to the Fire Hydrant Replacement Project.

Attachments:

Construction contract with Platinum Pipelines, Inc. for the Fire Hydrant Replacement Project.

 <p>PURCHASING DIVISION</p> <p>IFB FOR: Hydrant Replacement</p> <p>IFB NO: 2426</p> <p>DUE DATE: 20 May 2020</p> <p>BUYER: Z. DeVine</p>						
	FD Underground Inc.	Platinum Pipeline Inc.	West Valley Construction Company Inc.			
	1	2	3			
Base Bid	\$289, 578.00	\$190,532.00	\$207,125.00			

****BID AWARD IN PROGRESS** June 17, 2020 City Council Meeting**

AWARD TO: Platinum Pipeline Inc. Lowest Most Responsive, Responsible Bidder Meeting Specifications

Council approves \$330K fire hydrant replacement project

newarkpostonline.com/news/council-approves-330k-fire-hydrant-replacement-project/article_17319a85-0c3f-5d71-b752-01977bf8948e.html

By Josh Shannon jshannon@chespub.com

April 26, 2019



City council on Monday approved a \$331,000 project to replace 15 Main Street fire hydrants and the water lines that feed them.

The water mains under Main Street date back as far as 1888, and mineral build-up and corrosion has reduced the capacity of the pipes leading to the fire hydrants, according to Ethan Robinson, deputy director of public works and water resources.

Replacing them with wider pipes will increase the flow rate, and new valves will reduce the impact of service disruptions during future repairs.

The work will be done in conjunction with the Main Street construction project, and council agreed to waive the bid process to award the contract to the same contractor doing the Main Street project.

The hydrant work started earlier this month, but the bulk of it will be done over the summer.

The work will be split into eight phases. In each area, the residences and businesses there will have their water shut off overnight between midnight and 7 a.m.

Each water customer will be affected for only one night, barring any unforeseen problems, Robinson said.

However, after their water service is restored, the customers will be under a boil-water advisory for 24 hours. During that time, people cannot drink the water or use it for cooking unless they boil it first.

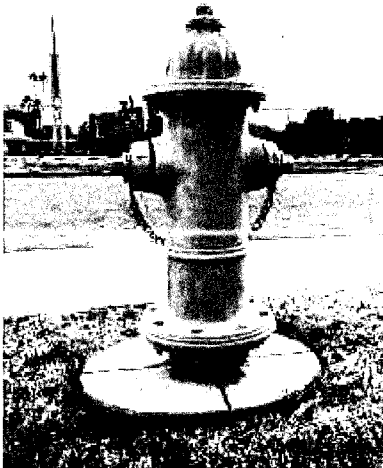
Robinson said the city will contact property owners to inform them of the exact date they will be affected.

The city will hold a public workshop about the hydrant project May 2 at city hall, 220 S. Main St. A brief presentation followed by a question-and-answer session will be led by city staff at 4:30 p.m. City staff will repeat the presentation at 5:30 p.m. and 6:30 p.m.

Phoenix has 709 fire hydrants that don't work and 2,000 that need fixed, replaced

By Christina Estes

Published: Monday, November 29, 2021 - 5:05am
Updated: Monday, November 29, 2021 - 7:26am



Christina Estes/KJZZ

As of September 2001, Phoenix had 709 non-working fire hydrants across the city.

As of September, Phoenix had 709 fire hydrants that didn't work and another 2,000 that needed repaired or replaced.

Executive Assistant Fire Chief Scott Walker told a city subcommittee that when crews respond to calls, they assume the nearest fire hydrant is working. If their 1,000-foot hose cannot reach a functioning hydrant, they must come up with another plan.

"A different apparatus may need to secure a water supply from a different direction, we may need to use multiple fire trucks to what we call 'daisy chain' that's several trucks connecting their supply lines in order to get their water supply to the fire incident," he said. "And with today's synthetic materials and combustibles causing fires to double in size every sixty seconds, any delay to that fire attack will increase the risk to any potential victim and to our firefighters.

The Water Services Department said if the current pace continues, city crews will be able to clear a backlog of nearly 1,700 repairs within a year but cannot keep up with replacements. The department wants to hire a private contractor to replace 1,019 hydrants in a year at a cost of \$3.4 million. The City Council must still approve the contract.

After catching up on backlog work orders, the department said it will repair and replace hydrants within a month of receiving work orders. It also has a goal to perform preventative maintenance work on each hydrant annually. Phoenix has 55,143 hydrants across the city.

2/17/22, 8:05 AM

Phoenix has 709 fire hydrants that don't work and 2,000 that need to be fixed or replaced. KJZZ
OUCC Attachment CNS-2
Cause No. 42561-051C-13
Page 14 of 23

Business

Water

**TOWN OF SPRINGFIELD
WATER SYSTEM
CAPITAL PLAN
FY 22 – FY 26
May 2021**

INTRODUCTION

This Plan includes recommended improvements using multiple sources of funds for water system improvement projects of a range of sizes. It is separated into projects that are included in:

- Annual Water Operations Budget
- Capital Plan
- Larger water system improvement projects using Local and/or State/Federal Funding Sources

Some of this information is built off the Long Range Plan Update completed in December 2018 and sections of this document will be referenced here.

ANNUAL OPERATIONS BUDGET

For the annual operations budget, the following improvements are included for the distribution system.

Fire Hydrant Replacements

From the Long Range Plan, it was recommended that up to three (3) hydrants be replaced each year. The estimated replacement cost is \$6,000 per hydrant, resulting in a total of \$18,000 for FY 22.

Sampling and Removal of Lead Goose Necks

The lead replacement program has a 10-year timeframe which includes sampling and removal of goosenecks identified. Costs will fluctuate on a year to year basis depending on responses and the number of lead goosenecks identified and replaced. The estimated annual cost for lead replacement program is approximately \$24,000. More detail on the Lead Replacement Program is provided in Appendix L of the Long Range Plan Update.

Structure Adjustments

In coordination with Town paving projects, the existing water structures need to be adjusted and raised to maintain access. For water, this primarily includes curb boxes for gate valves. This item includes the purchase of the risers and labor for the installation and is scheduled to start in FY 23.

The estimated costs which need to be included in the annual water operating budget for the next five years are summarized in Table 1.

Table 1
Annual Water Operations Budget
Budgeted Costs for Recommended Improvements
FY 22 – FY 26

Item	FY 22	FY 23	FY 24	FY 25	FY 26
Fire Hydrant Replacements	\$18,000	\$18,500	\$19,000	\$19,500	\$20,000
Lead Goose Neck Replacements	\$24,000	\$24,700	\$25,400	\$26,200	\$27,000
Structure Adjustments	---	\$32,000	\$33,000	\$34,000	\$35,000
Total	\$42,000	\$75,200	\$77,400	\$79,700	\$82,000

Notes:

- Beginning in FY 23, the annual budgeted costs were increased about 3% annually.

CAPITAL PLAN

The water system improvements identified for the capital plan are broken down into supply, storage, and distribution.

Supply

The Town has typically budgeted \$10,000 annually for well redevelopment, but have found that when the well is redeveloped, the pump should be replaced. The total cost of the well development and pump replacement is estimated at \$25,000 so the plan would be to allocate adequate funds each year to perform the improvements on one well every two years. It is recommended to budget \$12,500 each year so that the funds are adequate to cover this cost.

Storage

The storage tanks are inspected every five years, but recently cracking has been observed. In the first year, the recommendation is to have the Eastside (Hartness) and Westside (High School) tanks inspected by the tank manufacturer. If the tanks can not be drained, the interior can be inspected using an ROV (Remotely Operated Vehicle). An inspection report would include recommendations for repair and a budget cost.

Funds would be budgeted annually to have one of the tanks repaired in FY 24 and the second tank repaired in FY 26. For the exterior repairs, a budget of \$50,000 is shown for each tank, so it is recommended to put aside \$25,000 per year. Based on the results of the inspection, these estimates may need to be adjusted in future years to ensure adequate funds are available when needed.

Distribution

The Long Range Plan included an estimate of \$25,000 annually for the replacement of small diameter waterlines. The focus was on shorter sections of waterlines (< 500') which will not require a Drinking Water Permit to Construct, but these two projects identified on Elm Terrace and Ellis Street may require some engineering and a Permit due to the length and complexity. On Elm Terrace, there is an existing 1-1/4" diameter waterline and on Ellis Street, a 1-1/2" diameter waterline.

Budget Estimates

The recommended costs for inclusion into the capital plan are summarized in Table 2. For FY 22, a budget of \$45,000 is recommended for these items and increases to \$65,600 in FY 26.

Table 2
Capital Plan
Budgeted Costs for Recommended Improvements

Item	FY 22	FY 23	FY 24	FY 25	FY 26
Supply					
Well Redevelopment	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500
Storage					
Tank Inspections	\$7,500				
Eastside Tank Repairs ⁽¹⁾		\$25,000	\$25,000		
Westside Tank Repairs ⁽¹⁾				\$25,000	\$25,000
Waterline Replacements ⁽²⁾					
Elm Terrace	\$25,000	\$25,750			
Ellis Street			\$26,500	\$27,300	\$28,100
Total	\$45,000	\$63,250	\$64,000	\$64,800	\$65,600

Notes:

1. The budgets for the tank repairs will need to be adjusted after completion of the inspection in FY 22.
2. Beginning in FY 23, the annual budgeted costs were increased 3% annually.

Other Recommendations

For the water system improvements completed under the Capital Plan, the work should be coordinated with other priorities, such as, paving and street reconstruction. Where the priorities and schedule align, this work should be coordinated with the Highway Capital Plan.

IMPROVEMENT PROJECTS

There are several water system improvement projects pending and the status is described in the narratives below.

Contract H – Clinton Street

This Contract includes waterline replacement on Clinton Street from the wastewater treatment facility to Bridge Street. These improvements include approximately 4,500' of new 12" PVC pipe and 600' of new 8" PVC pipe and appurtenances. The pipe material was changed from ductile iron to PVC to reduce the costs.

The project design was completed and permits obtained. It was put out to bid in June 2016, and split into a base bid and Bid Alternate, however, there was not adequate bonding capacity to award and move to construction. At the time, there was about \$960,000 remaining in uncommitted bonding capacity. The Drinking Water Permit to Construct was withdrawn in July 2018.

As an addition to this project, the Town wants to explore adding the waterline improvements in the area of Seavers Brook Road.

Contract I – Water Works Improvements

This Contract includes waterline replacements on Clinton Street (Bridge Street to Main Street), Bridge Street, Franklin and Wall Street, and Mill Road. These improvements include approximately 2,400' of new 12" waterline and 3,100' of new 8" waterline and appurtenances.

The design for this Contract I was 90% complete in 2016.

Contract J – Main Street

The Town wants to replace the original water main on Main Street, from Clinton Street to the VFW vault (near Eaton Avenue). Preliminary engineering (Step I) needs to be done to document the project need, consider alternatives, and develop a proposed project. For the proposed project, the scope will be defined, timeline, estimated costs, funding sources, etc. so that the Town can proceed to a bond vote.

Estimated Costs

As part of this capital plan, the estimated construction cost and total project cost were updated based on current 2021 costs. These costs are summarized in Table 3. The estimated costs for Contract J will be prepared during the preliminary engineering study.

Table 3
Estimated Costs

Contract No.	Estimated Construction Cost⁽¹⁾	Total Project Cost
H – Clinton Street	\$1,760,000	\$2,300,000
I – Water Works System	\$1,900,000	\$2,600,000
J – Main Street	tbd	tbd

Notes:

1. ENR 11800 = April 2021
2. The total project includes previous final design engineering costs incurred.

It should be noted that prior to a bond vote, the construction costs need to be updated to reflect the anticipated construction schedule.

Schedule

For these larger projects, a tentative schedule was developed and is provided in Table 5. The Town plans a bond vote in March 2022 and prefers to include Contracts H, I, and J in the bond vote amount. If the bond vote passes, the plan is to begin construction on Contract H in 2022, and follow with Contracts I and J in the following years as shown on Table 4.

Table 4
Overall Schedule

Date		Contract No.	Task
2021	May-December	J	Preliminary engineering (Step I)
2022	January - March	H	Update final design (Step II) and permitting
	March		Bond Vote
	March	H	Advertise for Bids
	May	H	Start Construction
	November	H	Complete Construction
2023	February	I	Complete final design (Step II) and permitting Advertise for Bids
	March	J	Begin final design (Step II)
	May	I	Start construction
	December	I	Complete construction
2024	February	J	Complete final design and permitting Advertise for bids
	May	J	Begin construction
	December	J	Complete construction

Next Steps

For the Town to meet this schedule, and be ready for a March 2022 bond vote several items need to move forward as follows.

- May 2021:
 - Contract J: Submit the Drinking Water Planning Loan Application.
 - Contract J: Begin the preliminary engineering study (Step I) for Contract J.
- November 2021:
 - Contract H: Submit a Drinking Water Planning Loan Application for update of the design and permitting, and bond vote assistance.
- December 2021:
 - Contract H: Begin the update of the design and permitting for Contract H
- January 2022:
 - Begin the bond vote preparation.

Foth		Tabulation of Bids West Des Moines, IA Booneville Road Improvements												THE CITY OF WEST DES MOINES		
City Project Number: 0510-008-2017 Foth Project Number: 18W018.01																
Bid Date: Wednesday, April 10, 2019 at 2:00 pm																
ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITY	Engineer's Opinion of Cost		Absolute Concrete Construction Slater, IA		McArdich Des Moines, IA		Corell Contractor Des Moines, IA		Alliance Construction Group LLC Grimes, IA		Concrete Technology Inc. Grimes, IA	
ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	SUBTOTAL	UNIT PRICE	SUBTOTAL	UNIT PRICE	SUBTOTAL	UNIT PRICE	SUBTOTAL	UNIT PRICE	SUBTOTAL	UNIT PRICE	SUBTOTAL
DIVISION 7 - STREETS AND RELATED WORK																
7.1		PAVEMENT, REINFORCED PCC, CLASS C 6 IN	SY	1,847	\$ 48.00	\$ 70,056.00	\$ 68.10	\$ 125,800.70	\$ 50.00	\$ 92,332.00	\$ 58.00	\$ 107,024.00	\$ 57.00	\$ 105,528.00	\$ 63.00	\$ 116,361.00
7.2		PAVEMENT, REINFORCED PCC, CLASS C-SUD 6 IN	SY	18,230	\$ 54.00	\$ 983,820.00	\$ 68.75	\$ 1,257,716.25	\$ 58.00	\$ 1,070,890.25	\$ 61.70	\$ 1,120,560.50	\$ 60.50	\$ 1,104,669.50	\$ 63.25	\$ 1,154,881.75
7.3		CUT-OFF WALL	LF	268	\$ 135.00	\$ 40,680.00	\$ 79.00	\$ 21,208.00	\$ 70.00	\$ 25,740.00	\$ 70.00	\$ 28,704.00	\$ 105.00	\$ 38,685.00	\$ 100.00	\$ 30,800.00
7.4		GRANULAR SURFACING	TON	445	\$ 30.00	\$ 13,350.00	\$ 29.05	\$ 11,868.25	\$ 30.00	\$ 13,350.00	\$ 34.00	\$ 15,130.00	\$ 30.00	\$ 13,350.00	\$ 27.50	\$ 12,327.50
7.5		REMOVAL OF SIDEWALK, SHARED USE PATH OR DRIVEWAY	SY	14	\$ 15.00	\$ 210.00	\$ 11.25	\$ 157.50	\$ 38.00	\$ 532.00	\$ 120.00	\$ 1,680.00	\$ 55.00	\$ 770.00	\$ 52.50	\$ 735.00
7.6		SIDEWALK, PCC, 4 IN	SY	1,740	\$ 35.00	\$ 60,900.00	\$ 58.75	\$ 102,187.50	\$ 38.70	\$ 67,026.00	\$ 37.80	\$ 65,852.00	\$ 39.00	\$ 67,980.00	\$ 60.25	\$ 107,047.50
7.7		SIDEWALK, PCC, 6 IN	SY	103	\$ 65.00	\$ 6,695.00	\$ 55.00	\$ 5,665.00	\$ 37.00	\$ 3,819.00	\$ 56.00	\$ 5,768.00	\$ 60.00	\$ 6,180.00	\$ 127.50	\$ 13,125.00
7.8		DETECTABLE WARNING	SF	128	\$ 45.00	\$ 5,760.00	\$ 38.00	\$ 4,864.00	\$ 40.00	\$ 5,080.00	\$ 47.25	\$ 6,048.00	\$ 50.00	\$ 6,400.00	\$ 33.25	\$ 4,256.00
7.9		DRIVEWAY, PCC, 6 IN	SY	456	\$ 44.00	\$ 20,064.00	\$ 82.00	\$ 37,472.00	\$ 56.00	\$ 25,536.00	\$ 97.75	\$ 44,394.00	\$ 97.00	\$ 44,322.00	\$ 64.50	\$ 29,415.00
7.10		PAVEMENT REMOVAL	SY	270	\$ 12.00	\$ 3,240.00	\$ 25.85	\$ 6,979.50	\$ 24.30	\$ 5,961.00	\$ 13.00	\$ 3,510.00	\$ 27.00	\$ 7,290.00	\$ 26.25	\$ 7,087.50
7.11		TEMPORARY GRANULAR SURFACING	TON	1,500	\$ 30.00	\$ 45,000.00	\$ 30.75	\$ 46,125.00	\$ 35.00	\$ 52,500.00	\$ 46.00	\$ 69,000.00	\$ 32.00	\$ 48,000.00	\$ 31.50	\$ 47,250.00
DIVISION 8 - TRAFFIC SIGNALS AND TRAFFIC CONTROL																
8.1		PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	S/TA	122.17	\$ 65.00	\$ 7,941.05	\$ 55.35	\$ 6,782.11	\$ 55.00	\$ 6,719.35	\$ 50.00	\$ 6,110.00	\$ 70.00	\$ 8,551.90	\$ 56.75	\$ 6,933.15
8.2		PAINTED SYMBOLS AND LEGENDS	EA	20	\$ 150.00	\$ 3,000.00	\$ 87.15	\$ 1,743.00	\$ 87.00	\$ 1,740.00	\$ 93.00	\$ 1,860.00	\$ 95.00	\$ 1,900.00	\$ 80.25	\$ 1,605.00
8.3		TEMPORARY TRAFFIC CONTROL	LS	1	\$ 15,000.00	\$ 15,000.00	\$ 8,800.00	\$ 8,800.00	\$ 107,300.00	\$ 107,300.00	\$ 97,300.00	\$ 97,300.00	\$ 140,000.00	\$ 140,000.00	\$ 71,445.00	\$ 71,445.00
8.4		PORTABLE DYNAMIC MESSAGE SIGNS	CDAY	14	\$ 100.00	\$ 1,400.00	\$ 130.00	\$ 1,820.00	\$ 77.00	\$ 1,078.00	\$ 137.00	\$ 1,918.00	\$ 135.00	\$ 1,890.00	\$ 131.00	\$ 1,834.00
DIVISION 9 - SITE WORK AND LANDSCAPING																
9.1		CONVENTIONAL SEEDING, FERT., TYPE 1 (PERM. LAWN MIX.)	ACRE	0.00	\$ 2,000.00	\$ 0.00	\$ 2,850.00	\$ 2,565.00	\$ 1,071.00	\$ 955.00	\$ 1,075.00	\$ 967.50	\$ 1,100.00	\$ 990.00	\$ 1,105.00	\$ 994.50
9.2		CONVENTIONAL SEEDING, FERT., TYPE 2 (PERM. COOL-SEASON MIX.)	ACRE	13.44	\$ 1,500.00	\$ 20,160.00	\$ 960.00	\$ 12,768.00	\$ 960.00	\$ 12,768.00	\$ 960.00	\$ 12,768.00	\$ 960.00	\$ 12,768.00	\$ 960.00	\$ 12,768.00
9.3		HYDRAULIC SEEDING, FERT. & MULCH., TYPE 1 (PERM. LAWN MIX.)	ACRE	0.03	\$ 2,750.00	\$ 22,220.00	\$ 3,500.00	\$ 28,800.00	\$ 2,652.00	\$ 21,428.16	\$ 2,685.00	\$ 21,633.20	\$ 2,400.00	\$ 22,624.00	\$ 2,730.00	\$ 22,058.40
9.4		HYDRAULIC SEEDING, FERT. & MULCH., TYPE 4 (URBAN TEMP. MIX.)	ACRE	22.42	\$ 1,000.00	\$ 22,420.00	\$ 2,000.00	\$ 44,840.00	\$ 1,478.00	\$ 33,152.16	\$ 1,485.00	\$ 33,293.70	\$ 1,000.00	\$ 22,420.00	\$ 1,575.00	\$ 35,190.50
9.5		SOD	SQ	709	\$ 90.00	\$ 63,810.00	\$ 95.00	\$ 67,355.00	\$ 60.00	\$ 42,540.00	\$ 88.00	\$ 62,368.00	\$ 70.00	\$ 49,630.00	\$ 68.25	\$ 48,278.50
9.6		PLANT, WITH WARRANTY (OVERSTORY TREE)	EA	21	\$ 800.00	\$ 16,800.00	\$ 550.00	\$ 11,550.00	\$ 705.00	\$ 14,805.00	\$ 708.00	\$ 14,868.00	\$ 825.00	\$ 17,325.00	\$ 790.00	\$ 16,590.00
9.7		PLANT, WITH WARRANTY (EVERGREEN TREE)	EA	4	\$ 340.00	\$ 1,360.00	\$ 450.00	\$ 1,800.00	\$ 454.00	\$ 1,816.00	\$ 455.00	\$ 1,820.00	\$ 475.00	\$ 1,900.00	\$ 487.50	\$ 1,950.00
9.8		PLANT, WITH WARRANTY (UNDERSTORY TREE)	EA	32	\$ 350.00	\$ 11,200.00	\$ 550.00	\$ 17,600.00	\$ 434.00	\$ 13,888.00	\$ 435.00	\$ 13,920.00	\$ 475.00	\$ 15,200.00	\$ 447.25	\$ 14,308.00
9.9		PLANT, WITH WARRANTY (SHRUB)	EA	87	\$ 100.00	\$ 8,700.00	\$ 75.00	\$ 6,525.00	\$ 61.00	\$ 5,307.00	\$ 81.00	\$ 6,997.00	\$ 75.00	\$ 6,525.00	\$ 65.00	\$ 5,685.00
9.10		STORMWATER POLLUTION PREVENTION PLAN (SWPPP), PREP. & MANAGEMENT	LS	1	\$ 7,600.00	\$ 7,600.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,125.00	\$ 5,125.00	\$ 5,500.00	\$ 5,500.00	\$ 5,290.00	\$ 5,290.00
9.11		FILTER SOCKS, 12 IN.	LF	2,482	\$ 2.50	\$ 6,205.00	\$ 4.00	\$ 9,928.00	\$ 2.74	\$ 6,801.08	\$ 2.75	\$ 6,829.50	\$ 2.25	\$ 5,580.50	\$ 2.30	\$ 5,709.00
9.12		FILTER SOCK, 12 IN., MAINTENANCE & REMOVAL	LF	2,681	\$ 0.50	\$ 1,340.50	\$ 0.40	\$ 1,072.40	\$ 0.20	\$ 536.20	\$ 0.25	\$ 670.25	\$ 0.50	\$ 1,340.50	\$ 0.20	\$ 536.20
9.13		TEMPORARY ROLLED EROSION CONTROL PRODUCTS (RECP), TYPE 1C, SLOPE	SY	34,700	\$ 2.00	\$ 69,400.00	\$ 2.00	\$ 69,400.00	\$ 1.19	\$ 41,293.00	\$ 1.20	\$ 41,640.00	\$ 1.30	\$ 45,110.00	\$ 1.25	\$ 43,375.00
9.14		TEMPORARY ROLLED EROSION CONTROL PRODUCTS (RECP), TYPE 2D, DITCH	SY	967	\$ 3.00	\$ 2,901.00	\$ 2.50	\$ 2,417.50	\$ 1.29	\$ 1,250.43	\$ 1.30	\$ 1,258.50	\$ 1.40	\$ 1,353.80	\$ 1.35	\$ 1,305.45
9.15		RIP RAP, CLASS F	TON	193	\$ 90.00	\$ 17,370.00	\$ 96.50	\$ 18,610.50	\$ 55.00	\$ 10,625.00	\$ 60.00	\$ 11,580.00	\$ 60.00	\$ 11,580.00	\$ 68.00	\$ 13,104.00
9.16		EROSION STONE	TON	295	\$ 50.00	\$ 14,750.00	\$ 48.15	\$ 14,204.25	\$ 44.00	\$ 13,024.00	\$ 70.00	\$ 20,650.00	\$ 60.00	\$ 17,700.00	\$ 47.25	\$ 13,938.75
9.17		SILT FENCE, INSTALLATION	LF	13,725	\$ 1.50	\$ 20,587.50	\$ 1.45	\$ 19,901.25	\$ 1.43	\$ 19,620.75	\$ 1.45	\$ 19,901.25	\$ 1.75	\$ 24,018.75	\$ 1.50	\$ 20,587.50
9.18		SILT FENCE, REMOVAL OF SEDIMENT	LF	1,008	\$ 0.10	\$ 100.80	\$ 0.05	\$ 50.40	\$ 0.20	\$ 210.00	\$ 0.25	\$ 252.00	\$ 0.50	\$ 504.00	\$ 0.25	\$ 252.00
9.19		SILT FENCE, REMOVAL OF DEBRIS	LF	14,823	\$ 0.10	\$ 1,482.30	\$ 0.05	\$ 741.15	\$ 0.05	\$ 741.15	\$ 0.05	\$ 741.15	\$ 0.25	\$ 3,705.75	\$ 0.05	\$ 741.15
9.20		EROSION CONTROL MULCHING, CONVENTIONAL	ACRE	22.42	\$ 990.00	\$ 22,331.00	\$ 725.00	\$ 16,250.50	\$ 350.00	\$ 7,852.40	\$ 407.00	\$ 9,125.02	\$ 500.00	\$ 11,210.00	\$ 475.00	\$ 10,645.50
9.21		EROSION CONTROL MULCHING, HYDROMULCHING	ACRE	22.42	\$ 1,100.00	\$ 24,662.00	\$ 1,600.00	\$ 35,904.00	\$ 835.00	\$ 18,812.20	\$ 1,410.00	\$ 31,612.20	\$ 1,800.00	\$ 40,320.00	\$ 1,440.00	\$ 32,396.00
9.22		GATE, FIELD FENCE, 10 FT	EA	62	\$ 150.00	\$ 9,300.00	\$ 150.00	\$ 9,300.00	\$ 143.00	\$ 8,876.00	\$ 143.00	\$ 8,876.00	\$ 160.00	\$ 9,984.00	\$ 147.00	\$ 9,051.00
9.23		GATE, FIELD FENCE, 12 FT	EA	2	\$ 300.00	\$ 600.00	\$ 275.00	\$ 550.00	\$ 1,451.00	\$ 2,902.00	\$ 2,444.00	\$ 4,888.00	\$ 330.00	\$ 660.00	\$ 2,400.00	\$ 4,800.00
9.24		GATE, FIELD FENCE, 10 FT	EA	2	\$ 400.00	\$ 800.00	\$ 365.00	\$ 730.00	\$ 1,013.00	\$ 2,026.00	\$ 2,305.00	\$ 4,610.00	\$ 1,200.00	\$ 2,400.00	\$ 1,400.00	\$ 2,800.00
9.25		GATE, FIELD FENCE, 12 FT	EA	2	\$ 500.00	\$ 1,000.00	\$ 1,347.00	\$ 2,694.00	\$ 1,295.00	\$ 2,590.00	\$ 410.00	\$ 820.00	\$ 1,400.00	\$ 2,800.00	\$ 395.00	\$ 790.00
9.26		GATE, FIELD FENCE, 10 FT	EA	1	\$ 750.00	\$ 750.00	\$ 1,500.60	\$ 3,001.20	\$ 1,311.00	\$ 2,622.00	\$ 440.00	\$ 880.00	\$ 1,500.00	\$ 3,000.00	\$ 420.00	\$ 840.00
9.27		FIELD FENCE	LF	2,075	\$ 12.00	\$ 24,900.00	\$ 21.56	\$ 44,710.25	\$ 19.00	\$ 39,405.00	\$ 6.00	\$ 12,450.00	\$ 10.50	\$ 21,787.50	\$ 9.30	\$ 19,278.75
9.28		WOOD FENCE	LF	452	\$ 50.00	\$ 22,600.00	\$ 42.00	\$ 19,004.00	\$ 24.00	\$ 10,848.00	\$ 15.50	\$ 7,002.00	\$ 26.00	\$ 11,752.00	\$ 14.75	\$ 6,667.00
9.29		REMOVAL OF FENCE	LF	2,183	\$ 2.00	\$ 4,366.00	\$ 2.00	\$ 4,366.00	\$ 4.45	\$ 9,723.75	\$ 1.00	\$ 2,183.00	\$ 2.00	\$ 4,366.00	\$ 1.35	\$ 2,946.50
9.30		DECORATIVE MONUMENT, STYLE A	EA	2	\$ 25,000.00	\$ 50,000.00	\$ 30,000.00	\$ 60,000.00	\$ 11,700.00	\$ 23,400.00	\$ 58,500.00	\$ 117,000.00	\$ 33,000.00	\$ 66,000.00	\$ 25,225.00	\$ 50,450.00
9.31		DECORATIVE MONUMENT, STYLE B	EA	2	\$ 25,000.00	\$ 50,000.00	\$ 30,000.00	\$ 60,000.00	\$ 22,500.00	\$ 45,000.00	\$ 45,000.00	\$ 90,000.00	\$ 25,000.00	\$ 50,000.00	\$ 23,000.00	\$ 46,000.00
DIVISION 10 - DEMOLITION																
Not Used																
DIVISION 11 - MISCELLANEOUS																
11.1		CONSTRUCTION SURVEY	LS	1	\$ 45,000.00	\$ 45,000.00	\$ 23,000.00	\$ 23,000.00	\$ 70,400.00	\$ 70,400.00	\$ 76,780.00	\$ 76,780.00	\$ 83,600.00	\$ 83,600.00	\$ 73,315.40	\$ 73,315.40
11.2		MAINTENANCE OF PORTAL SERVICE	LS	1	\$ 2,500.00	\$ 2,500.00	\$ 2,050.00	\$ 2,050.00	\$ 2,040.00	\$ 2,040.00	\$ 2,200.00	\$ 2,200.00	\$ 2,200.00	\$ 2,200.00	\$ 2,075.00	\$ 2,075.00
11.3		MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	\$ 7,500.00	\$ 7,500.00	\$ 15,000.00	\$ 15,000.00	\$ 14,500.00	\$ 14,500.00	\$ 20,000.00	\$ 20,000.00	\$ 4,600.00	\$ 4,600.00	\$ 3,265.00	\$ 3,265.00
11.4		CONCRETE WASHOUT	LS	1	\$ 12,000.00	\$ 12,000.00	\$ 10,000.00	\$ 10,000.00	\$ 7,350.00	\$ 7,350.00	\$ 7,340.00	\$ 7,340.00	\$ 7,200.00	\$ 7,200.00	\$ 15,000.00	\$ 15,000.00
DIVISION 12 - STRUCTURES																
Not Used																
TOTAL BASE BID						\$ 4,683,669.65		\$ 4,759,675.53		\$ 4,808,677.75		\$ 4,837,613.45		\$ 4,950,184.95		\$ 5,535,235.00



From time to time, Indiana American Water adds to our family of customers by acquiring water and wastewater systems across the state. For many of these new customers, we often are able to help them by bringing many advantages to their community and operations, including:

- 24/7 customer service and payment options
- Access to industry-leading expertise and knowledge
- Capital to invest in local water & wastewater infrastructure
- Best practices, efficiencies and economies of scale
- Sale proceeds and new property tax revenue to address other community issues

These new customers also benefit from our employee dedication to water quality, environmental stewardship and community involvement. Our company's record of compliance with drinking water standards is significantly better than the average water utility in Indiana. From serving in leadership roles in community and economic development groups to supporting charitable, environmental, and service organizations, our employees take an active role in the communities we serve.

1 A. Yes. Under Indiana American ownership the customers will also benefit by leveraging
2 Indiana American's ability to purchase materials and services at more effective costs
3 due to the size of the company. Beyond bulk pricing, from which customers benefit,
4 Indiana American makes purchasing and contracting decisions based on the experience
5 of an industry leader which stays ahead or abreast of industry trends such as identifying
6 manufacturing defects or shortcomings of materials before they become (bigger)
7 problems.

8 **Q. Will Indiana American improve day-to-day operations?**

9 A. Yes. Operationally, Indiana American prides itself on safety and efficiency. Our
10 experience with neighboring systems and systems we have acquired has demonstrated
11 that not every system is operated as is ours. We have previously identified that
12 Wastewater One has two individuals who operate the systems. Indiana American will
13 have an entire team of water and wastewater professionals from our Southern Indiana
14 Operations facility available to address needs of these systems. Operations of the
15 systems will be coordinated with activities at Charlestown by our team from the SIO
16 location in Jeffersonville. We will not need to hire any additional staff to fully operate
17 and maintain the systems. Our team includes licensed plant operators, electricians and
18 SCADA operators which will allow for reduced operational costs and increased
19 efficiency through dispatch of employees and use of technology to manage the systems.
20 Our team will GPS locate and map the assets of the systems which will allow for more
21 efficient operation and response to main breaks or other maintenance concerns.
22 Additionally, all maintenance and operations records will be converted from paper,
23 which is how they are kept by Wastewater One, to our electronic systems using the

1 **Q. What do you mean by economies of scale?**

2 A. Economies of scale as used in the Indiana Code 8-1-30.3-6 is generally understood to
3 describe operational savings from larger size. In the utility business, it is usually
4 expressed in terms of cost per customer. It is important, however, to know what we
5 are comparing when we consider whether there are cost savings. This is not simply a
6 comparison of what it costs Lowell to operate its system and what it will cost us. It is
7 far too simplistic to compare Lowell's cost structure or rates to ours, as doing so
8 suggests an expectation of the status quo in terms of service. Lowell has a water system
9 that is well maintained with what appears to be a good customer experience. However,
10 Lowell must make capital investment and operational changes that will have a
11 significant rate impact. Long-term, Lowell will not be able to provide a sufficient level
12 of customer service based on the capital need. Additionally, as noted by Mr. Yelkich
13 in his testimony, the best interests of Lowell's customers is to become a part of the
14 larger Indiana American customer base because our size will minimize rate increases
15 and Indiana American operates in a more cost-effective manner than Lowell. You may
16 occasionally hear us say that we are obsessed with enhancing customer experience. We
17 have a team of professionals in Indiana that are backed by a national team of experts
18 with access to new technology and a world class lab. Those capabilities allow us to
19 provide a higher level of service. This is the commitment to customers that regulators,
20 policy-makers, and customers should expect from their utility service providers. We
21 should expect of all our utilities the type of service that Indiana American provides.
22 The question then becomes whether it is less expensive for Indiana American to provide
23 that level of service because of our size than it would be for Lowell to do so.