



County of Los Alamos

1000 Central Avenue
Los Alamos, NM 87544

Agenda - Final Board of Public Utilities

*Cornell Wright, Chair; Stephen McLin, Vice-chair; Eric Stromberg, Steve Tobin and Carrie Walker Members
Philo Shelton, Ex Officio Member
Harry Burgess, Ex Officio Member
James Robinson, Council Liaison*

Wednesday, February 24, 2021

5:30 PM

Due to COVID-19 concerns, meeting will be conducted remotely. Public can view proceedings at <http://losalamos.legistar.com/calendar.aspx> or attend via Zoom.

REGULAR SESSION - Please note the change in date from the normal 3rd Wednesday of the month to February 24th.

Members of the public wishing to attend may participate and provide public comment via Zoom, by visiting the link below or by calling one of the conference call lines listed below:

Join Zoom Webinar: <https://zoom.us/j/94767004759>

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Complete Board of Public Utilities agenda packets, past agendas, videos, legislation and minutes can be found online at losalamos.legistar.com. Learn more about the Board of Public Utilities at ladpu.com/BPU

PUBLIC COMMENTS:

Please submit written comments to the Board at bpu@lacnm.us. Oral public comment is accepted during the two periods identified on the agenda and after initial board discussion on a business item, prior to accepting a main motion on an item. Oral comments should be limited to four minutes per person. Requests to make comments exceeding four minutes should be submitted to the Board in writing prior to the meeting. Individuals representing or making a combined statement for a large group may be allowed additional time at the discretion of the Board. Those making comments are encouraged to submit them in writing either during or after the meeting to be included in the minutes as attachments. Otherwise, oral public comments will be summarized in the minutes to give a brief succinct account of the overall substance of the person's comments.

1. CALL TO ORDER**2. PUBLIC COMMENT**

This section of the agenda is reserved for comments from the public on Consent Agenda items or items that are not otherwise included in this agenda.

3. APPROVAL OF AGENDA**4. BOARD BUSINESS****4.A. Chair's Report****4.B. Board Member Reports****4.C. Utilities Manager's Report****4.D. County Manager's Report****4.E. Council Liaison's Report****4.F. Environmental Sustainability Board Liaison's Report****4.G. General Board Business****4.G.1 [13856-21](#) Approval of Board of Public Utilities Annual Self-evaluation for 2020**

Presenters: Cornell Wright, Chair of the Board of Public Utilities

PG. 1-6

4.H. Approval of Board Expenses**4.I. Preview of Upcoming Agenda Items****4.I.1 [13895-21](#) Tickler File for the Next 3 Months**

Presenters: Board of Public Utilities

PG. 7-9

5. PUBLIC HEARING(S)

- 5.A [13801-21](#) Public Hearing for Modification of Department of Public Utilities Rules and Regulations - Rule E-5 Interconnection - Connection with Cogeneration and Small Power Producers and the Fee Schedule.

Presenters: Electrical Engineering Manager Stephen Marez,
Electrical Engineering Manager

PG. 10-22

6. **CONSENT AGENDA**

The following items are presented for Board approval under a single motion unless any item is withdrawn by a member for further Board consideration in the "Business" section of the agenda.

CONSENT MOTION -

I move that the Board of Public Utilities approve the items on the Consent Agenda as presented and that the motions in the staff reports be included in the minutes for the record.

OR

I move that the Board of Public Utilities approve the items on the Consent Agenda as amended and that the motions contained in the staff reports, be included in the minutes for the record.

- 6.A [13893-21](#) Approval of Board of Public Utilities Meeting Minutes

Presenters: Board of Public Utilities

PG. 23-48

- 6.B **AGR0736-21** Approval of Services Agreement No. AGR20-25 with Maverick Tech Solutions, LLC, dba IOS Tech in the amount of \$638,238.00, plus Applicable Gross Receipts Tax, for the Purpose of Supervisory Control Data Acquisition (SCADA) Web-hosted Solution.

Presenters: Jack Richardson, Deputy Utilities Manager - GWS
Services

PG. 49-70

7. **BUSINESS**

- 7.A [13843-21](#) Department of Public Utilities FY2022 Budget Presentation

Presenters: Bob Westervelt, Deputy Utilities Manager -
Finance/Admin

PG. 71-145

8. STATUS REPORTS**8.A** [13845-21](#) Quarterly Update on Utility System - Water System

Presenters: Jack Richardson, Deputy Utilities Manager - GWS
Services

PG. 146-194

8.B [13892-21](#) Status Reports

Presenters: Board of Public Utilities

PG. 195-209

9. PUBLIC COMMENT

This section of the agenda is reserved for comments from the public on any items.

10. ADJOURNMENT

If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing or meeting, please contact the County Human Resources Division at 662-8040 at least one week prior to the meeting or as soon as possible. Public documents, including the agenda and minutes can be provided in various accessible formats. Please contact the personnel in the Department of Public Utilities (505) 662-8132 if a summary or other type of accessible format is needed.



County of Los Alamos

Staff Report

February 24, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 4.G.1
Index (Council Goals): DPU FY2021 - N/A
Presenters: Cornell Wright, Chair of the Board of Public Utilities
Legislative File: 13856-21

Title

Approval of Board of Public Utilities Annual Self-evaluation for 2020

Recommended Action

I move that the Board of Public Utilities approve the 2020 Self-evaluation as presented.

Staff Recommendation

None

Body

On January 20th, 2021, the Board conducted its annual self-evaluation. Using a questionnaire, the Board members scored and commented on different areas of performance. Chair Walker compiled the scores, comments and action items for Board review final approval at this meeting.

Alternatives

The Board could make changes to the evaluation or choose to delay approval.

Fiscal and Staff Impact

None

Attachments

A - 2020 Self-evaluation

BOARD OF PUBLIC UTILITIES SELF-EVALUATION CALENDAR YEAR 2020

Approved February 24, 2021

In accordance with Section 3.9 of the BPU's Procedures Manual, during November and December, the BPU will perform an annual self-evaluation of its own performance.

QUESTION	SCORE	COMMENTS
I. GENERAL BOARD AREAS		
A. Is there a Board policy manual addressing meeting procedures, committee roles and structure, election and term of officers, new member orientation, and related matters?	4.8	
B. Do all Board members participate in a formal orientation?	4.6	
C. Are Board procedures adhered to regarding bylaws, open meeting requirements, compliance with legal regulations, etc.?	5.0	
D. Are meeting packets complete and distributed prior to meetings?	4.6	
E. Is the length of Board meetings appropriate?	3.8	It was generally agreed that meetings run long. It was suggested that separate meetings could be proposed for special and/or lengthy topics.
F. Is there an annual Board calendar?	5.0	
G. Does the Board receive sufficient information to make good decisions?	3.6	Some members expressed a desire for more context and background information for complex issues, including targeted industry research when being presented with contract options.
H. Are decisions made in a timely manner?	4.0	See III.D.2.
II. BOARD POLICY AREAS		
A. Accountability		
1. Does the Board understand its obligation to see the organization acts in the best interests of DPU customer and citizens of the county?	5.0	
2. Does the Board act with diligence and objectivity on behalf of DPU customers and the County?	4.6	

BOARD OF PUBLIC UTILITIES SELF-EVALUATION CALENDAR YEAR 2020

Approved February 24, 2021

B. Responsibility		
1. Do Board members understand their roles?	4.8	
2. Do Board members understand the difference between their policy role and management's administrative role?	4.6	
3. Do Board members actions reflect this understanding?	5.0	
C. Policy Direction		
1. Do Board members understand the mission, goals and strategies of the organization?	4.6	
2. Does the Board give clear directions to management on the mission and goals of the organization?	4.0	The Utilities Manager suggested that special topics sessions/workshops could help the board navigate more complex issues.
3. Does the Board spend appropriate time on policy consideration and direction versus operational issues?	4.2	
D. Monitoring		
1. Does the Board have a system for receiving and monitoring information about the DPU's organizational performance?	4.0	The board continued to express interest in exploring how to better monitor customer service (e.g. numbers and types of complaints.) Interest was also expressed in discussing the level of granularity in performance metrics. It was suggested to discuss this issue further during infrastructure updates, or perhaps a special meeting if needed.
2. Are there systems for corrective action where performance is below standard or reward when performance is above standard?	3.4	The board felt this question could be revised for clarity in future evaluations. Members again mentioned systems for tracking and reviewing customer service feedback.
3. Are organizational goal setting and achievements taken into account during the DPU Manager's evaluation?	5.0	
E. Other Communication and Advocacy		
1. Does the Board represent the community interests it serves?	4.4	

BOARD OF PUBLIC UTILITIES SELF-EVALUATION CALENDAR YEAR 2020

Approved February 24, 2021

2. Does the Board communicate the value of the organizations to its stakeholders?	3.2	Members noted that the board relies heavily on the DPU for much communication with the public. The DPU quarterly reports in particular have a wealth of information for both board members and customers.
3. Does the Board seek input and involve its stakeholders in policy considerations and decisions?	4.0	Members noted this is a continuous struggle. Interest was expressed in finding more informal ways to interact with residents in public settings and improve engagement during board meetings.
4. Do Board members support the organization publicly?	4.8	Members discussed expressing individual opinion versus board opinion.
5. Does the Board communicate effectively with the County Council?	5.0	
III. BOARD RESPONSIBILITY AREAS		
A. Legal		
1. Does the Board act within the guidelines set by the county charter and policies and procedures document?	5.0	
2. Are there written policies on Board ethics and conflicts of interest?	5.0	Annual disclosures are signed by each member.
B. Financial		
1. Does the Board approve annual operating and capital budgets and receive periodic (at least quarterly) progress reports?	5.0	
2. Does the Board review a financial plan for the organization and receive sufficient information to monitor its financial strength and performance?	4.8	The quarterly and annual reports also provide timely updates on these issues.
3. Are financial goals and comparative ratios established and does the Board receive tracking information?	5.0	
4. Are the requirements for an annual audit met and does the Board receive a report on the results?	4.0	While reports are available, it was requested that more information on the annual audit results be distributed and available for board discussion if desired.
5. Are the organizations and the Board indemnified sufficiently against insurable risk?	5.0	

BOARD OF PUBLIC UTILITIES SELF-EVALUATION CALENDAR YEAR 2020

Approved February 24, 2021

6. Is the Board proactive in pushing for rate increases with the County Council when these increases are necessary for the financial health of the DPU?	4.6	
C. Planning		
1. Is the Board informed about the business environment in which the organization is operating?	4.0	Members noted the challenges with understanding some of the more complex aspects of DPU business, but thanked staff for providing briefings and materials to assist the board.
2. Does the Board review and approve the organization's mission, goals, and major strategic initiatives?	5.0	
3. Do Board members usually attend annual DPU strategy and planning meetings?	5.0	
D. Board/Management Relations		
1. Is there a written job description and/or employment contract for the DPU Manager?	5.0	
2. Does the Board conduct a formal, annual performance review of the DPU Manager?	4.6	Members indicated that the board should adhere to a stricter timeline in the future.
3. Is the DPU Manager's compensation linked to the results of this review?	3.8	The board noted that this is not fully within its own control.
4. Does the Board make resources available for the DPU Manager's continued professional development?	5.0	
5. Is there a succession plan for the DPU Manager, with exposure to the Board of possible successors?	N/A	More formal information on this item is requested in the near future.
6. Has the Board established an effective working relationship with the DPU Manager?	5.0	
7. Is there Board/management cooperation on determining the future direction of the organization?	5.0	The board noted that it is a very collaborative relationship.
8. Are Board/DPU Manager roles clearly defined so the Board focuses on	5.0	

**BOARD OF PUBLIC UTILITIES SELF-EVALUATION
CALENDAR YEAR 2020**

Approved February 24, 2021

its policy role and avoids micro-management?		
9. Does the Board provide overall staffing direction to the DPU Manager without becoming involved in specific personnel matters?	5.0	Direction is limited to general staffing levels.
10. Is the Board explicit about the information it needs from the DPU Manager to fulfill its governance function?	4.0	
F. Education and Development		
1. Do Board members participate in educational opportunities recommended and offered by the DPU or other entities that enhance their effectiveness as a board member?	3.6	Members felt many opportunities are given, and expressed interest that those continue to be suggested and made available. Members encouraged each other to take advantage of these opportunities when possible.



County of Los Alamos

Staff Report

February 24, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 4.I.1
Index (Council Goals): DPU FY2021 - N/A
Presenters: Board of Public Utilities
Legislative File: 13895-21

Title

Tickler File for the Next 3 Months

Attachments

A - Tickler File for the Next 3 Months



LOS ALAMOS

County of Los Alamos

Tickler

Los Alamos, NM 87544
www.losalamosnm.us

**Criteria: Agenda Begin Date: 3/1/2021, Agenda End Date: 5/31/2021, Matter Bodies:
Board of Public Utiliti**

File Number	Title
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Agenda Date: 03/17/2021

13844-21	Budget Item Approval of the Transfer of Profit from Electric and Gas Funds to the General Fund for Operations During Fiscal Year 2019. Department Name: DPU Drop Dead Date:	06 Consent Length of Presentation: N/A Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
13669-20	Budget Item Approval of Department of Public Utilities FY2022 Budget Department Name: DPU Drop Dead Date:	07 Business Length of Presentation: Apx. 30 Min. Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin
13713-20	Presentation Update on Hexavalent Chromium and RDX Groundwater Contamination Department Name: DPU Drop Dead Date:	07 Business Length of Presentation: Apx. 20 Min. Sponsors: Philo Shelton, Utilities Manager
13715-21	Briefing/Report (Dept, BCC) - No action requested Options for Funds from the LA Green Program Department Name: DPU Drop Dead Date:	07 Business Length of Presentation: Apx. 15 Min. Sponsors: Philo Shelton, Utilities Manager and Steve Tobin, Board - Commission or Committee Member
13908-21	Briefing/Report (Dept, BCC) - No action requested Quarterly Conservation Program Update Department Name: DPU Drop Dead Date:	08 Status Reports Length of Presentation: Apx. 10 Min. Sponsors: James Alarid, Deputy Utilities Manager - Engineering

Agenda Date: 03/30/2021

13905-21	Construction Contract (SPECIAL MEETING) Award of Bid No. IFB-42 for the Purpose of the Utilities Portion of North Mesa Road and Utility Improvements- Casa De Oro with [Name of Vendor] in the Amount of \$[amount of contract], plus Applicable Gross Receipts Tax. Department Name: DPU	Business Length of Presentation: Apx. 10 Min.
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File Number	Title
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Drop Dead Date:

Sponsors: James Alarid, Deputy Utilities Manager - Engineering

13906-21

Briefing/Report (Dept, BCC) - No action requested

Business

(SPECIAL MEETING) Approval of Electric Production Budget Adjustment No. ## for Power Purchase

Department Name: DPU

Length of Presentation: Apx. 10 Min.

Drop Dead Date:

Sponsors: Steve Cummins, Deputy Utilities Manager - Power Supply

Agenda Date: 04/01/2021

13772-21

Briefing/Report (Dept, BCC) - No action requested

Closed Sessions

APRIL (DATES TBD) - Begin Utilities Manager Performance Evaluation

Department Name: DPU

Length of Presentation: N/A

Drop Dead Date:

Sponsors: Board of Public Utilities

Agenda Date: 04/21/2021

13771-21

Briefing/Report (Dept, BCC) - No action requested

07 Business

Briefing from County Manager on the County Strategic Objectives

Department Name: DPU

Length of Presentation: Apx. 15 Min.

Drop Dead Date:

Sponsors: Harry Burgess, County Manager

13909-21

Briefing/Report (Dept, BCC) - No action requested

08 Status Reports

Quarterly Update on Utility System - Wastewater System

Department Name: DPU

Length of Presentation: Apx. 45 Min.

Drop Dead Date:

Sponsors: Jack Richardson, Deputy Utilities Manager - GWS Services

Agenda Date: 05/19/2021

13907-21

Budget Item

06 Consent

Approval of Year-end Budget Revision

Department Name: DPU

Length of Presentation: N/A

Drop Dead Date:

Sponsors: Bob Westervelt, Deputy Utilities Manager - Finance/Admin



County of Los Alamos

Staff Report

February 24, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	5.A
Index (Council Goals):	DPU FY2021 - 5.0 Achieve Environmental Sustainability
Presenters:	Electrical Engineering Manager Stephen Marez, Electrical Engineering Manager
Legislative File:	13801-21

Title

Public Hearing for Modification of Department of Public Utilities Rules and Regulations - Rule E-5 Interconnection - Connection with Cogeneration and Small Power Producers and the Fee Schedule.

Recommended Action

I move that the Board of Public Utilities approve as presented the modifications to the following Department of Public Utilities Rules and Regulations: Rule E-5 Interconnection - Connection with Cogeneration and Small Power Procedures and the Fee Schedule.

Staff Recommendation

Staff recommends changes to Rule E-5 Interconnection - Connection with Cogeneration and Small Power Producers and the associated Fee Schedule as presented.

Body

With the recent goal adopted by the Board of Public Utilities to achieve 6 MW of solar PV penetration by 2040, staff proposes some minor modifications to Rule E-5 and the associated Fee Schedule. The current language in Rule E-5 indicates that a customer is limited to the **lesser** of 10 kW for residential and 100 kW for commercial customers or the capacity available on the transformer serving the customer. This program has been popular with some homeowners because there is an Investment tax credit making roof top solar economical. This calendar year the IRS is offering for property placed in service after December 31, 2020, and before January 1, 2022, a 22 percent tax credit.

Staffs first recommendation is adding to the definitions section E-5.02, acronyms used throughout the document.

Staffs second recommendation changes to Purchases of Energy from Customer-Owned Qualifying Facilities, E-5.03. We propose this language be modified, so that a customer is limited to the level of current consumption **up to** 10 kW for residential and 100 kW for commercial customers, if the capacity available on the transformer serving the customer is sufficient. While it was suggested by the BPU that DPU should remove the distributed generation caps in Rule E-5, DPU staff does not believe that at this time it would be financially sustainable until other mechanisms can be implemented, i.e. Completion of the AMI project and a Modified rate structure to fairly allocate the cost of service to all customers while also recognizing the contributions of distributed generation.

Staffs third recommendation changes to Purchases of Energy from Customer-Owned Qualifying Facilities, E-5.03. We propose increasing 2,000 kW to 6,000 kW of capacity in the aggregate, of solar, wind, or other renewable energy from customer owned qualifying facilities within the service area of Utility.

Staffs fourth recommendation is changes to Exemption or Variance, E-5.08, B. We propose adding the language to make it clear that any applicant applying for exemption or variance shall be responsible for all necessary costs for system upgrades as determined by the utility. The Exemption or Variance currently provides a process for any applicant to request an exemption or variance to the rule.

Staffs fifth and final recommendation is changes to the Fee Schedule under Construction Fees, Residential Net Meter application & inspection (2 trips), incremental cost of Net meter and labor to install Net meter. We propose adding materials and the necessary upgrades to the existing transformer serving the resident to be included in the fee. It is recommended that the fee increase from \$260.00 to \$360.00 to account for the upgrades.

Alternatives

Do nothing or direct the Utilities Manager to revisit the rule with some specific changes the Board wishes to see incorporated.

Fiscal and Staff Impact

No fiscal or staff impact associated with these changes.

Attachments

A -Rule E-5 Redline

B - Rule E-5 Changes Accepted

C - Fee Schedule Redline

**RULES AND REGULATIONS
ELECTRIC (E)
RULE E-5
INTERCONNECTION - CONNECTION WITH COGENERATION
AND SMALL POWER PRODUCERS**

E-5.01 GENERAL

The purpose of this rule is to provide for the purchase of energy from customers of the Utility meeting the interconnection requirements for Qualifying Facilities.

All interconnections with the electric distribution system require prior written approval by the Utility department of Engineering, the completion of the Interconnection Agreement (see Appendix I) and the payment of all applicable fees.

E-5.02 DEFINITIONS

As used in this rule, unless otherwise specified:

- A. "Qualifying Facility" means a cogeneration or a small power production facility which ~~has a design capacity of 10 kW or less and~~ meets the criteria for qualification contained in 18 C.F.R. Section 292.203, or such other criteria as may be reasonably prescribed by rule by the Utility.
- B. "Customer" means a customer of Utility who owns or operates a Qualifying Facility-
- C. kW – Kilowatts is a measure of power: 1000 watt = 1 kW
- D. kWh – Kilowatt Hours is a measure of consumption. A 1 kW heater used over one hour will consume 1 kWh.
- E. PV – Photovoltaic: PV system inverters and generators are sized according to the maximum power output they can produce in kW.
- F. AC – Alternating Current
- G. DC – Direct Current

E-5.03 PURCHASES OF ENERGY FROM CUSTOMER-OWNED QUALIFYING FACILITIES

Utility may purchase up to ~~62~~000 kW of capacity, in the aggregate, of solar, wind, or other renewable energy from customer-owned Qualifying Facilities within the service area of Utility. ~~—The maximum purchase from any residential customer is limited to the lesser of 10 kW or the capacity available on the transformer serving the customer. The maximum purchase from all other customers is limited to a lesser of 100KW or the capacity of the transformer serving that customer.~~

The system maximum installed capacity for any individual residential location is limited to the capacity in kW sufficient to produce energy up to the level of total consumption of the residence based on actual consumption for the immediately preceding twelve months, using standard efficiency and availability calculations for the Los Alamos service area as defined by the Department, with a maximum allowed of 10 kW DC.

The system maximum installed capacity for any commercial location is limited to the capacity in kW sufficient to produce energy up to the level of total consumption of the customer based on actual consumption for the immediately preceding twelve months, using standard efficiency and availability calculations as defined by the Department, with a maximum allowed of 100 kW DC, if the capacity available on the transformer serving the customer is sufficient. For commercial customers upgrade of transformer capacity will be at the customer's expense.

The Customer shall submit system specifications which size the output of the PV system to offset existing average annual consumption. The customer can obtain this information from the utility bill or by calling customer service (505-662-8333). The utility will compare the previous annual consumption to the

[proposed production using the "PVWATTS" website \(https://pvwatts.nrel.gov/\) or an equivalent energy output estimation method.](https://pvwatts.nrel.gov/)

E-5.04 PROCEDURE FOR INTERCONNECTION

- A. General. Unless otherwise specifically provided for in a special interconnection agreement negotiated with the Utility, the procedures for standard interconnection agreements and interconnections set forth in this rule shall be followed.
- B. Conditions of interconnection. Utility shall interconnect with any Qualifying Facility which:
 - 1) is covered by a signed standard or special interconnection agreement between the customer and Utility, which is consistent with the approved form of agreement set forth in this rule;
 - 2) is capable of operating safely and commencing the delivery of power into the Electric Utility's system, including but not limited to protection from over currents, fault currents, frequency disturbances, and voltage differentials;
 - 3) has met all applicable safety and performance standards established by local and national electrical codes, including the most recent National Electrical Code (NEC), the most recent National Electrical Safety Code (NESC), the Institute of Electrical and Electronics Engineers (IEEE), and Underwriters Laboratories, as well as all applicable safety and performance standards adopted by rule of the Utility that are necessary to protect public safety and system reliability;
 - 4) was constructed in accordance with a design that has been submitted to and approved by the Utility;
 - 5) has been installed by a licensed electrician who has obtained all required permits and inspections.
- C. Isolation transformers and disconnection switches. Utility shall not require an isolation transformer for interconnection of single phase photovoltaic Facilities meeting the requirements of Subsection B of this section. If Utility determines that an isolation transformer is required for other types of Qualifying Facilities, the Utility may require the transformer by providing written notice to the Customer at the time of application. The customer shall have installed and maintained in proper operating condition, at Customer's sole expense, a separate load break disconnect switch as a visible means of disconnection, unless the customer and Utility shall agree in writing to the use of the meter as a visible means of disconnecting single-phase photovoltaic facilities.
- D. Meters. A single reversible meter shall be used unless an alternate metering arrangement is agreed to by the customer and Utility. The register shall be used to measure the amount of energy delivered by the Utility to the customer and will reverse enabling measurement of the amount of energy which is produced by the Qualifying Facility and delivered to Utility. The customer shall be required to pay the cost of the required metering equipment with the exception of the meter. Within twenty (20) days of receiving notification from the customer of the intent to interconnect, the Utility will notify the customer of any metering costs. Charges for special metering costs shall be paid by the customer, or arrangements for payment agreed to between the customer and Utility, prior to the Utility authorizing interconnected operation.
- E. Liability insurance. Customers are urged to obtain adequate liability insurance to cover risks, liabilities, and consequences, which may arise as a result of interconnection with a utility system. For good cause shown, the Utility may require a customer to obtain general liability insurance.
- F. Provision of interconnection agreement. The Utility shall provide a standard interconnection agreement within ten (10) days of a request for such form. When a customer enters into an interconnection agreement pursuant to this rule, the Utility shall provide the customer with a copy of that interconnection agreement. Utility shall provide a blank form of application for interconnection within ten (10) days of a written request for such form. The Utility shall maintain a file of each interconnection agreement entered into by the Utility.

E-5.05 METERING CALCULATION

Utility shall calculate each customer's bill for the billing period using the standards and conditions stated in this section.

- A. Applicable rate. Customers shall be billed for service in accordance with the rate structure and monthly charges that the customer would be assigned if the customer had not interconnected a Facility with Utility's system, plus any incremental cost of required metering equipment. Energy produced or consumed on a monthly basis shall be measured in accordance with standard net metering practice. Power supplied to the customer will be billed at the customer's applicable rate under Utility's current rate schedule.
- B. Credit for excess energy. If electricity generated by the customer exceeds the electricity supplied by the Utility during a billing period, the Utility shall credit the customer through a balancing account for the excess kilowatt-hours generated, by crediting the customer for the net energy supplied to the Utility. The rate paid or credited to the Customer will be the Utility's average cost for capacity and energy from the Los Alamos County Resource Pool for the previous year. The Customers balancing account shall be closed out annually and any funds owing to the Customer will be paid within 30 days.

E-5.06 COMPLAINTS AND INVESTIGATIONS

Any disputes over the implementation of this rule shall be addressed in accordance with dispute resolution procedures set forth in the rules governing service from Utility.

E-5.07 SEVERABILITY

If any part of this rule or any application thereof is held invalid, the remainder of this rule or its application to other situations or persons shall not be affected.

E-5.08 EXEMPTION OR VARIANCE

- A. Any interested person may file an application for an exemption or a variance from the requirements of this rule. Such application shall:
 - 1) describe the situation which necessitates the exemption or variance;
 - 2) set forth the effect of complying with this rule on the utility and its customers if the exemption or variance is not granted;
 - 3) identify the Section of this rule for which the exemption or variance is requested;
 - 4) describe the result which the request will have if granted;
 - 5) state how the exemption or variance will promote the achievement of the purposes of this rule; and,
 - 6) state why no other reasonable alternative is available.
- B. If the Utility determines that the exemption or variance is consistent with the purposes of this rule, the exemption or variance may be granted. The Utility may, at its option, require an informal conference or formal evidentiary hearing prior to the granting of the variance. All exemption or variance requests will be considered on an individual basis and the customer shall be responsible for all necessary system upgrade costs as determined by the utility.

E-5.09 REQUEST FOR STAY PENDING AMENDMENT, EXEMPTION, OR VARIANCE

A request for an amendment, exemption, or a variance from the requirements of this rule may include a request that the Utility stay the application of the affected portion of this rule for the transaction specified in the motion. Utility has the sole discretion to determine whether to grant a request for an amendment,

exemption or variance or an accompanying request for a stay. In reviewing such request, Utility will not act unreasonably.

E-5.10 CUSTOMER INFORMATION

Utility will provide information to all customers regarding this rule, including, but not limited to, contact persons and a description of terms and conditions for purchases from Qualifying Facilities.

**RULES AND REGULATIONS
ELECTRIC (E)
RULE E-5
INTERCONNECTION - CONNECTION WITH COGENERATION
AND SMALL POWER PRODUCERS**

E-5.01 GENERAL

The purpose of this rule is to provide for the purchase of energy from customers of the Utility meeting the interconnection requirements for Qualifying Facilities.

All interconnections with the electric distribution system require prior written approval by the Utility department of Engineering, the completion of the Interconnection Agreement (see Appendix I) and the payment of all applicable fees.

E-5.02 DEFINITIONS

As used in this rule, unless otherwise specified:

- A. "Qualifying Facility" means a cogeneration or a small power production facility which meets the criteria for qualification contained in 18 C.F.R. Section 292.203, or such other criteria as may be reasonably prescribed by rule by the Utility.
- B. "Customer" means a customer of Utility who owns or operates a Qualifying Facility
- C. kW – Kilowatts is a measure of power: 1000 watt = 1 kW
- D. kWh – Kilowatt Hours is a measure of consumption. A 1 kW heater used over one hour will consume 1 kWh.
- E. PV – Photovoltaic: PV system inverters and generators are sized according to the maximum power output they can produce in kW.
- F. AC – Alternating Current
- G. DC – Direct Current

E-5.03 PURCHASES OF ENERGY FROM CUSTOMER-OWNED QUALIFYING FACILITIES

Utility may purchase up to 6000 kW of capacity, in the aggregate, of solar, wind, or other renewable energy from customer-owned Qualifying Facilities within the service area of Utility.

The system maximum installed capacity for any individual residential location is limited to the capacity in kW sufficient to produce energy up to the level of total consumption of the residence based on actual consumption for the immediately preceding twelve months, using standard efficiency and availability calculations for the Los Alamos service area as defined by the Department, with a maximum allowed of 10 kW DC.

The system maximum installed capacity for any commercial location is limited to the capacity in kW sufficient to produce energy up to the level of total consumption of the customer based on actual consumption for the immediately preceding twelve months, using standard efficiency and availability calculations as defined by the Department, with a maximum allowed of 100 kW DC, if the capacity available on the transformer serving the customer is sufficient. For commercial customers upgrade of transformer capacity will be at the customer's expense.

The Customer shall submit system specifications which size the output of the PV system to offset existing average annual consumption. The customer can obtain this information from the utility bill or by calling customer service (505-662-8333). The utility will compare the previous annual consumption to the proposed production using the "PVWATTS" website (<https://pvwatts.nrel.gov/>) or an equivalent energy output estimation method.

E-5.04 PROCEDURE FOR INTERCONNECTION

- A. General. Unless otherwise specifically provided for in a special interconnection agreement negotiated with the Utility, the procedures for standard interconnection agreements and interconnections set forth in this rule shall be followed.
- B. Conditions of interconnection. Utility shall interconnect with any Qualifying Facility which:
 - 1) is covered by a signed standard or special interconnection agreement between the customer and Utility, which is consistent with the approved form of agreement set forth in this rule;
 - 2) is capable of operating safely and commencing the delivery of power into the Electric Utility's system, including but not limited to protection from over currents, fault currents, frequency disturbances, and voltage differentials;
 - 3) has met all applicable safety and performance standards established by local and national electrical codes, including the most recent National Electrical Code (NEC), the most recent National Electrical Safety Code (NESC), the Institute of Electrical and Electronics Engineers (IEEE), and Underwriters Laboratories, as well as all applicable safety and performance standards adopted by rule of the Utility that are necessary to protect public safety and system reliability;
 - 4) was constructed in accordance with a design that has been submitted to and approved by the Utility;
 - 5) has been installed by a licensed electrician who has obtained all required permits and inspections.
- C. Isolation transformers and disconnection switches. Utility shall not require an isolation transformer for interconnection of single phase photovoltaic Facilities meeting the requirements of Subsection B of this section. If Utility determines that an isolation transformer is required for other types of Qualifying Facilities, the Utility may require the transformer by providing written notice to the Customer at the time of application. The customer shall have installed and maintained in proper operating condition, at Customer's sole expense, a separate load break disconnect switch as a visible means of disconnection, unless the customer and Utility shall agree in writing to the use of the meter as a visible means of disconnecting single-phase photovoltaic facilities.
- D. Meters. A single reversible meter shall be used unless an alternate metering arrangement is agreed to by the customer and Utility. The register shall be used to measure the amount of energy delivered by the Utility to the customer and will reverse enabling measurement of the amount of energy which is produced by the Qualifying Facility and delivered to Utility. The customer shall be required to pay the cost of the required metering equipment with the exception of the meter. Within twenty (20) days of receiving notification from the customer of the intent to interconnect, the Utility will notify the customer of any metering costs. Charges for special metering costs shall be paid by the customer, or arrangements for payment agreed to between the customer and Utility, prior to the Utility authorizing interconnected operation.
- E. Liability insurance. Customers are urged to obtain adequate liability insurance to cover risks, liabilities, and consequences, which may arise as a result of interconnection with a utility system. For good cause shown, the Utility may require a customer to obtain general liability insurance.
- F. Provision of interconnection agreement. The Utility shall provide a standard interconnection agreement within ten (10) days of a request for such form. When a customer enters into an interconnection agreement pursuant to this rule, the Utility shall provide the customer with a copy of that interconnection agreement. Utility shall provide a blank form of application for interconnection within ten (10) days of a written request for such form. The Utility shall maintain a file of each interconnection agreement entered into by the Utility.

E-5.05 METERING CALCULATION

Utility shall calculate each customer's bill for the billing period using the standards and conditions stated

in this section.

- A. Applicable rate. Customers shall be billed for service in accordance with the rate structure and monthly charges that the customer would be assigned if the customer had not interconnected a Facility with Utility's system, plus any incremental cost of required metering equipment. Energy produced or consumed on a monthly basis shall be measured in accordance with standard net metering practice. Power supplied to the customer will be billed at the customer's applicable rate under Utility's current rate schedule.
- B. Credit for excess energy. If electricity generated by the customer exceeds the electricity supplied by the Utility during a billing period, the Utility shall credit the customer through a balancing account for the excess kilowatt-hours generated, by crediting the customer for the net energy supplied to the Utility. The rate paid or credited to the Customer will be the Utility's average cost for capacity and energy from the Los Alamos County Resource Pool for the previous year. The Customers balancing account shall be closed out annually and any funds owing to the Customer will be paid within 30 days.

E-5.06 COMPLAINTS AND INVESTIGATIONS

Any disputes over the implementation of this rule shall be addressed in accordance with dispute resolution procedures set forth in the rules governing service from Utility.

E-5.07 SEVERABILITY

If any part of this rule or any application thereof is held invalid, the remainder of this rule or its application to other situations or persons shall not be affected.

E-5.08 EXEMPTION OR VARIANCE

- A. Any interested person may file an application for an exemption or a variance from the requirements of this rule. Such application shall:
 - 1) describe the situation which necessitates the exemption or variance;
 - 2) set forth the effect of complying with this rule on the utility and its customers if the exemption or variance is not granted;
 - 3) identify the Section of this rule for which the exemption or variance is requested;
 - 4) describe the result which the request will have if granted;
 - 5) state how the exemption or variance will promote the achievement of the purposes of this rule; and,
 - 6) state why no other reasonable alternative is available.
- B. If the Utility determines that the exemption or variance is consistent with the purposes of this rule, the exemption or variance may be granted. The Utility may, at its option, require an informal conference or formal evidentiary hearing prior to the granting of the variance. All exemption or variance requests will be considered on an individual basis and the customer shall be responsible for all necessary system upgrade costs as determined by the utility.

E-5.09 REQUEST FOR STAY PENDING AMENDMENT, EXEMPTION, OR VARIANCE

A request for an amendment, exemption, or a variance from the requirements of this rule may include a request that the Utility stay the application of the affected portion of this rule for the transaction specified in the motion. Utility has the sole discretion to determine whether to grant a request for an amendment, exemption or variance or an accompanying request for a stay. In reviewing such request, Utility will not act unreasonably.

E-5.10 CUSTOMER INFORMATION

Utility will provide information to all customers regarding this rule, including, but not limited to, contact persons and a description of terms and conditions for purchases from Qualifying Facilities.

**RULES AND REGULATIONS
FEE SCHEDULE (FS)**

Administrative Fees		
Account Initiation and Transfer Fee	\$10	
Reconnection following disconnection for non-payment – normal hours	\$60	Per trip to location, 8:00 AM to 4:00 PM M-F
Reconnection following disconnection for non-payment – after normal hours	\$200	Per trip to location, after hours, weekends and holidays
Door Hanger Fee	\$10	Per occurrence
Deposits		
Residential	\$60 per meter	
Commercial	Variable	Two times the highest anticipated monthly bill
Fire hydrant meter	\$1,500	Refundable upon meter return (All commodity charges shall be at the filed and approved rate schedule)
Service Fees		
Disconnection or reconnection of electric, gas or water – normal hours – No charge for first trip in a 24-hr period, thereafter each trip is \$75	No Charge (first trip) \$75 each additional trip	Per trip to location, 8:00 AM to 4:00 PM M-F
Emergency disconnection or reconnection of electric, gas or water – after normal hours	No Charge	Per trip to location, after hours, weekends and holidays
Non –Emergency_ disconnection or reconnection of electric, gas or water – after normal hours	\$200	Per trip to location, after hours, weekends and holidays
Furnace check fees	\$100	For up to two furnaces
Meter Test Fees (Requested by customer)		
Electric meters, all sizes	\$125	
Water meters 5/8 inch through 1-1/2 inch	\$150	
Water meters greater than 1-1/2 inch (in place test)	\$150	
Construction Fees		
New Service Installations		
100 amp electric residential service installation less than 150 feet	\$850	Prepaid
200 amp electric residential service installation less than 150 feet	\$1008	Prepaid
Residential Net Meter application & inspection (2 trips), incremental cost of Net meter, and labor <u>and materials</u> to install Net meter <u>and make any necessary upgrades to the existing transformer serving the resident</u>	\$ 23 60	Prepaid
Commercial Net Meter application & inspection	\$450	Prepaid

(2 trips), incremental cost of Net meter and labor to install Net meter		
All other electric service installations	Estimated cost	Prepaid
¾ inch gas residential service installation less than 150 feet	\$1140	Prepaid
¾ inch service line up to 150 feet, tap to main, and meter, out of road	\$1280	Prepaid
¾ inch service line up to 150 feet, tap to main in paved road, and meter	\$3040	Prepaid
Install ¾" – 1" excess flow valve on existing polyethylene service line	\$650	Prepaid
Install ¾" – 1" excess flow valve on existing steel service line	\$2540	Prepaid
Install gas valve on existing polyethylene service line	\$700	Prepaid
Install gas valve on existing steel service line	\$2850	Prepaid
All other gas service installations	Estimated cost	Prepaid
⅝ x ¾" water meter	\$440	Prepaid
⅝ x ¾" water meter with box, install out of road	\$1790	Prepaid
⅝ x ¾" water meter with box, with tap in paved road	\$3680	Prepaid
4 inch sewer tap and saddle with sewer main exposed by customer	\$430	Prepaid
All other work including sewer installations, service relocations and replacement	Estimated cost	Prepaid
North Mesa Connection Charges		
\$250 charge per undeveloped unit where the unit is located in a subdivision where the final plat has been formally accepted by the County, the charge shall be paid for by the individual customer or contractor at the time a water meter is requested	\$250 per unit	
Where the unit is located in a subdivision where the final plat has not been accepted by the County, the charge shall be paid by the subdivision's developer at the time the final plat is filed with the County	\$250 per unit	
Inspection Fees for Subdivisions/Commercial Utility Infrastructure		
Fees for inspection will be based on a percentage of the construction cost estimate for the public Utility infrastructure. Estimate shall be prepared by a Professional Engineer, registered in the state of New Mexico and signed and sealed by the New Mexico Professional Engineer and provided to County Utility Engineering Department for written approval.	5% of construction cost estimate for the public Utility infrastructure	1.If construction scope and or cost increases by 10 percent or more than original approved scope, inspection fee will be revised accordingly 2. Utility Department reserves right to modify fees if needed.



County of Los Alamos

Staff Report

February 24, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 6.A
Index (Council Goals): DPU FY2021 - N/A
Presenters: Board of Public Utilities
Legislative File: 13893-21

Title

Approval of Board of Public Utilities Meeting Minutes

Recommended Action

I move that the Board of Public Utilities approve the meeting minutes of January 20th, 2021

Body

REQUESTED REVISIONS TO THE DRAFT MINUTES

Draft minutes are sent to members after each meeting for their review. Members may then send changes to be incorporated prior to final approval of the minutes at the next regular meeting. There were no requested changes.

Attachments

A - Draft BPU Regular Session Minutes - January 20th, 2021



LOS ALAMOS

County of Los Alamos

Minutes

Board of Public Utilities

1000 Central Avenue
Los Alamos, NM 87544

Carrie Walker, Chair; Stephen McLin, Vice-chair; Eric Stromberg, Steve Tobin and Cornell Wright Members
Philo Shelton, Ex Officio Member
Harry Burgess, Ex Officio Member
James Robinson, Council Liaison

Wednesday, January 20, 2021

5:30 PM

Due to COVID-19 concerns, meeting will be conducted remotely. Public can view proceedings at <http://losalamos.legistar.com/calendar.aspx> or attend via Zoom.

REGULAR SESSION - REMOTE ZOOM MEETING

1. CALL TO ORDER

The regular meeting of the Incorporated County of Los Alamos Board of Public Utilities was held on Wednesday, January 20th at 5:30 p.m. Board Chair Carrie Walker called the meeting to order at 5:30 p.m.

The meeting was held remotely and BPU members, staff and the public participated through an online video conferencing platform. This social distancing was to comply with the recommendations of the Centers for Disease Control (CDC) to prevent the spread of COVID-19. Members of the public were able to live-stream the meeting online and submit public comment during the meeting.

Present 7 - Vice Chair McLin, Board Member Stromberg, Board Member Tobin, Chair Walker, Board Member Wright, Board Member Shelton and Board Member Burgess

2. PUBLIC COMMENT

Ms. Walker opened the floor for public comment on items on the Consent Agenda and for those not otherwise included on the agenda. There were no comments.

3. APPROVAL OF AGENDA

Mr. McLin asked that item 6.H. be moved off consent. It was moved to be taken up after item 7.C. on Business.

Ms. Walker moved that the agenda be approved as amended. The motion passed by the following vote:

Yes: 5 - Vice Chair McLin, Board Member Stromberg, Board Member Tobin, Chair Walker and Board Member Wright

4. BOARD BUSINESS

4.A. Chair's Report

Ms. Walker reported on the following items:

1) Ms. Walker thanked Councilor Ryti for his service to the Board as Council Liaison and welcomed Councilor Robinson as the new Liaison.

4.B. Board Member Reports

Board members had nothing to report.

4.C. Utilities Manager's Report

Mr. Shelton provided a written report, which is included in the minutes as an attachment. The following additional information was given during the report:

1) Mr. McLin and Mr. Tobin were selected as the two members who could attend the White Rock Wastewater Recovery Facility public meeting scheduled for January 21st.

2) Regarding the Community Development code update, Mr. Wright asked if there would be any impact to the Utilities Department. Mr. Shelton explained that most of the development projects are infill or increase in density type projects, which will actually benefit the Department by increasing customers. However, there are no plans to extend utilities to new developments.

3) Mr. Shelton clarified for Mr. Stromberg that the accident he discussed involving a gas regulator station was not actually an accident, but was the scenario for an emergency planning tabletop exercise identified in the Utilities Manager's report.

4.D. County Manager's Report

Mr. Burgess reported on the following items:

1) One of Council's legislative priorities was to address the Inspection of Public Records Act (IPRA) information associated with utility bills. People could potentially request copies of other individual's bills, which could have security issues. This issue was discussed with similar legislative groups in prior years, but was brought up again this year. They received a positive response and were asked for a draft bill. Mr. Burgess has already been conversing with Mr. Shelton, as well as the County's lobbyists, to determine a path forward to get something drafted. If a bill is not passed this year, drafting the bill now could highlight the issue for the legislature for consideration in future years.

2) The County has had an increase in reported positives, exposures and other related COVID issues amongst staff over the past several weeks. Mr. Burgess believes that's partly indicative of the national situation and how it's translated locally with the rise in the number of cases experienced in Los Alamos. In response to that, he has decided to reinstitute a leave allowance similar to that given under the Family First Coronavirus Relief Act so that employees who are exposed can participate in a quarantine without affecting their personal leave. The idea is to promote people reporting symptoms, as opposed to hiding them because they might have to utilize their own personal leave. There will be some parameters and employees can't use that leave multiple times. The Federal government had such a policy, however, it ended in December. The County complied with the end of that benefit at that at the time; however, looking at the cases, Mr. Burgess thinks this course of action is the appropriate thing to do.

3) The County is holding Monday COVID-19 vaccinations into the near future. Two clinics have been contacted. So far, the Fire Department personnel are doing the inoculations, and the County is using the Department of Health registry. This past Monday was the first time that the County extended beyond group 1A, which was health care workers, and went to 1B, which includes senior citizens and certain essential workers. Included in that are certain County employees. The County has begun the process of getting essential employees inoculated. There were 804 vaccinations delivered on Monday to individuals. Some of them initially were those receiving their second shot. 128 county employees did receive their shot on that day. Mr. Burgess anticipates that with future clinics planned, the County will continue to make a dent in the potential for exposure going forward.

4) Mr. Burgess announced his pending retirement in May, which means his successor will become a member of this Board.

5) As part of the Council's strategic leadership priorities, they did adopt two new priorities. One of them was communication and the other was broadband. The broadband discussion has been held with the Utilities Department in the past. Mr. Burgess was not suggesting that Council's adoption of this priority dictates that it be a Utilities priority, but it is a potential avenue of conversation going forward.

With regards to the IPRA initiative, Mr. Wright noted that he had raised this issue to the Board in the past and was pleased to see it revisited. He offered his services if Mr. Shelton would like input to help draft or review potential changes to the legislation.

With regards to the broadband initiative, Mr. Wright disclosed that he has been helping Councilor Israelivitz, who is acting on his own behalf, with a survey about broadband usage and has been helping him analyze some of the data from that.

4.E. Council Liaison's Report

Councilor Robinson provided a written report, which is included in the minutes as an attachment.

4.F. Environmental Sustainability Board Liaison's Report

Mr. Lochelle provided a written report, which is included in the minutes as an attachment. The following additional information was given during the report:

With regards to single stream recycling, Mr. Stromberg discussed his experience in other cities and countries where the consumer separates recycling into many different categories for the appropriate type of waste, and the responsibility for segregation falls to the individual. He asked what kind of conversations the ESB has had about implementing this type of approach in Los Alamos. Mr. Lochelle responded that the County does already have that in place to some extent but has only discussed a little the idea of expanding the categories. Mr. Tobin further discussed his experiences in Sweden, New Zealand and Japan, giving further possible recycling segregation strategies the ESB could consider.

Mr. Lochelle confirmed that he would continue to be the ESB Liaison to BPU.

4.G. General Board Business

4.G.1 [13467-20](#) Election of Board of Public Utilities Chair and Vice-chair for 2021

Presenters: Carrie Walker

The Board of Public Utilities shall annually elect its chair and such officers as it desires from among its members. The election shall occur at the regular meeting in January of each year. (LAC Ordinance Sec. 40-41. Board of public utilities - Organization)

ELECTION OF BOARD CHAIR:

Mr. McLin nominated Mr. Wright.

Mr. Tobin nominated Ms. Walker. Ms. Walker withdrew her name from the vote.

Mr. Wright nominated Mr. Tobin. Mr. Tobin withdrew his name from the vote.

After a roll call vote, Mr. Wright was appointed Board Chair.

Mr. Wright: 4 - Member McLin, Member Stromberg, Member Tobin , Member Walker

Abstain - Member Wright

ELECTION OF BOARD VICE-CHAIR:

Mr. McLin nominated Mr. Stromberg.

Mr. Stromberg nominated Mr. McLin.

Mr. Tobin nominated Ms. Walker.

After a roll call vote, Mr. McLin was appointed Board Vice-chair.

Mr. Stromberg: 1 - Member McLin

Mr. McLin: 3 - Member Stromberg, Member Wright, Member Walker

Ms. Walker: 1 - Member Tobin

4.G.2 [13468-20](#)

Appointment of Board Member to Audit Committee for 2021

Presenters: Carrie Walker

Mr. Stromberg was appointed to the Audit Committee for 2021.

4.G.3 [13471-20](#)

Schedule and Selection of Members to Attend Boards & Commissions Luncheons for 2021

Presenters: Carrie Walker

Regular County Boards & Commissions luncheons are scheduled to give these groups an opportunity to work with one another and with Council representatives. Only one representative from each board or commission is asked to attend. However, while COVID-19 social distancing restrictions are in place, these luncheons have been postponed.

The Board will revisit this when the restrictions are lifted and the luncheons resume.

None

4.H. Approval of Board Expenses

There were no Board expenses.

4.I. Preview of Upcoming Agenda Items

4.I.1 [13773-21](#) Tickler File for the Next 3 Months

Presenters: Board of Public Utilities

No additional items were identified for the tickler.

5. PUBLIC HEARING(S)

5.A [13668-20](#) Public Hearing for Modification of Department of Public Utilities Rules and Regulations - Rule E-5 Interconnection - Connection with Cogeneration and Small Power Producers and the Fee Schedule.

Presenters: Electrical Engineering Manager Stephen Marez

Electrical Engineering Manager Mr. Steve Marez presented this item. The following is the substance of the item being considered.

With the recent goal adopted by the Board of Public Utilities to achieve 6 MW of solar PV penetration by 2040, staff proposed some minor modifications to Rule E-5 and the associated Fee Schedule. The current language in Rule E-5 indicates that a customer is limited to the lesser of 10 kW for residential and 100 kW for commercial customers or the capacity available on the transformer serving the customer. This program has been popular with some homeowners because there is a federal tax credit for alternative energy equipment. This calendar year, the IRS is offering for property placed in service after December 31, 2020, and before January 1, 2022, a 22 percent tax credit. Staff presented the details of the suggested modifications.

The Board discussed this item and requested clarification where necessary.

Board members gave staff feedback regarding the language and format of the proposed changes, with the concern that they were unclear and inaccurate from an engineering point of view. Staff noted requested changes, will incorporate those suggestions into the proposed revision and will return to the Board at a later date for approval.

Mr. McLin moved that the Board of Public Utilities approve as presented the modifications to the following Department of Public Utilities Rules and Regulations: Rule E-5 Interconnection - Connection with Cogeneration and Small Power Procedures and the Fee Schedule. The motion failed by the following vote:

No: 5 - Vice Chair McLin, Board Member Stromberg, Board Member Tobin, Chair Walker and Board Member Wright

Mr. Wright moved that the Board withdraw this from consideration tonight and that the wording be revised and brought back to the Board at a future meeting. The motion passed by the following vote:

Yes: 5 - Vice Chair McLin, Board Member Stromberg, Board Member Tobin,
Chair Walker and Board Member Wright

6. CONSENT AGENDA

Mr. McLin moved that the Board of Public Utilities approve the items on the
Consent Agenda as amended and that the motions contained in the staff reports
be included in the minutes for the record. The motion passed by the following
vote:

Yes: 5 - Vice Chair McLin, Board Member Stromberg, Board Member Tobin,
Chair Walker and Board Member Wright

6.A [13753-21](#) Approval of Board of Public Utilities Meeting Minutes

Presenters: Department of Public Utilities

I move that the Board of Public Utilities approve the meeting minutes of
December 16th, 2020 as presented.

6.B [13559-20](#) Approval of Agreement No. 20-RMR-3182 with Western Area Power
Administration (WAPA) for Balancing Services Agreement

Presenters: Steve Cummins

I move the Board of Public Utilities approve Agreement 20-RMR-3182 with
Western Area Power Administration for Balancing Services and forward to
Council for approval.

6.C [OR0875-20](#) Incorporated County of Los Alamos Ordinance No. 706; Loan/Grant
Agreement with the New Mexico Finance Authority for Otowi Well #2 Pump
House and Equipment and Otowi Well #4 Motor Control Center Project

Presenters: James Alarid

I move that the Board of Public Utilities approve Incorporated County of Los Alamos, New Mexico Ordinance No. 706 Authorizing The Execution And Delivery Of A Loan And Subsidy Agreement ("Loan Agreement") By And Between the Incorporated County Of Los Alamos, New Mexico (The "Governmental Unit") And The New Mexico Finance Authority, Evidencing A Special Limited Obligation Of The Governmental Unit To Pay A Principal Amount Of No More Than \$2,773,418, Together With Expenses, If Any, And Administrative Fees, Thereon, And To Accept A Loan Subsidy Of No More Than \$79,832, For The Purpose Of Financing The Costs Of (I) Designing And Constructing A Well House, Pumps And The Associated Equipment For Otowi Well #2 And (Ii) Replacing The Motor Control Center To Otowi Well #4; Providing For The Pledge And Payment Of The Principal, Administrative Fees And Interest Due Under The Loan Agreement Solely From The Net Revenues Of The Joint Utility System Of The Governmental Unit; Setting An Interest Rate For The Loan; Approving The Form Of And Other Details Concerning The Loan Agreement; Ratifying Actions Heretofore Taken; Repealing All Action Inconsistent With This Ordinance; And Authorizing The Taking Of Other Actions In Connection With The Execution And Delivery Of The Loan Agreement, and forward to Council with a recommendation for approval. I further move to authorize the County Attorney to make nonsubstantive changes to the documents prior to Council approval.

- 6.D [13698-20](#) Vactor Truck Emergency Rental Approval Expenditure Authority in the Amount of \$119,000.00 for Maintaining the Wastewater Collection System

Presenters: Jack Richardson

I move that the Board of Public Utilities approve an increase of \$69,000.00 in the Wastewater System budget authority for a total amount of \$119,000.00 for extension of the agreement (time and amount) for the emergency rental of a Vactor Truck for maintaining the wastewater collection system.

- 6.E [AGR0727-20](#) Approval of AGR21-937 Non-Tariff Wires to Wires Interconnection Update Study Agreement with the Public Service Company of New Mexico (PNM) for the Third Power Line to Los Alamos County

Presenters: Steve Cummins

I move that the Board of Public Utilities approve the Non-Tariff Wire to Wires Interconnection Update Study Agreement No. AGR21-937 between the Incorporated County of Los Alamos and the Public Service Company of New Mexico in the amount of 64,595.00, plus a 10% contingency for a total amount of \$71,054.50 plus applicable NMGT.

- 6.F [13469-20](#) Affirmation of the Incorporated County of Los Alamos Open Meetings Resolution No. 21-01

Presenters: Carrie Walker

I move that the Board of Public Utilities affirm Incorporated County Of Los Alamos Resolution No. 21-01; A Resolution Establishing Minimum Standards of Reasonable Notice to the Public for All Meetings of the Council, the County Indigent Hospital and County Health Care Board and of all County Boards, Commissions and Policymaking Bodies

- 6.G [13470-20](#) Approval of Meeting Agenda Outline for 2021

Presenters: Carrie Walker

I move that the Board of Public Utilities approve the meeting agenda outline for 2021 as presented.

7. BUSINESS

7.A 13588-20 Consideration of Alternatives to the Baldrige Performance Excellence Program

Presenters: Philo Shelton

Mr. Shelton presented this item. The following is the substance of the item being considered.

This is a follow-up to the information presented to the Board at the November 15th, 2020 meeting. This past fiscal year the Board chose to apply for a Zia award from Quality New Mexico (QNM) to satisfy a charter requirement that every five years an outside agency review DPU's operations. QNM administers the New Mexico Performance Excellence Awards program based on the national Malcolm Baldrige framework for performance excellence. In April 2020, after review of the feedback report, the Board asked staff to identify alternatives to the Baldrige Performance Excellence Program. Additionally, APWA has an accreditation manual to use for the development of Standard Operating Procedures (SOPs), and where APWA may not have applicable SOPs, staff proposes to use the ISO industry standards and benchmarks. The APWA accreditation process should fulfill the charter operations review requirement and meet the desired outcome to strengthen the Department's SOP's that are tied to appropriate industry metrics, which are then reviewed by industry professionals as part of an accreditation process. Mr. Lawrence Chavez from Los Alamos National Lab was present to discuss their experience with the APWA accreditation process.

The Board discussed this item and requested clarification where necessary.

Mr. Tobin moved that the Board of Public Utilities support DPU applying for Accreditation with American Public Works Association (APWA) and use elements from the ISO program to support this APWA application for Accreditation as an alternative to applying for another Zia or Malcolm Baldrige application with Quality New Mexico in year 2025. The motion passed by the following vote:

Yes: 5 - Vice Chair McLin, Board Member Stromberg, Board Member Tobin, Chair Walker and Board Member Wright

Ms. Walker called for a recess at 7:30 p.m. The meeting reconvened at 7:35 p.m.

7.B 13694-20 Survey Results for Board of Public Utilities' Environmental Goals

Presenters: Julie Williams-Hill

Public Relations Manager Ms. Julie Williams-Hill presented this item. The following is the substance of the item being considered.

At the October 20, 2020 Board of Public Utilities meeting, members of the BPU requested that the department conduct a survey of the community to determine the level of support or opposition to the newly adopted environmental goals. Triton Polling and Research conducted the live phone survey and online email survey from December 14th through

December 18th and obtained 515 responses. The survey results indicate that there is more citizen support for each environmental goal than citizen opposition. Ms. Williams-Hill presented the results in detail.

The Board discussed this item and requested clarification where necessary.

7.C [13757-21](#)

Approval of Amendment No. 1 to the Power and Renewable Energy Credit Sales Agreement, County Agreement No. AGR20-926 between Uniper Global Commodities North America, LLC and the Incorporated County of Los Alamos, New Mexico.

Presenters: Steve Cummins

Deputy Utility Manager for Power Supply Mr. Steve Cummins presented this item. The following is the substance of the item being considered.

Mr. Cummins introduced Mr. Damian Irizarry from Uniper, who gave a presentation on this topic. In January 2020, the Board and Council approved a Power and Renewable Energy Credit Sales Agreement with Uniper Global Commodities North America, LLC. The Contract Quantity is a Firm 15 MW's Around the Clock (ATC) Power Purchase Agreement (PPA). Since the contract was executed, there has been extreme upward pricing pressure in the California Independent System Operator (CAISO) & Desert Southwest Western Electricity Coordinating Council (WECC). In consideration of the historic shift in power prices over 2020, Uniper has requested a \$3.00/MWh increase to the LAC/Uniper PPA to compensate for upward pricing pressure experienced in 2020. The current contract price is \$36.67/MWh. With the requested \$3.00/MWh to meet the contract conditions precedent, section 3.2 of the agreement, the new contract price will be \$39.67/MWh. Even with the increased price staff believes it's a good choice for Los Alamos County, and it fits well with the County's resource portfolio and carbon neutral 2040 strategic initiative. On January 13, 2021 the Operating Committee for the Electric Coordination Agreement (ECA) approved the increase as an approved resource.

The Board discussed this item and requested clarification where necessary.

Mr. Wright moved that the Board of Public Utilities approve Amendment No. 1 to AGR20-936, a Power and Renewable Energy Credit Sales Agreement, between Uniper Global Commodities North America, LLC and the Incorporated County of Los Alamos and forward to Council with a recommendation for approval. The motion passed by the following vote:

Yes: 5 - Vice Chair McLin, Board Member Stromberg, Board Member Tobin, Chair Walker and Board Member Wright

ITEM 6.H. WAS MOVED FROM CONSENT TO BUSINESS.

6.H [13472-20](#)

Approval of Board of Public Utilities Meeting Calendar for 2021

Presenters: Carrie Walker

Annually in January, the Board considers a meeting calendar for adoption. Mr. McLin noted that February 17th is Ash Wednesday and asked if the meeting could be moved. Staff will find an available date for the February meeting and will publish a revised final calendar.

Mr. Wright moved that the Board of Public Utilities approve the meeting schedule as presented, with the exception of February, which Mr. Wright will set with the assistance of staff, between February 10th and February 24th inclusive. The motion passed by the following vote:

Yes: 5 - Vice Chair McLin, Board Member Stromberg, Board Member Tobin, Chair Walker and Board Member Wright

8. GENERAL BOARD BUSINESS CONTINUED

8.A [13686-20](#) 2020 Board of Public Utilities Annual Self-evaluation

Presenters: Carrie Walker

Ms. Walker presented this item. The following is the substance of the item being considered.

The Board conducted its annual self-evaluation using the same questionnaire that was used for the 2019 evaluation. The Board scored each question, provided comments and identified action items for improvement.

The following actions were identified for follow-up:

1) Ms. Walker will compile the scores, comments and action items on a spreadsheet that will be presented to the Board at the February regular meeting for approval. The final evaluation will be included in those minutes as an attachment.

9. STATUS REPORTS

9.A [13770-21](#) Status Reports

Presenters: Department of Public Utilities

The following informational status reports were provided to the Board in the agenda packet:

- 1) Electric Reliability Update
- 2) Accounts Receivables Report
- 3) Safety Report

10. PUBLIC COMMENT

Ms. Walker opened the floor for public comment on any items. There were no comments.

11. ADJOURNMENT

The meeting adjourned at 10:18 p.m.

APPROVAL

Board of Public Utilities Chair Name

Board of Public Utilities Chair Signature

Date Approved by the Board

ATTACHMENT
OFFICER REPORTS
SUBMITTED AT THE MEETING

**Utility Manager's Report
January 20, 2021**

1. The DPU supervision team continue to hold weekly meetings regarding our response to COVID-19 issues. A LANL employee shared that neck gators or bandana face coverings are only 50% effective in reducing the spread of the virus and as a result of this information, I asked my team to use cloth masks or surgical masks as much as possible and especially when approaching any members of the public. On January 18th frontline staff were eligible to receive the vaccinee and approximately a quarter of the department has received the first dose. Employees who can telework were not eligible for this vaccination at this event.
2. This past month UAMPS has held two project management committee meetings. Most of these meeting efforts were to approve setting up a CFPP LLC, establish a separate accounting firm contract and accounting system so to best segregated funds to comply with the DOE grant requirements. The DOE grant effective date is November 1, 2020. Costs on the CFPP up to October 31, 2020 were established and bills sent to exiting participants to pay their costs. As of October 31, 2020, Los Alamos County has \$89,176 invested in this initial phase and these costs are being carried forward into phase I. NuScale continues to work on securing additional subscription for the project. A letter of intent process has been established to give potential members approximately six months to learn more about the CFPP before subscribing.
3. Staff continues to work with NMED and Laboratory to cleanup an area of the soil containing the oil of approximately 1.2 cubic yards of soil located next to Otowi Well #4 at DP Los Alamos Canyons confluence. Staff has taken new soil and water samples requested by NMED and we should have the results to share with NMED next week.
4. DP Lift Station is online with only the Fire Station remaining on the old lift station. Bethel Development is required to tie in the Fire Station to their sewer manhole when they complete their sewer improvements for Canyon Walk Apartments. Staff continues to coordinate with N3B on their clean-up efforts in coordination with these utility improvements and has provided them as-built drawings for the project.
5. Staff continues participation in meetings with Community Development Department and Dekker Perich Sabatini who are working to update the County's Development Code.
6. Attended two meetings regarding the PNM and Avangrid corporate merger. The first meeting covered the benefits of the merger and second meeting covered financial protections. There were not any details covered on the San Juan Generating Station closure. However, Avangrid's corporate mission is to own and primarily use renewable resources and does not want to own coal generating resources.

7. Attended the County Council legislative meeting with Senators Robert Gonzales, Senator Leo Jaramillo, Representative Christine Chandler, and Representative Susan Herrera. County Manager Burgess presented the County's legislative priorities.
8. Held a natural gas tabletop exercise with DPU staff. Through this process we identified a need to develop an hour long orientation video for DPU to use to educate our first responders on DPU operations.
9. Held asset management team meetings in preparation of next year's budget.
10. Presented at the new Council Orientation. Invited our three new council members to new employee orientation scheduled for February 11th at 8:15 AM.

Councilor Robinson Report - January 20, 2021

- Council reviewed our Strategic Priorities for 2021. We move vacancies to both housing and business priority, and moved transportation to infrastructure. We then added “Communication and Transparency” and “Boardband” as priorities for 2021.
- Planning and Zoning approved the site plan for the Marriot Hotel and Convention Center.
- County Manager Burgess will be retiring and Council will begin our search for his replacement.
- We expect to approve the charter for to the Los Alamos Resiliency, Energy, and Sustainability Task Force, and appoint members to that body.

Erik Loechell ESB Notes

- Nominated a new ESB Chair- Erik Loechell is the new ESB chair starting in January
- Presentation on the Discards Hierarchy by New Mexico Recycling Coalition Executive Director Sarah Pierpont.
 - Provided an update on the local and global recycling market to the Environmental Sustainability Board. In the presentation she delved into where the exported recyclable materials are going since China closed its doors. She also provided solutions for this dynamic recycle market such as reduce, reuse, and zero waste.
 - Discards Hierarchy is rethink, reduce, reuse, repair, recycle instead of reduce, reuse, recycle. Los Alamos is one of the communities committed to keeping their recycling program going despite rising processing costs.
 - 30% of waste is made up of organics.
 - Tom Udall introduced the break free from plastic pollution act
 - Core elements are source reduction
 - Producer responsibility
 - National Container Deposit (beverage bottle refund)
 - Post Consumer Recycled Content from US Sources (plastic bottles, etc... made up of X amount of recycled material by X year)
 - Recycling
 - Plastic Waste Esports
 - Composting is extremely important in source reduction
 - Supporting zero waste policies
- Zero Waste Team: Office Specialist, Sara Martinez reported that the Zero Waste team had a work meeting to plan the next year including videos, articles, and events that the team can participate in. She also reported that Sue Barns gave a report on a National Strategy to Reduce Food Waste at the Consumer Level. The team discussed that restaurants could save a lot of money if they asked customers if they want the disposable utensil in their take out. Sue Barns is working with the Zero Waste team to bring non-perishable food to the Khalsa Family Farm for those in need in Northern New Mexico.



BOARD OF PUBLIC UTILITIES

ADDITIONAL MEETING DOCUMENTS

Additional or revised information or documents are often passed out to the Board at the meetings.

Whenever possible, this informational cover page will accompany those documents.

MAKE 20 COPIES OF ANY DOCUMENTS, INCLUDING THIS COVER SHEET, AND RETURN TO JAIME KEPHART PRIOR TO THE MEETING.

MEETING DATE	01/20/2021
AGENDA ITEM	7.A. Consideration of Alternatives to the Baldrige Performance Excellence Program
DOCUMENT TITLE(S)	Presentation – LANL APWA Accreditation
FROM	Lawrence Chavez, Deputy FOD
NEW OR REVISED? Is this a revision that is different from what was in the agenda packet, or is it something entirely new?	New
RECOMMENDED ACTION If you have a new or revised recommended motion for the Board, enter it here.	<u>N/A</u>
ADDITIONAL INFORMATION Please VERY BRIEFLY explain the purpose of this information or document.	After agenda publication, Mr. Chavez prepared some additional information and slides for the discussion about LANL's experience with the APWA accreditation process

LANL APWA Accreditation

Utilities & Institutional Facilities Operations Directorate

Lawrence Chavez
Deputy FOD
January 20, 2020



Managed by Triad National Security, LLC for the U.S. Department of Energy's NNSA

DRAFT - These minutes have not yet been approved by the Board of Public Utilities.

LANL Accreditation Process

- Self Assessment
 - UI FOD internal review of formal and informal practices combined with a comparison to recommended practices contained in the APWA Public Works Management Practices Manual.
 - Determined which chapter and practices were applicable, assigned personnel.
 - Determined which internal processes aligned well with compliance to the recommended practices.
 - Identified areas that needed improvement to comply.
 - Example: Informal practices made formal through development of procedures or policies.
 - Identified administrative lead to organize findings and coordinate actions to consolidate internal policies or procedures that complied or required improvement and place in appropriate format for accreditation review.
 - Upon approximately 90% completion applied for accreditation.
 - Final internal validation review.

Benefits of Accreditation

- Incentivizes entity to take inventory of existing practices.
 - What are we doing? How are we doing it?
- Allows organization to compare existing processes to Industry standard practices.
- Identified processes requiring improvements.
- Created benchmarking opportunities that lead to internal improvements and networking contacts.
 - Example: adopted “Paver” for condition assessment of roads
- Became aware of institutional processes used to manage public works items by others.

Questions?



BOARD OF PUBLIC UTILITIES

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MEETING DATE	01/20/2021
AGENDA ITEM	7.B. Approval of Amendment No. 1 to the Power and Renewable Energy Credit Sales Agreement AGR20-926
DOCUMENT TITLE(S)	Presentation – Power Costs for Los Alamos County
FROM	Damian Izirarry - Uniper
NEW OR REVISED? Is this a revision that is different from what was in the agenda packet, or is it something entirely new?	New
RECOMMENDED ACTION If you have a new or revised recommended motion for the Board, enter it here.	<u>N/A</u>
ADDITIONAL INFORMATION Please VERY BRIEFLY explain the purpose of this information or document.	After agenda publication, Mr. Izirarry prepared some additional information and slides for the discussion.

Power Costs for Los Alamos County

January 20, 2021 BPU



LOS ALAMOS

Historical Cost of Resources

21 Yrs. Historical Data 00-20									
<i>Existing Resource</i>	Total Cost	\$/MWH	MWhs	% of Cost	%of Generation	Transmission cost above PNM	PNM BA Ancillaries & Transmission	Total Transmission Cost	Transmission and Generation Total
<i>Abiquiu</i>	\$ 55,554,656.40	\$ 84.12	660,425	9.25%	5%	\$ 5.00	\$ 6.00	\$ 11.00	\$ 95.12
<i>Economy Purchases</i>	\$ 122,020,534.52	\$ 46.74	2,610,444	20.32%	22%	\$ -	\$ 6.00	\$ 6.00	\$ 52.74
<i>El Vado</i>	\$ 37,118,881.48	\$ 83.82	442,865	6.18%	4%	\$ 8.00	\$ 6.00	\$ 14.00	\$ 97.82
<i>Lincoln-Wyoming</i>	\$ 60,548,742.53	\$ 38.92	1,555,556	10.08%	13%	\$ 3.50	\$ 6.00	\$ 9.50	\$ 48.42
<i>San Juan</i>	\$ 275,249,237.00	\$ 54.36	5,063,674	45.84%	42%	\$ -	\$ 6.00	\$ 6.00	\$ 60.36
<i>WAPA (LAC)</i>	\$ 2,686,130.00	\$ 23.74	113,163	0.45%	1%	\$ -	\$ 6.00	\$ 6.00	\$ 29.74
<i>WAPA Firm (DOE)</i>	\$ 47,279,683.41	\$ 28.89	1,636,733	7.87%	14%	\$ -	\$ 6.00	\$ 6.00	\$ 34.89
Proposed Resources									
<i>CFPP-Proposed</i>		\$ 55.00	49,932			\$ 7.00	\$ 6.00	\$ 13.00	\$ 68.00
<i>Uniper-Proposed</i>		\$ 39.67	131,400			\$ -	\$ 6.00	\$ 6.00	\$ 45.67
21Yr Blended Cost of Existing Resources	\$	49.70							
Average Tx Costs		\$8.00							
Generation and Transmission	\$	57.70							



LOS ALAMOS

Current Cost of Resources FY2020

RESOURCE UTILIZATION and COMPONENT COST SUMMARY											
Fiscal Year 2020											
		FY Peak MW	Total MWH		TOTAL \$		\$/MW				
DOE		68.244	429,412		21,740,183		50.63				
LAC		16.706	120,222		5,950,961		49.50				
TOTAL		84.950	549,634		27,691,144		50.38				

FY Peak 89.972
08/26/2019 @ 16:00

Month/Yr		Rated	MWH	Demand	Energy	Demand	Energy	Total		% Total	% Total
	Sources	KW	Sched	Cost	Cost	\$/MWH	\$/MWH	\$/MWH	CF%	MWH	\$
	Abiquiu	14,000	29,856	729,299	253,498	24.43	8.49	32.92	32.3	5.44%	4.27%
	Control Area					N/A	N/A	N/A	N/A	N/A	N/A
	Economy Purch		159,545		5,119,927		32.09	32.09	N/A	29.08%	22.24%
	Economy Sales		-10,239		-263,016		25.69	25.69	N/A	-1.87%	-1.14%
	El Vado	10,000	25,375	242,172	334,727	9.54	13.19	22.73	38.4	4.63%	2.51%
	Lincoln	10,000	70,170	1,204,721	848,512	17.17	12.09	29.26	106.3	12.79%	8.92%
	Misc Expense			1,480,881		N/A	N/A	N/A	N/A	N/A	6.43%
	Misc. Interchange		-27,854						N/A	-5.08%	N/A
	PV Solar										
	San Juan	36,000	220,383	2,511,710	7,920,624	11.40	35.94	47.34	92.8	40.17%	45.31%
	TA-3 Steam	20,000				N/A	N/A	N/A	N/A	N/A	N/A
	CGTG	24,000	6,298		154,771		24.57	24.57	4.0	1.15%	0.67%
	WAPA (LAC)	1,000	5,097	76,879	61,136	15.08	11.99	27.08	77.2	0.93%	0.60%
	WAPA Firm (DOE)	11,000	69,988	1,407,492	939,379	20.11	13.42	33.53	96.4	12.76%	10.19%
	WAPA Peaking (DOE)					N/A	N/A	N/A	N/A	N/A	N/A
	Total		548,619	7,653,154	15,369,559	13.95	28.01	41.96		100%	100%
	Transmission Cost			4,654,891		8.48					
	DOE Revenue for EIA		429,411.72	21,537,217							



LOS ALAMOS



County of Los Alamos

Staff Report

February 24, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 6.B
Index (Council Goals): DPU FY2021 - 1.0 Provide Safe and Reliable Utility Services
Presenters: Jack Richardson, Deputy Utilities Manager - GWS Services
Legislative File: AGR0736-21

Title

Approval of Services Agreement No. AGR20-25 with Maverick Tech Solutions, LLC, dba IOS Tech in the amount of \$638,238.00, plus Applicable Gross Receipts Tax, for the Purpose of Supervisory Control Data Acquisition (SCADA) Web-hosted Solution.

Recommended Action

I move that the Board of Public Utilities approve Services Agreement No. AGR20-25 with Maverick Tech Solutions, LLC, dba IOS Tech in the amount of \$638,238.00 and a contingency in the amount of \$65,000.00, for a total of \$703,238.00, plus applicable gross receipts tax, for the for the purpose of Supervisory Control Data Acquisition (SCADA) Web-hosted Solution, and forward to Council for approval.

Staff Recommendation

Staff recommends that the Board approve as presented.

Body

This project was first envisioned in 2016 in response to some specific sewer overflows that backed up into some residential homes and in response to the advanced ageing of existing sewer lift stations and in response to changes in the gas system requirements for proposed gas purchases nominating volumes. Added functionality to the gas system will be: full DPU control and calibration of meters monitoring gas volume purchases; and backup pressure regulating owned and maintained by the DPU at major points of entry; and pressure monitoring throughout the gas system with alarms for high and low pressure. Added benefits to the gas system will be: enable a double check on gas volumes purchased from New Mexico Gas Company; and enable pressure regulating at the major gas purchase points of entry; and provide immediate alarm notification of high or low pressure throughout the system. Added functionality to the wastewater collection system will be: wastewater flow level monitoring at selected manholes throughout the system that have a history of problems; and full monitoring of selected sewer lift stations for wet well level alarms, pump failures and pump operating parameters. Added benefits to the wastewater collection system will be: eliminate claims in areas with historic problems of main line backups; and potentially reduced staff time in regularly scheduled main line maintenance; and immediate access to sewer lift station functioning and operating condition with alarms; and potentially reduced staff time in regularly scheduled lift station maintenance visits.

The proposed agreement has a term of seven (7) years. All three major gas system points of entry (White Rock, East Gate & West Gate) are schedule for the first year plus all nine (9) remote gas pressure sensing stations are scheduled for completion within years 2 through 4 at a rate of

three (3) per year. Three (3) sewer lift stations and one (1) remote manhole are scheduled per year for the full seven (7) year term. At the end of the project the 21 highest priority sewer lift stations and 9 remote manholes and the 3 major gas system points of entry and 9 remote pressure sensing stations will all be monitored using the proposed SCADA system.

The SCADA system proposed is different than the existing SCADA system used for the Water Production system. The WP system SCADA is a proprietary system using HSQ hardware and software with the communication signals relayed using radios and repeaters on both Pajarito Mountain and Tesuque Peak. The HSQ system data is housed in on-site servers with no portion of the system visible to the internet or internet hackers. The proposed gas and wastewater collection SCADA system will use a cell phone based signal for communicating data with the data housed in a cloud based system. Access will be via standard desktop and/or mobile devices. Security for the prevention of hacking and data loss will follow all existing Los Alamos County Information Management protocols. No control operations will be functional through the proposed SCADA system - only monitoring.

The agreement itself includes both startup installation capital costs and annual operation & maintenance costs. Capital costs include initial software licensing, programming, equipment acquisition, installation, start up and training activities. Annual costs include cell plan costs, hardware and software maintenance, and software license renewal and support.

Alternatives

Delay the installation of SCADA facilities to monitor natural gas system purchased gas flows and system wide pressures and wastewater collection system overflow levels and sewer lift station functioning.

Fiscal and Staff Impact

Companion field facilities to accommodate the new SCADA facilities are budgeted in the current 10-year CIP Plan. Annual program costs are budgeted in the current FY22 budget and expected to be budgeted into the future. Project management expected as a part of routine staff efforts.

Attachments

A - AGR20-25 Maverick Tech Solutions LLC, dba IOS Tech



INCORPORATED COUNTY OF LOS ALAMOS SERVICES AGREEMENT

This **SERVICES AGREEMENT** ("Agreement") is entered into by and between the **Incorporated County of Los Alamos**, an incorporated county of the State of New Mexico ("County"), and **Maverick Tech Solutions, LLC**, dba IOS Tech, a domestic limited liability company of New Mexico ("Contractor"), to be effective for all purposes March 3, 2021.

WHEREAS, the County Purchasing Agent determined in writing that the use of competitive sealed bidding was either not practical or not advantageous to County for procurement of the Services and County issued Request for Proposals No. 20-25 ("RFP") on February 9, 2020, requesting proposals for SCADA Equipment, Installation and Cloud-based Server Hosting, as described in the RFP; and

WHEREAS, the RFP requested proposals for providing a turn-key SCADA installation, equipment purchase, and cloud-based SCADA software solution to monitor various County utility assets in and around the County including sewage collection system pumping stations, key manhole locations, and natural gas distribution system pressure monitoring and valve stations; and

WHEREAS, Contractor timely responded to the RFP by submitting a response dated March 31, 2020 ("Contractor's Response"); and

WHEREAS, based on the evaluation factors set out in the RFP, Contractor was the successful Offeror for the services listed in the RFP; and

WHEREAS, the Board of Public Utilities approved this Agreement at a public meeting held on February 24, 2021; and

WHEREAS, the County Council approved this Agreement at a public meeting held on March 2, 2021; and

WHEREAS, Contractor will provide the Services, as described below, to County.

NOW, THEREFORE, for and in consideration of the premises and the covenants contained herein, County and Contractor agree as follows:

SECTION A. SCOPE OF SERVICES. The following services are to be provided by Contractor. The project, generally, is for Contractor to provide the materials, labor, installation, setup, and licensed software as a service to allow the County, through its Department of Public Utilities ("DPU"), to remote monitoring of the County's wastewater collection system and natural gas distribution system by use of supervisory control and data acquisition ("SCADA") devices that report to a centralized SCADA software as a service ("SaaS") management and reporting application ("Project"). The SCADA SaaS equipment and licensed program shall be capable of monitoring and or controlling DPU infrastructure such as, but not limited to, sewage lift stations, sewer manhole levels, gas flow regulating stations, and gas pressure outstations functionality, and

alarming throughout the County of Los Alamos as well as provide County assistance in the procurement and installation of hardware and equipment.

1. DEFINITIONS. The definitions below apply to the Agreement, unless otherwise provided. Where no definition is present, the common meaning applies.

- a) "SCADA" means Supervisory Control and Data Acquisition equipment capable of connecting to a SCADA software program.
- b) "HMI/GUI" means Human Machine Interface / Graphical User Interface.
- c) "RTU/IED" means Remote Terminal Unit / Intelligent Electronic Device.
- d) "NEMA" means National Electrical Manufacturers Association.
- e) "PLC" means Programmable Logic Controller.
- f) "I/O" means Input and Output.
- g) "GPS" means global positioning system.
- h) "GeoScada" means the open, flexible, and scalable software for telemetry and remote SCADA solutions from Schneider Electric.
- i) "Compute Engine" means the predefined custom computing infrastructure for a cloud based virtual machine by Google.
- j) "Google Uptime" means the percentage, or amount of time that Google Systems are available to users of those systems.
- k) "Outstations" means the specific locations where SCADA monitoring equipment is installed. Outstations are also known as a "Project Site."
- l) "Year" means 365 calendar days and begins on the date *mutually agreed by the parties*, but shall not be more than one hundred eighty (180) days from the Effective Date of this Agreement. Work shall be completed by the Contractor, where possible, during normal business hours between 8:00 a.m. and 5:00 p.m. MST, Monday through Friday, excluding Contractor and County's observed holidays, unless otherwise agree upon by the County and Contractor.

2. SERVICES. The Project shall include Contractor's purchase of specific equipment, installation of the equipment, and installation, customization, and ongoing licensing, maintenance, and customer support of the GeoScada SaaS for the Term of this Agreement.

- a) **TURNKEY PROJECT.** Contractor shall, pursuant to the pricing in **Exhibit "A"** purchase equipment and materials, install the materials and equipment, and make each Project Site operational, as provided herein. The services to be provided by Contractor shall be considered a turn-key project. Contractor shall determine, based on the Scope of Work identified in the Request for Proposal for this Project, and as promised, and now obligated to perform, in the Response by Contractor, what equipment, materials, and supplies are necessary to deliver a fully functional utility SCADA system including the SaaS at the

Project Sites. Both the Request for Proposal Number RFP20-25 and Contractor's Response to the Proposal are incorporated herein and made a part hereof for all purposes.

- b) **PROJECT PRICING.** As provided in **Exhibit "A"**, Contractor shall charge to the County the "Cost Category" per Year. Each Year's pricing, per Category, includes any and all equipment, materials, supplies, and labor to make the Project Site (e.g., wastewater pumping station, manhole, or gas pressure station) fully functional and operational, except as provided in **Exhibit "A"**. The "Annual Costs" in **Exhibit "A"**, includes each Year's one-time and variable costs (e.g., SaaS license, per number of cell and modem units pricing for transmitting SCADA information, customer support) per Year of the Agreement.
- c) **MATERIALS AND EQUIPMENT.** Contractor shall purchase and make ready for installation all necessary equipment at each of the Project and Phased sites. A listing and example of the minimum equipment that must be purchased per Project Site is attached as **Exhibit "C"**.
- (i) As provided in **Exhibit "A"**, Contractor shall purchase all necessary equipment and materials to install and make operational each SCADA monitoring and field equipment.
 - (ii) Contractor shall advise County on County's individual site specification requirements and shall assist with identification of optional or similar sources of equipment. As provided herein, Contractor shall be solely responsible for installing and making functional all equipment installed as a part of this project.
 - (iii) The County may, at its own costs, purchase any other materials or equipment to replace Contractor's equipment. County will use its best efforts to provide Contractor advance notice of its intent to use its own equipment. If Contractor has already installed equipment as required by this Agreement, County shall pay the reasonable costs for Contractor's labor to replace, or County may replace the equipment at its own costs. Any contractor installed equipment removed by County, and paid for by County, shall remain the property of the County.
 - (iv) All equipment purchased by Contractor shall include a warranty. Contractor shall transfer any vendor or manufacturer's warranty provided. It is specifically understood and agreed that all equipment purchased by Contractor is on behalf of the County, as if the County had made the original purchase. Contractor, after the installation of any equipment, or before, shall provide to the County's Project Manager, all equipment invoices, documentation, user manual, and warranty information. County reserves the right to refuse acceptance and installation of damaged equipment purchased by Contractor.
 - (v) For any equipment purchased and installed by Contractor which fails within the equipment warranty period, Contractor shall assist the County in return and replacement of the defective equipment.
 - (vi) Contractor shall be solely responsible for shipping, handling, and final delivery to the installation site any purchased equipment. Contractor shall use its best and reasonable commercial business efforts to ensure that equipment is timely delivered and ready for installation pursuant to the schedule as agreed to by the parties herein.

(vii) Contractor shall order all necessary equipment and supplies to meet the Installation Services Project Schedule as provided below.

d) INSTALLATION SERVICES. As provided in the County's Request for Proposals and in Contractor's Response, incorporated herein by reference, the Project shall initiate and commence pursuant to the Project Schedule. Contractor shall provide any and all necessary or required on-site labor and or professionals to install the following equipment and the specified Project site or sites:

- (i) **Lift Station.** At each DPU lift station identified in each phase of the Project, Contractor shall install an RTU enclosure will be designed to mount to new existing rack/panel scaffolding near or adjacent to current station. Each enclosure shall be stainless steel with a lockable clasp and rated to prevent weather, dirt, rain/snow ingress. Lift Stations shall be controlled and monitored by an RTU and connected to an industrial modem. If necessary, a separate enclosure will house the 24-volt DC power supply which will be wired to an independent breaker on site. All inputs and outputs will be wired and labeled to DIN mounted terminal blocks for easy identification and termination. Digital points shall be determined and monitored via same RTU as will any analog data points. A wiring diagram shall be located inside the front panel of each enclosure as well as electronically accessible through Geo SCADA resource. All parts and fasteners internal to the lift station shall be stainless steel.
- (ii) **Sewer Manhole.** All manholes shall be equipped with level indicators, unless otherwise agreed to in writing by the parties. The mounting of the sensor shall allow adjustment of the level points at various heights. Pigtails of the sensors will be housed in an approved junction box which will have a wireless input device attached. The wireless input device will have an external antenna that will be attached to the manhole cover that communicates with the local base radio telephone. The local base radio/telephone will be in a stainless-steel enclosure with a 12/24-volt DC power supply to run both the local base radio and industrial modem. Contractor will install in each enclosure a cabinet mount short haul 900mhz antenna and a cellular omni on a short mast to send and receive cellular signals. County is responsible for providing power to each station. All parts and fasteners internal to the manhole shall be stainless steel or other approved material.
- (iii) **Gas Flow Regulating and Flow Monitoring Stations.** Each station shall have multiple gas metering runs which shall be equipped with a multivariable transmitter mounted to a meter run with RTD threaded connection, valve stabilizer, and manifold. Contractor shall take and record, for its use, the exact measurements of each run to determine power availability accessed at each gas station. The multivariable transmitter shall interface serially with the installed wireless modem and shall be capable of being polled directly from SaaS. All flow, pressure and alarming will be done from measurement by the multivariable transmitter. Calibration of the meter will be done upon commissioning, but an analysis will be done locally to do specific calibration.
- (iv) **Gas Pressure Monitoring.** Each pressure sensing station will be outfitted with a pressure transducer that will be wired to an IED which will serially connect to a cell modem. Live access and alarming will be done from Geo SCADA. Each pressure transmitter is ½-1/4 NPT stainless steel connection, which will need to be addressed for installation. County will ensure power is available at each station.

- (v) **Warranty for Labor.** Contractor shall provide a one-year warranty on all labor provided by Contractor for installation of any equipment, materials, and work. Warranty shall begin when County accepts installation as complete. County or its contractors or agents shall immediately notify Contractor of any requested warranty coverage. Contractor shall, within five (5) business days respond to any request for warranty work or service. Depending on the nature of the requested warranty coverage, Contractor shall take all reasonable effort to resolve the request in a timely manner.
- (vi) **Licenses/Permits.** Contractor is responsible for obtaining any required licenses, permits, or other authorizations to conduct the services contained in this Agreement.
- (vii) **Turnkey Project.** Contractor shall install and make operational at each County identified Project Site the above referenced equipment to ensure each Project Site contains transmitting and programmable hardware which can communicate with the GeoScada SaaS field devices, instruments, and main SaaS application.
- (viii) **Contractor Installation Schedule.**
- (a) The parties agree the following is the Project Schedule for the Project:
1. **Year One:** Contractor, during this Year, shall install and make operational three (3) sewer lift station sites; one (1) each sewer manhole site; and three (3) gas pressure regulating station sites.
 2. **Year Two:** Contractor, during this Year, shall install and make operational three (3) sewer lift station sites; one (1) each sewer manhole site; and three (3) gas sensing remote sites.
 3. **Year Three:** Contractor, during this Year, shall install and make operational three (3) sewer lift station sites; one (1) each sewer manhole site; and three (3) gas pressure sensing remote sites.
 4. **Year Four:** Contractor, during this Year, shall install and make operational three (3) sewer lift station sites; one (1) each sewer manhole site; and three (3) gas pressure sensing remote sites.
 5. **Year Five:** Contractor, during this Year, shall install and make operational three (3) sewer lift station sites and one (1) sewer manhole site.
 6. **Year Six:** Contractor, during this Year, shall install and make operational three (3) sewer lift station sites and one (1) sewer manhole site.
 7. **Year Seven:** Contractor, during this Year, shall install and make operational three (3) sewer lift station sites and one (1) sewer manhole site.
- (b) In each of the above seven (7) Year terms and for the respective installation, Contractor shall:
1. Lift Stations- 3 stations per year over 7 years- 21 Total. Install three sewage lift station SCADA systems at each Project Site to include, at minimum:
 - a. Installation of SCADA equipment enclosure at each of the lift stations.
 - b. Assist County and DPU staff with installation of Contractor's provided external sensors and/or measurement devices that will interface with the SCADA enclosure's PLC.

- c. Assist in the powering on of the electrical and service panel and verify modem and PLC are communicating to the SCADA SaaS system.
 - d. Contractor shall advise County on initial Lift Station configurations per Contractor specifications. Such specifications shall be recorded by Contractor and County to have a standard for future Project Sites.
 - e. Contractor shall train County personnel on HMI/GUI functionality and interface with Real Stream PLC.
2. Sewer Manhole- 1 manhole per year over 7 years - 7 Total
- a. Install a level indicator for high and high-high alarming on fluid levels.
 - b. Terminate the sensor to junction box with an RTU/IED that will relay the state of the level sensors to a master base radio
 - c. Install enclosure with base radio and modem to relay level status to SCADA system
 - d. Assist County and DPU staff with installation of external sensors and/or measurement devices that interface with the SCADA enclosures PLC and ensure that bi-directional communication with the SaaS is operational.
3. Gas Flow Regulating and Flow Monitoring- 3 sites in year 1- 3 Total
- a. Install enclosure with modem and power supply, including solar if necessary, to receive gas flow and regulating information to the SaaS application.
 - b. Install an RTU/IED to gather and calculate all variable to include, but not limited to, pressures, temperatures, flow (instantaneous and accumulated).
 - c. Ensure that data can be polled from SCADA and verified from the HMI/GUI in the SaaS.
 - d. Assist and advise County and DPU staff with installation of external sensors and/or measurement devices that interface with the SCADA enclosures PLC.
4. Gas Pressure Monitoring- 3 stations in Years 1 through 3- 3 Total
- a. Contractor will assist with installation and configuration of pressure transducers to be interfaced with SaaS via a modem and PLC.
 - b. Ensure all data points from the Outstation is connected to the SCADA SaaS platform and are communicating properly with the SaaS.
 - c. Assist and advise County and DPU staff with installation of any and all external sensors and/or measurement devices that interface with the SCADA enclosures PLC.
- (c) The Contractor and the County may mutually agree to amend the Project Schedule as field conditions require.
- (d) Contractor shall provide written schematics of all installed equipment.
- (e) Contractor, with written authorization, may complete each annual installation prior to the end of the current Year. As incentive for Contractor to complete the current Year's work under this Agreement in a timely manner, Contractor may, after full acceptance of the current Year's work by County, begin the next Year's work at that Year's pricing as found in **Exhibit "A"**.

e) SOFTWARE AS A SERVICE. Contractor shall provide to County, the following SaaS application and related software:

- (i) **GeoScada SaaS License.** Contractor shall purchase, lease, and or maintain, for County's exclusive use, a license to the current version of Schneider Electric's Exostruxure™ Geo SCADA Expert (a.k.a., "SaaS") cloud-based SCADA application, or equivalent, and any necessary and or required third-party software or applications, *i.e.*, Compute Engine, Google Compute, FKA Clear Scada, SAP1s Crystal Reports, etc. The license shall include, at minimum, four (4) base user accounts and at least two (2) administrative user accounts. Contractor shall maintain the license to the SaaS application at all times during the Term of this Agreement and shall ensure that the County is granted full access to the GeoScada SaaS application, except for planned maintenance and interruptions of host services.
- (ii) **Features/Functions.** Contractor agrees that the provided SaaS will perform as provided for in the County's RFP20-25 incorporated herein by reference, as well as in accordance with Contractor's Response, also included herein by reference. Contractor warrants and affirms that the product, service, and software comply with all applicable County Technology Standards as provided in **Exhibit "B"**. All County data stored in the SaaS application shall be compatible with ESRI™ formats.
- (iii) **Telephone and Modem Costs.** Contractor, as part of this Agreement, agrees that it will apply, obtain, lease, purchase or otherwise obtain cellular telephone usage which connects to each of the Project Sites to the SaaS. Contractor shall timely pay all bills and fees charged by its chosen telecommunication provider. Contractor and County may mutually agree to transfer, or cancel and separately reestablish, the telecommunication contracts and costs during the Term of this Agreement. Any transfer of telecommunication costs and fees to County shall be deducted by Contractor from any remaining invoices.
- (iv) **SaaS Setup and Installation.** Contractor shall, pursuant to the Project schedule herein, shall assist the County in the installation, setup, and customization of the GeoScada SaaS "i.e.". all mimics and trends and data will be created specifically for the County.
- (v) **Training.** In addition to the SaaS initial setup and installation, Contractor will provide two (2) onsite trainings at the times and dates as mutually agreed to by the parties. Each onsite training shall provide at minimum 2 hours of product support, instruction, configuration, and training. Contractor will also provide off-site virtual training and customer assistance as requested by the County's Project Manager. Contractor will offer limited additional customer support and training at the request of the County's Project Manager.
- (vi) **Server Data Backup and Security.** Contractor shall ensure that County data is backed up daily. All data backups shall be maintained for a minimum of ten (10) years from the Effective Date. Such backups shall include, but is not limited to, a snapshot of the then current County GeoScada SaaS database. County will have their own stand-alone instance designed specifically for them with no access from other users. History will be stored for ten (10) years.
- (vii) **HMI/GUI.** The SaaS platform shall have a web accessible internet-based login with HTMLS via all browsers including Google Chrome. Contractor shall ensure that access can be configured via a variety of security privileges which includes mobile application interface and control. All interfaces shall be object oriented and customer

specific design and mobile accessible on both IOS and Android devices. Standard components of the SCADA interface and database shall be uptime, alarms, polling intervals, and activity logs. Standard components will be based on user privilege settings.

- (viii) **Customizable Reports.** Contractor shall ensure any County data can be downloaded from the SaaS GeoScada application into Excel, PDF, Word and other documented formats with the option to customize automated reporting. Contractor, as part of the SaaS installation, shall configure, create, and test, customized reporting from GeoScada data from the field RTU outstations and SAPs Crystal Reports software.
 - (ix) **Upgrades.** Contractor shall ensure all database upgrades and security upgrades are maintained on a consistent basis. A bi-yearly meeting with the County will be scheduled to ensure security, accessibility, functionality will be necessary. A network microarchitecture will be developed that exists on the GMI interface itself to log all components of the expanding project with identifiers such as name, GPS, logs of inventory at the site, and the local RTU's microarchitecture. **System Scalability.** The GeoScada SaaS shall have the flexibility and scalability to add new lift stations, gas measurement and manhole alarms and reports. It is understood by County that addition of additional equipment and monitoring locations will impact the pricing of this Agreement as provided for in **Exhibit "A"**.
 - (x) **SaaS license fees.** Contractor shall pay for all licensing costs of the SaaS and any required third-party software, or other SaaS, to ensure the full functionality of the SaaS as provided herein and as listed in the annual costs for "WA" (wastewater collection related) and "GA" (natural gas related) SaaS maintenance and support costs as provided in **Exhibit "A"**.
 - (xi) **End of Term Licensing.** Contractor, at the expiration of the Term of this Agreement, shall assist the County in obtaining any continuing licenses or third-party applications to ensure continued functionality of the SaaS.
- f) **Project Site Access.** County shall identify for Contractor each Project Site for each Year and shall provide Project Site access to Contractor. Nothing herein shall be deemed to be a grant of a property right or interest in County public property nor shall this Agreement be construed in any way to grant, authorize, license, or permit Contractor access to adjacent private property. County and Contractor shall cooperate to obtain any necessary or required private property access. Contractor shall provide, at minimum, forty-eight (48) hour notice to the County's Project Manager prior to initiating any Project Site work.
- g) **Licenses and Permits.** Contractor shall maintain any and all local, state, or federal licenses to perform the work under this Agreement. Contractor is solely responsible for obtaining any and all licenses necessary to perform the work under this agreement.

SECTION C. TERM: The term of this Agreement shall commence March 3, 2021 and shall continue through March 2, 2028 unless sooner terminated, as provided herein.

SECTION D. COMPENSATION:

- 1. Amount of Compensation.** County shall pay compensation for performance of the Services in an amount not to exceed SIX HUNDRED THIRTEEN THOUSAND TWO HUNDRED THIRTY-EIGHT AND NO/100 DOLLARS (\$613,238.00), which amount does not include applicable New Mexico gross receipts taxes ("NMGR"). Reimbursable expenses for travel shall not exceed TWENTY-FIVE THOUSAND AND NO/100 DOLLARS (\$25,000.00). Total compensation for all services, including reimbursable expenses, shall not exceed SIX HUNDRED THIRTY-EIGHT THOUSAND TWO HUNDRED THIRTY-EIGHT AND NO/100 DOLLARS (\$638,238.00). Compensation shall be paid in accordance with the rate schedule set out in **Exhibit "A"** attached hereto and made a part hereof for all purposes.
- 2. Monthly Invoices.** Contractor shall submit itemized monthly invoices to County's Project Manager showing amount of compensation due, amount of any NMGR, and total amount payable. Payment of undisputed amounts shall be due and payable thirty (30) days after County's receipt of the invoice.

SECTION E. TAXES: Contractor shall be solely responsible for timely and correctly billing, collecting and remitting all NMGR levied on the amounts payable under this Agreement.

SECTION F. STATUS OF CONTRACTOR, STAFF, AND PERSONNEL: This Agreement calls for the performance of services by Contractor as an independent contractor. Contractor is not an agent or employee of County and will not be considered an employee of County for any purpose. Contractor, its agents or employees shall make no representation that they are County employees, nor shall they create the appearance of being employees by using a job or position title on a name plate, business cards, or in any other manner, bearing County's name or logo. Neither Contractor nor any employee of Contractor shall be entitled to any benefits or compensation other than the compensation specified herein. Contractor shall have no authority to bind County to any agreement, contract, duty or obligation. Contractor shall make no representations that are intended to, or create the appearance of, binding County to any agreement, contract, duty, or obligation. Contractor shall have full power to continue any outside employment or business, to employ and discharge its employees or associates as it deems appropriate without interference from County; provided, however, that Contractor shall at all times during the term of this Agreement maintain the ability to perform the obligations in a professional, timely and reliable manner.

SECTION G. STANDARD OF PERFORMANCE: Contractor agrees and represents that it has and will maintain the personnel, experience and knowledge necessary to qualify it for the particular duties to be performed under this Agreement. Contractor shall perform the Services described herein in accordance with a standard that meets the industry standard of care for performance of the Services.

SECTION H. DELIVERABLES AND USE OF DOCUMENTS: All deliverables required under this Agreement, including material, products, reports, policies, procedures, software improvements, databases, and any other products and processes, whether in written or electronic form, shall remain the exclusive property of and shall inure to the benefit of County as works for hire; Contractor shall not use, sell, disclose, or obtain any other compensation for such works for hire. In addition, Contractor may not, with regard to all work, work product, deliverables or works for hire required by this Agreement, apply for, in its name or otherwise, any copyright, patent or other property right and acknowledges that any such property right created or developed remains the exclusive right of County. Contractor shall not use deliverables in any manner for any other purpose without the express written consent of County.

SECTION I. EMPLOYEES AND SUB-CONTRACTORS: Contractor shall be solely responsible for payment of wages, salary or benefits to any and all employees or contractors retained by Contractor in the performance of the Services. Contractor agrees to indemnify, defend and hold harmless County for any and all claims that may arise from Contractor's relationship to its employees and subcontractors.

SECTION J. INSURANCE: Contractor shall obtain and maintain insurance of the types and in the amounts set out below throughout the term of this Agreement with an insurer acceptable to County. Contractor shall assure that all subcontractors maintain like insurance. Compliance with the terms and conditions of this Section is a condition precedent to County's obligation to pay compensation for the Services and Contractor shall not provide any Services under this Agreement unless and until Contractor has met the requirements of this Section. County requires Certificates of Insurance or other evidence acceptable to County that Contractor has met its obligation to obtain and maintain insurance and to assure that subcontractors maintain like insurance. Should any of the policies described below be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions. General Liability Insurance and Automobile Liability Insurance shall name County as an additional insured.

1. **General Liability Insurance:** ONE MILLION DOLLARS (\$1,000,000.00) per occurrence; TWO MILLION DOLLARS (\$2,000,000.00) aggregate.
2. **Workers' Compensation:** In an amount as may be required by law. County may immediately terminate this Agreement if Contractor fails to comply with the Worker's Compensation Act and applicable rules when required to do so.
3. **Automobile Liability Insurance for Contractor and its Employees:** ONE MILLION DOLLARS (\$1,000,000.00) combined single limit per occurrence; TWO MILLION DOLLARS (\$2,000,000.00) aggregate on any owned, and/or non-owned motor vehicles used in performing Services under this Agreement.

SECTION K. RECORDS: Contractor shall maintain, throughout the term of this Agreement and for a period of six (6) years thereafter, records that indicate the date, time, and nature of the services rendered. Contractor shall make available, for inspection by County, all records, books of account, memoranda, and other documents pertaining to County at any reasonable time upon request.

SECTION L. APPLICABLE LAW: Contractor shall abide by all applicable federal, state and local laws, regulations, and policies and shall perform the Services in accordance with all applicable laws, regulations, and policies during the term of this Agreement. In any lawsuit or legal dispute arising from the operation of this Agreement, Contractor agrees that the laws of the State of New Mexico shall govern. Venue shall be in the First Judicial District Court of New Mexico in Los Alamos County, New Mexico.

SECTION M. NON-DISCRIMINATION: During the term of this Agreement, Contractor shall not discriminate against any employee or applicant for an employment position to be used in the performance of the obligations of Contractor under this Agreement, with regard to race, color, religion, sex, age, ethnicity, national origin, sexual orientation or gender identity, disability or veteran status.

SECTION N. INDEMNITY: Contractor shall indemnify, hold harmless and defend County, its Council members, employees, agents and representatives, from and against all liabilities, damages, claims, demands, actions (legal or equitable), and costs and expenses, including without limitation attorneys' fees, of any kind or nature, arising from Contractor's performance hereunder

or breach hereof and the performance of Contractor's employees, agents, representatives and subcontractors.

SECTION O. FORCE MAJEURE: Neither County nor Contractor shall be liable for any delay in the performance of this Agreement, nor for any other breach, nor for any loss or damage arising from uncontrollable forces such as fire, theft, storm, war, or any other force majeure that could not have been reasonably avoided by exercise of due diligence.

SECTION P. NON-ASSIGNMENT: Contractor may not assign this Agreement or any privileges or obligations herein without the prior written consent of County.

SECTION Q. LICENSES: Contractor shall maintain all required licenses including, without limitation, all necessary professional and business licenses, throughout the term of this Agreement. Contractor shall require and shall assure that all of Contractor's employees and subcontractors maintain all required licenses including, without limitation, all necessary professional and business licenses.

SECTION R. PROHIBITED INTERESTS: Contractor agrees that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its services hereunder. Contractor further agrees that it will not employ any person having such an interest to perform services under this Agreement. No County Council member or other elected official of County, or manager or employee of County shall solicit, demand, accept or agree to accept a gratuity or offer of employment contrary to Section 31-282 of the Los Alamos County Code.

SECTION S. TERMINATION:

- 1. Generally.** County may terminate this Agreement with or without cause upon ten (10) days prior written notice to Contractor. Upon such termination, Contractor shall be paid for Services actually completed to the satisfaction of County at the rate set out in Section C. Contractor shall render a final report of the Services performed to the date of termination and shall turn over to County originals of all materials prepared pursuant to this Agreement.
- 2. Funding.** This Agreement shall terminate without further action by County on the first day of any County fiscal year for which funds to pay compensation hereunder are not appropriated by County Council. County shall make reasonable efforts to give Contractor at least ninety (90) days advance notice that funds have not been and are not expected to be appropriated for that purpose.

SECTION T. NOTICE: Any notices required under this Agreement shall be made in writing, postage prepaid to the following addresses, and shall be deemed given upon hand delivery, verified delivery by telecopy (followed by copy sent by United States Mail), or three (3) days after deposit in the United States Mail:

County:

Jack Richardson, Deputy Utilities Manager GWS
Incorporated County of Los Alamos
1000 Central Avenue
Los Alamos, New Mexico 87544

Contractor:

Will Boston, Owner
IOS-Tech
116 West First Street
Roswell, NM 88203

SECTION U. INVALIDITY OF PRIOR AGREEMENTS: This Agreement supersedes all prior contracts or agreements, either oral or written, that may exist between the parties with reference

to the services described herein and expresses the entire agreement and understanding between the parties with reference to said services. It cannot be modified or changed by any oral promise made by any person, officer, or employee, nor shall any written modification of it be binding on County until approved in writing by both County and Contractor.

SECTION V. CAMPAIGN CONTRIBUTION DISCLOSURE FORM: A Campaign Contribution Disclosure Form was submitted as part of the Contractor's Response and is incorporated herein by reference for all purposes. This Section acknowledges compliance with Chapter 81 of the Laws of 2006 of the State of New Mexico.

SECTION W. LEGAL RECOGNITION OF ELECTRONIC SIGNATURES: Pursuant to NMSA 1978 § 14-16-7, this Agreement may be signed by electronic signature.

SECTION X. DUPLICATE ORIGINAL DOCUMENTS: This document may be executed in counterparts, each of which shall be deemed an original.

SECTION XI. SEVERABILITY. If any part of this Agreement is found invalid or unenforceable, the remaining Sections shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Agreement on the date(s) set forth opposite the signatures of their authorized representatives to be effective for all purposes on the date first written above.

ATTEST

INCORPORATED COUNTY OF LOS ALAMOS

NAOMI D. MAESTAS
COUNTY CLERK

BY: _____
PHILO S. SHELTON III, PE **DATE**
UTILITIES MANAGER

Approved as to form:

MAVERICK TECH SOLUTIONS, LLC, A NEW MEXICO
DOMESTIC LIMITED LIABILITY COMPANY

J. ALVIN LEAPHART
COUNTY ATTORNEY

BY: _____
WILL BOSTON **DATE**
OWNER

Exhibit "A"
Compensation Rate Schedule
AGR20-25

Cost Category	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Total SCADA	+ Total Equipment	= Total
WC – 3 Each Sewer Lift Stations: design, submittals, equipment, hardware, software, installation, programming, integration, startup, commissioning, O&M manuals & training. The prices to the right include three lift stations and is a total lump sum cost.	\$45,363	\$45,363	\$46,270.26	\$47,195.67	\$48,139.58	\$49,102.37	\$50,084.42	\$171,917.29	\$159,600.71	\$331,518
WC – 1 Each Sewer Manhole: design, submittals, equipment, hardware, software, installation, programming, integration, startup, commissioning, O&M manuals & training. The prices to the right include one manhole station and is a total lump sum cost.	\$8,294	\$8,294	\$8,459.88	\$8,629	\$8,801	\$8,9779	\$9,157	\$32,919	\$27,694.	\$60,614
GA – 3 Each Pressure Regulating Stations: design, submittals, equipment, hardware, software, installation, programming, integration, startup, commissioning, O&M manuals & training. The prices to the right include three pressure regulating stations and is a total lump sum cost.	37,323	NA.	NA.	NA.	NA.	NA.	NA.	\$11,970	\$25,353	\$37,323
GA – 3 Each Remote Pressure Sensing Stations: design, submittals, equipment, hardware, software, installation, programming, integration, startup, commissioning, O&M manuals & training. The prices to the right include all 3 remote pressure stations and is a total lump sum cost.	NA.	\$5,062	\$5,163.24	\$5,266.50	NA.	NA.	NA.	\$14,099.46	\$1,392.54	\$15,492
Total								\$230,906	\$214,041	\$444,947
ANNUAL COSTS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7			

WC - Maint/Support	\$8,500	\$3,150.00	\$1,100.00	\$4,683.00	\$1,600.00	\$1,600.00	\$1,600.00			\$22,233
GA - Maint/Support	\$1,200	\$900.00	\$300.00	\$1,170.00	\$400.00	\$400.00	\$400.00			\$4,770
Database Plan ¹	500 pnts	1500 pnts	1500 pnts	5000 pnts	5000 pnts	5000 pnts	5000 pnts			
WC - Cell Plan Annual	\$1,824	\$3,648	\$5,472	\$7,296	\$9,120	\$10,944	\$12,768			\$51,072
Number of cell lines	4	8	12	16	20	24	28			
GA - Cell plan Annual	\$1,368	\$1,824	\$2,280	\$2,736	\$2,736	\$2,736	\$2,736			\$16,416
Number of cell lines	3	4	5	6	6	6	6			
SaaS License and Support (maintenance, updates)	\$6,000	\$6,300	\$6,300	\$13,800	\$13,800	\$13,800	\$13,800			\$73,800
Total	\$18,892	\$15,822	\$15,452	\$29,685	\$27,656	\$29,480	\$31,304			\$168,291

Notes:

1. Database Plan “pnts” is the number of individual SCADA device readings and or measurements that County request to provide input to the SaaS. One Project Site may include dozens if not hundreds of data reading points (“pnts”) in the SaaS software.

TOTAL 7 YEAR COST: \$ 613,238.00

**Exhibit “B”
Technology Standards
AGR20-25**



**Los Alamos County Technology Standards
Requirements On-Premise, Hybrid or Cloud/Hosted
Solution Solicitations**

Contractor agrees to follow the below highlighted sections of the County’s Technology standards. Contractor shall provide, on request, documentation showing, that Contractor’s equipment and SaaS meet, at minimum, the requirements herein Hosted solution respondents do not need to comply with on-premise requirements. If the solution is a hybrid of both categories of solution, then all requirements apply as applicable to the response.

Server Operating system (OS) (On- Premise)	Microsoft (MS) Windows Server 2016, 64 bit or current (Standard and Datacenter). Contractor software must be maintained to run on a supported platform service level as defined by Microsoft at the latest stable patch level.
Server Hardware (On-Premise)	<p>Preferred: Use of County VMware server platform. Environment design must be submitted and reviewed by Information Technology Division (ITD) for acceptance. Proposals shall include required hardware and licensing of VMware, operating system and proposed application-based requirements. Application with a proven Virtual installation template is preferred.</p> <p>Physical Server minimum hardware specifications consist of: Multi Socket/Multi Core processor Intel or AMD based server (standalone or blade server as determined by Los Alamos County ITD) with a minimum 64 GB RAM and RAID capability. Contractor software must be maintained to run on a supported platform service levels as defined by Microsoft at the latest stable patch level.</p>
Network Infrastructure	See LAC Standards and Specifications for Building and Campus Distribution Systems Version 3 (Primarily used for building construction purposes).
Network	Supported network protocol is TCP/IP (IPv4). Standards based NIC rated at 100/1000/10G copper or fiber is supported. If considering a 10G connection County IT network group shall be consulted to ensure equipment compatibility and availability at proposed site. Additional hardware cost, may be required of the project, based on project requirements, equipment and availability. The County uses Cisco technology as its default network equipment standard. Solutions shall be compatible with Cisco Network Technology.
Remote Network Access	Direct remote access to the County network and server environment shall be done using the County’s Cisco AnyConnect SSH VPN. Once a VPN connection is established end-point connections are supported via Microsoft RDP. Operator support accounts shall be set up in accordance with the adopted Los Alamos County IT Usage and Security Policy.
LAC Staff Accounts	Software shall function for end users with standard user privileges ; user cannot install software and shall not have administrative rights.

Desk Hardware	<p>Preferred: Use of virtual desktop infrastructure (VDI) dual screen capable. County uses VMWare AppVolumes for Application Deployment and Packaging</p> <p>Physical unit minimum hardware requirements consist of: Intel core i5 based processor, minimum 4 GB RAM, Intel integrated graphics 1280 capable video minimum, display port DVI input, 4 USB 2/3 ports.</p>
Desktop OS	Microsoft Windows 10 at current Service Pack (SP), Operator software must be maintained to run on a supported OS platform service level as defined by Microsoft at the latest stable patch level.
Internet Browser	<p>Internal County Network: Google Chrome, at its latest version, is the default, Internet Explorer 11 or Chrome compatible will be considered on a business case basis. New Applications must be based on HTML5. Applications requiring Microsoft Silverlight, Java and Flash are not supported. ITD shall be consulted for compatibility issues prior to considering new application purchases requiring Java.</p> <p>Public Application/Web Access: Applications that will be accessed by devices external to the County network shall meet the Internal County Network criteria and as well as be compatible with current versions of Internet Explorer, Safari, Opera, Chrome and Firefox browsers as well as mobile devices (inclusive of smart phones, iPad, and other Internet enabled devices).</p>
Database Software Products (On-Premise)	<p>Supported database software is Microsoft (MS) SQL server version 2016 through current. New MS SQL Server product installations will require review, purchasing of licenses, appropriate hardware and maintenance in support of proposed project or instance install to the County MS SQL Server Environment. MS SQL server software for new implementations shall be at within the Microsoft certified support release level or current. Server components for proposed projects require review and purchasing as part of the project initiative. Operator software must be maintained to run on a supported platform service level as defined by Microsoft.</p> <ul style="list-style-type: none"> • Passwords are not permitted to be transported in clear/plain text. • Vendor implementation shall not use the SA password for user level functions. SA passwords shall be maintained by the County DBA. • Only database instances can be installed on the County MS-SQL Environment. If a vendor software component install is necessary on the database server, a standalone installation will be required. • Vendor software must use standard Access & Connection architecture for accessing databases on the County MS-SQL Environment. <p>Hosted solutions shall be compliant with or provide a method to provide the County with database exports in the MS-SQL Server format.</p>
Internet: Collaboration and Web Publishing	Use of Internet apps or links shall be considered in collaboration with the Los Alamos Information Management Division Applications group for review to ensure that compatibility and Internet publishing protocols have been satisfied prior to formation of any agreement or installation.
Intranet: Collaboration and Web Publishing	Microsoft SharePoint Online is the basis for the County's Intranet. Any products that will integrate or utilize the County's Intranet site shall require a compatibility consultation with ITD before purchase and implementation. Operator software shall be maintained to run on supported platform service levels as defined by Microsoft and/or the Intranet site vendor. Proposed Intranet software products shall be accompanied by roadmap for compatibility with MS SP Online.
Productivity Software	Los Alamos County uses Microsoft O365 Office Suite at its most recent version and service pack. Operator software using the Office suite must be maintained to run on supported platform service levels as defined by Microsoft.

Email	Microsoft O365 with hub transport for relay. If SMTP relay access from on premise vendor specific software is necessary, permission to use the County Email exchange shall be obtained prior to contracting or purchase of the software or solution. If SMTP relay access from hosted vendor specific software is necessary, preference is for SMTP relay to be hosted by vendor. The vendor specific solution must be supported and maintained to relay off County email domain and directed to hand off the email message to another mail server that can get the message closer to its intended recipient in accordance with service levels as defined by Microsoft for the O365 product.
Geographic Information Standards (GIS)	The County uses strictly ArcGIS products by Esri for GIS. Desktop software for end users includes ArcGIS Desktop and ArcGIS Pro. GIS web services are provided as REST endpoints from ArcGIS Server using Internet Information Services (IIS). Our enterprise geodatabase is managed using ArcSDE with Microsoft SQL Server. Supported versions are one or two iterations behind the latest ESRI-supported release. The preferred method for applications to interact with GIS is via REST services. Web applications must be hosted in either ArcGIS Online or ArcGIS Portal.
Mobile Devices	Shall conform to Los Alamos County Mobile Policy #1240. Mobile devices requiring Intranet access must be secured through the County Mobile Device Management System.
Security	<p>Intranet devices must be capable of multi-factor authentication using the Los Alamos County Access Control System. Any requirements for access to ports from the Internet into the County Network shall be approved via a technical review by the ITD before product(s) purchase and implementation. Cisco AMP Antivirus and Antispyware Enterprise software are used on all intranet computing devices; vendor solutions shall work in conjunction with stated antivirus products.</p> <p>Devices requiring wireless access must a) be domain integrated or b) have the ability to accept captive portal agreement (a web page that the user of a public-access network is obliged to view and interact with before access is granted).</p>
Records	Shall conform to Los Alamos County Records and Information Governance Policy #0310
E-Signature	Shall conform to Los Alamos County E-signature Policy #1220.
Hosted/Cloud Based Services	<p>Los Alamos County is interested in taking advantage of Anything as a Service (XaaS) opportunities available through Cloud Service Providers (CSP). Responses for Cloud based solutions shall provide information on the following areas of concern:</p> <ul style="list-style-type: none"> • CSP shall describe the classification of the proposed Cloud solution. Is the solution SaaS, PaaS, IaaS or a combination of the classification types? Is the solution hosted, owned and operated, by CSP or is the solution a partnership of several CSPs including infrastructure partners? If so, where is the hosting facility(s) physically located? • CSP processes involving: <ul style="list-style-type: none"> ○ Physical infrastructure: including locations, internet connectivity and disaster recovery methodologies. CSP data centers shall be located within the United States. ○ Hybrid Connectivity: Solutions requiring cloud system interface with the county network or peripherals located within the County network, need to be identified and tested at the County for network compatibility prior to solution engagement or formalization of service agreements.

	<ul style="list-style-type: none"> ○ Data: Ownership of County data held in the CSP solution shall remain with the County of Los Alamos. CSP shall provide assurance on data ownership. CPS shall describe any other potential use of County data housed within the cloud infrastructure, application or service. CSP shall provide methods for protecting the integrity and security of data (ex. Use of data encryption over internet connections). CSP will describe how the solution meets statutory requirements for data (ex. PII, HIPAA, CJIS, Gramm-Leach-Bliley Act, FIPS 199...). Provide all relevant information including legal boundaries not set forth in contractual agreements if any. Methodology or process for meeting County Records Retention policies. Mitigation strategy for security breaches involving County data. ○ Customer/User Security: Describe CSP methodology for implementing administrative and end-user security and access. What is the CSP methodology for mitigating security breaches with respect to access and user credentials? What is the CSP's methodology or process governing e-Discovery request from entities other than the County? • CSP shall provide strategies or process for withdrawing or exiting the cloud-based solution. Information shall discuss: <ul style="list-style-type: none"> ○ The County shall requirement CSP to provide the County with data in a usable form. Database exports in Microsoft SQL are required, any other format and data type shall require presentation of method, discussion with the County's stakeholders and written acceptance by the Chief Information Officer or designee. ○ Any expected transition cost from CSP vendor, to on premise or other provider, shall be contracted prior to entering into the service agreement. • CSP using a database as part of their solution shall be responsible for providing the County with a database export (see database requirement) a minimum of 1 time per year. The County may at additional expense request multiple Database exports. Costs and request requirements for multiple exports shall be part of CSP proposal for service.
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Exhibit "C"
Listing of Equipment to be Installed
AGR20-25

Lift Station.

SCADA Equipment

- 1) Real Stream controller/GUI
- 2) SS Enclosure
- 3) 24V power supply
- 4) DIN/wire/terminal block/etc.
- 5) Cell Antenna(omni) or stub SMA
- 6) Lightening suppression
- 7) Modem RV50x

Ancillary Equipment

- 1) Laser level or Ultrasonic
- 2) Pressure Transducer (0-300)
- 3) Current/Voltage meter/4-20
- 4) Phase Monitor Relay
- 5) Contact relay for start/stop
- 6) Temp Sensor
- 7) Seal Sensor
- 8) MiniCAS Temp/seal for pump (possibly in newer drives)

Manhole. The following equipment is part of the functionality at each manhole.

- 1) BR21 Radio
- 2) SS Enclosure
- 3) DIN/wire/terminal blocks/etc.
- 4) Cell Antenna (omni) or stub SMA
- 5) Lightening suppression (or none)
- 6) Cabinet Mount Omni for short haul communication
- 7) Modem RV50x
- 8) S20 Transmitter 2 cell
- 9) Level Indicator
- 10) Manhole cover antenna (may not be necessary)
- 11) Power Supply (County to coordinate power at box)
- 12) Solar Power (AC power if accessible)

Gas Flow and Pressure.

- 1) SS Enclosure
- 2) DIN/wire/terminal block/etc.
- 3) Cell Antenna (omni) or stub SMA
- 4) Lightening suppression
- 5) Gas flow analyzer with built in flow computer
- 6) Stabilizing block/valve
- 7) Meter run tube with ports
- 8) RTD assembly
- 9) Modem RV50x
- 10) Power supply-Solar probable

Gas Pressure Stations.

- 1) Stainless Steel Enclosure
- 2) DIN/wire/terminal block/etc.
- 3) Cell Antenna (omni)
- 4) Lightening suppression
- 5) Scada pack 100
- 6) Pressure Transducer
- 7) Modem RVS0x
- 8) Solar Power (AC power if accessible)



County of Los Alamos

Staff Report

February 24, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	7.A
Index (Council Goals):	DPU FY2021 - 2.0 Achieve and Maintain Excellence in Financial Performance
Presenters:	Bob Westervelt, Deputy Utilities Manager - Finance/Admin
Legislative File:	13843-21

Title

Department of Public Utilities FY2022 Budget Presentation

Recommended Action

None - discussion item only. Budget will be presented in March for approval.

Staff Recommendation

None - discussion item only. Budget will be presented in March for approval.

Body

Attached is the proposed budget for FY2022. Last year was a two-year budget cycle in which the then current year (FY21) actual budget and a projection for the subsequent year (FY22) was presented. This year that second-year budget is updated and considered for approval.

The FY22 expenditure budget overall as presented is \$21,530,836 higher than the FY22 projection presented last year, primarily because of the re-budgeting of several projects in FY22 that could not be completed in FY21, due in large measure to work restrictions related to COVID; some additional projects scheduled due to the availability of very favorable financing options; and projected increases in costs of purchased commodities (electricity and gas). Specific re-budgeted items will be discussed in the sections below.

Referring to the summary tab on the Funds Flow worksheet attached, the overall budget shows a modest decrease from FY21's approved budget to the FY22 proposed budget. This is primarily because of the wastewater treatment plant loan funded project included in the FY21 budget, which is not included in the FY22 proposed budget. As noted above and will be discussed further in the sections below, however, there are some new projects budgeted in FY22 which somewhat offset that reduction, but which are also shown funded through other financing, as opposed to directly through rates. By subtracting off those projects, re-budgeted items, and increases to commodities, which we have no direct control over and which, for the most part, are passed through to the end users, we have a true comparison of operating and Capital budgets for the two years. As shown, FY22 is budgeted \$898,607, or 1.39%, higher than FY21, which includes inflation, salary adjustments, and known/planned changes to operations.

The FY21 Projected Actuals are somewhat higher than the FY21 Approved budget, as several

projects were carried over from FY20 and are included in the projected actuals. Budget authority for those projects was initially established in FY20 and is also carried over. There are likely to be similar carry overs from FY21 into FY22.

Specifics in each Utility sub fund are discussed below.

Note: this is a preliminary draft. Some inputs are still being finalized and some numbers are likely to change between now and final presentation to the Board for approval in March. All changes will be noted when the Board considers the final budget for adoption in March.

Staffing changes

There are no changes proposed to our FTE count in the FY22 budget. Due to delays in full deployment of the AMI project, the planned reductions in the meter reading staff have not yet been realized. The additions provided for in the FY21 budget of a Conservation Officer/Procedures Specialist and an additional Senior Office Specialist, and the transition of a limited term position in Water Production to a regular FTE, have not yet occurred, as those positions were planned to coincide with the reductions in meter reading staff. With AMI now moving forward, the proposed FY22 budget reflects those changes. Like last year, Budget Office guidance is to budget those positions at the current salary, and to include funding for potential reclassification of the positions in the “promotions/new hires” line item in the Admin budget. \$75,000 is included in FY22 for that purpose.

Other than those salary adjustments discussed above, there are no realignments planned in the current budget. The Plumbers and Pipefitters Collective Bargaining Agreement is scheduled for renewal in July of CY2021. If negotiation of that Union Agreement results in changes to the wage or benefits for those positions, a budget adjustment will be proposed when those agreements are considered for approval.

Budget Highlights

Per County Budget Office guidance, salaries were budgeted with a 3% overall increase, except for the increments included in the existing Union agreements.

The ten-year capital plan and project descriptions is included in the agenda packet. The project plan shown by utility is included so will not be discussed further in this staff report, other than to reflect the financial impact on the budget and any financing proposed or planned for those projects.

The following bullets highlight key points related to the current budget proposal:

All Divisions

- ❑ Increase in direct labor costs of 5.2%, (\$393,533 more than FY21). This includes the 3% salary increase guidance plus the additional funds budgeted in the “promotions/new hires” line item of the admin budget as described elsewhere in this report.
- ❑ Increase 6.4% in benefits for increased medical insurance costs (\$188,012 more than

FY21)

- Overall increase in IDCs of 5.6%, \$157,809 total from FY21, due to inflationary pressures in other County budgets.

Administration

The department admin budget, which includes Engineering, Public Relations, Finance and Admin, Billing, and Customer Care, decreased by \$937,228, or 15.8% in FY22 compared to the FY21 budget. \$425k was included in FY21 for reconfiguration of the Customer Care workspace, which is not re-budgeted in FY22. In addition, \$250k budgeted in FY21 for acquisition/implementation of a Customer Relations Management application/program is not re-budgeted in FY22. These items will be carried over if not completed by FY21 year end. The Engineering and Public Relations budgets reflect the transfer of the Conservation Program expenditures to PR and the transfer of one FTE to PR to fill the Conservation Officer position, as discussed previously. Funding for double fill of the Deputy of Finance for 6 months due to planned retirement is budgeted as well.

Electric Distribution

No rate increases are projected in FY22 for electric distribution. The revenue neutral rate restructuring previously proposed for FY21 has been postponed awaiting availability of detailed consumption data with implementation of the AMI project. The ten-year O&M budget forecast includes essentially inflationary increases of 1.5% per year after FY20, except for In Lieu taxes, budgeted according to anticipated asset values and tax rates, and Debt Service, budgeted according to current amortization schedules. Overall operating expenses in ED are higher by \$1,127,836, due primarily to higher projected cost of power, which will be discussed further in the Electric Production section below.

Highlights follow:

- Budget for contractual services for monthly safety training and tree trimming services (approx. \$220K total for these two items) continues in FY22.
- Proposed capital budget for FY22 includes \$700,000 for underground and overhead system replacements (in WR and LA), as well as \$50,000 for the White Rock GWS/ ED Facility at the WRTP, re-budgeted from FY21.
- Re-budgeted \$12k for SCADA for the line crew and \$60k for heat pumps at substations and switches.

Electric Production

The O&M budget for Electric Production is \$2.8M higher than FY21, due primarily to increases in purchased power costs. LANL is planning on increasing onsite generation, however currently the onsite generation does not have an associated cost in our budget as there is no contractual framework for inclusion. LANL's load forecast is higher by 87,696 MWh but will be offset by 99,501 MWh due to the onsite generation, for a net LANL load reduction for cost distribution purposes of 11,805 MWh. No further planned outages are scheduled at San Juan before the scheduled retirement of the plant in 2022. Laramie River environmental upgrades were completed in FY19 and will not be repeated. There are no direct costs associated with the

Carbon Free Power Project as they are now being rolled into the cost of the project. Cost will be determined by LAC's continued involvement or subsequent departure from the project.

Highlights follow:

- There is a potential offramp for the Carbon Free Power Project in FY2022. LAC's obligation should that off ramp be taken is ~\$1.2M, budgeted in FY22. Should the offramp not be taken, that accrued liability would carry over to the next offramp or future project obligations.
- There is a significant increase of \$5,187,320 in cost for purchased power due to market projections of future power costs.
- There is a planned decrease of \$22,129 in Dispatch Center expenses, with a corresponding decrease in the Sandia/Kirtland offset of \$13,156 due to transfer of SCADA costs and responsibility to LANL.
- Will be receiving 15MW per the new Uniper contract starting in April of FY 22.
- San Juan Operations budget decreases in FY 2022 due to closure of plant.
- Increase in capital for FY22 of \$365k. Projects include El Vado controls upgrade (\$440,000), fiber optic line spills substation to hydroelectric plant (\$375,000), Abiquiu transformer replacement (\$100,000), and RTU/Switches Fiber conversion at both Hydros. Total of \$1,165,000.
- 1 current vacancy for the Power Scheduler/Energy Analyst approved as an addition in FY21.
- Re-budgeted items include \$45k for lighting and equipment at the Hydros, \$30k for training postponed in FY21 due to COVID, mostly having to do operational changes/requirements associated with Energy Imbalance Markets, and \$45k for a WECC energy assessment and Peak Reliability assessment.

Gas

The NMMEA deal guarantees a \$0.295 discount, which is included in the budget for FY2022. Natural gas market prices remain low, and gas purchases are budgeted at \$2.96/MMBTU in FY22 including transportation (after the NMMEA discount).

Highlights follow:

- Continuing increased budget for contractual services for on call assistance with main line maintenance, cathodic protection and PRV maintenance totaling \$46k in FY22.
- Proposed FY 22 capital projects include the re-budgeted GWS/ED facilities at the WR WWTP (\$50,000).
- Moved \$281k from the capital budget to Ops for the White Rock Steel Key Valve Project as it is more of an operational activity to be completed as specific valves needing replacement are identified.
- Proposed FY22 capital projects include the Public Works road project for Alamo & Capulin roads (\$535,000) and \$300k for Various SCADA Pressure Monitoring Stations.
- Re-budgeted \$60k for meter changeouts anticipated with AMI deployment, as meter replacements are not included in the contract/budget for that project.

Water Production and Distribution

The capital plan for Water Production, as has been the practice for several years, includes non-potable projects that are funded through grants/loans from the Water Trust Board (WTB). These projects will only occur if the WTB funding is realized. The capital plan also includes re-budgeting of the Camp May Water Line at \$4M, funded with funding from the General Fund and the Ski Hill Operator, and an additional \$5.575M in projects funded with low interest Drinking Water State Revolving Loan funds.

The O&M and capital budget for water production and distribution has been revised from the proposed 20-year plan presented to the Board at the November 2017 BPU meeting to take advantage of the extremely low rate financing available, using the savings to accelerate some of the planned distribution system replacement projects that are scheduled. Water sales appear to have stabilized more in line with the revised sales projections we adopted in FY18's budget cycle. The three-year rate adjustments adopted in FY20 are incorporated into budgeted revenues.

Highlights follow:

Water Distribution

- Included \$40k in other contractual services for GIS upgrades, continued from FY21.
- Continued the increase initiated in FY21 for on call assistance with main line maintenance and valve maintenance in FY22. Budgeted in FY22 at \$104k, up from \$52k budgeted in FY21 (\$143k projected actuals in FY21).
- Budgeted an increase in supplies for the AMI project in meter changeouts and maintenance, and PRV station R&R in FY21, continuing in FY22. Also, \$255k is planned for meter changeouts in FY22 for approx. 1,200 meters.
- Proposed FY 22 capital projects include the re-budgeted GWS/ED facilities at the WR WWTP (\$50,000), 33rd and 34th Street distribution line replacements (\$448,000), and distribution line replacements to coordinate with the Public Works road project at Alamo & Capulin roads (\$732,000).

Water Production

- As in DW, included \$40k in other contractual services for GIS upgrades, continued from FY21.
- Decrease in pumping power is projected (\$150,000 less in FY22).
- Requesting 1 limited term employee to become a regular FTE in WP as a Senior Water Systems Operator. This FTE will be repurposing the remaining staff reduction from metering related to AMI, as discussed previously.
- Continuing increase in contractual services for on call assistance with well station maintenance, booster station maintenance for both potable and NP, transmission line maintenance, NP treatment system maintenance, and NP main and delivery line maintenance in FY 21 and 22.
- Increase in supplies for new control valves for wells and booster stations, and new pipeline valves are planned for transmission lines continuing in FY22.
- Added \$50k for Contractor services to locate, mark, and if necessary, replace transmission line main valves.
- Budget includes \$25k in FY22 for contractual services for a tabletop dam EAP in non-potable.

-
- Proposed FY 22 capital projects include a 2nd group 12 tank (NP-WTB, \$900,000), repainting of Barranca Mesa tank 2 (DWSRL, \$675,000); the Camp May Water Line (County plus Ski Hill Operator funded, \$800,000); MCC Replacement \$ Design (DWSRL, \$2,200,000), LA Reservoir road stabilization project (NMED - RSPG Grant, \$800,000), the re-budgeted GWS/ED Facilities at the WRWWTP (\$50,000), Improved filtration at the LA WWTP (WTB, \$2,875,000), NM SR4 transmission line replacement design and construction (DWSRL, \$2,980,000), and Tank Piping Upgrades (\$300,000). As indicated, most of these projects depend on loan or grant funding and will only be executed if that funding is realized.

Wastewater Division

The O&M budget in the wastewater division is essentially flat except for approximately \$800k additional debt service payments on the new WWTP loan. Like water, the three-year rate adjustments adopted in FY20 are incorporated into budgeted revenues.

Highlights follow:

- As in DW and WP, included \$40k in other contractual services for GIS upgrades, continued from FY21.
- Re-budgeted items include \$26k for SCADA Field Devices, \$155k for new pumps and MCCs, and \$263k for a new screen and large equipment replacements at the LA WWTP.
- Proposed FY22 capital projects include GWS/WC facilities at WR WWTP (\$50,000), re-budgeted from FY21, elimination of a Bayo Canyon Lift Station (\$550,000), the 33rd Street and 34th Street Utilities Replacement project (\$352,000), and improvements to the composting facility (\$495,000). Total projects of \$1,447,000.

Profit Transfer/ Budget Options

The Budget presented in attachments A - C and discussed above does not include projects proposed to be funded with Profit Transfer funds. In FY2020 Council approved a process whereby DPU would propose “budget options” which DPU would recommend be funded with Profit Transfer funds. A ten-year schedule of projected project recommendations is attached as Attachment D herewith. For FY2022, three projects are proposed to coordinate utilities infrastructure replacements with planned road construction along Canyon Road. Profit Transfer funding from FY20 sales totals \$799,727, and \$698k in projects are proposed. The recommended motion for budget approval, when presented, will include a clause for approval of use of profit transfer funds for these projects and approval of spending authority for these projects as “budget options”.

Alternatives

N/A

Fiscal and Staff Impact

See above

Attachments

- A. FY2022 Fund Flows

-
- B. Ten Year Forecast Revenues and Expenses FY2022 through FY2031
 - C. Ten Year Capital Plan
 - D. Ten Year Profit Transfer - Budget Options
 - E. Financial Guidelines Approved by BPU 8-17-16

Los Alamos County Utilities Department
Fiscal Year 2022 Budgets
Summary Of Expenditure Budget

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2021 Projected	FY 2022 Proposed	
Electric Production	37,183,748	33,416,117	38,228,532	41,590,084	41,425,940	
Electric Distribution	14,389,287	13,505,505	13,047,009	15,825,983	14,152,586	
Less Interdivision Electric Sales	(7,162,868)	(6,153,928)	(5,876,301)	(7,729,026)	(7,284,624)	
Total Electric Fund	\$ 44,410,167	\$ 40,767,694	\$ 45,399,240	\$ 49,687,042	\$ 48,293,902	
Gas	\$ 4,849,314	\$ 4,898,571	\$ 4,744,661	\$ 4,678,490	\$ 6,065,394	
Water Production	6,844,474	4,539,687	13,863,652	15,525,591	19,014,772	
Water Distribution	4,913,813	6,093,137	5,882,019	6,642,985	6,908,562	
Less Interdivision Water Sales	(3,090,819)	(3,471,324)	(3,076,750)	(4,222,734)	(3,200,750)	
Total Water Fund	\$ 8,667,468	\$ 7,161,499	\$ 16,668,921	\$ 17,945,841	\$ 22,722,585	
Wastewater	\$ 3,905,191	\$ 4,551,655	\$ 19,507,627	\$ 19,540,195	\$ 6,977,107	
Total Expenditure Budget	\$ 61,832,140	\$ 57,379,419	\$ 86,320,449	\$ 91,851,568	\$ 84,058,988	-2.62%
OTHER FINANCING						
WP			\$ 6,831,060	\$ 6,831,060	\$ 12,725,000	
WT			\$ 14,800,856	\$ 14,800,856	\$ 550,000	
REBUDGETED					\$ 1,220,000	
INCREASE TO PURCHASE POWER					\$ 3,372,499	
INCREASE TO COST OF GAS					\$ 604,350	
Total Expenditure Budget less Other Financing, Rebudgeted Items and Increase to Purchased Commodities	\$ 61,832,140	\$ 57,379,419	\$ 64,688,532	\$ 70,219,652	\$ 65,587,139	1.39%

Los Alamos County Utilities Department
Fiscal Year 2022 Budgets
Summary of Expenditure Budget -- **ELECTRIC PRODUCTION**

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2021 Projected	FY 2022 Proposed
REVENUE					
Mwh Sales - LANL	441,489	429,776	609,518	609,518	528,331
Mwh Sales - LAC Distribution	116,798	107,226	122,430	122,430	118,015
Total Mwh Sales	558,287	537,001	731,948	731,948	646,346
Revenue per Mwh	\$ 58.96	\$ 54.80	\$ 46.43	\$ 46.43	\$ 52.88
DOE Revenues	\$ 25,751,735	\$ 23,276,163	\$ 28,110,395	\$ 28,110,395	\$ 26,893,902
Economy Sales	4,443,477	3,908,117	4,077,852	4,077,852	7,083,430
Interest on Reserves	375,424	283,540	130,000	130,000	130,000
Bond Federal Subsidy	31,877	32,089	33,984	33,984	33,984
TOTAL REVENUE	\$ 30,602,513	\$ 27,499,909	\$ 32,352,231	\$ 32,352,231	\$ 34,141,316
OPERATING EXPENSES					
El Vado Generation	\$ 472,970	\$ 399,938	\$ 383,726	\$ 433,622	\$ 539,174
Abiquiu Generation	296,147	254,476	366,251	422,085	418,709
Contract Administration	44,101	60,734	79,030	12,211	79,701
Load Control	1,842,321	1,658,124	1,640,880	1,745,314	1,617,415
Transmission - PNM	2,209,138	2,209,588	2,450,000	2,041,459	2,420,904
Transmission - Other	2,231,925	2,405,183	3,045,619	2,231,737	3,451,657
Purchased Power	13,709,720	10,957,265	12,290,735	19,949,108	17,478,055
Photovoltaic Array	30,087	-	5,000	14,493	5,000
Debt Service	2,483,323	2,501,744	2,769,652	2,769,652	941,029
Property Taxes	401,630	343,434	417,083	330,431	410,037
Insurance	83,750	93,167	100,000	100,000	100,000
San Juan Operations	10,156,619	9,347,412	10,412,070	7,838,446	8,090,447
Laramie River Operations	2,081,882	2,026,061	2,220,011	1,646,895	2,300,528
SMR Project	11,489	4,572	-	-	-
Non-Pool Expenses	24	70,894	31,373	5,940	1,288,559
Interdepartmental Charges	459,441	489,216	486,294	571,046	545,212
Administrative Allocation	472,113	594,310	730,808	512,645	574,513
TOTAL OPERATING EXPENSES	\$ 36,986,681	\$ 33,416,117	\$ 37,428,532	\$ 40,625,084	\$ 40,260,940
OPERATING INCOME (LOSS)	\$ (6,384,168)	\$ (5,916,208)	\$ (5,076,301)	\$ (8,272,853)	\$ (6,119,624)
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 197,067	\$ -	\$ 800,000	\$ 965,000	\$ 1,165,000
Net Change in Retirement Reserve Balances			(186,747)	(186,747)	(90,737)
OTHER FINANCING Forecast					
Transfer from Distribution Fund	\$ 7,162,868	\$ 6,153,928	\$ 5,876,301	\$ 5,876,301	\$ 7,284,624
NET INCOME (LOSS)	\$ 581,632	\$ 237,720	\$ 186,747	\$ (3,174,805)	\$ 90,737
Cash & Investments					
Working Cash	\$ 2,160,545	\$ (1,855,843)	\$ (3,599,265)	\$ (6,303,277)	\$ (7,536,979)
Resource Pool Checking					
Operations Reserve		2,227,095	4,868,032	4,210,492	5,725,440
Contingency Reserve					
Total Unrestricted Cash & Investments	\$ 2,160,545	\$ 371,252	\$ 1,268,767	\$ (2,092,785)	\$ (1,811,538)
Restricted					
Bond Reserve & Debt Service	\$ 1,830,909	\$ 1,860,529	\$ 1,830,909	\$ 1,830,909	\$ 1,706,949
San Juan Decommissioning	\$ 5,568,503	\$ 5,819,476	\$ 5,275,020	\$ 5,275,020	\$ 5,463,420
San Juan Mine Reclamation	\$ 4,451,040	\$ 4,457,617	\$ 4,410,488	\$ 4,410,488	\$ 4,116,538
Laramie River Decommissioning	\$ 871,733	\$ 928,543	\$ 838,980	\$ 838,980	\$ 877,980
Bond Construction Fund	\$ -	\$ -			
Total Restricted	\$ 12,722,184	\$ 13,066,165	\$ 12,355,397	\$ 12,355,397	\$ 12,164,887
Total Cash & Investments	\$ 14,882,729	\$ 13,437,417	\$ 13,624,164	\$ 10,262,612	\$ 10,353,349

Los Alamos County Utilities Department
Fiscal Year 2022 Budgets
Summary of Expenditure Budget -- **ELECTRIC DISTRIBUTION**

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2021 Projected	FY 2022 Proposed
REVENUE					
kWh Sales	116,798,138	107,225,732	122,429,848	122,429,848	118,014,816
Revenue per kWh	\$ 0.1158	\$ 0.1264	\$ 0.1172	\$ 0.1172	\$ 0.1172
Sales Revenue	\$ 13,529,517	\$ 13,549,435	\$ 14,354,374	\$ 14,354,374	\$ 13,836,731
Interest on Utility Reserves	20,805	31,833	67,942	67,942	67,942
Bond Federal Subsidy	63,730	64,153	59,482	59,482	84,625
Pole Rentals	0	44,525	53,601	53,601	53,601
Misc. Service Revenues	33,398	25,259	54,500	54,500	54,500
Revenue on Recoverable Work	36,787	489,400	150,000	150,000	150,000
TOTAL REVENUE	\$ 13,684,236	\$ 14,204,604	\$ 14,739,900	\$ 14,739,900	\$ 14,247,399
OPERATING EXPENSES					
Supervision, Misc Direct Admin	881,044	805,210	790,084	619,907	761,575
Substation Maintenance	60,943	44,435	65,852	7,775	67,874
Switching Station Maintenance	15,800	11,773	73,262	8,496	102,553
Overhead Maintenance	341,756	436,163	538,559	377,489	566,638
Underground Maintenance	579,801	553,255	513,711	471,520	490,601
Meter Maintenance	140,053	101,631	110,229	219,908	91,283
Interdepartmental Charges	650,204	724,308	740,452	863,866	916,694
Eng. Cust Svc. MR and Admin	717,564	566,537	1,144,966	582,866	848,600
In Lieu Taxes	542,159	558,068	572,912	540,967	543,256
Debt Service	1,251,651	1,232,687	1,253,443	1,253,444	1,133,909
Cost of Power	7,162,868	6,153,928	5,876,301	7,729,026	7,284,624
TOTAL OPERATING EXPENSES	\$ 12,343,843	\$ 11,187,995	\$ 11,679,771	\$ 12,675,265	\$ 12,807,607
OPERATING INCOME (LOSS)	\$ 1,340,393	\$ 3,016,609	\$ 3,060,129	\$ 2,064,635	\$ 1,439,792
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 1,478,194	\$ 1,741,890	\$ 750,000	\$ 2,533,480	\$ 750,000
OTHER FINANCING					
Bond/Grant proceeds	\$ -				
Profit Transfer to General Fund	(567,249)	(575,620)	(617,238)	(617,238)	(594,979)
Sale of Scrap/Obsolete Inventory	(177)	(7,034)			
BUDGETED NET INCOME (LOSS)	\$ (704,874)	\$ 706,133	\$ 1,692,890	\$ (1,086,084)	\$ 94,812
Cash & Investments					
Working Cash	(3,005,997)	(1,103,002)	(4,836,039)	(7,186,397)	(8,938,126)
Capital Replacement Reserve			1,359,940	1,359,940	2,850,500
Operations Reserve		1,401,517	2,275,014	1,846,398	2,194,537
Contingency Reserve		-	522,839	522,839	530,682
Rate Stabilization Reserve					
Total Unrestricted Cash & Investments	\$ (3,005,997)	\$ 298,515	\$ (678,246)	\$ (3,457,220)	\$ (3,362,408)
Restricted					
Bond Reserve & Debt Service	1,348,622	1,393,594	1,348,622	1,348,622	1,348,622
Bond Construction Fund	2,714,623	(0)	2,714,623	2,714,623	2,714,623
Total Restricted	\$ 4,063,245	\$ 1,393,594	\$ 4,063,245	\$ 4,063,245	\$ 4,063,245
Total Cash & Investments	\$ 1,057,248	\$ 1,692,108	\$ 3,384,999	\$ 606,025	\$ 700,837

Los Alamos County Utilities Department
Fiscal Year 2022 Budgets
Summary of Expenditure Budget -- **GAS DISTRIBUTION**

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2021 Projected	FY 2022 Proposed
REVENUE					
Therm Sales	9,229,011	8,625,811	7,650,000	7,650,000	7,650,000
Revenue per Therm	\$ 0.5888	\$ 0.5335	\$ 0.2300	\$ 0.5653	\$ 0.6443
Sales Revenue	\$ 5,433,936	\$ 4,602,122	\$ 4,324,596	\$ 4,324,596	\$ 4,928,946
Interest on Utility Reserves	79,940	78,603	84,534	84,534	55,789
Revenue on Recoverable Work	47,616	69,784	20,300	20,300	20,605
TOTAL REVENUE	\$ 5,561,492	\$ 4,750,509	\$ 4,429,430	\$ 4,429,430	\$ 5,005,340
OPERATING EXPENSES					
Supervision, Misc Direct Admin	646,343	567,237	376,886	475,728	395,998
Customer Service	24,321	21,209	52,815	24,551	30,739
Gas Distribution	212,717	236,179	326,707	287,715	630,888
Gas Meters	118,505	104,481	126,189	52,144	121,955
Gas Capital Project Inspection & Support	-	-	-	152	-
Interdepartmental Charges	355,889	390,252	388,068	437,728	359,642
Eng. Cust Svc. MR and Admin	516,559	565,157	1,073,775	601,952	951,922
In Lieu Taxes	212,144	193,704	188,212	165,549	194,669
Cost of Gas	2,545,338	1,841,663	1,660,050	1,705,335	2,264,400
TOTAL OPERATING EXPENSES	\$ 4,631,817	\$ 3,919,884	\$ 4,192,702	\$ 3,750,853	\$ 4,950,212
OPERATING INCOME (LOSS)	\$ 929,676	\$ 830,625	\$ 236,728	\$ 678,576	\$ 55,127
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 22,984	\$ 724,673	\$ 350,000	\$ 725,678	\$ 885,000
OTHER FINANCING					
Profit Transfer to General Fund	(194,513)	(254,014)	(201,959)	(201,959)	(230,182)
Transfer to WW (FY18 budget revision)					
BUDGETED NET INCOME (LOSS)	\$ 712,178	\$ (148,062)	\$ (315,231)	\$ (249,060)	\$ (1,060,054)
Cash & Investments					
Capital Replacement Reserve		816,000	885,000	885,000	2,228,689
Operations Reserve		1,266,326	1,266,326	1,266,326	1,342,906
Contingency Reserve		261,420	261,420	261,420	265,341
Rate Stabilization Reserve	-	-	-	-	-
Working Cash	3,930,626	1,690,764	1,306,534	1,372,704	(1,111,540)
Total Cash & Investments	\$ 3,930,626	\$ 4,034,510	\$ 3,719,279	\$ 3,785,450	\$ 2,725,395

Los Alamos County Utilities Department
Fiscal Year 2022 Budgets
Summary of Expenditure Budget -- **WATER PRODUCTION**

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2021 Projected	FY 2022 Proposed
REVENUE					
Potable 1000-gallon production	963,397	1,131,886	1,150,000	1,150,000	1,150,000
Non-potable 1000-gallon production	80,285	96,236	94,500	94,500	94,500
Revenue per 1000 gallons	\$ 3.8840	\$ 3.4188	\$ 3.6685	\$ 3.6685	\$ 3.8164
Potable Sales Revenue	\$ 4,053,611	\$ 4,198,750	\$ 4,565,500	\$ 4,565,500	\$ 4,749,500
Repayment of InterUtility Loan	187,569	187,569	187,569	187,569	187,569
Interest on Utility Reserves	212,581	137,032	144,683	144,683	128,935
Bond Federal Subsidy	25,867	26,038	27,576	27,576	27,576
Non Potable Revenue	206,211	255,989	186,997	186,997	194,708
TOTAL REVENUE	\$ 4,685,838	\$ 4,805,377	\$ 5,112,324	\$ 5,112,324	\$ 5,288,288
OPERATING EXPENSES					
Supervision, Misc Direct Admin	833,023	\$ 847,627	\$ 837,671	\$ 674,860	\$ 822,679
Pumping Power	460,726	444,952	700,000	543,832	550,000
Wells	184,285	139,500	164,531	332,991	217,339
Booster Pump Stations	156,520	85,917	166,531	107,928	180,646
Treatment	113,428	26,313	45,411	24,296	32,618
Storage Tanks	8,452	88,898	41,266	11,061	39,018
Transmission Lines	171,786	181,321	274,228	536,452	310,868
Capital Project Inspection & Support	-	248	-	385	-
Non Potable System	205,875	199,374	342,420	297,274	525,161
Ski Hill	5,172	4,760	7,377	919	5,035
Interdepartmental Charges	327,392	348,180	316,328	361,490	295,121
Eng. Cust Svc. MR and Admin	684,873	857,470	987,307	874,382	895,646
State Water Tax	34,756	36,330	40,000	42,087	40,000
Debt Service	110,177	110,360	283,656	283,657	320,642
TOTAL OPERATING EXPENSES	\$ 3,296,465	\$ 3,371,250	\$ 4,206,726	\$ 4,091,612	\$ 4,234,772
OPERATING INCOME (LOSS)	\$ 1,389,373	\$ 1,434,127	\$ 905,598	\$ 1,020,713	\$ 1,053,516
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 3,548,009	\$ 1,168,437	\$ 9,656,926	\$ 11,433,979	\$ 14,780,000
OTHER FINANCING					
Grants/Loan Proceeds	\$ 484,560	\$ -	\$ 2,555,195	\$ 2,555,195	\$ 8,725,000
County/External Reimbursement			4,275,866	4,275,867	4,000,000
Sale of scrap					
BUDGETED NET INCOME (LOSS)	\$ (1,674,076)	\$ 265,690	\$ (1,920,267)	\$ (3,582,205)	\$ (1,001,484)
Cash & Investments					
Working Cash	\$ 9,495,582	\$ 5,522,274	\$ (2,318,995)	\$ (3,980,932)	\$ (2,479,710)
Operations Reserve		\$ 1,961,535	\$ 1,961,535	\$ 1,961,535	\$ 1,957,065
Contingency Reserve		\$ 784,259	\$ 784,259	\$ 784,259	\$ 796,023
Retirement/Reclamation Reserve		\$ -	\$ -		\$ -
Capital Replacement Reserve		2,067,007	8,000,000	8,000,000	5,490,000
Total Unrestricted Cash & Investments	\$ 9,495,582	\$ 10,335,075	\$ 8,426,799	\$ 6,764,862	\$ 5,763,377
Restricted					
Bond Debt Service & Reserve Fund	\$ 168,900	\$ 180,892	\$ 168,900	\$ 168,900	\$ 168,900
Total Restricted	\$ 168,900	\$ 180,892	\$ 168,900	\$ 168,900	\$ 168,900
Total Cash & Investments	9,664,482	10,515,967	8,595,699	6,933,762	5,932,277

Los Alamos County Utilities Department
Fiscal Year 2022 Budgets
Summary of Expenditure Budget -- **WATER DISTRIBUTION**

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2021 Projected	FY 2022 Proposed
REVENUE					
Sales in Thousand of Gallons	670,815	834,930	775,000	775,000	775,000
Revenue per thousand gallons	\$ 6.9315	\$ 6.7186	\$ 7.2889	\$ 7.2889	\$ 7.5805
Sales Revenue	\$ 4,649,726	\$ 5,609,533	\$ 5,648,899	\$ 5,648,899	\$ 5,874,855
Interest on Utility Reserves	23,837	30,436	-	-	-
Revenue on Recoverable Work	9,943	26,194	15,225	15,225	15,453
Misc Service Revenues	64,982	129,961	15,225	15,225	15,453
TOTAL REVENUE	\$ 4,748,488	\$ 5,796,124	\$ 5,679,349	\$ 5,679,349	\$ 5,905,761
OPERATING EXPENSES					
Supervision, Misc Direct Admin	\$ 236,729	\$ 339,516	\$ 315,291	\$ 349,501	\$ 339,486
Hydrants	-	-	-	-	-
Water Distribution	406,247	386,202	508,353	522,334	508,985
Water Meters	211,152	235,805	482,054	232,776	457,266
Capital Project Inspections & Support	115	61	-	177	-
Interdepartmental Charges	344,477	333,420	297,863	332,500	281,102
Eng. Cust Svc. MR and Admin	479,041	518,994	1,051,708	550,410	890,974
Cost of Water	3,090,819	3,471,324	3,076,750	4,222,734	3,200,750
TOTAL OPERATING EXPENSES	\$ 4,768,580	\$ 5,285,323	\$ 5,732,019	\$ 6,210,432	\$ 5,678,562
OPERATING INCOME (LOSS)	\$ (20,092)	\$ 510,801	\$ (52,670)	\$ (531,083)	\$ 227,199
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 145,233	\$ 807,814	\$ 150,000	\$ 432,553	\$ 1,230,000
OTHER FINANCING					
Sale of Scrap and Obsolete Inventory	0	(2,794)			
BUDGETED NET INCOME (LOSS)	\$ (165,325)	\$ (294,219)	\$ (202,670)	\$ (963,636)	\$ (1,002,801)
Cash & Investments					
Capital Replacement Reserve			\$ 556,039	\$ 556,039	\$ 450,000
Operations Reserve			1,327,635	993,849	1,238,906
Contingency Reserve					
Working Cash	(1,338,911)	(2,134,986)	(4,221,330)	(4,648,510)	(5,790,329)
Total Cash & Investments	(1,338,911)	(2,134,986)	(2,337,656)	(3,098,622)	(4,101,423)

Los Alamos County Utilities Department
Fiscal Year 2022 Budgets
Summary of Expenditure Budget -- **WASTE WATER TREATMENT COLLECTION**

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2021 Projected	FY 2022 Proposed
REVENUE					
Thousand of Gallons Processed	397,929	450,124	430,000	430,000	430,000
Sales Revenue	\$ 5,518,422	\$ 5,853,949	\$ 6,267,122	\$ 6,267,122	\$ 6,390,560
Interest on Utility Reserves	62,343	90,527	110,965	110,965	171,746
Revenue on Recoverable Work	1,230.00	3,040.74	-	-	-
TOTAL REVENUE	\$ 5,581,995	\$ 5,947,517	\$ 6,378,087	\$ 6,378,087	\$ 6,562,306
OPERATING EXPENSES					
Supervision, Misc Direct Admin	\$ 265,841	\$ 375,635	\$ 374,175	\$ 236,144	\$ 386,304
Wastewater Collection	179,792	226,653	305,857	220,958	293,310
Lift Stations	207,552	250,062	306,379	270,745	384,622
Collection Capital Proj Inspection & Support	650	298	-	3	-
Wastewater Treatment	1,107,901	1,275,503	1,559,955	1,869,424	1,662,753
Interdepartmental Charges	603,722	545,364	514,622	585,374	518,376
Eng. Cust Svc. MR and Admin	633,085	678,662	897,469	713,943	787,148
Debt Service	837,042	696,409	698,314	698,314	1,497,594
TOTAL OPERATING EXPENSES	\$ 3,835,585	\$ 4,048,587	\$ 4,656,771	\$ 4,594,904	\$ 5,530,107
OPERATING INCOME (LOSS)	\$ 1,746,410	\$ 1,898,931	\$ 1,721,316	\$ 1,783,182	\$ 1,032,199
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 69,606	\$ 503,068	\$ 14,850,856	\$ 14,945,291	\$ 1,447,000
OTHER FINANCING					
Grant/Loan Proceeds	\$ -	\$ -	\$ 14,800,856	\$ 14,800,856	\$ 550,000
Transfer from Gas Dist (FY18 budget revision)					
BUDGETED NET INCOME (LOSS)	\$ 1,676,804	\$ 1,395,862	\$ 1,671,316	\$ 1,638,747	\$ 135,199
Cash & Investments					
Capital Replacement Reserve	\$ -	\$ 1,038,678	\$ 882,304	\$ 882,304	\$ 882,304
Operations Reserve	\$ -	\$ 1,979,229	\$ 1,979,229	\$ 1,948,295	\$ 2,016,257
Contingency Reserve		\$ 365,987	\$ 365,987	\$ 365,987	\$ 371,477
Working Cash	\$ 2,712,387	\$ 1,096,873	\$ 2,924,563	\$ 2,922,928	\$ 2,984,676
Loan from Gas Division					
Total Unrestricted Cash & Investments	\$ 2,712,387	\$ 4,480,767	\$ 6,152,083	\$ 6,119,514	\$ 6,254,713
Restricted Loan Reserves	\$ 717,755	\$ 717,755	\$ 717,755	\$ 717,755	\$ 717,755
Total Cash & Investments	\$ 3,430,142	5,198,522	6,869,838	6,837,270	6,972,469

Los Alamos County Utilities Department
Fiscal Year 2022 Budgets
Summary of Expenditure Budget -- **ADMIN**

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2021 Projected	FY 2022 Proposed
Meter Reading	321,085	333,108	180,014	376,172	202,906
Customer Service	578,245	643,275	948,405	635,659	608,005
Engineering	1,354,345	1,384,069	1,970,091	1,416,140	1,837,251
Electric Production	53,673	29,913	129,337	4,637	22,507
All Except EP	160,436	117,819	463,280	258,129	394,115
All Divisions	247,347	350,516	306,754	494,258	169,500
Electric Distribution	4,076	2,612	57,744	-	88,874
Gas Distribution	121,166	133,013	229,321	159,439	296,403
Water Distribution	115,647	113,422	226,778	72,302	246,766
Wastewater Collection & Treatment	117,119	107,630	232,974	132,858	278,556
Water Production	160,149	216,500	323,903	294,517	340,531
Administration	505,536	655,441	814,120	476,065	894,747
Electric Production	26,352	43,808	81,245	4,495	82,941
All Except EP	13,373	7,169	10,000	2,526	18,000
All Divisions	332,162	441,548	572,875	469,044	643,806
Electric Distribution	-	-	-	-	-
Water Production	4,410	505	150,000	-	150,000
Finance	613,812	642,523	1,613,346	566,807	979,319
Electric Production	4,607	1,054	169,449	-	176,661
All Except EP	47	397	364,590	-	136,472
All Divisions	349,924	573,199	979,307	566,807	666,186
Electric Distribution	-	-	100,000	-	-
Gas Distribution	-	-	-	-	-
Water Distribution	-	-	-	-	-
Wastewater Collection & Treatment	-	-	-	-	-
Management Audit	-	-	-	-	-
Public Information	187,028	206,234	417,837	197,183	484,357
Electric Production	-	-	-	-	-
All Except EP	152,525	154,854	417,357	-	483,857
All Divisions	-	-	480	-	500
Electric Distribution	2,228	6,420	-	-	-
Gas Distribution	8,862	12,936	-	-	-
Water Distribution	9,778	7,175	-	-	-
Wastewater Collection & Treatment	3,085	841	-	-	-
Water Production	481	936	-	-	-
Total Administrative Division	3,560,051	3,864,649	5,943,813	3,668,026	5,006,585

**LOS ALAMOS DEPARTMENT OF PUBLIC UTILITIES
CASH & INVESTMENT BUDGET**

	FY2019 ACTUAL	FY2020 ACTUAL	FY2021 APPROVED BUDGET	FY2022 PROPOSED BUDGET
EP Cash & Investments - UNRESTRICTED	\$ 2,160,545	\$ 371,252	\$ 1,268,767	\$ (1,811,538)
EP Cash & Investments - RESTRICTED	\$ 12,722,184	\$ 13,066,165	\$ 12,355,397	\$ 12,164,887
EP Cash & Investments - TOTAL	\$ 14,882,729	\$ 13,437,417	\$ 13,624,164	\$ 10,353,349
ED Cash & Investments - UNRESTRICTED	\$ (3,005,997)	\$ 298,515	\$ (678,246)	\$ (3,362,408)
ED Cash & Investments - RESTRICTED	\$ 4,063,245	\$ 1,393,594	\$ 4,063,245	\$ 4,063,245
ED Cash & Investments - TOTAL	\$ 1,057,248	\$ 1,692,108	\$ 3,384,999	\$ 700,837
GAS Cash & Investments - UNRESTRICTED	\$ 3,930,626	\$ 4,034,510	\$ 3,719,279	\$ 2,725,395
GAS Cash & Investments - RESTRICTED	\$ -	\$ -	\$ -	\$ -
GAS Cash & Investments - TOTAL	\$ 3,930,626	\$ 4,034,510	\$ 3,719,279	\$ 2,725,395
DW Cash & Investments - UNRESTRICTED	\$ (1,338,911)	\$ (2,134,986)	\$ (2,337,656)	\$ (4,101,423)
DW Cash & Investments - RESTRICTED	\$ -	\$ -	\$ -	\$ -
DW Cash & Investments - TOTAL	\$ (1,338,911)	\$ (2,134,986)	\$ (2,337,656)	\$ (4,101,423)
WP Cash & Investments - UNRESTRICTED	\$ 9,495,582	\$ 10,335,075	\$ 8,426,799	\$ 5,763,377
WP Cash & Investments - RESTRICTED	\$ 168,900	\$ 180,892	\$ 168,900	\$ 168,900
WP Cash & Investments - TOTAL	\$ 9,664,482	\$ 10,515,967	\$ 8,595,699	\$ 5,932,277
WW Cash & Investments - UNRESTRICTED	\$ 2,712,387	\$ 4,480,767	\$ 6,152,083	\$ 6,254,713
WW Cash & Investments - RESTRICTED	\$ 717,755	\$ 717,755	\$ 717,755	\$ 717,755
WW Cash & Investments - TOTAL	\$ 3,430,142	\$ 5,198,522	\$ 6,869,838	\$ 6,972,469
DPU TOTAL Cash & Investments - UNRESTRICTED	13,954,232	17,385,132	16,551,026	5,468,118
DPU TOTAL Cash & Investments - RESTRICTED	17,672,084	15,358,407	17,305,297	17,114,787
DPU TOTAL Cash & Investments - TOTAL	31,626,316	32,743,539	33,856,323	22,582,905

Los Alamos County Department of Public Utilities
Fiscal Year 2022
Budget Summary by Categories

	FY 2019 Actual	FY 2020 Actual	FY 2021 Approved	FY 2022 Proposed
Expenditures by Fund:				
Electric	44,410,167	40,767,694	45,399,240	48,293,902
Gas	4,849,314	4,898,571	4,744,661	6,065,394
Water	8,667,468	7,161,499	16,668,921	22,722,585
Wastewater	3,905,191	4,551,655	19,507,627	6,977,107
	61,832,140	57,379,419	86,320,449	84,058,988

Expenditures by Type:				
Salaries	5,727,239	5,912,836	7,614,391	8,007,924
Benefits	2,018,085	2,592,827	2,936,685	3,124,697
Contractual Services	38,932,580	30,527,303	35,850,256	40,470,860
Other Services	1,488,842	1,433,396	1,797,641	1,752,270
Materials/Supplies	1,207,082	1,126,352	2,103,866	2,047,455
Interfund Charges	4,143,377	4,460,571	6,913,233	5,921,203
IDCs	2,749,403	2,877,216	2,841,288	2,999,097
Capital Outlay	90,400	-	169,000	136,600
Bank Charges	-	-	-	-
Misc. Other Charges	10,253,459	9,625,048	8,953,051	10,485,374
Profit Transfer	761,762	829,634	819,197	825,161
Debt Service	4,682,194	4,541,200	5,005,065	3,893,174
Capital	5,324,969	4,576,015	26,213,640	19,887,132
Admin. & Gen. Allocation	(3,560,051)	(3,864,649)	(5,943,813)	(5,006,585)
	61,832,140	57,379,419	86,320,449	84,058,988

FTE Summary:				
Regular (full & part time)	93.00	94.00	95.00 *	95.00
Casual, student & temp.	4.60	4.60	5.65	5.65
	97.60	98.60	100.65	100.65

FTE by Division:				
Electric Production Electric	13.00	12.80	12.83	13.83
Distribution Gas/Water/Sewer	13.00	13.20	13.17	13.17
Water Production Wastewater	28.30	27.83	23.45	23.45
Treatment Administrative &	9.50	9.25	10.75	10.75
General	9.50	9.13	9.80	9.80
	24.30	26.40	29.65	29.65
	97.60	98.60	99.65	100.65

* Includes 1 additional
FTE approved midyear in FY21 in
Electric Production

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Electric Distribution

	1.50%	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
Expenditure Forecast											
Supervision, Misc Direct Admin		761,575	772,998	784,593	796,362	808,308	820,432	832,739	845,230	857,908	870,777
Substation Maintenance		67,874	68,892	69,925	70,974	72,039	73,119	74,216	75,329	76,459	77,606
Switching Station Maintenance		102,553	104,091	105,652	107,237	108,846	110,479	112,136	113,818	115,525	117,258
Overhead Maintenance		566,638	575,137	583,764	592,521	601,409	610,430	619,586	628,880	638,313	647,888
Underground Maintenance		490,601	497,960	505,430	513,011	520,706	528,517	536,445	544,492	552,659	560,949
Meter Maintenance		91,283	92,652	94,042	95,453	96,885	98,338	99,813	101,310	102,830	104,372
Operating encumbrances rolled forward											
Interdepartmental Charges		916,694	930,444	944,401	958,567	972,946	987,540	1,002,353	1,017,388	1,032,649	1,048,139
Administrative Division Allocation		848,600	861,329	874,249	887,363	900,673	914,183	927,896	941,814	955,942	970,281
In Lieu Taxes		543,256	403,584	411,010	416,241	419,253	422,296	425,369	428,472	431,607	431,607
Debt Service		1,133,909	982,377	984,776	1,015,816	1,178,311	1,161,970	1,155,371	1,135,784	1,126,313	633,935
Cost of Power		7,284,624	6,634,008	6,068,104	6,164,207	6,128,697	6,325,335	6,562,981	6,612,206	6,582,757	6,678,328
Total Operations Expenses		12,807,607	11,923,474	11,425,948	11,617,752	11,808,072	12,052,638	12,348,904	12,444,724	12,472,963	12,141,140
Capital		750,000	700,000	1,400,000	6,100,000	1,100,000	1,300,000	1,100,000	1,100,000	1,100,000	5,100,000
Capital Paid with Debt/Grants/Reimb		-	-	-	-	-	-	-	-	-	4,000,000
Total Expenses		13,557,607	12,623,474	12,825,948	17,717,752	12,908,072	13,352,638	13,448,904	13,544,724	13,572,963	13,241,140
Profit Transfer		594,979	620,455	636,422	647,668	654,144	660,686	667,293	673,966	680,705	680,705
Total Cash Requirements		14,152,586	13,243,928	13,462,370	18,365,420	13,562,216	14,013,324	14,116,197	14,218,689	14,253,668	13,921,845
Revenue Forecast											
KWh Sales		118,014,816	123,067,844	126,234,963	128,465,592	129,750,248	131,047,751	132,358,228	133,681,810	135,018,629	135,018,629
Revenue per KWh		\$0.1172	\$0.1172	\$0.1172	\$0.1172	\$0.1172	\$0.1172	\$0.1172	\$0.1172	\$0.1172	\$0.1172
Rate Increase Percentage											
Total Sales Revenue		13,836,731	14,429,176	14,800,507	15,062,039	15,212,660	15,364,786	15,518,434	15,673,618	15,830,355	15,830,355
Bond Federal Subsidy		67,942	67,942	66,045	64,099	58,759	47,731	47,731	47,732	47,733	47,734
Interest on Utility Reserves		84,625	17,521	55,741	98,692	26,630	76,478	119,822	165,520	213,677	266,082
Pole Rentals		53,601	53,601	53,601	53,601	53,601	53,601	53,601	53,601	53,601	53,601
Misc. Service Revenues		54,500	54,500	54,500	54,500	54,500	54,500	54,500	54,500	54,500	54,500
Revenue on Recoverable Work		150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
Total Cash Inflow		14,247,399	14,772,740	15,180,395	15,482,931	15,556,149	15,747,096	15,944,088	16,144,971	16,349,865	16,402,271
R&R and Cash Flows											
Net Cash Flow		94,812	1,528,812	1,718,025	(2,882,488)	1,993,933	1,733,772	1,827,892	1,926,281	2,096,197	2,480,426
Cumulative Net Cash Flow		94,812	1,623,625	3,341,650	459,162	2,453,094	4,186,866	6,014,758	7,941,039	10,037,236	12,517,662
Cash Balance		700,837	2,229,650	3,947,674	1,065,186	3,059,119	4,792,891	6,620,783	8,547,064	10,643,261	13,123,687
Recommended Cash Balance		12,599,785	14,337,495	12,858,614	13,121,837	13,177,292	14,773,447	17,092,695	16,241,749	19,316,723	16,321,997

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Electric Production

	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
Total Cash Requirements	41,425,940	47,619,375	40,167,576	40,579,511	40,653,348	46,865,840	56,810,402	53,119,239	53,282,111	53,429,819
Net Change in Retirement Reserve Balances	(90,737)	70,977	140,848	(292,636)	(321,053)	(342,790)	(310,397)	28,167	165,803	12,849
	1.50%									
	1.01%									
Revenue Forecast										
Mwh Sales - LANL	528,331	646,172	573,688	580,246	587,495	712,569	904,888	816,503	843,605	828,415
Mwh Sales - LAC Distribution	118,015	123,068	126,235	128,466	129,750	131,048	132,358	133,682	135,019	135,019
Total Mwh Sales	646,346	769,240	699,923	708,711	717,246	843,616	1,037,247	950,185	978,624	963,433
Revenue per Mwh	\$52.88	\$48.91	\$41.54	\$42.67	\$43.43	\$45.11	\$45.31	\$45.44	\$46.28	\$47.01
DOE Revenues	26,893,902	33,956,225	26,924,278	27,171,862	27,078,630	33,022,304	42,521,988	38,679,521	38,708,969	38,874,172
Economy Sales	7,083,430	6,865,158	7,014,327	7,085,774	7,291,941	7,368,641	7,575,872	7,677,952	7,840,824	7,988,531
Interest on Reserves	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,001
Bond Federal Subsidy	33,984	33,984	30,867	27,669	24,080	19,561	19,561	19,561	19,561	19,561
Transfer from Distribution Fund	7,284,624	6,634,008	6,068,104	6,164,207	6,128,697	6,325,335	6,562,981	6,612,206	6,582,757	6,417,554
Total Cash Inflow	41,425,940	47,619,375	40,167,576	40,579,511	40,653,348	46,865,840	56,810,402	53,119,239	53,282,111	53,429,819
Net Cash Flow	90,737	(70,977)	(140,848)	292,636	321,053	342,790	310,397	(28,167)	(165,803)	(12,849)
Cumulative Net Cash Flow	90,737	19,760	(121,088)	171,548	492,601	835,390	1,145,787	1,117,621	951,818	938,969
Cash Balance	10,353,349	10,282,371	10,141,524	10,434,159	10,755,212	11,098,002	11,408,399	11,380,233	11,214,429	11,201,580
Recommended Cash Balance	18,838,311	18,826,643	18,665,252	18,543,734	18,331,704	18,105,016	18,382,227	18,485,731	18,834,492	19,316,724
Reserves										
Retirement/Reclamation Reserve	10,162,581	9,919,257	9,655,864	9,401,546	9,118,462	8,814,322	8,541,507	8,606,708	8,962,375	9,336,671
Identified items on site	318,409	323,185	328,033	332,953	337,948	343,017	348,162	353,385	358,685	364,066
San Juan Decommissioning	5,463,420	5,651,820	5,840,220	6,028,620	6,217,020	6,405,420	6,593,820	6,782,220	7,121,331	7,477,398
Laramie River Decommissioning	877,980	916,980	955,980	994,980	1,033,980	1,072,980	1,111,980	1,150,980	1,189,980	1,228,980
San Juan Mine Reclamation	3,502,772	3,027,272	2,531,631	2,044,992	1,529,514	992,905	487,545	320,124	292,379	266,228

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022 through FY2031
Electric Fund Cash Reserve Analysis

	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
ELECTRIC DIST & PROD CASH RESERVES										
Combined Cash Balance ED & EP	11,054,186	12,512,021	14,089,198	11,499,346	13,814,331	15,890,893	18,029,182	19,927,296	21,857,691	24,325,267
Recommended Cash Balance (ED)	12,599,785	14,337,495	12,858,614	13,121,837	13,177,292	14,773,447	17,092,695	16,241,749	19,316,723	16,321,997
Recommended Cash Balance (EP)	18,838,311	18,826,643	18,665,252	18,543,734	18,331,704	18,105,016	18,382,227	18,485,731	18,834,492	19,316,724
Recommended Cash Balance	31,438,095	33,164,138	31,523,866	31,665,571	31,508,996	32,878,463	35,474,921	34,727,480	38,151,215	35,638,721
TARGET RESERVE BALANCES										
Debt Service Reserve	3,032,898	2,991,862	2,994,162	3,006,817	3,005,455	3,004,905	3,003,273	3,002,483	2,961,452	2,908,624
Retirement/Reclamation Reserve	10,162,581	9,919,257	9,655,864	9,401,546	9,118,462	8,814,322	8,541,507	8,606,708	8,962,375	9,336,671
Identified items on site	318,409	323,185	328,033	332,953	337,948	343,017	348,162	353,385	358,685	364,066
San Juan Decommissioning	5,463,420	5,651,820	5,840,220	6,028,620	6,217,020	6,405,420	6,593,820	6,782,220	7,121,331	7,477,398
Laramie River Decommissioning	877,980	916,980	955,980	994,980	1,033,980	1,072,980	1,111,980	1,150,980	1,189,980	1,228,980
San Juan Mine Reclamation	3,502,772	3,027,272	2,531,631	2,044,992	1,529,514	992,905	487,545	320,124	292,379	266,228
Operations Reserve	7,919,977	8,144,413	8,276,552	8,442,570	8,545,291	8,650,073	9,232,708	9,304,102	9,330,775	9,471,203
Capital Expenditures Reserve	2,824,700	2,850,101	2,889,115	3,045,428	3,073,615	3,111,732	3,139,920	3,168,107	3,196,295	3,326,982
Contingency Reserve	530,682	538,642	546,722	554,922	563,246	571,695	580,270	588,974	597,809	606,776
Rate Stabilization Reserve	6,967,258	8,719,862	7,161,451	7,214,289	7,202,927	8,725,736	10,977,243	10,057,105	13,102,509	9,988,464
	31,438,095	33,164,138	31,523,866	31,665,571	31,508,996	32,878,463	35,474,921	34,727,480	38,151,215	35,638,721
RESERVE BALANCE FORECAST										
Debt Service Reserve	3,032,898	2,991,862	2,994,162	3,006,817	3,005,455	3,004,905	3,003,273	3,002,483	2,961,452	2,908,624
Retirement/Reclamation Reserve	8,021,288	9,520,159	9,655,864	8,492,529	9,118,462	8,814,322	8,541,507	8,606,708	8,962,375	9,336,671
Operations Reserve	-	-	1,439,172	-	1,690,415	4,071,666	6,484,402	8,318,105	9,330,775	9,471,203
Capital Expenditures Reserve	-	-	-	-	-	-	-	-	603,088	2,608,769
Contingency Reserve	-	-	-	-	-	-	-	-	-	-
Rate Stabilization Reserve	-	-	-	-	-	-	-	-	-	-
Total Cash Remaining	-	-	-	-	-	-	-	-	-	-

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Gas Distribution

1.50%	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
Expenditure Forecast										
Supervision, Misc Direct Admin	395,998	401,938	407,967	414,086	420,297	426,602	433,001	439,496	446,088	452,780
Customer Service	30,739	31,201	31,669	32,144	32,626	33,115	33,612	34,116	34,628	35,147
Gas Distribution	630,888	640,351	649,956	659,706	669,601	679,645	689,840	700,188	710,690	721,351
Gas Meters	121,955	123,784	125,641	127,525	129,438	131,380	133,350	135,351	137,381	139,442
Capital Support & Inspection	-	-	-	-	-	-	-	-	-	-
Interdepartmental Charges	359,642	365,037	370,512	376,070	381,711	387,437	393,248	399,147	405,134	411,211
Administrative Division Allocation	951,922	966,201	980,694	995,404	1,010,335	1,025,490	1,040,873	1,056,486	1,072,333	1,088,418
In Lieu Taxes	194,669	194,669	194,669	194,669	194,669	194,669	194,669	194,669	194,669	194,669
Cost of Gas	2,264,400	2,027,250	1,996,650	1,996,650	1,973,700	1,958,400	1,981,350	2,034,900	2,103,750	2,149,650
TOTAL Operations Expenses	4,950,212	4,750,429	4,757,757	4,796,254	4,812,378	4,836,738	4,899,943	4,994,352	5,104,673	5,192,667
Capital	885,000	250,000	-	307,000	317,000	326,000	336,000	345,000	355,000	365,000
Total Expenses	5,835,212	5,000,429	4,757,757	5,103,254	5,129,378	5,162,738	5,235,943	5,339,352	5,459,673	5,557,667
Profit Transfer	230,182	219,107	217,678	217,678	216,606	215,892	216,963	219,464	222,679	224,823
TOTAL Cash Requirements	6,065,394	5,219,536	4,975,435	5,320,932	5,345,984	5,378,629	5,452,906	5,558,816	5,682,353	5,782,490
<i>Total Cash Requirements less COG</i>	<i>3,800,994</i>	<i>3,192,286</i>	<i>2,978,785</i>	<i>3,324,282</i>	<i>3,372,284</i>	<i>3,420,229</i>	<i>3,471,556</i>	<i>3,523,916</i>	<i>3,578,603</i>	<i>3,632,840</i>
Revenue Forecast										
Therm Sales	7,650,000	7,650,000	7,650,000	7,650,000	7,650,000	7,650,000	7,650,000	7,650,000	7,650,000	7,650,000
Revenue per Therm	\$ 0.230	\$ 0.230	\$ 0.230	\$ 0.230	\$ 0.230	\$ 0.230	\$ 0.230	\$ 0.230	\$ 0.230	\$ 0.230
Rate Increase Percentage										
Cost of Gas Sales Revenue	2,264,400	2,027,250	1,996,650	1,996,650	1,973,700	1,958,400	1,981,350	2,034,900	2,103,750	2,149,650
Sales Rev from Fixed/Svc Chg	2,664,546	2,664,546	2,664,546	2,664,546	2,664,546	2,664,546	2,664,546	2,664,546	2,664,546	2,664,546
Total Sales Revenue	4,928,946	4,691,796	4,661,196	4,661,196	4,638,246	4,622,946	4,645,896	4,699,446	4,768,296	4,814,196
Interest on Utility Reserves	55,789	40,881	33,892	30,005	20,882	10,907	69	-	-	-
Revenue on Recoverable Work	20,605	20,914	21,227	21,546	21,869	22,197	22,530	22,868	23,211	23,559
TOTAL Cash Inflow	5,005,340	4,753,590	4,716,315	4,712,747	4,680,997	4,656,050	4,668,495	4,722,314	4,791,507	4,837,755
R&R and Cash Flows										
Net Cash Flow	(1,060,054)	(465,946)	(259,120)	(608,185)	(664,987)	(722,579)	(784,412)	(836,502)	(890,846)	(944,735)
Cummulative net cash flow	(1,060,054)	(1,526,000)	(1,785,120)	(2,393,305)	(3,058,292)	(3,780,871)	(4,565,283)	(5,401,785)	(6,292,631)	(7,237,366)
Cash Balance	2,725,395	2,259,450	2,000,330	1,392,145	727,158	4,579	(779,833)	(1,616,335)	(2,507,181)	(3,451,916)
Recommended Cash Balance	1,858,247	1,630,911	1,960,914	1,994,263	2,026,962	2,061,016	2,094,432	2,129,213	2,164,366	2,164,897

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022 through FY2031
Gas Cash Reserve Analysis

	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
GAS UTILITY CASH RESERVES										
Cash Balance	2,725,395	2,259,450	2,000,330	1,392,145	727,158	4,579	(779,833)	(1,616,335)	(2,507,181)	(3,451,916)
Recommended Cash Balance	1,858,247	1,630,911	1,960,914	1,994,263	2,026,962	2,061,016	2,094,432	2,129,213	2,164,366	2,164,897
TARGET RESERVE BALANCES										
Operations Reserve	1,342,906	1,361,590	1,380,554	1,399,802	1,419,339	1,439,169	1,459,296	1,479,726	1,500,462	1,521,509
Capital Expenditures Reserve	250,000	-	307,000	317,000	326,000	336,000	345,000	355,000	365,000	340,000
Contingency Reserve	265,341	269,321	273,361	277,461	281,623	285,847	290,135	294,487	298,905	303,388
Rate Stabilization Reserve*	-	-	-	-	-	-	-	-	-	-
	1,858,247	1,630,911	1,960,914	1,994,263	2,026,962	2,061,016	2,094,432	2,129,213	2,164,366	2,164,897
RESERVE BALANCE FORECAST										
Operations Reserve	1,342,906	1,361,590	1,380,554	1,392,145	727,158	4,579	-	-	-	-
Capital Expenditures Reserve	250,000	-	307,000	-	-	-	-	-	-	-
Contingency Reserve	265,341	269,321	273,361	-	-	-	-	-	-	-
Rate Stabilization Reserve*	-	-	-	-	-	-	-	-	-	-
Total Cash Remaining	867,148	628,539	39,415	-	-	-	(779,833)	(1,616,335)	(2,507,181)	(3,451,916)

* Assumes pass-through cost of gas rate remains in place.

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Water Production

	1.50%	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
Expenditure Forecast											
Supervision and Operations		822,679	835,019	847,545	860,258	873,162	886,259	899,553	913,046	926,742	940,643
Pumping Power		550,000	558,250	566,624	575,123	583,750	592,506	601,394	610,415	619,571	628,864
Wells		217,339	220,599	223,908	227,267	230,676	234,136	237,648	241,213	244,831	248,504
Booster Pump Stations		180,646	183,355	186,106	188,897	191,731	194,607	197,526	200,489	203,496	206,549
Treatment		32,618	33,107	33,604	34,108	34,619	35,139	35,666	36,201	36,744	37,295
Storage Tanks		39,018	39,603	40,197	40,800	41,412	42,033	42,664	43,304	43,953	44,613
Transmission Lines		310,868	315,531	320,264	325,068	329,944	334,893	339,917	345,015	350,190	355,443
Capital Project Inspection & Support		-	-	-	-	-	-	-	-	-	-
Non Potable System		525,161	533,038	541,034	549,149	557,386	565,747	574,233	582,847	591,590	600,463
Ski Hill		5,035	5,110	5,187	5,265	5,344	5,424	5,505	5,588	5,672	5,757
Interdepartmental Charges		295,121	299,548	304,041	308,602	313,231	317,929	322,698	327,539	332,452	337,438
Administrative Division Allocation		895,646	909,081	922,717	936,558	950,606	964,865	979,338	994,028	1,008,939	1,024,073
State Water Tax		40,000	40,600	41,209	41,827	42,455	43,091	43,738	44,394	45,060	45,736
Debt Service		320,641	610,460	617,080	501,227	354,359	369,713	397,590	399,820	407,261	316,553
Capital		14,780,000	5,490,000	2,220,000	5,309,000	1,804,000	1,563,000	5,645,000	1,806,000	4,420,000	7,360,000
Capital Paid with Debt/Grants/Reimb		12,725,000	5,325,000	600,000	4,259,000	670,000	650,000	5,100,000	350,000	4,350,000	6,210,000
Capital Paid with Cash		2,055,000	165,000	1,620,000	1,050,000	1,134,000	913,000	545,000	1,456,000	70,000	1,150,000
Total Operations Expenses		4,234,772	4,583,302	4,649,515	4,594,149	4,508,675	4,586,343	4,677,469	4,743,897	4,816,500	4,791,930
Total Capital Expenditures		14,780,000	5,490,000	2,220,000	5,309,000	1,804,000	1,563,000	5,645,000	1,806,000	4,420,000	7,360,000
Less Capital Paid by WTB/Other		(12,725,000)	(5,325,000)	(600,000)	(4,259,000)	(670,000)	(650,000)	(5,100,000)	(350,000)	(4,350,000)	(6,210,000)
Total Cash Requirements		6,289,772	4,748,302	6,269,515	5,644,149	5,642,675	5,499,343	5,222,469	6,199,897	4,886,500	5,941,930
Revenue Forecast											
Non-potable											
Non-potable production in kgals		94,500	108,600	136,500	136,500	136,500	136,500	136,500	136,501	136,502	136,503
Revenue per kgal	\$	2.06	\$ 2.12	\$ 2.16	\$ 2.20	\$ 2.24	\$ 2.27	\$ 2.31	\$ 2.34	\$ 2.37	\$ 2.41
Non-potable rate per 1000 gallons	\$	3.03	\$ 3.12	\$ 3.18	\$ 3.24	\$ 3.29	\$ 3.34	\$ 3.39	\$ 3.44	\$ 3.49	\$ 3.54
Rate Increase Percentage		4.00%	3.00%	2.00%	1.75%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Non-potable sales revenue	\$	194,708	\$ 230,406	\$ 295,168	\$ 300,737	\$ 305,378	\$ 310,019	\$ 314,660	\$ 319,303	\$ 323,947	\$ 328,590

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Water Production

	1.50%	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
Potable											
Production in thousand gallons		1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000
Revenue per thousand gallons		\$ 4.13	\$ 4.25	\$ 4.34	\$ 4.42	\$ 4.49	\$ 4.56	\$ 4.63	\$ 4.70	\$ 4.77	\$ 4.84
Rate Increase Percentage		4.00%	3.00%	2.00%	1.75%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Potable sales revenue		\$ 4,749,500	\$ 4,887,500	\$ 4,991,000	\$ 5,083,000	\$ 5,163,500	\$ 5,244,000	\$ 5,324,500	\$ 5,405,000	\$ 5,485,500	\$ 5,566,000
Total Sales Revenue		\$ 4,944,208	\$ 5,117,906	\$ 5,286,168	\$ 5,383,737	\$ 5,468,878	\$ 5,554,019	\$ 5,639,160	\$ 5,724,303	\$ 5,809,447	\$ 5,894,590
Repayment & Interest on Inter-Utility Loans		187,569	187,569	187,569	93,784	-	-	-	-	-	-
Interest on Utility Reserves		128,935	88,984	99,090	88,960	88,019	86,889	89,140	96,825	91,209	106,454
Bond Federal Subsidy		27,576	27,576	21,338	14,940	10,459	8,496	6,472	4,371	2,224	2,225
Econ Dev Fund/Ski Hill Reimb											
Federal or State Grant/Loan											
Total Cash Inflow		5,288,288	5,422,035	5,594,164	5,581,420	5,567,355	5,649,404	5,734,771	5,825,498	5,902,879	6,003,269
R&R and Cash Flows											
Net Cash Flow		(1,001,483)	673,733	(675,351)	(62,728)	(75,319)	150,061	512,302	(374,399)	1,016,379	61,339
Cumulative Net Cash Flow		(1,001,483)	(327,750)	(1,003,101)	(1,065,830)	(1,141,149)	(991,088)	(478,786)	(853,184)	163,194	224,533
Cash Balance		5,932,277	6,606,011	5,930,660	5,867,931	5,792,612	5,942,673	6,454,975	6,080,576	7,096,955	7,158,294
Recommended Cash Balance		8,411,988	5,624,844	8,762,380	5,184,072	4,839,386	8,980,570	5,213,935	7,875,320	10,868,594	5,964,406

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Water Distribution

	1.50%	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
Expenditure Forecast											
Supervision, Misc Direct Admin		339,486	344,578	349,747	354,993	360,318	365,723	371,209	376,777	382,429	388,165
Hydrants		-	-	-	-	-	-	-	-	-	-
Water Distribution		508,985	516,619	524,369	532,234	540,218	548,321	556,546	564,894	573,367	581,968
Water Meters		457,266	464,125	471,086	478,153	485,325	492,605	499,994	507,494	515,106	522,833
Capital Project Inspections & Support		-	-	-	-	-	-	-	-	-	-
Interdepartmental Charges		281,102	285,319	289,598	293,942	298,351	302,827	307,369	311,980	316,659	321,409
Administrative Division Allocation		890,974	904,339	917,904	931,672	945,647	959,832	974,230	988,843	1,003,676	1,018,731
Cost of Water		3,200,750	3,293,750	3,363,500	3,425,500	3,479,750	3,534,000	3,588,250	3,642,500	3,696,750	3,751,000
Capital		1,230,000	450,000	-	553,000	515,000	535,000	550,000	537,000	553,000	570,000
Capital Paid with Other Financing		-	-	-	-	-	-	-	-	-	-
Capital Paid with Cash		1,230,000	450,000	-	553,000	515,000	535,000	550,000	537,000	553,000	570,000
Total Operation Expenses		5,678,562	5,808,729	5,916,204	6,016,495	6,109,610	6,203,307	6,297,597	6,392,487	6,487,987	6,584,106
Total Capital Expenditures		1,230,000	450,000	0	553,000	515,000	535,000	550,000	537,000	553,000	570,000
Total Expenditures		6,908,562	6,258,729	5,916,204	6,569,495	6,624,610	6,738,307	6,847,597	6,929,487	7,040,987	7,154,106
Revenue Forecast											
kgal Sales		775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000	775,000
Revenue per kgal	\$	7.58	\$ 7.81	\$ 7.96	\$ 8.10	\$ 8.22	\$ 8.35	\$ 8.47	\$ 8.60	\$ 8.73	\$ 8.86
Rate Increase Percentage		4.00%	3.00%	2.00%	1.75%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
Total Sales Revenue		5,874,855	6,051,100	6,172,122	6,280,135	6,374,337	6,469,952	6,567,001	6,665,506	6,765,488	6,866,971
Interest on Utility Reserves		-	-	-	-	-	-	-	-	-	-
Revenue on Recoverable Work		15,453	15,685	15,920	16,159	16,402	16,648	16,897	17,151	17,408	17,669
Misc Service Revenues		15,453	15,685	15,920	16,159	16,402	16,648	16,897	17,151	17,408	17,669
Total Cash Inflow from Operations		5,905,761	6,082,471	6,203,963	6,312,453	6,407,140	6,503,247	6,600,796	6,699,808	6,800,305	6,902,309
R&R and Cash Flows											
Net Cash Flow		(1,002,801)	(176,259)	287,759	(257,042)	(217,470)	(235,061)	(246,801)	(229,680)	(240,682)	(251,796)
Cumulative Net Cash Flow		(1,002,801)	(1,179,059)	(891,300)	(1,148,342)	(1,365,811)	(1,600,872)	(1,847,673)	(2,077,353)	(2,318,035)	(2,569,832)
Cash Balance		(4,101,423)	(4,277,681)	(3,989,922)	(4,246,964)	(4,464,433)	(4,699,494)	(4,946,295)	(5,175,975)	(5,416,657)	(5,668,454)
Recommended Cash Balance		1,688,906	1,257,490	1,829,352	1,810,497	1,849,930	1,884,654	1,891,674	1,927,994	1,965,619	2,091,553

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Water Distribution

Rates										
Commodity rate per kgal										
Residential Tier 1 - < 9,000 gals	6.02	6.20	6.32	6.43	6.53	6.63	6.73	6.83	6.93	7.03
Residential Tier 2 - 9 to 15,000 gals	6.40	6.59	6.72	6.84	6.94	7.04	7.15	7.26	7.37	7.48
Residential Tier 3 - > 15,000 gals	7.65	7.88	8.04	8.18	8.30	8.42	8.55	8.68	8.81	8.94
Multi-Family Tier 1 - < 9,000 gals	6.02	6.20	6.32	6.43	6.53	6.63	6.73	6.83	6.93	7.03
Multi-Family Tier 2 - 9 to 15,000 gals	6.33	6.52	6.65	6.77	6.87	6.97	7.07	7.18	7.29	7.40
Multi-Family Tier 3 - > 15,000 gals	6.47	6.66	6.79	6.91	7.01	7.12	7.23	7.34	7.45	7.56
Commercial All Tiers	6.02	6.20	6.32	6.43	6.53	6.63	6.73	6.83	6.93	7.03
County & Schools All Tiers	6.02	6.20	6.32	6.43	6.53	6.63	6.73	6.83	6.93	7.03
Customer Charge per Meter Size										
= or < 1.25"	11.40	11.74	11.97	12.18	12.36	12.55	12.74	12.93	13.12	13.32
1.5"	36.10	37.18	37.92	38.58	39.16	39.75	40.35	40.96	41.57	42.19
2"	53.88	55.50	56.61	57.60	58.46	59.34	60.23	61.13	62.05	62.98
2.5" to 3"	106.33	109.52	111.71	113.66	115.36	117.09	118.85	120.63	122.44	124.28
4"	181.06	186.49	190.22	193.55	196.45	199.40	202.39	205.43	208.51	211.64
6"	382.23	393.70	401.57	408.60	414.73	420.95	427.26	433.67	440.18	446.78
8"	631.54	650.49	663.50	675.11	685.24	695.52	705.95	716.54	727.29	738.20

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022 through FY2031
Water Fund Cash Reserve Analysis

	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
WATER DIST & PROD CASH RESERVES										
Combined Cash Balance DW & WP	1,830,855	2,328,329	1,940,738	1,620,968	1,328,179	1,243,179	1,508,680	904,602	1,680,298	1,489,841
Recommended Cash Balance (DW)	1,688,906	1,257,490	1,829,352	1,810,497	1,849,930	1,884,654	1,891,674	1,927,994	1,965,619	2,091,553
Recommended Cash Balance (WP)	8,411,988	5,624,844	8,762,380	5,184,072	4,839,386	8,980,570	5,213,935	7,875,320	10,868,594	5,964,406
Recommended Cash Balance	10,100,894	6,882,333	10,591,732	6,994,569	6,689,316	10,865,224	7,105,608	9,803,314	12,834,213	8,055,958
TARGET RESERVE BALANCES										
Debt Service Reserve	168,900	610,460	617,080	501,227	354,359	369,713	397,590	399,820	407,261	316,553
Operations Reserve	3,195,971	3,243,911	3,292,570	3,341,958	3,392,087	3,442,969	3,494,613	3,547,032	3,600,238	3,654,242
Capital Expenditures Reserve	5,940,000	2,220,000	5,862,000	2,319,000	2,098,000	6,195,000	2,343,000	4,973,000	7,930,000	3,175,000
Contingency Reserve	796,023	807,963	820,082	832,384	844,869	857,542	870,406	883,462	896,714	910,164
	10,100,894	6,882,333	10,591,732	6,994,569	6,689,316	10,865,224	7,105,608	9,803,314	12,834,213	8,055,958
RESERVE BALANCE FORECAST										
Debt Service Reserve	168,900	610,460	617,080	501,227	354,359	369,713	397,590	399,820	407,261	316,553
Operations Reserve	1,661,955	1,717,870	1,323,657	1,119,740	973,819	873,466	1,111,091	504,782	1,273,037	1,173,288
Capital Expenditures Reserve	-	-	-	-	-	-	-	-	-	-
Contingency Reserve	-	-	-	-	-	-	-	-	-	-
Total Cash Remaining	-	-	-	-	-	-	-	-	-	-

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Wastewater Division

1.50%	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
EXPENSE FORECAST										
WASTEWATER COLLECTION										
Supervision, Misc Direct Admin	386,304	392,099	397,980	403,950	410,009	416,159	422,402	428,738	435,169	441,696
Wastewater Collection Operations	293,310	297,710	302,176	306,708	311,309	315,979	320,718	325,529	330,412	335,368
Sewer Lift Stations	384,622	166,564	169,062	171,598	174,172	176,785	179,437	182,128	184,860	187,633
Capital Project Inspection & Support	-	-	-	-	-	-	-	-	-	-
Total WWC Operations Expenses	1,064,236	856,373	869,218	882,257	895,490	908,923	922,557	936,395	950,441	964,698
WASTEWATER TREATMENT										
LA WWTP Operations & Maintenance	1,360,132	1,380,534	1,401,242	1,422,261	1,443,594	1,465,248	1,487,227	1,509,536	1,532,179	1,555,161
WR WWTP Operations & Maintenance	302,621	307,160	311,768	316,444	321,191	326,009	330,899	335,862	340,900	346,014
Total WWT Operations Expenses	1,662,753	1,687,694	1,713,010	1,738,705	1,764,785	1,791,257	1,818,126	1,845,398	1,873,079	1,901,175
Interdepartmental Charges	518,376	526,152	534,044	542,055	550,185	558,438	566,815	575,317	583,947	592,706
Administrative Division Allocation	787,148	798,955	810,940	823,104	835,450	847,982	860,702	873,612	886,716	900,017
Operations encumbrances rolled forward										
Debt Service (WWT)	1,497,594	1,497,594	1,497,595	1,403,810	1,310,025	1,310,025	1,306,684	1,306,684	1,306,684	1,306,684
Capital	1,447,000	1,159,000	1,200,000	230,000	701,000	828,000	185,000	1,667,000	1,059,000	7,269,000
Total Operations Expenses	5,530,107	5,366,768	5,424,806	5,389,930	5,355,937	5,416,625	5,474,883	5,537,406	5,600,867	5,665,279
Total Capital Expenditures	1,447,000	1,159,000	1,200,000	230,000	701,000	828,000	185,000	1,667,000	1,059,000	7,269,000
Total Cash Requirements	6,977,107	6,525,768	6,624,806	5,619,930	6,056,937	6,244,625	5,659,883	7,204,406	6,659,867	12,934,279
REVENUE FORECAST										
<i>kgal Processed</i>	430,000	430,000	430,000	430,000	430,000	430,000	430,000	430,000	430,000	430,000
Res'l Single-Family Flat Rate Customers	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000
Res'l Single Family Flat Rate	44.72	44.72	44.72	44.72	44.72	44.72	44.72	44.72	44.72	44.72
Res'l Single-Family Service Charge	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35
Rate Increase Percentage	2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Revenue from Res'l SF Flat Rate	4,745,941	4,745,941	4,745,941	4,745,941	4,745,941	4,745,941	4,745,941	4,745,941	4,745,941	4,745,941

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022-FY2031
Wastewater Division

	1.50%	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
Res'l Multi-Family Flat Rate Customers		75	75	75	75	75	75	75	75	75	75
Res'l Multi-Family Service Charge		12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35
No. of Res'l Multi-Family Dwelling Units		1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585	1,585
Res'l Multi-Family Flat Rate		37.25	37.25	37.25	37.25	37.25	37.25	37.25	37.25	37.25	37.25
Rate Increase Percentage		2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Revenue from Res'l MF Flat Rate		676,433	676,433	676,433	676,433	676,433	676,433	676,433	676,433	676,433	676,433
Non-Residential Customers		291	291	291	291	291	291	291	292	293	294
Non-Residential Service Charge		12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35	12.35
Non-Residential Sales in Kgal	-0.20%	45,390	45,299	45,209	45,118	45,028	44,938	44,848	44,758	44,669	44,579
Adjustment Factor		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	200.00%	300.00%
Adjusted Non-Residential Sales in Kgal		45,390	45,299	45,209	45,118	45,028	44,938	44,848	89,516	134,006	178,318
Non-Res'l Commodity Charge per Kgal		21.04	21.04	21.04	21.04	21.04	21.04	21.04	21.04	21.04	21.04
Rate Increase Percentage		2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Revenue from Non-Residential		968,186	966,333	964,484	962,639	960,797	958,959	957,125	1,868,900	2,777,025	3,681,510
Total Sales Revenue		6,390,560	6,388,708	6,386,859	6,385,013	6,383,172	6,381,334	6,379,499	7,291,275	8,199,399	9,103,885
Interest on Utility Reserves		171,746	174,312	175,243	236,175	261,207	275,893	286,208	311,354	321,309	367,830
Inter-Utility Loan											
Loan Proceeds		550,000	-	2,500,000	-	-	-	-	-	-	6,300,000
Revenue on Recoverable Work		-	-	-	-	-	-	-	-	-	-
Total Cash Inflow		7,112,306	6,563,019	9,062,102	6,621,189	6,644,379	6,657,227	6,665,707	7,602,628	8,520,709	15,771,715
Net Cash Flow		135,199	37,251	2,437,295	1,001,259	587,442	412,601	1,005,825	398,222	1,860,842	2,837,436
Cumulative Net Cash Flow		135,199	172,450	2,609,746	3,611,005	4,198,446	4,611,048	5,616,872	6,015,094	7,875,936	10,713,372
Cash Balance		6,972,469	7,009,720	9,447,015	10,448,274	11,035,716	11,448,317	12,454,142	12,852,364	14,713,206	17,550,642
Recommended Cash Balance		4,264,489	5,009,230	4,073,906	4,486,316	4,555,253	3,948,512	5,463,973	4,893,327	11,141,242	4,910,725

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2022 through FY2031
Wastewater Fund Cash Reserve Analysis

	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
WASTEWATER UTILITY CASH RESERVES										
Cash Balance *	6,972,469	7,009,720	9,447,015	10,448,274	11,035,716	11,448,317	12,454,142	12,852,364	14,713,206	17,550,642
Recommended Cash Balance	4,264,489	5,009,230	4,073,906	4,486,316	4,555,253	3,948,512	5,463,973	4,893,327	11,141,242	4,910,725
TARGET RESERVE BALANCES										
Debt Service Reserve	717,755	1,497,594	1,497,595	1,403,810	1,310,025	1,310,025	1,306,684	1,306,684	1,306,684	1,306,684
Operations Reserve	2,016,257	1,934,587	1,963,606	1,993,060	2,022,956	2,053,300	2,084,100	2,115,361	2,147,091	2,179,298
Capital Expenditures Reserve	1,159,000	1,200,000	230,000	701,000	828,000	185,000	1,667,000	1,059,000	7,269,000	1,000,000
Contingency Reserve	371,477	377,049	382,705	388,446	394,272	400,186	406,189	412,282	418,466	424,743
	4,264,489	5,009,230	4,073,906	4,486,316	4,555,253	3,948,512	5,463,973	4,893,327	11,141,242	4,910,725
RESERVE BALANCE FORECAST										
Debt Service Reserve	717,755	1,497,594	1,497,595	1,403,810	1,310,025	1,310,025	1,306,684	1,306,684	1,306,684	1,306,684
Operations Reserve	2,016,257	1,934,587	1,963,606	1,993,060	2,022,956	2,053,300	2,084,100	2,115,361	2,147,091	2,179,298
Capital Expenditures Reserve	1,159,000	1,200,000	230,000	701,000	828,000	185,000	1,667,000	1,059,000	7,269,000	1,000,000
Contingency Reserve	371,477	377,049	382,705	388,446	394,272	400,186	406,189	412,282	418,466	424,743
Total Cash Remaining	2,707,980	2,000,490	5,373,110	5,961,959	6,480,463	7,499,806	6,990,169	7,959,037	3,571,965	12,639,917

Projected Typical Bill for Residential

	ELECTRIC 500 kwh	GAS 75 therms (assumes \$0.30 variable)	WATER 6,000 gal	SEWER	Total (excludes refuse)	Total % annual Increase	Total cumulative % Increase
FY2021	\$69.60	\$49.25	\$45.71	\$55.95	\$220.51	1.61%	7%
FY2022	\$69.60	\$49.25	\$47.54	\$57.07	\$223.46	1.34%	9%
FY2023	\$69.60	\$49.25	\$48.96	\$57.07	\$224.88	0.64%	9%
FY2024	\$69.60	\$49.25	\$49.94	\$57.07	\$225.86	0.44%	10%
FY2025	\$69.60	\$49.25	\$50.82	\$57.07	\$226.73	0.39%	10%
FY2026	\$69.60	\$49.25	\$51.58	\$57.07	\$227.50	0.34%	11%
FY2027	\$69.60	\$49.25	\$52.35	\$57.07	\$228.27	0.34%	11%
FY2028	\$69.60	\$49.25	\$53.14	\$57.07	\$229.06	0.34%	11%
FY2029	\$69.60	\$49.25	\$53.93	\$57.07	\$229.85	0.35%	12%
FY2030	\$69.60	\$49.25	\$54.74	\$57.07	\$230.66	0.35%	12%
FY2031	\$69.60	\$49.25	\$55.56	\$57.07	\$231.48	0.36%	13%

Utility Expense as a Percentage of Income

	Total Bill for Average Household	Los Alamos Median Household Income	Assumed Annual Income Increase	Percentage Needed to Pay Utility Bill
FY2021	\$220.51	\$111,355	2.5%	2.38%
FY2022	\$223.46	\$114,139	2.5%	2.35%
FY2023	\$224.88	\$116,992	2.5%	2.31%
FY2024	\$225.86	\$119,917	2.5%	2.26%
FY2025	\$226.73	\$122,915	2.5%	2.21%
FY2026	\$227.50	\$125,988	2.5%	2.17%
FY2027	\$228.27	\$129,137	2.5%	2.12%
FY2028	\$229.06	\$132,366	2.5%	2.08%
FY2029	\$229.85	\$135,675	2.5%	2.03%
FY2030	\$230.66	\$139,067	2.5%	1.99%

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY22 (1 July 2021 - 30 June 2022)		Budget
ELECTRIC PRODUCTION		1,165,000
El Vado Controls Upgrade		440,000
Fiber Optic Line Spills Substation to Hydroelectric Plant		375,000
Abiquiu and El Vado RTU/Switches/Fiber Conversion		250,000
Abiquiu Transformer Replacement		100,000
ELECTRIC DISTRIBUTION		750,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		200,000
White Rock URD Replacement (Replace Underground Cable Piedra loop & Replace switches WR1-3, WR1-4, WR1-5, WR1-6)		200,000
Overhead System Replacement (polex, xarms, transformers)		300,000
Change out Poles 3091,3093,3095,3098,3087,3095,18202		
18171,47827,47828,12261,22102,13819,13822,12643		
18003,13234,67581,68040,62320,67576,12265,12308,15584		
GWS/ED Facilities at WR WWTP		50,000
GAS DISTRIBUTION		835,000
Alamo & Capulin (PW Road Project)		535,000
SCADA Various Pressure Monitoring Stations		300,000
GWS/ED Facilities at WR WWTP		50,000
WATER DISTRIBUTION		1,230,000
Alamo & Capulin (PW Road Project)		732,000
GWS/ED Facilities at WR WWTP		50,000
33rd Street & 34th Street Utility Replacement		448,000
WATER PRODUCTION		14,780,000
2nd Group 12 Tank (NP - WTB)		900,000
Repaint Barranca Mesa Tank 2 (DWSRL)		675,000
MCC Upgrades / Replacement & Design (DWSRL \$2,000,000)		2,200,000
Camp May Waterline (\$2M County / \$2M Other)		4,000,000
LA Reservoir Road Stabilization Project (NP - NMED RSPG \$300,000, \$250,000 General fund)		800,000
GWS/ED Facilities at WR WWTP		50,000
LA WWTP Filtration (WTB \$1,000,000 Loan / \$1,500,000 Grant/ \$375,000 DPU Match)		2,875,000
NM-4 Transmission Line Design (NMDOT Project)		180,000
NM-4 Transmission Line Construction (NMDOT Project / DWSRL)		2,800,000
Tank Piping Upgrades		300,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,447,000
SEWER COLLECTION		952,000
Bayo Canyon Sewer Lift Station Elimination Pipeline (CWSRL)		550,000
GWS/ED Facilities at WR WWTP		50,000
33rd Street & 34th Street Utility Replacement		352,000
WASTEWATER TREATMENT		495,000
Composting Improvements Phase 1		495,000

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY23 (1 July 2022 - 30 June 2023)		Budget
ELECTRIC PRODUCTION		490,000
Abiquiu Runner Repair /Rplacement		400,000
El Vado Ultrasonic Flow Meter		90,000
ELECTRIC DISTRIBUTION		700,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		300,000
White Rock URD Replacement (cables, jboxes, pedestals)		200,000
Overhead System Replacement (polex, xarms, transformers)		200,000
Townsite Ski Hill Circuit, 3 PHASE		
White Rock Circuit2, 1 PHASE		
GAS DISTRIBUTION		250,000
SCADA Pressure Sensing Stations		250,000
WATER DISTRIBUTION		450,000
North Mesa Distribution Upgrades - Phase 1		450,000
WATER PRODUCTION		5,490,000
Abandon Guaje Well 1A & Drill New Guaje Well 1B (CWSRL)		4,500,000
Guaje Pines, North Mesa, Diamond Connections (NP - WTB)		990,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,159,000
SEWER COLLECTION		364,000
Arkansas Area Backyard Sewer Mains & Services R&R		179,000
Kimberly Sewer Lift Station & Wet Well		185,000
WASTEWATER TREATMENT		795,000
Equipment Replacement		300,000
Composting Improvements Phase 2		495,000

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY24 (1 July 2023 - 30 June 2024)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		1,400,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		300,000
White Rock URD Replacement (cables, jboxes, pedestals)		500,000
Overhead System Replacement (polex, xarms, transformers)		300,000
Townsite Circuit 15, 1 PHASE		
White Rock Circuit 1, Wire 3 PHASE		
EA-4 Power Line Replacement Design		300,000
GAS DISTRIBUTION		0
WATER DISTRIBUTION		0
WATER PRODUCTION		2,220,000
Repaint Western Area Tank		350,000
Repaint Guaje Booster Station 1 Tanks 1 & 2		550,000
Repaint Guaje Booster Station 2 Tanks 1 & 2, and piping upgrades		600,000
LA WWTP NP Feed Pipeline (NP - WTB)		720,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,200,000
SEWER COLLECTION		900,000
Laguna Sewer Canyon Drop Replacement		900,000
WASTEWATER TREATMENT		300,000
Equipment Replacement		300,000

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY25 (1 July 2024 - 30 June 2025)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		6,100,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		300,000
White Rock URD Replacement (cables, jboxes, pedestals)		500,000
Overhead System Replacement (polex, xarms, transformers)		300,000
Townsite Circuit 13, 1 PHASE		
White Rock Circuit2, Wire 3 PHASE		
EA-4 Power Line Replacement		5,000,000
GAS DISTRIBUTION		307,000
Pipeline Repair & Replacement / Equipment		307,000
WATER DISTRIBUTION		553,000
Fairway (Public Works Road Project)		553,000
WATER PRODUCTION		5,309,000
Townsite 14" Pipeline R&R - Phase 1		3,859,000
Repaint Guaje Booster Station 3 Tank 1 & 2		700,000
Bayo Booster Station Upgrades (NP - WTB)		750,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		230,000
SEWER COLLECTION		230,000
North Community Backyard Sewer Mains & Services R&R - Phase 1		190,000
Fairway (Public Works Road Project)		40,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY26 (1 July 2025 - 30 June 2026)		Budget
ELECTRIC PRODUCTION		750,000
Abiqui Rewind		750,000
ELECTRIC DISTRIBUTION		1,100,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		300,000
White Rock URD Replacement (cables, jboxes, pedestals)		500,000
Overhead System Replacement (polex, xarms, transformers)		300,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
GAS DISTRIBUTION		317,000
Pipeline Repair & Replacement / Equipment		317,000
WATER DISTRIBUTION		515,000
Aspen School Area Pipeline Phase 2		515,000
WATER PRODUCTION		1,804,000
Townsite 14" Pipeline R&R - Phase 2		
Barranca Mesa NP Pipeline Connections (NP-WTB/\$402k Grant/\$268k Loan/\$134k DPU Match)		804,000
Repaint Pajarito Tank 4A		1,000,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		701,000
SEWER COLLECTION		384,000
North Community Backyard Sewer Mains & Services R&R - Phase 2		205,000
Aspen School Area Sewer Line R&R - Phase 2		179,000
WASTEWATER TREATMENT		317,000
Equipment Replacement		317,000

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY27 (1 July 2026 - 30 June 2027)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		1,300,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		500,000
White Rock URD Replacement (cables, jboxes, pedestals)		300,000
Overhead System Replacement (polex, xarms, transformers)		300,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
East Gate Substation Study		200,000
GAS DISTRIBUTION		326,000
Pipeline Repair & Replacement / Equipment		326,000
WATER DISTRIBUTION		535,000
Aspen School Area Pipeline - Phase 3		535,000
WATER PRODUCTION		1,563,000
Townsite 14" Pipeline R&R - Phase 3		
Repaint North Mesa Tank		783,000
Chamisa School Pipeline / Connections (NP-WTB/\$390k Grant/\$260k Loan/\$130k DPU Match)		780,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		828,000
SEWER COLLECTION		828,000
Old Pueblo Sewer Canyon Drop Replacement		538,000
41st/45th/46th/47th Sewerline R&R {PW-WA 7}		105,000
Aspen School Area Sewerline R&R Phase 3		185,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY28 (1 July 2027 - 30 June 2028)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		1,100,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		300,000
White Rock URD Replacement (cables, jboxes, pedestals)		300,000
Overhead System Replacement (polex, xarms, transformers)		500,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
GAS DISTRIBUTION		336,000
Pipeline Repair & Replacement / Equipment		336,000
WATER DISTRIBUTION		550,000
Aspen School Area Pipeline - Phase 4		550,000
WATER PRODUCTION		5,645,000
Townsite 14" Pipeline R&R - Phase 4		
Repaint Otowi Booster Station 1 Tank 2		325,000
Otowi Booster Station 1 & Pipeline Replacement		4,000,000
Rover & Pinon Park Pipeline / Connections (NP-WTB/\$660k Grant/\$440k Loan/\$220k DPU Match)		1,320,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		185,000
SEWER COLLECTION		185,000
Aspen School Area R&R - Phase 4		185,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY29 (1 July 2028 - 30 June 2029)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		1,100,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		300,000
White Rock URD Replacement (cables, jboxes, pedestals)		300,000
Overhead System Replacement (polex, xarms, transformers)		500,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
GAS DISTRIBUTION		345,000
Pipeline Repair & Replacement / Equipment		345,000
WATER DISTRIBUTION		0
Eastern Area Phase 2		537,000
WATER PRODUCTION		1,806,000
Otowi Well No. 4 Tank (Anniversary) Construct Second Tank		1,386,000
SCADA Upgrades (NP-WTB/\$210k Grant/\$140k Loan/\$70k DPU Match)		420,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,667,000
SEWER COLLECTION		1,320,000
Airport Canyon Sewer Canyon Drop Replacement		1,141,000
Eastern Area Phase 2		179,000
WASTEWATER TREATMENT		347,000
Equipment Replacement		347,000

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY30 (1 July 2029 - 30 June 2030)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		1,100,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		300,000
White Rock URD Replacement (cables, jboxes, pedestals)		300,000
Overhead System Replacement (polex, xarms, transformers)		500,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
GAS DISTRIBUTION		355,000
Pipeline Repair & Replacement / Equipment		355,000
WATER DISTRIBUTION		553,000
Eastern Area Phase 3		553,000
WATER PRODUCTION		4,420,000
Camp May Tank SCADA/Freeze Protect (NP-WTB/\$210k Grant/\$140k Loan/\$70k DPU Match)		420,000
Pajarito Road Pipeline R & R		4,000,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,059,000
SEWER COLLECTION		1,059,000
Copper Road Sewer Canyon Drop Replacement		874,000
Eastern Area Phase 3		185,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2022 - 2031
10-Year Capital Plan

FY31 (1 July 2030 - 30 June 2031)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		5,100,000
Los Alamos URD Replacement (cables, jboxes, pedestals)		300,000
White Rock URD Replacement (cables, jboxes, pedestals)		300,000
Overhead System Replacement (polex, xarms, transformers)		500,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
East Gate Substation		4,000,000
GAS DISTRIBUTION		365,000
Pipeline Repair & Replacement / Equipment		365,000
WATER DISTRIBUTION		570,000
Eastern Area Phase 4		570,000
WATER PRODUCTION		7,360,000
West Pajarito Road Pipeline R&R - Phase 2		1,150,000
Pipeline Repair & Replacement / Equipment (NP - WTB)		210,000
Abandon Pajarito Well #2and Drill New Replacement Well (DWSRL)		6,000,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		7,269,000
SEWER COLLECTION		969,000
Camino Cereza Sewer Canyon Drop Replacement		779,000
Eastern Area Phase 4		190,000
WASTEWATER TREATMENT		6,300,000
WR WWTP 10-Year Upgrade (CWSRL)		2,100,000
LA WWTP 23-Year Upgrade (CWSRL)		4,200,000

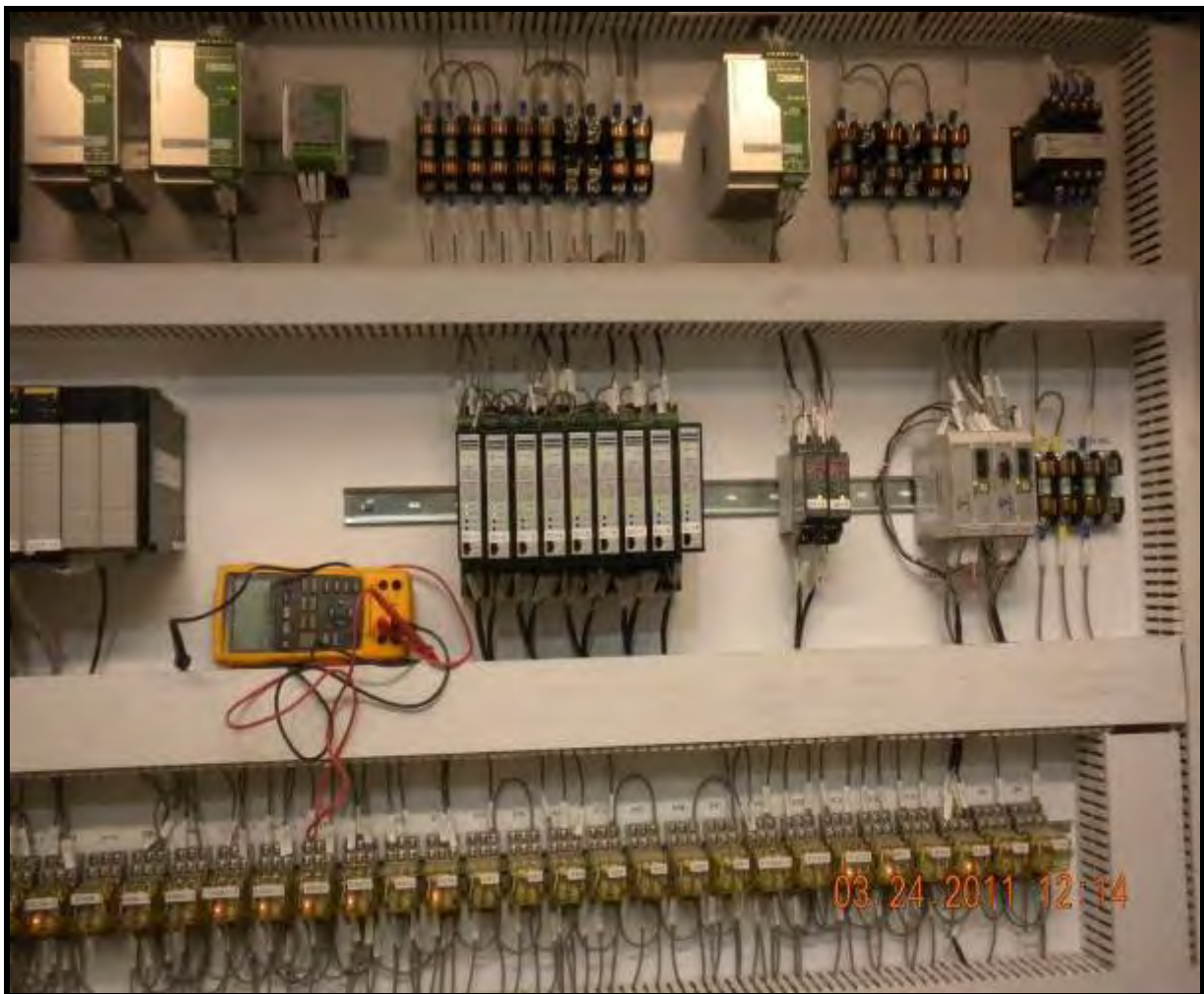
ELECTRIC PRODUCTION

FY22: El Vado Controls Upgrade

Project Scope: The controls at the El Vado hydroelectric plant were last upgraded in 2006. Industry practice is to upgrade the control system every 10-15 years. The upgrade is needed to replace outdated hardware, update software and programming which is no longer supported and to integrate new functions associated with recent improvements to the plant. The controls upgrade will ensure safe and reliable operation of the plant.

Budget: \$440,000

Schedule: Fall/Winter 2021-2022



ELECTRIC PRODUCTION

FY22: Fiber Optic Line El Vado Plant & Communication Equipment Upgrade

Project Scope: Currently the El Vado hydroelectric plant communicates from the plant to the receiving substation through a microwave system which encompasses three radio sites and five repeaters. One radio & repeater is located in a remote location which is not accessible in the winter. The microwave radio system is antiquated and in need of replacement. This project will eliminate the microwave radio system and replace it with a direct fiber optic link between the plant and substation.

Budget:	Fiber Optic Line	\$ 375,000
	Communication Equipment Upgrade	\$ 250,000

Schedule: Fall / Winter 2021-2022



ELECTRIC PRODUCTION

FY22: Abiquiu Transformer Replacement

Project Scope: The transformer at the Abiquiu Hydroelectric Plant is in need of replacement. The existing transformer is the original installed in 1988 and is in need of some repairs. A spare transformer was purchased with a grant in 2010 and has been stored onsite since. This project will install the new transformer and salvage the old transformer.

Budget: \$100,000

Schedule: Fall/Winter 2021- 2022



ELECTRIC DISTRIBUTION

FY22: URD (UG Residential Distribution) Replacements

Project Scope: The underground system contains 1970s infrastructure which was direct-buried and in direct contact with the earth. Portions or segments of the underground system which have experienced 3 or more failures are targeted for replacement because they will fail again. Old and obsolete live-front transformers are routinely replaced due to safety and arc-flash concerns. New loop segments are designed for radial power lines which serve large amounts of customers.

- | | |
|---|-----------|
| 1. Los Alamos town site area after three failure replacements | \$200,000 |
| 2. White Rock area after three failure replacements | \$200,000 |

Budget: \$ 400,000

Schedule: Year-round design and construction



ELECTRIC DISTRIBUTION

FY22: Overhead System Replacement

Project Scope: Many components of the utilities' overhead infrastructure operate near or past their useful life; greater than 50 years. The department's Asset Management Program (AMP) prioritizes O&M projects on (a) root cause analysis after power outages, (b) quarterly line patrols, and (c) year-end assessments. The O&M program includes: replacement of power poles, cross-arms, and revamps (wire & transformer upgrades). Priority is placed on the three-phase backbone and areas affecting the highest number of consumers.

- | | |
|----------------------------|------------|
| 1. White Rock service area | \$150,000. |
| 2. Los Alamos service area | \$150,000. |

Budget: \$ 300,000
Schedule: Year-round design and construction



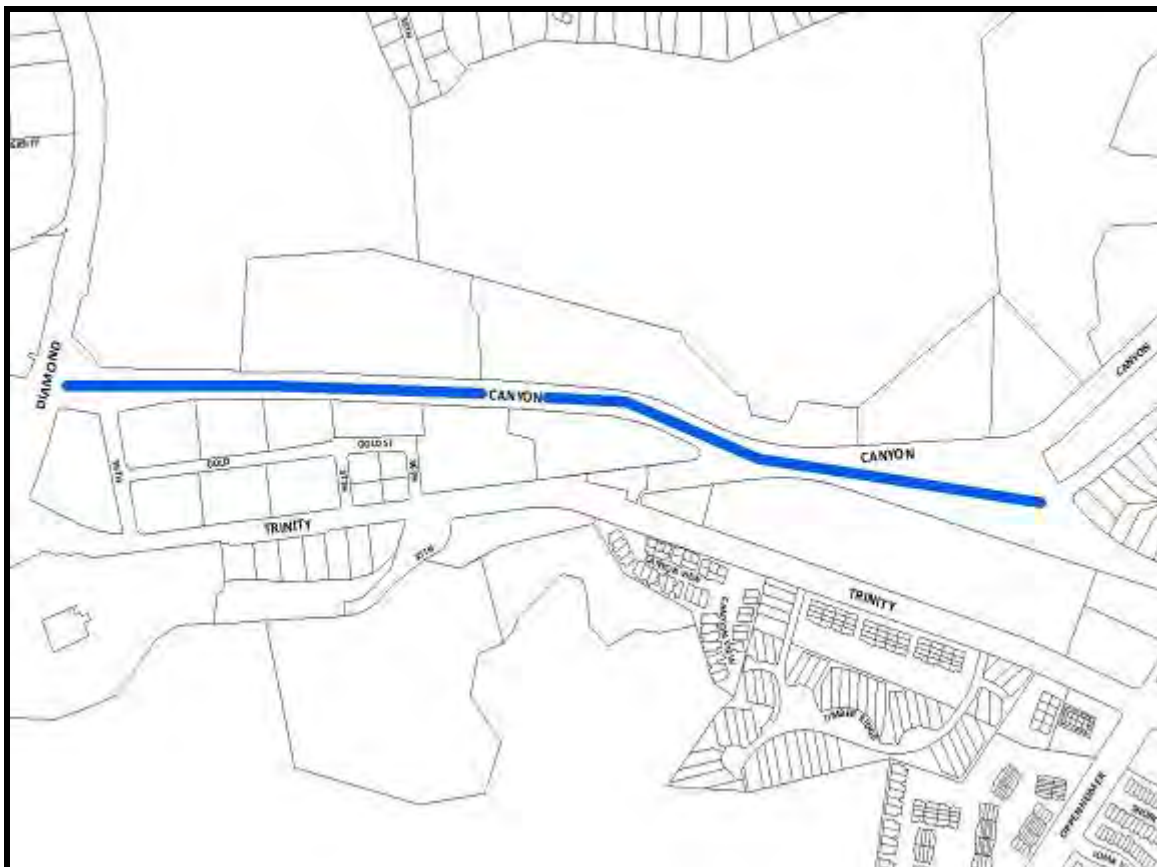
ELECTRIC DISTRIBUTION / WASTEWATER COLLECTION / WATER DISTRIBUTION

FY22: Canyon Road Utility Upgrades

Project Scope: This project will be a joint project between DPU and the Public Works Department to re-pave the road and replace the necessary infrastructure beneath the new road. The project will be from Diamond Drive to Central Avenue. Sewer lines will be rehabilitated, a 1950's vintage section of waterline will be replaced and some electric system improvements will be constructed. The utility portion of the project will be funded by the profit transfer monies allocated to the DPU by the County Council.

Budget:	Electric Distribution	\$ 200,000
	Water Distribution	\$ 254,000
	Wastewater Collection	\$ 244,000
	Total	\$698,000

Schedule: Summer 2022



GAS DISTRIBUTION / ELECTRIC DISTRIBUTION / WASTEWATER COLLECTION / WATER DIST. & PROD. FY22: White Rock Maintenance Facility

Project Scope: Currently there are no facilities in White Rock where our operations staff can store materials or work on equipment. A lot of time is spent driving from Los Alamos to White Rock for materials and to use shop tools. The new maintenance facility will facilitate daily activities and provide efficiencies to operational tasks. The facility will be located at Overlook Park.

Budget:	Electric Distribution	\$ 50,000
	Gas Distribution	\$ 50,000
	Water Distribution	\$ 50,000
	Water Production	\$ 50,000
	Wastewater Collection	\$ 50,000
	Total	\$250,000

Schedule: Fall 2021



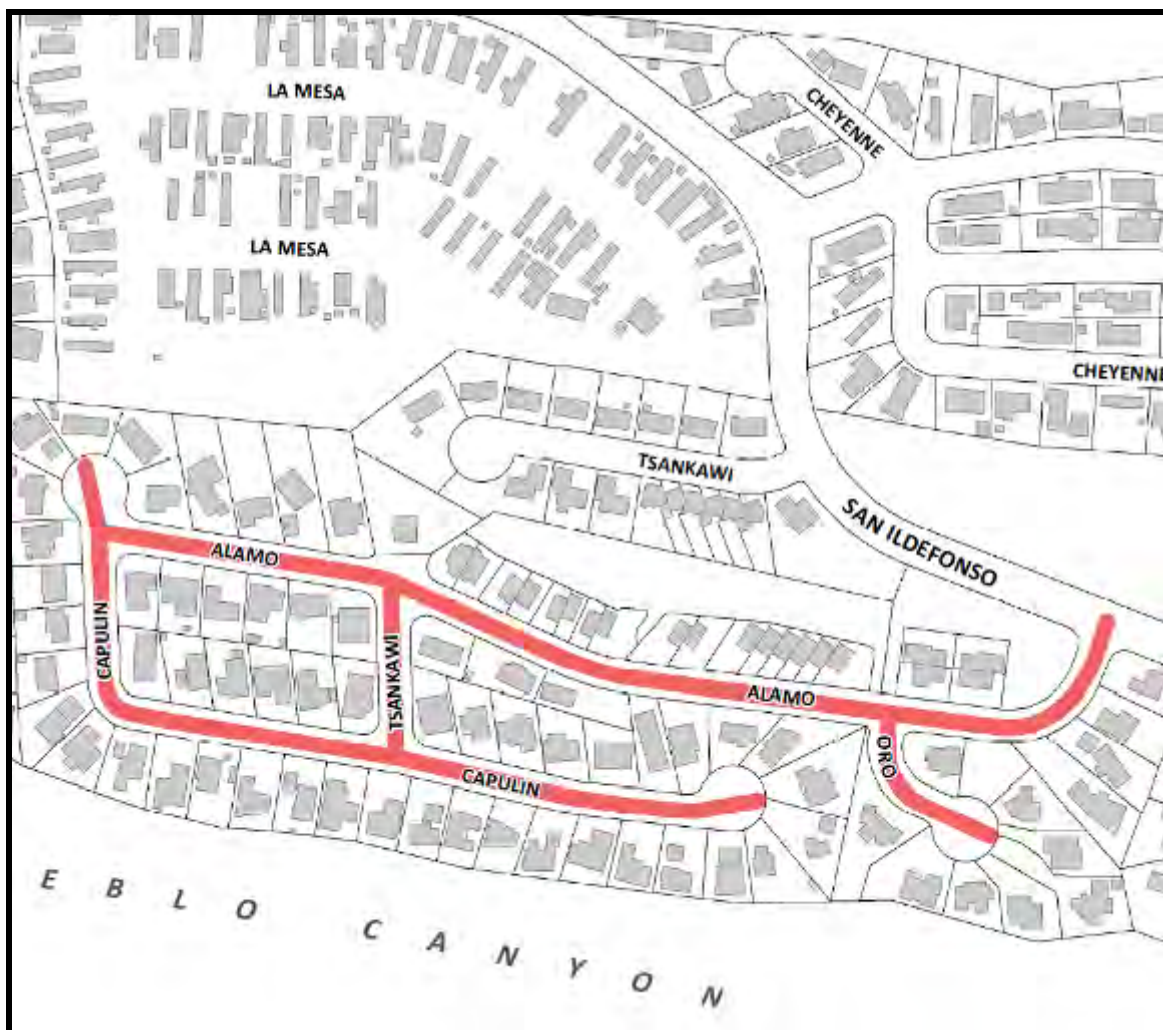
GAS DISTRIBUTION / WATER DISTRIBUTION

FY22: Alamo & Capulin Gas & Water Replacement

Project Scope: The Public Works Department will be repaving the roads in the Alamo & Capulin neighborhoods on North Mesa. This project will be a joint project between DPU and the Public Works Department to replace the necessary infrastructure beneath the new road and to minimize the impact on the community. The water and gas distribution systems are in need of replacement and will be incorporated into the road project.

Budget:	Gas	\$535,000
	Water	\$732,000

Schedule: Summer 2021



GAS DISTRIBUTION

FY22: SCADA Pressure Monitoring Stations

Project Scope: A new Supervisory Controls and Data Acquisition System (SCADA) is currently being launched for the gas distribution system. The SCADA vendor has been selected and a contract will be approved in March 2021. These funds will be used to install various pressure monitoring stations throughout White Rock and Los Alamos to allow remote monitoring of the system pressures, provide trends of the system performance and provide alarms if there are any pressure drops.

Budget: \$300,000

Schedule: Throughout FY 2022



WATER DISTRIBUTION

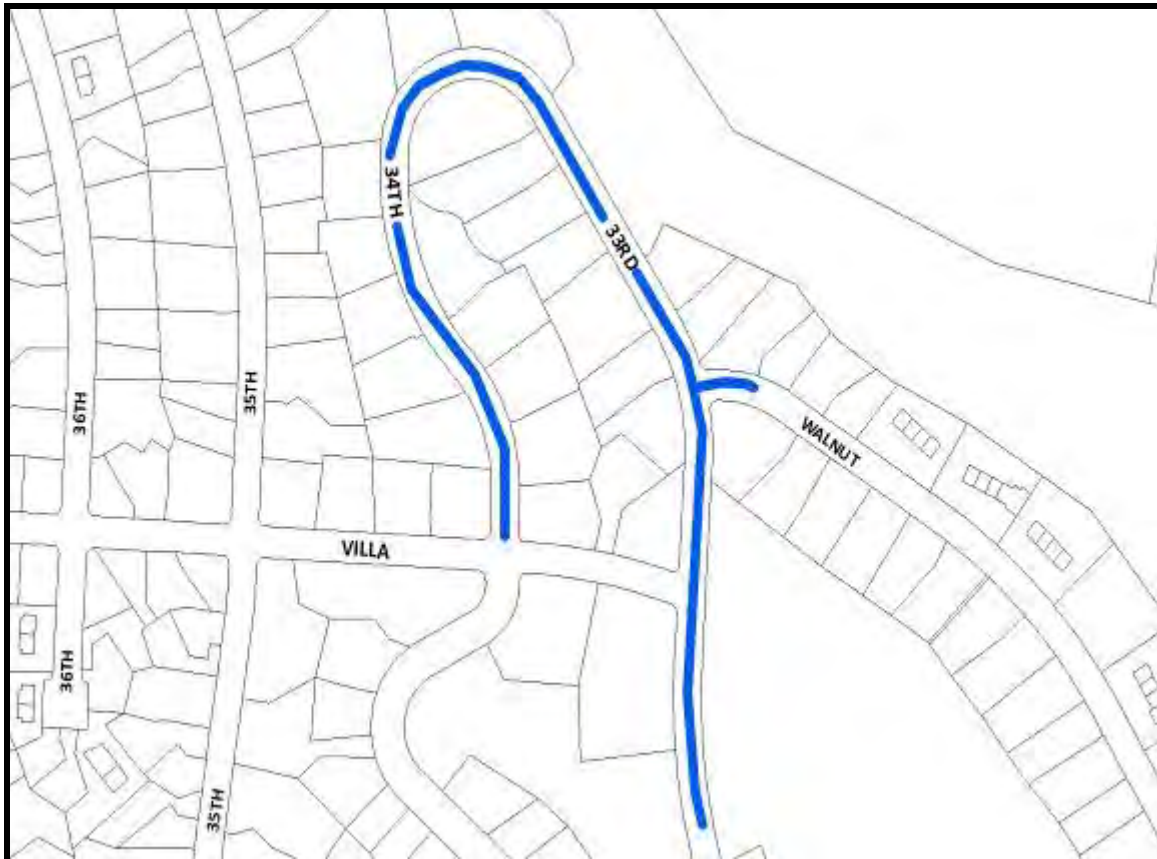
FY22: 33RD and 34TH Street Water and Sewer Upgrades

Project Scope: The waterlines in 33rd Street and 34th Street in the vicinity of Aspen Elementary School have been experiencing leaks for over a decade. The failures have been increasing in frequency in recent years. The waterlines were installed in the early 1950s. All of the water mains and services will be replaced in the project. Sewer lines in the vicinity of the project will also be replaced based on the history of back-ups and condition assessment after video inspection of the lines. If funded, the Public Works Department will pave the road as part of the project.

Budget:

Water	\$448,000
Wastewater	\$352,000

Schedule: Summer 2021 or Summer 2022 (Dependent on road funding)



WATER PRODUCTION

FY22: 2nd Group 12 Non-Potable Water Tank

Project Scope: The non-potable water system serving Los Alamos is limited by the amount of storage in the system. Currently a single 750,000 gallon tank serves the golf course and North Mesa ballparks. Additional storage is needed to maximize the available effluent water in Los Alamos to expand service to other areas in the community. Funding for this second 750,000 gallon tank will be applied for from the Water Trust Board in the 2022 funding cycle.

Budget: \$ 900,000

Schedule: Spring/Summer 2023



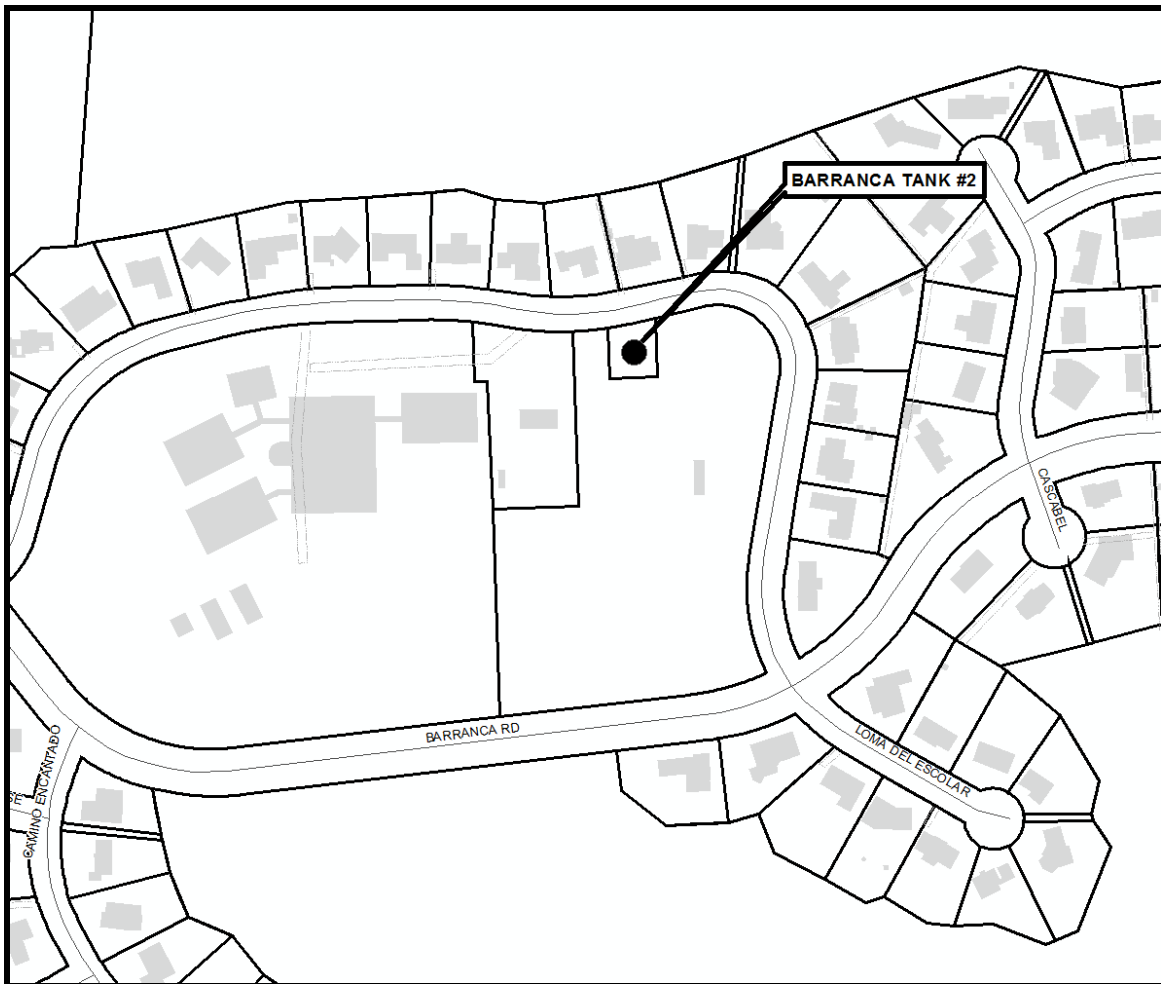
WATER PRODUCTION

FY22: Paint Barranca Mesa Water Tank

Project Scope: The Barranca Mesa Tank #2 is an elevated steel water tank located adjacent to Barranca elementary school. The tank coating has deteriorated through the years and the tank is in need of repainting. The tank interior and exterior will be re-painted. The new paint will protect the tank for the next thirty years. A low interest Drinking Water State Revolving Loan (DWSRL) will be secured to fund the project.

Budget: \$675,000 (DWSRL)

Schedule: Spring/Summer 2022



WATER PRODUCTION

FY22: Motor Control Center Upgrades

Project Scope: The Los Alamos County water production system has 27 wells and booster stations which vary in age from 25 to 70 years. In recent years the system has experienced an increased amount of failures due to motor control centers (MCC), electric service feeds and miscellaneous electric components. Beginning in April 2021 an electric engineer consultant will begin a condition assessment of the wells and boosters electric gear and prioritize the necessary improvements. We will proceed to design upgrades for the highest priority \$2 million of improvements and bid for construction. A Drinking Water State Revolving Loan (DWSRL) will be secured in the amount of \$2 million to fund the construction. These improvements will add to the reliability of the system.

Budget: \$ 200,000 Design (CIP funds)
 \$ 2,000,000 Construction (DWSRL)

Schedule: Design Fall 2021
 Construction Spring & Summer 2022



WATER PRODUCTION

FY22: Camp May Waterline

Project Scope: The project will convey water from the existing potable water system in Los Alamos to the ski lodge, Camp May campground and provide a reliable water supply for regional fire protection and snow making. Four booster stations and 23,000 feet of waterline will be constructed along Camp May Road. The design has been completed with funding from a capital outlay grant and environmental clearances are currently being finalized by the U.S. Forest Service.

Budget: \$ 2,000,000 Los Alamos County (No DPU Funds)
 \$ 2,000,000 Ski Hill Operator

Schedule: Construction Pending Environmental Clearance



WATER PRODUCTION

FY22: L.A. Reservoir Road Stabilization Project

Project Scope: The reservoir road remains damaged after flooding in 2018. A FEMA grant was secured in 2019 to stabilize the road but was unfunded in 2020. A grant in the amount of \$300,000 will be applied for in fiscal year 2022 from the State of New Mexico River Stewardship Program to work on the road. If awarded the grant, the work will include reconstructing the road where it is washed out and the road will be stabilized with gabions to the extent the funding allows.

Budget:

County	\$ 250,000
DPU	\$ 250,000
NMRSP	\$ 300,000
Total	\$ 800,000

Schedule: Grant application will be made in FY2022 to the State of New Mexico River Stewardship Program



WATER PRODUCTION

FY22: Los Alamos Wastewater Treatment Plant Filtration System

Project Scope: The DPU has applied for Water Trust Board funding in the 2021 funding cycle which will be considered in the 2021 legislative session. If awarded, the \$2.5 million award will consist of a \$1.5 million grant, a \$1 million loan and DPU will be required to match \$375,000 of capital funds. The filtration system is a tertiary treatment process that will improve the effluent water quality to meet Class-A effluent water quality standards, the highest achievable. Due to the high water quality of Class-A effluent the water can be applied to more populated locations in the community with less restrictions on the time of application. This will allow expansion of effluent use to irrigate more parks, ballfields and school ballfields/landscaping.

Budget: \$2,875,000 (WTB 1,000,000 Loan / 1,500,000 Grant / \$375,000 DPU Match)

Schedule: Design Summer 2021
Construction Summer/Fall 2022



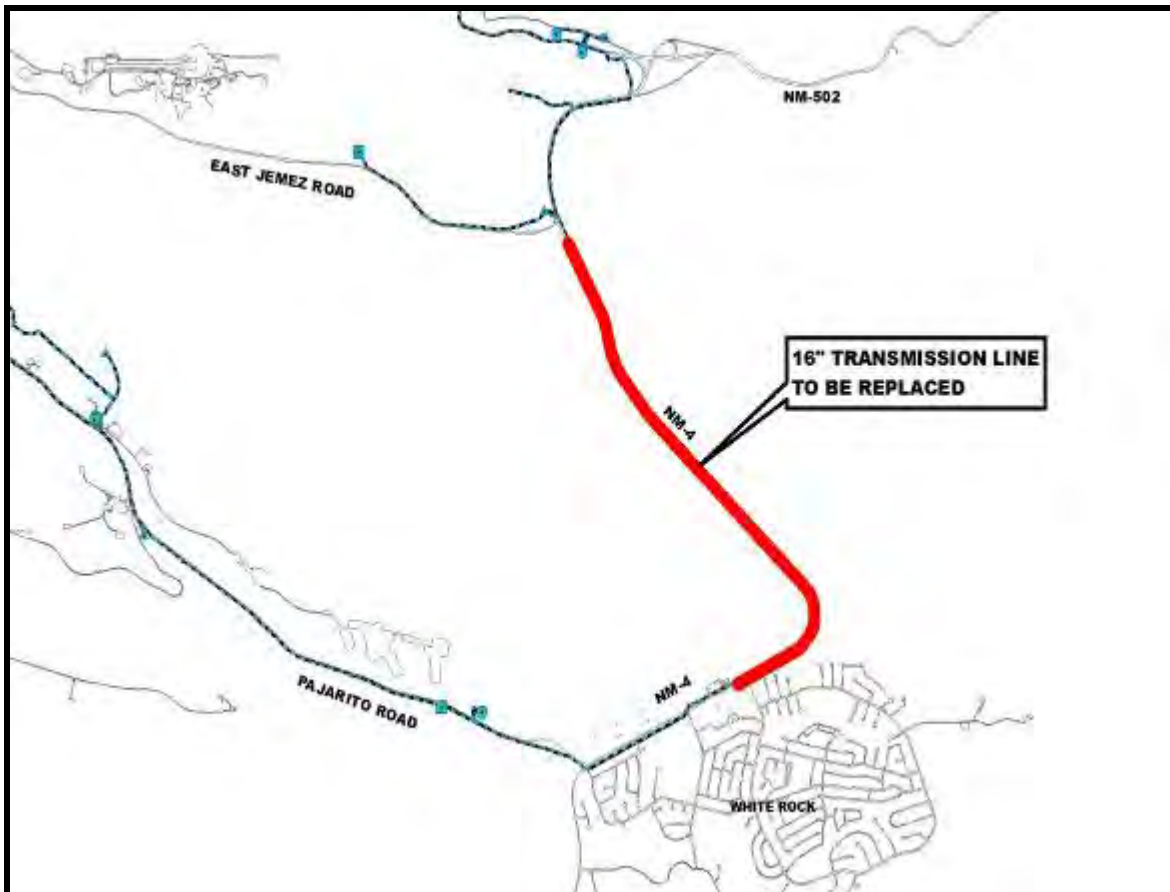
WATER PRODUCTION

FY22: NM-4 Transmission Line Replacement

Project Scope: The NMDOT is scheduled to reconstruct New Mexico State Road 4 (NM-4) between NM-502 and White Rock in 2022. The road will be widened to include a shoulder which will result in portions of the existing transmission line to be below the new paving. There have been a number of breaks in this pipeline over the last 15 years. In addition, the road widening will also present some conflicts with the existing waterline where drainage structures are lengthened as well as some areas of the waterline being shallow as the road widening will lower grades over the waterline. A new 16" ductile iron pipe will be constructed and placed outside of the new paving.

Budget:	Design	\$ 180,000 (CIP)
	Construction	\$ 2,800,000 (DWSRL)

Schedule: Design Fall/Winter 2021
Construction Summer/Fall 2022



WATER PRODUCTION

FY22: Tank Piping Upgrades

Project Scope: Miscellaneous valves throughout the water production system require replacement after decades of being in service. The valves will be replaced by water production staff and supported by contractors as needed depending on the complexity of the work. These improvements will add to the reliability of the system.

Budget: \$300,000

Schedule: Throughout Year



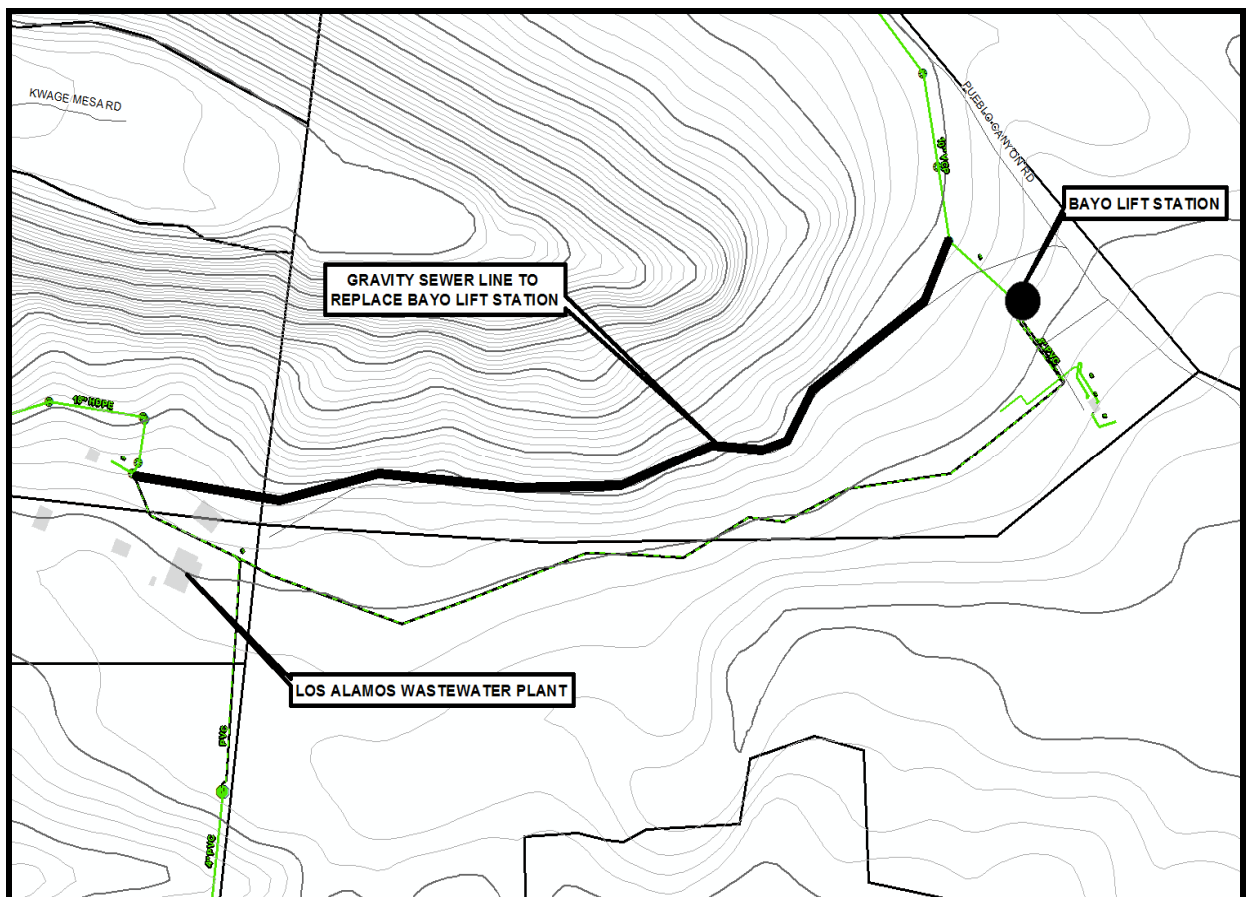
WASTEWATER TREATMENT

FY22: Bayo Lift Station Elimination Pipeline

Project Scope: The Bayo Lift Station pumps sewage from all of Barranca Mesa to the Los Alamos Wastewater Treatment Plant. This represents approximately 20% of the sewage treated at the Los Alamos Wastewater Treatment Plant. The lift station is due for some major upgrades and rather than reinvest in the lift station, funds will be used to build a gravity sewer line to replace the lift station and eliminate the cost and risk associated with pumping the sewage.

Budget: \$550,000

Schedule: Spring 2022



WASTEWATER TREATMENT

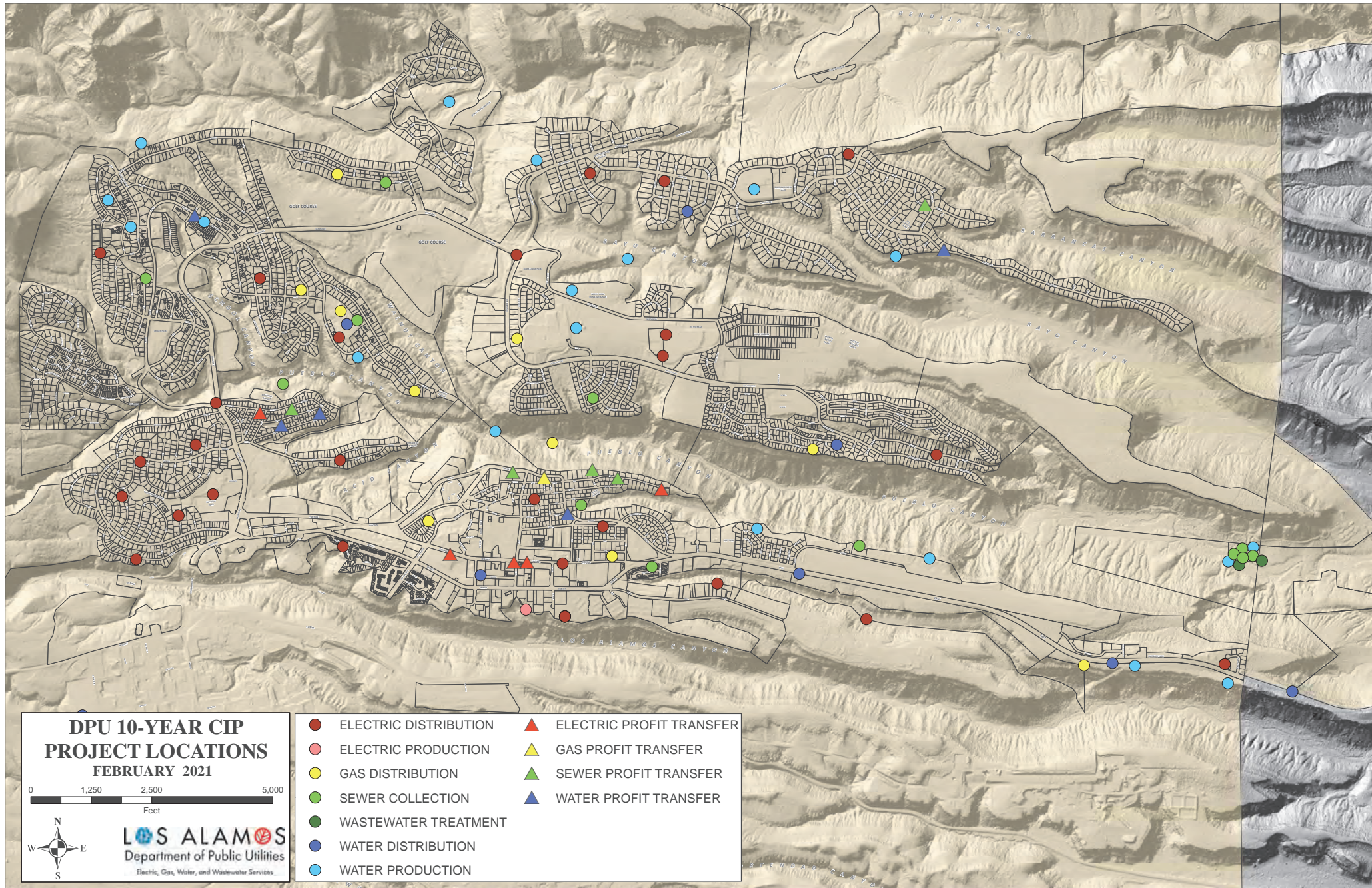
FY22: Composting Improvements Phase I

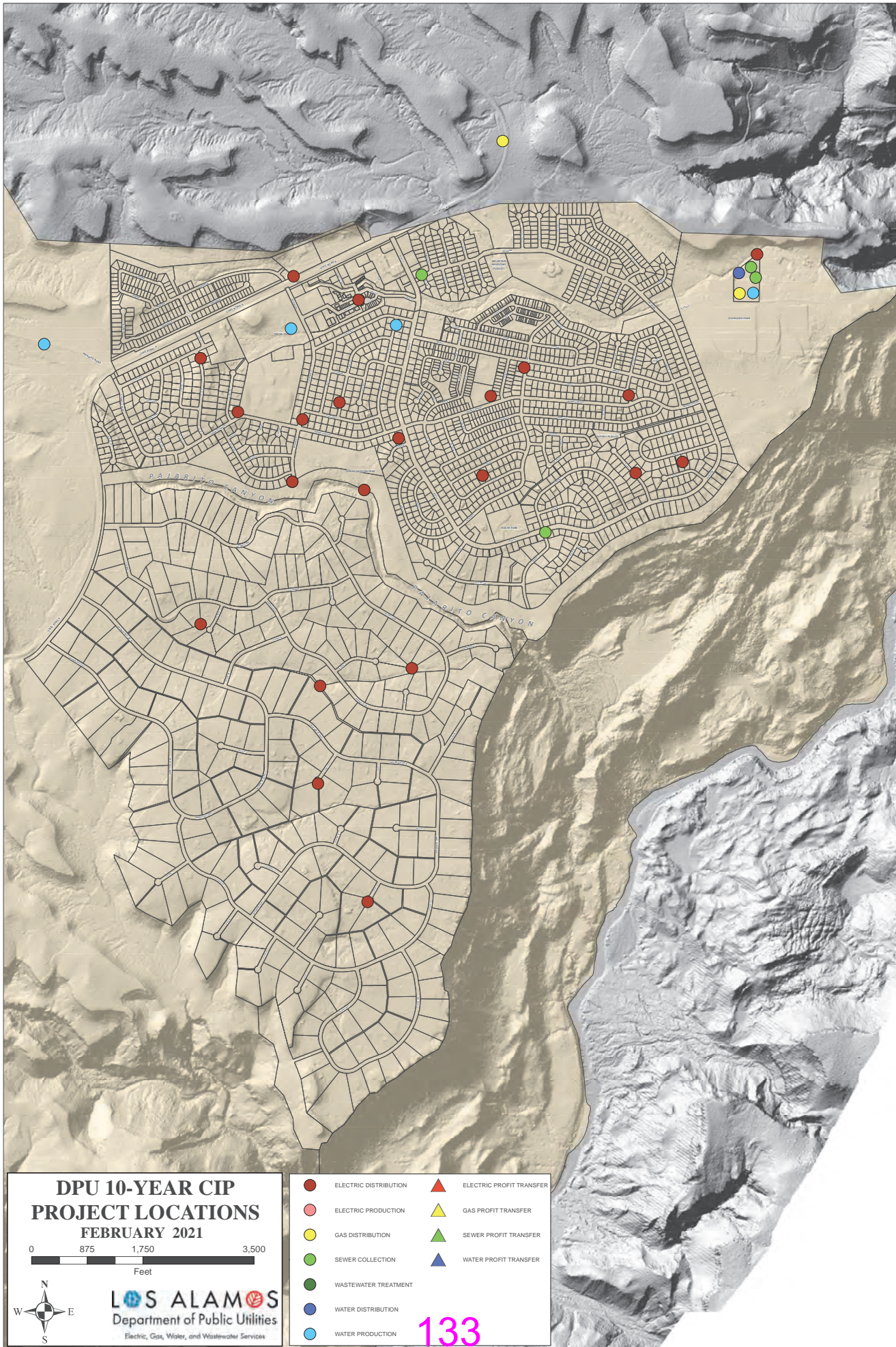
Project Scope: The existing composting facility will be expanded to accommodate the additional sludge that will be processed from the new White Rock Wastewater Treatment Plant. Areas where sludge and compost are processed are required to have an impervious liner to prevent the migration of contaminants into the groundwater. In addition, the compost drainage area shall be graded to drain to a detention pond with no offsite discharge. The project will achieve the necessary expansion of the processing area and pond in compliance with regulatory requirements. Future phase will include installing a hardened non-wear surface in the processing area.

Budget: \$495,000

Schedule: Spring 2022







FY2022 Budget Options

CMO Rank	Item #	Dept Ref#	Dept	Division	Amount	Short Description	Detailed Notes	Recurring/ One-Time	Fund
		C850	DPU	Electric Distribution	\$200,000	Canyon Road (Public Works Road Project)	Replace cast iron water pipes on Canyon Road corridor in advance of Public Works road construction project	One Time	Profit Transfer
		C850	DPU	Water Distribution	\$254,000	Canyon Road (Public Works Road Project)	Replace cast iron water pipes on Canyon Road corridor in advance of Public Works road construction project	One Time	Profit Transfer
		C850	DPU	Sewer Collection	\$244,000	Canyon Road (Public Works Road Project)	Replace cast iron water pipes on Canyon Road corridor in advance of Public Works road construction project	One Time	Profit Transfer

Los Alamos County Department of Public Utilities
Fiscal Years 2022-2031
10-Year Profit Transfer Budget Option Cash Analysis

	FORECAST 2022	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031
Utilities Profit Transfer Reserves										
Electric Distribution	594,979	617,238	594,979	620,455	636,422	647,668	654,144	660,686	667,293	673,966
Gas	230,182	201,959	230,182	219,107	217,678	217,678	216,606	215,892	216,963	219,464
Total Profit Transfer	825,161	819,197	825,161	839,561	854,100	865,346	870,750	876,577	884,256	893,430
Total Budget Options	698,000	1,827,695	863,000	660,000	850,000	900,000	900,000	900,000	900,000	900,000
Annual Net Cash Flow	127,161	(1,008,498)	(37,839)	179,561	4,100	(34,654)	(29,250)	(23,423)	(15,744)	(6,570)
Cumulative Cash Flow	1,325,992	317,494	279,655	459,216	463,316	428,662	399,412	375,989	360,245	353,675
Utility Budget Option Expenditures										
Electric Production Projects										
Electric Distribution Projects	200,000	200,000			850,000	250,000	250,000	250,000	250,000	250,000
Gas Projects		213,188								
Water Distribution Projects	254,000	1,340,168	768,000	600,000		400,000	400,000	400,000	400,000	400,000
Water Production Projects										
Wastewater Projects	244,000	74,339	95,000	60,000		250,000	250,000	250,000	250,000	250,000

Los Alamos County Department of Public Utilities
Fiscal Years 2022-2031
10-Year Profit Transfer Budget Options

FY22 (1 July 2021 - 30 June 2022)		Budget
ELECTRIC DISTRIBUTION		200,000
Canyon Road (Public Works Road Project)		200,000
WATER DISTRIBUTION		254,000
Canyon Road (Public Works Road Project)		254,000
SEWER COLLECTION		244,000
Canyon Road (Public Works Road Project)		244,000
TOTAL		698,000
FY23 (1 July 2022 - 30 June 2023)		Budget
ELECTRIC DISTRIBUTION		200,000
Arkansas (Public Works Road Project)		50,000
Rim/Quartz/Pine/6th St (Public Works Road Project)		150,000
WATER DISTRIBUTION		1,340,168
Central Avenue (Public Works Road Project)		234,168
Rim/Quartz/Pine/6th St (Public Works Road Project)		1,106,000
SEWER COLLECTION		213,188
Central Avenue (Public Works Road Project)		63,188
Rim/Quartz/Pine/6th St (Public Works Road Project)		150,000
GAS DISTRIBUTION		74,339
Central Avenue (Public Works Road Project)		74,339
TOTAL		1,827,695

Los Alamos County Department of Public Utilities
Fiscal Years 2022-2031
10-Year Profit Transfer Budget Options

FY24 (1 July 2023 - 30 June 2024)		Budget
WATER DISTRIBUTION		768,000
Denver Steels Phase 2 (Public Works Road Project)		768,000
SEWER COLLECTION		95,000
Denver Steels Phase 2 (Public Works Road Project)		95,000
TOTAL		863,000
FY25 (1 July 2024 - 30 June 2025)		Budget
WATER DISTRIBUTION		600,000
Denver Steels Phase 3 (Public Works Road Project)		600,000
SEWER COLLECTION		60,000
Denver Steels Phase 3 (Public Works Road Project)		60,000
TOTAL		660,000
FY26 (1 July 2025 - 30 June 2026)		Budget
ELECTRIC DISTRIBUTION		850,000
Navajo (Public Works Road Project)		250,000
Los Pueblos (Public Works Road Project)		600,000
TOTAL		850,000
FY27 (1 July 2026 - 30 June 2027)		Budget
ELECTRIC DISTRIBUTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
WATER DISTRIBUTION		400,000
System Replacement (TBD Public Works Road Project)		400,000
SEWER COLLECTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
TOTAL		900,000

Los Alamos County Department of Public Utilities
Fiscal Years 2022-2031
10-Year Profit Transfer Budget Options

FY28 (1 July 2027 - 30 June 2028)		Budget
ELECTRIC DISTRIBUTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
WATER DISTRIBUTION		400,000
System Replacement (TBD Public Works Road Project)		400,000
SEWER COLLECTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
TOTAL		900,000
FY29 (1 July 2028 - 30 June 2029)		Budget
ELECTRIC DISTRIBUTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
WATER DISTRIBUTION		400,000
System Replacement (TBD Public Works Road Project)		400,000
SEWER COLLECTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
TOTAL		900,000
FY30 (1 July 2029 - 30 June 2030)		Budget
ELECTRIC DISTRIBUTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
WATER DISTRIBUTION		400,000
System Replacement (TBD Public Works Road Project)		400,000
SEWER COLLECTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
TOTAL		900,000

Los Alamos County Department of Public Utilities
Fiscal Years 2022-2031
10-Year Profit Transfer Budget Options

FY31 (1 July 2030 - 30 June 2031)		Budget
ELECTRIC DISTRIBUTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
WATER DISTRIBUTION		400,000
System Replacement (TBD Public Works Road Project)		400,000
SEWER COLLECTION		250,000
System Replacement (TBD Public Works Road Project)		250,000
TOTAL		900,000

Utilities Financial Policies
Department of Public Utilities, Los Alamos County

I. Purpose

The Department of Public Utilities (DPU) operates the Los Alamos County-owned electric, gas, water, and sewer utility systems under jurisdiction and control of the Board of Public Utilities. This policy is intended to ensure adequate cash is available for effective and efficient operations of all County-owned utilities. For budgeting, rate-setting, and operational planning purposes, DPU shall adhere to the following guidance in regard to cash reserves. DPU shall first consider the terms of the Los Alamos County Charter (LAC Charter) and the Los Alamos County, NM Code of County Ordinances (County Code) in managing these cash reserves.

II. Background

- A. The LAC Charter, Article V, Section 509 Priority of Budgeted Expenditures states: “In order that the Department of Public Utilities can plan and utilize its proceeds for the maintenance, improvement and extension of the utilities system before any part of such proceeds is diverted to general County purposes, all funds derived from the operation of the utilities shall be managed and expended in accordance with the following policies. From the proceeds of the operation of the Department:
1. There shall first be set aside the funds required for current operation.
 2. There shall next be set aside the funds required to redeem and pay interest on any bond issue for the utility which shall become due and payable during the next fiscal year.
 3. There shall next be provided an adequate reserve to finance replacements required by normal depreciation of the utility plant or equipment as provided in the Schedule of Funds. These reserves may not be used by the County for financing County operations.
 4. There shall be paid to the General fund those amounts set forth in the budget as payment to be made to the County in lieu of franchise fees and taxes that would be normally assessed against privately owned gas and electric utilities.
 5. There shall next be a provision for additions and improvements foreseen as necessary to meet future requirements for the utility systems as provided in the Schedule of Funds.
 6. All remaining operating profits shall be transferred to the County General Fund.”
- B. The County Code, Chapter 40, Article II, Division 2., Section 40-65, Schedule of Funds states, “The schedule of funds, and any amendment of the schedule, as proposed by the board, shall be referred to the council for consideration for adoption. The schedule of funds shall prescribe the necessary yearly funding of reserves for replacements, additions and improvements, and other reserves authorized by Charter, bond

ordinances and bond indentures or other governing instrument and shall be consistent with the needs of the utilities systems. The replacement reserve shall cover (among other things) tools, equipment, vehicles and system replacements. The schedule of funds shall reflect separate reserve allocations for separate utility systems.” Currently vehicle replacement reserves are handled by the LAC Fleet Fund.

C. Fundamental Considerations

1. Operations and maintenance should be budgeted and covered through operating revenues.
2. DPU should have adequate cash reserves, achieved through operating revenues, to cover most unplanned or corrective maintenance that may be required for continued operations.
3. With the adoption of this policy, the users benefitting from a major utility system or plant replacement shall bear the costs of that system or plant. This is a shift from historical DPU practice in which customers did not contribute to major system replacement reserves when existing utility systems were transferred from the Department of Energy (DOE) to Los Alamos County (LAC). As a result of this shift in practice, large system replacements should be funded through debt financing. Customers benefitting from the new facilities will contribute to the cost through debt service. Examples of major utility system or plant replacements include wastewater treatment plants, replacements of large segments of the water distribution or wastewater collection systems, or electric substations.
4. For smaller capital projects, a capital replacement reserve should be funded. Examples of such projects include replacement of a single section of water line, and replacement of a motor control or switchgear. If the urgency or magnitude of a capital project or group of projects exceeds available reserves, and if funding through rates would result in unacceptable rate fluctuations, debt financing will be considered.
5. Rates should be just, reasonable and comparable to those in neighboring communities [LAC Charter, Article V, Section 504]. In determining comparability, consideration will be given to topography, age and complexity of systems.
6. Rates should also be non-discriminatory with consideration given to social necessity. The goal is to serve the interests of DPU, LAC, and utility customers. While rates can be used and designed to achieve specific conservation or other social goals, they should be carefully evaluated to avoid undesired consequences.
7. All debt must be funded with adequate coverage to achieve or maintain the best credit rating available to a public utility with the operational characteristics of DPU.
8. All statutory, contractual or prudent retirement obligations must be funded on a planned schedule to achieve appropriate funding levels at obligatory due dates.

III. Cash Reserve Guidelines

- A. For purposes of this policy, cash is defined as both unrestricted and restricted equity in pooled cash and investments, cash and cash equivalents, and investments.

- B. Rates will be established to cover budgeted operations and maintenance costs, projected commodities costs when and if a pass-through rate structure is not in place, and reserve requirements. To the extent practical, rates will be designed to recover costs according to cost drivers, with consideration for other political or social objectives identified in rate analysis.
- C. Rates will be just, reasonable and comparable to those in neighboring communities. [LAC Charter, Article V, Section 504.] In determining comparability, consideration will be given to topography, age and complexity of systems.
- D. Immediate implementation of this policy upon adoption may not be practical due to pre-existing deviations from the targets specified. Upon adoption by the Board of Public Utilities, DPU management will assess current cash balances, develop a plan and determine a time frame for implementation. The plan will be presented to the Board no later than the third regular Board meeting from the policy adoption date.
- E. In each of the utility sub funds:
 - 1. Operations Reserve: A target cash balance for operations will be established. This balance should equal 180 days of budgeted operations and maintenance expenditures as identified in the annual LAC budget book. A floor, or lowest acceptable balance, will also be established, equaling 90 days of budgeted operations and maintenance expenditures as identified in the annual LAC budget book.
 - a. This reserve may be utilized for correcting deposits to or from other reserves.
 - b. If the cash balance falls below target, DPU will initiate corrective action and determine the following:
 - i. Can the balance be expected to recover by the end of the subsequent fiscal year through the normal course of business?
 - ii. Is the curtailment of expenditures warranted?
 - iii. Is immediate rate action required?
 - c. If the cash balance falls below the floor, immediate action must be taken to first curtail expenditures and then, if necessary, adjust rates to restore cash to the floor level within 180 days.
 - 2. Capital Expenditures Reserve: A 10-year capital plan for projects not financed through debt will be maintained. An annuity will be included in the annual budget to ensure availability of funds for the capital plan. Through this capital plan and associated annuity, funds will accrue toward future planned capital expenditures, with a target minimum reserve in each sub fund equal to annual depreciation plus 2.5 percent to provide for inflationary or technology evolution pressures. Due to the long-term, future-focused nature of the capital plan as well as the opportunity for periodic adjustments as warranted, no funding floor is necessary.

3. Contingency Reserve: A contingency reserve will be established and maintained for each sub fund. The reserve will be equal to the replacement cost of the single largest piece of equipment with potential for failure, as defined by DPU's asset management team for that sub fund. In the event that a contingency reserve is used, the reserve amount will be restored from insurance, grant, or disaster recovery funds, if applicable, as soon as those funds become available. Otherwise DPU will establish a plan within 90 days to reestablish contingency reserves by the end of the subsequent fiscal year through curtailment of other expenditures or through rate actions.
4. Debt Service Reserve: Debt service reserves will be established to sufficiently fund all debt service requirements as required by the Charter, bond ordinances and bond indentures, or any other debt agreement (County Code, Chapter 40, Article II, Division 2., Section 40-63,(c)(2). The debt coverage ratio, based on total debt, is a key bond rating criteria. If the balance of this required reserve falls below required amounts, the reserve will be restored immediately by transfer of funds from the Operations Reserve [Cash Reserve Guidelines, Section III.E.1.a].
5. Retirement/Reclamation Reserve: Retirement/reclamation reserves will be funded to meet all statutory and contractual requirements and schedules and to satisfy prudent utility practices. If required by contractual agreements, reserves will be placed in trust funds set up for specified purposes. Otherwise, reserves will be accounted for as restricted and will not be available to supplement other reserves. When funding targets are based on future dates, monthly annuities designed to accumulate the required future fund balances will be established. When project cost analysis necessitates an adjustment to reserve requirements, funds will be transferred to or from the Operations Reserve [Cash Reserve Guidelines, Section III.E.1.a] to adjust the reserve accordingly.
6. Rate Stabilization Reserve: A rate stabilization reserve will be maintained when a pass-through rate mechanism for commodities is not in place. The rate stabilization reserve will be maintained with a target balance equal to the 10-year historical average cost of the commodity per unit times 12 months average projected consumption. A funding floor will be established equal to the 10-year historical average cost of the commodity per unit times 180 days average projected consumption. Should the cash balance drop below the target, DPU will initiate corrective action by determining the following:
 - a. Can the balance be expected to recover by the end of the subsequent fiscal year through the normal course of business?
 - b. Is the curtailment of expenditures warranted?
 - c. Is immediate rate action required?

- d. If the cash balance of the rate stabilization reserve falls below the floor, immediate action must be taken to first curtail expenditures and then, if necessary, adjust rates to restore cash to the floor level within 180 days.
 - 7. Consideration of the funding of these reserves, as projected in the Schedule of Funds, should take into account the following priority order:
 - a. Operating Reserve
 - b. Debt Service Reserve
 - c. Retirement/Reclamation Reserve
 - d. Capital Expenditure Reserve
 - e. Rate Stabilization Reserve
 - f. Contingency Reserve
 - 8. If excess cash balances exist in relation to targets, DPU will establish plans to spend down or adjust the excess cash within three fiscal years. The plans may include rate reductions, acceleration of the 10-year capital plan, or prudent increase in maintenance activities. When necessary, use of cash in one sub-fund may include transfer to another sub-fund only as a loan subject to a market rate of interest and with approval of both the Board of Public Utilities and the Los Alamos County Council.
 - 9. Rates will be established to cover budgeted operations and maintenance costs, projected commodities costs in the absence of a pass-through rate structure, and all reserve requirements. Rates will, to the extent possible, be designed to recover costs according to cost drivers, with consideration for other political or social objectives identified in rate analysis.
- F. Financing for each of the utility sub funds will adhere to the following:
- 1. Improvements to the system will be scheduled and budgeted with consideration of any rate impacts that may result. DPU will avail itself of below-market-rate loans or financing when available. DPU management will evaluate financing alternatives including phasing, deferral, or debt financing as project funding methods.
 - 2. Replacement projects of smaller subsystems will normally be funded from the capital annuity and replacement reserve. If the inclusion of the capital annuity in the annual budget would result in rate impacts that would force rates beyond pre-determined standards [Cash Reserve Guidelines, Section II.C.5-6; III, E, 9], DPU management will evaluate alternatives to total rate financing, including phasing or deferral of projects or debt financing.
 - 3. Large system replacements will be funded through debt financing. Examples of such replacements include a new wastewater treatment plant, a large segment of the

water distribution or wastewater collection system, or an electric substation. When cash reserves have already been established and are supported through rates, such as for water well replacements, those funding mechanisms for future plant replacements will be continued. This determination and funding method will be reviewed by the Board of Public Utilities and the Los Alamos County Council as part of the normal budget review process.



County of Los Alamos

Staff Report

February 24, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	8.A
Index (Council Goals):	DPU FY2021 - 1.0 Provide Safe and Reliable Utility Services
Presenters:	Jack Richardson, Deputy Utilities Manager - GWS Services
Legislative File:	13845-21

Title

Quarterly Update on Utility System - Water System

Recommended Action

No recommendation, for information only.

Staff Recommendation

None

Body

The board has requested a system assessment on a different utility each quarter. This quarter, Jack Richardson, Deputy Utilities Manager for Gas, Water and Sewer, will present an update on the water system. This year's report is similar in scope and format to previous reports; including primary performance measure dashboard data, with trends and comparisons to national standards and DPU goals (Conservation, Strategic Plan & Budget), are included. Discussion including both the physical and financial condition of the water system sub-systems: Water Distribution (DW), Water Production (WP) and Non Potable (NP) System as well as the overall Water Fund itself are reported. Also included are recent AMT (Asset Management Team) achievements and challenges and some significant planned near term future O&M Goals, Action Items and Major Projects.

The physical condition of each sub-system (DW = fair to good, WP = fair to good & NP = good) are all unchanged from last year's report. Improvements are proceeding as planned; however these types of large systems require multiple years of CIP R&R improvements before the entire system's condition can be revised upward. Additional revenue from the Profit Transfer return agreement and extremely low State loan program interest rates have enabled DPU to develop a more aggressive CIP program for both the DW & WP systems. In addition to the CIP R&R work on critical infrastructure such as well and booster station pumps & motor controls CIP R&R work on major pipelines that exhibit a history of pipeline breaks has also been initiated for the near term future.

Planned growth/expansion of the NP system is limited until the land purchase of USFS land behind Arizona Avenue is finalized so that a second Group 12 Tank can be added to the NP system.

The overall Water Fund financial condition is trending well. This is due to the continued clarity of the policy to debt finance future major WP CIP projects to balance out annual cash flow and

eliminate future single year major reductions in the cash balance reserves.

Alternatives

None

Fiscal and Staff Impact

None

Attachments

A - Water Systems Quarterly Update to BPU 2-24-2021

Quarterly Update to BPU Water Systems (DW, WP & NP)

By: Jack Richardson, PE

Deputy Utility Manager – Gas, Water, Sewer (GWS)

BPU Meeting – February 24 2021



Water Distribution Pipeline

Fuller Lodge Area – 1955 Installation

6" & 8" Cast Iron Pipeline

Water Production Pajarito Well 4

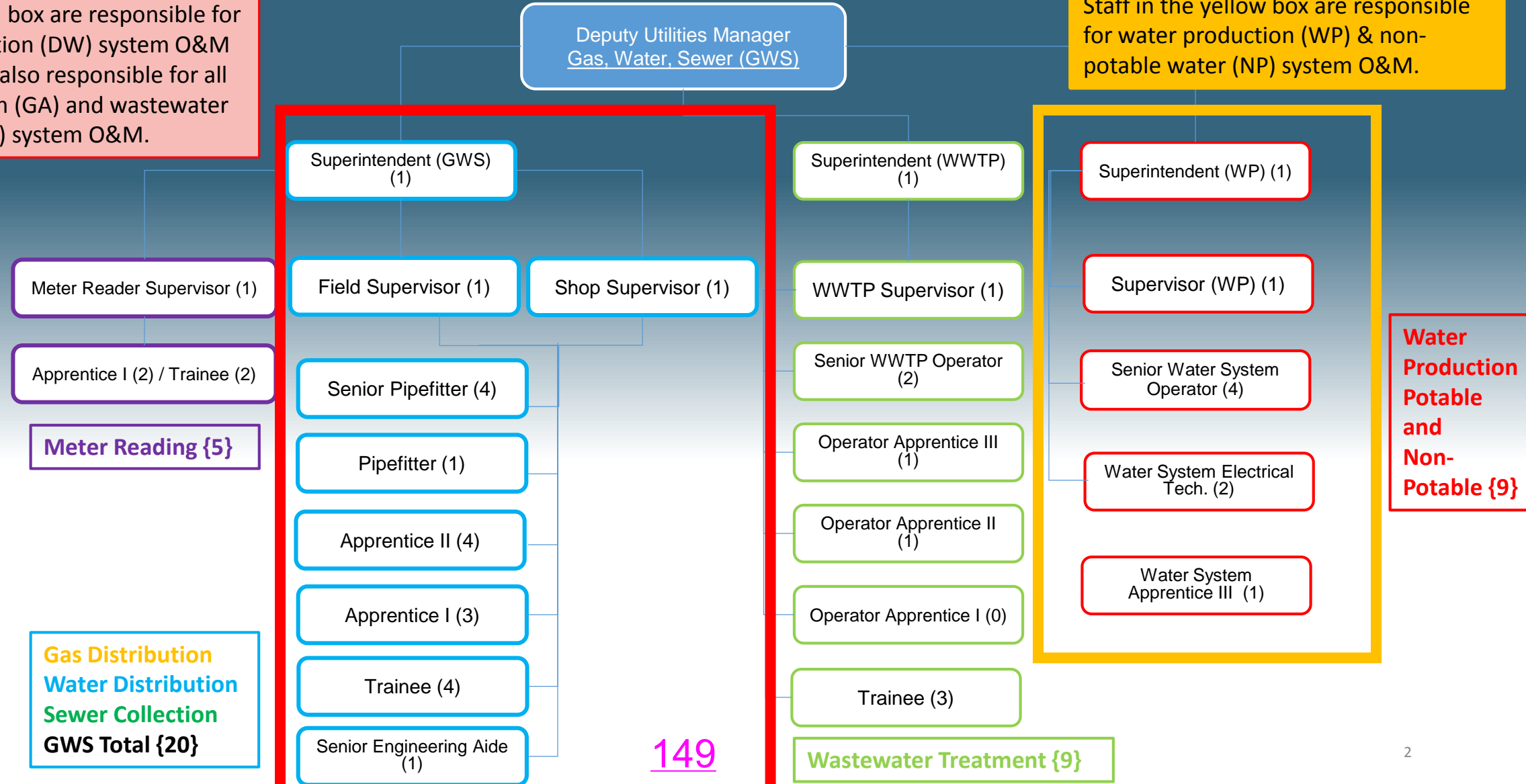
Junk Cable Fished from Bottom of Well – 2013

148 Old Gas Engine Driver at Right in Photo

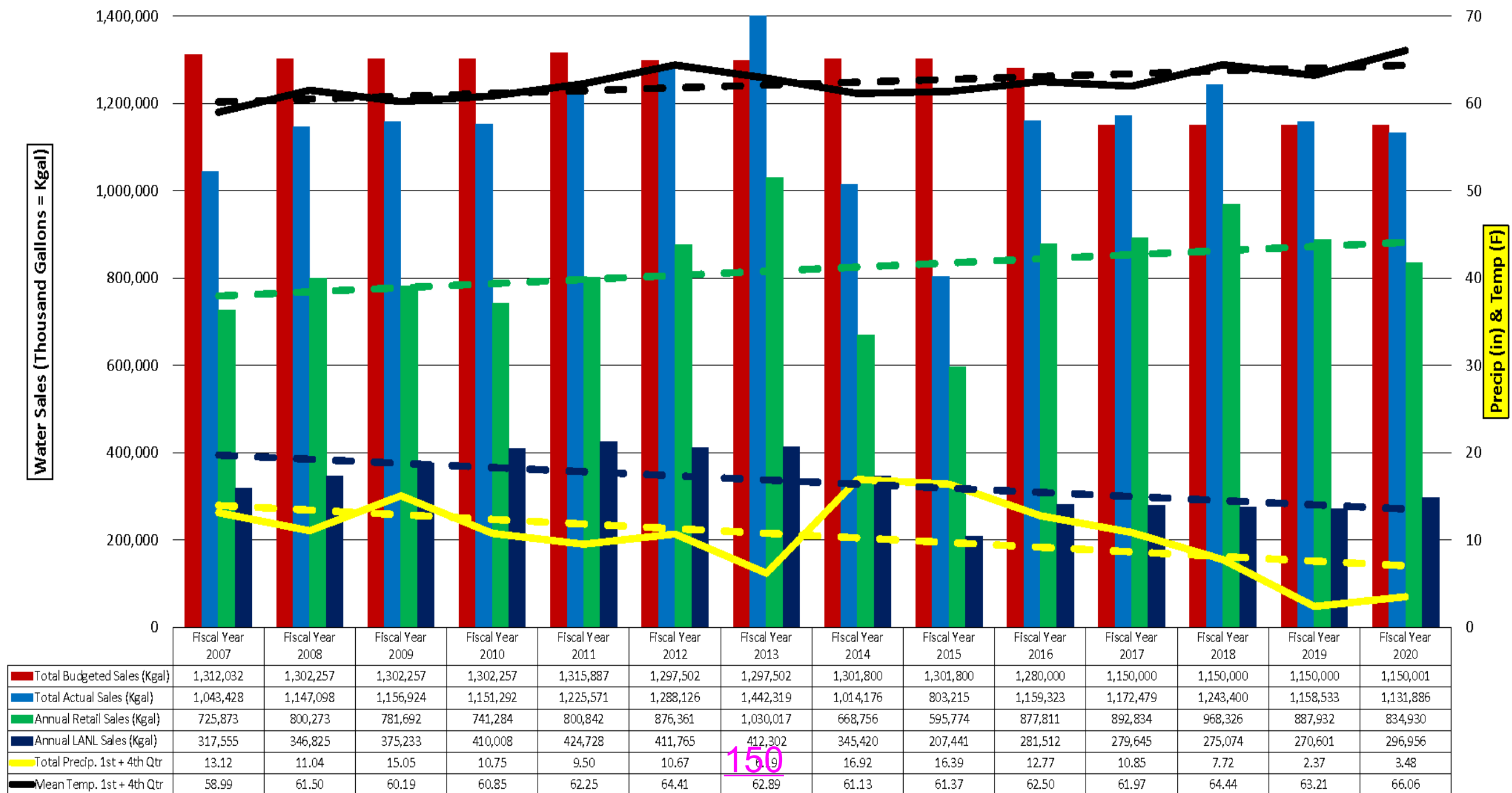
GWS ORGANIZATIONAL STRUCTURE

Staff in the red box are responsible for water distribution (DW) system O&M – but they are also responsible for all gas distribution (GA) and wastewater collection (WC) system O&M.

Staff in the yellow box are responsible for water production (WP) & non-potable water (NP) system O&M.



Retail & DOE Water Sales vs. (1st + 4th Quarter) Temperature & Precipitation



RECENT MAJOR AMT ACHIEVEMENTS

4

- **DW** – Central Park Square & 15th Street Improvements (bypassing an old leaking main line).
- **DW** – Barranca Mesa PRV Station completed in-house salvaging existing vault.
- **DW** - Backflow prevention program computer setup & reporting complete. Developing a presentation to the Utility Board.
- **DW** - Added 100 +/- new customers with new development throughout the County.
- **WP** - Otowi Well 2 Well Station & Tsankowi Chlorination System designs are complete and ready for bidding.
- **WP** - SCADA for Guaje Line auto-control programming complete and being field tested.
- **WP** – Multiple well failures endured and corrected: PW2, PW4, PW5, GW3A & GW4A.
- **NP** – Design of Overlook Park Booster Station & Bayo Booster Station Tank 2 complete and ready for bidding.

RECENT MAJOR AMT CHALLENGES

5

- **DW & WP & NP** – The COVID.
- **DW** – Failed to progress as far as desired with O&M R&R programs: Meter Change Outs, Fire Hydrants, Valves & PRV Stations.
- **DW** – Aspen School area multiple pipeline breaks.
- **WP** - Failed to progress as far as desired with O&M R&R programs: Confined Space Upgrades & Valves.
- **WP** – Otowi Well 4 discharge issue – continued sampling and negotiations with NMED ongoing.
- **WP** – Pajarito Well 4 start-up taking 6 + months longer than anticipated and losing additional wells during the high use irrigation season.
- **WP** – Powering through the multiple well failure issues and successfully supplying adequate water during the high use irrigation season.
- **NP** – No major challenges in the NP system during the past year.

FUTURE ANTICIPATED MAJOR AMT CHALLENGES

6

- **DW & WP & NP** – Continuation of the COVID.
- **DW** – AMI finally starting. Meter change outs (Water & Gas) to ensure compatibility must be completed to match contractor's schedule; including larger commercial meters.
- **DW** – Verifying unaccounted for water losses in FY20 and programming solutions, if necessary.
- **DW** – Developing a cost effective solution to failing water valves due to corrosion of bolts.
- **WP** – Emerging contaminants and future regulations: PFAS & PFOS.
- **WP** – Otowi Well 4 discharge issue – receiving NMED approval & close out.
- **WP** – DOE Issues: Chromium Plume near PW3 and shooting range access closure to PW3.
- **NP** – Incorporating the new Overlook Park Booster Station and the new Bayo Booster Station Tank into the NP SCADA system.
- **NP** – Inability to acquire USFS land above Arizona Avenue thereby effectively halting the relatively low hanging fruit for system expansion that would increase NP use and decrease potable water use to a significant degree.[153](#)

Water Distribution System Photos – 33rd Street Pipeline Break Repair (Aspen School Area)

Cut Out Broken Pipe Segment / Repaired Pipe Segment with New Ductile Iron Pipe Piece and Two Repair Couplings
Broken Pipe Constructed in 1995



Measures/Targets/Benchmarks for Tracking Water Distribution System O&M

8

❖ PRIMARY KEY ORGANIZATIONAL PERFORMANCE MEASURES

- ▶ Water Service Affordability – Based on Ave Res Monthly Bill per Median Household Income (%) – US & NM Only
- ▶ O&M Expenditures per 100 Miles of Main Pipeline (\$/ 100 Miles)
- ▶ Main Pipeline Breaks per 100 Miles of Pipeline (#/100 miles)
- ▶ Unaccounted for Water Loss (%)
- ▶ Total Gallons Purchased for Distribution (DW) vs Delivered to Distribution (DW) vs. DPU Distribution (DW) Projected Sales

❖ SECONDARY KEY ORGANIZATIONAL PERFORMANCE MEASURES

- ▶ Number of Meters Changed Out and Average Age of Meters in the DW System (# and age)
- ▶ O&M Expenditures per All Accounts (\$/ Account)
- ▶ Cost of Water per All Accounts (\$ / Account)
- ▶ CIP Expenditures per All Accounts (\$ / Account)
- ▶ Planned Maintenance as a Percent of Total Maintenance (planned maint. hours/planned + corrective maint. hours) (%)
- ▶ System Renewal and Replacement (CIP Expenditures for R&R/Total Present Worth of Gas System) (%)

❖ PERFORMANCE MEASURES WITH TARGETS OR BENCHMARKS

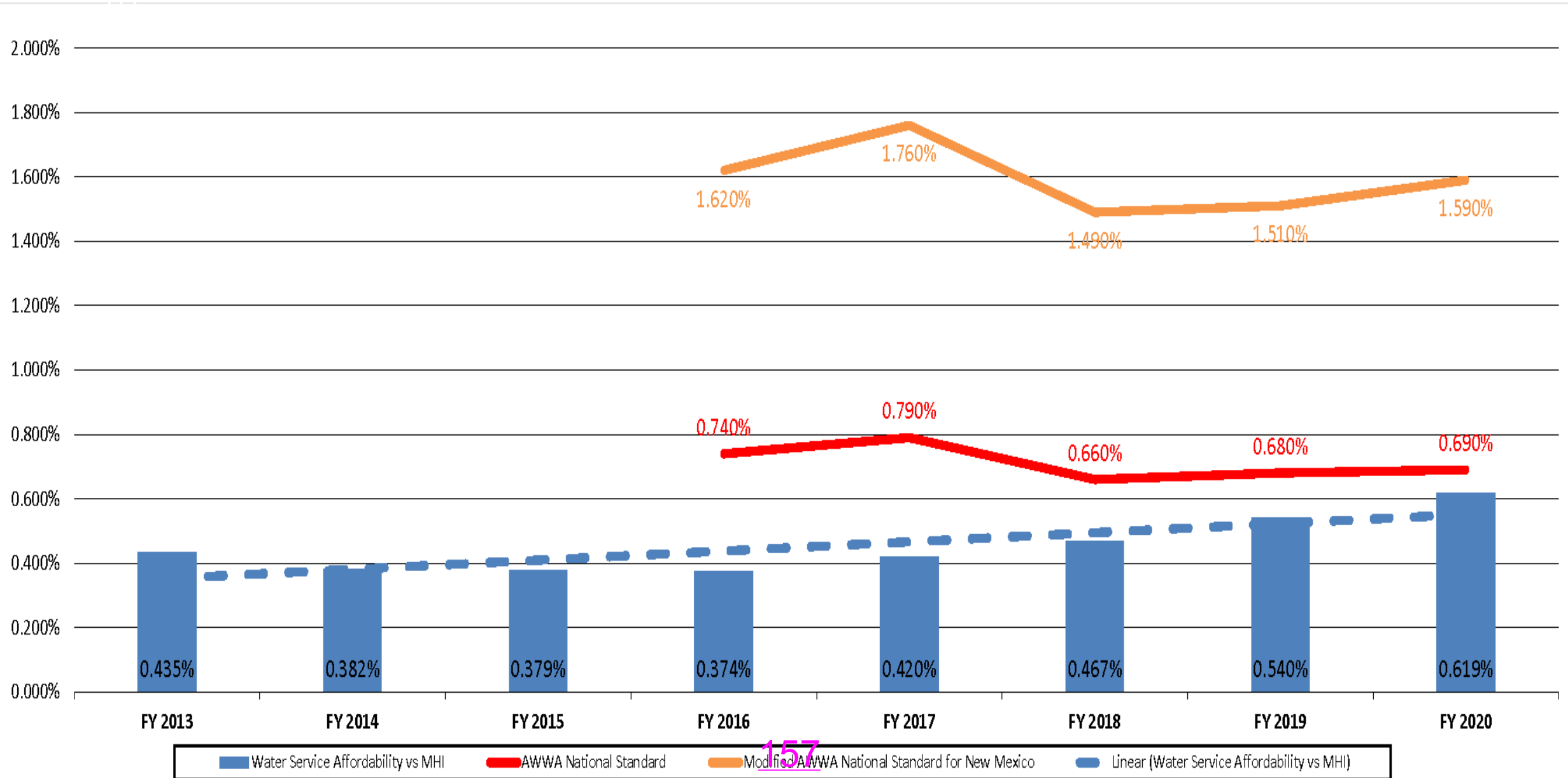
- ▶ Performance Measures with known National Standards for system comparison are in GREEN (Typically AWWA standards)
- ▶ Performance Measures with a DPU Strategic Plan or Conservation Plan Goal are in MAGENTA
- ▶ Performance Measures with both a DPU Strategic Plan or Conservation Plan Goal and a National Standard comparable goal are in CYAN
- ▶ Measures are collected and reviewed monthly via a 12 month moving average graph. Annual FY performance measures data is transferred from the annual data sets to a multi-year data set for year over year / multi-year comparison

DW – DASHBOARD ANALYSES

- Summary of Primary Performance Measures for Water Distribution.
 - **DW-1: Water Service Affordability** – Trending upward (more expensive per Median Household Income) due to recent series of rate increases. Excellent comparison to national and state standards.
 - **DW-2: O&M Expenditures per 100 Miles Main Pipeline** - Good 8-year trend downward. Significantly above national standard – but improving.
 - **DW-3: Breaks per 100 Miles Main Pipeline** - Good 8-year trend downward. Significantly above national standard – but improving.
 - **DW-4: Unaccounted for Water Loss** - Trend line difficult to assess due to FY14 negative value. Good comparison to national standard. Trending toward DPU Conservation Goal. Need to verify if FY20 is a single outlier similar to FY14.
 - **DW-5: Gallons Purchased vs Gallons Delivered** - Projected sales now better in line with actual sales. [156](#)

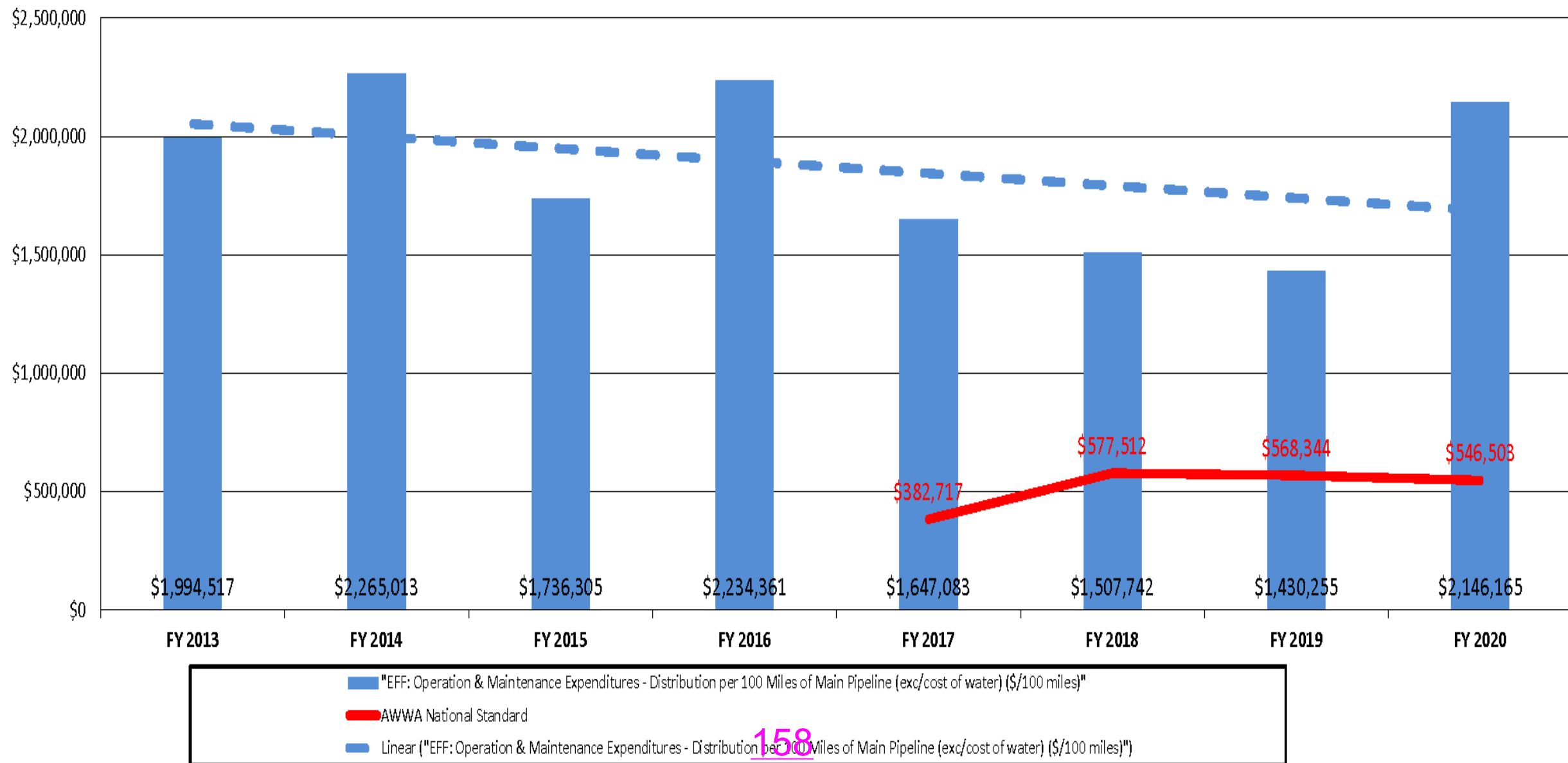
Water Distribution – Primary Key Organizational Performance Measure

DW-1 / WATER SERVICE AFFORDABILITY - AVERAGE RESIDENTIAL ANNUAL WATER BILL AS A PERCENTAGE OF MEDIAN HOUSEHOLD INCOME (%) / SG 2.0 & SO 2.1



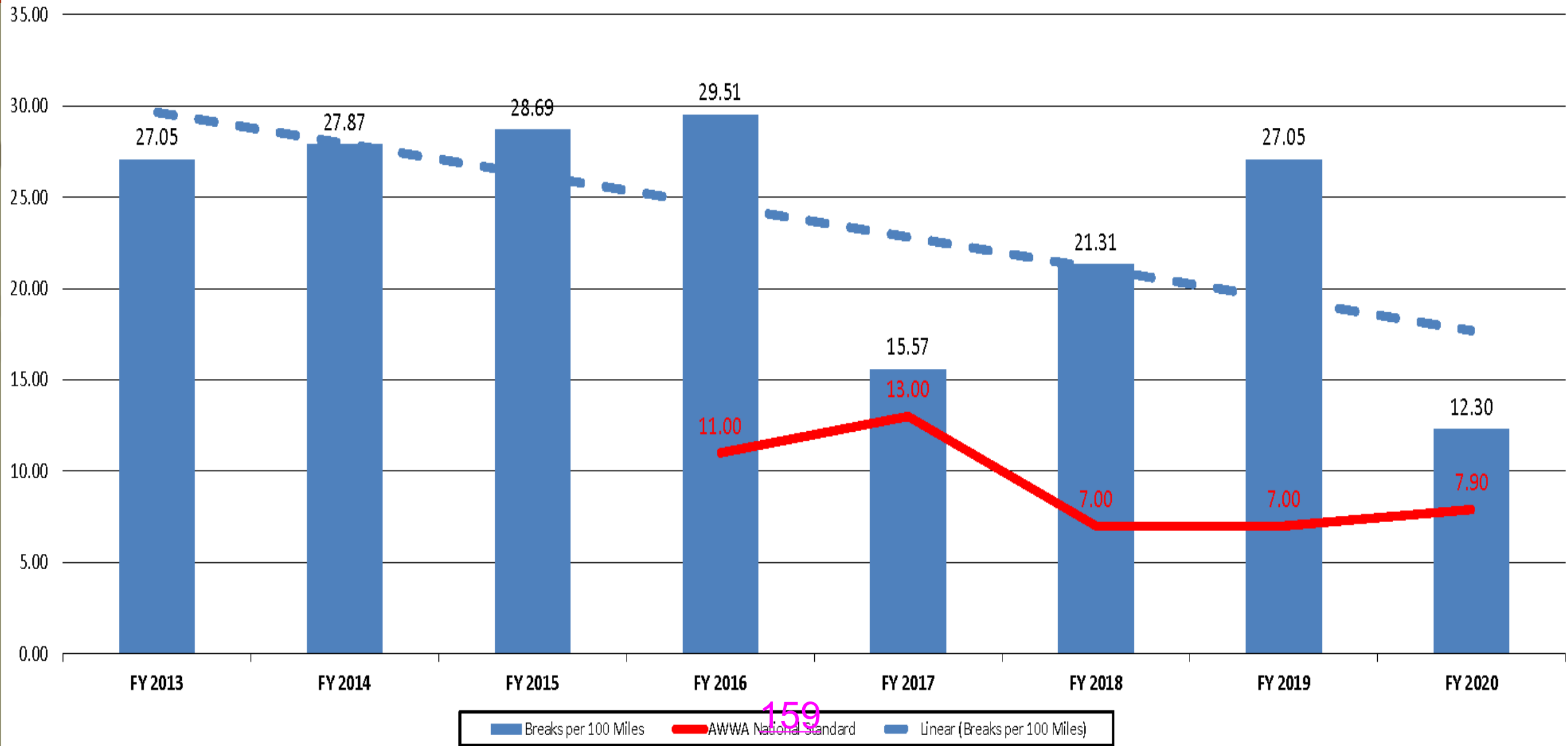
Water Distribution – Primary Key Organizational Performance Measure

DW-2 / OPERATION & MAINTENANCE EXPENDITURES (EXC/ COST OF WATER) PER 100 MILES OF MAIN PIPELINE - DISTRIBUTION (\$/100 MILES) / SG 1.0 & SO 1.1



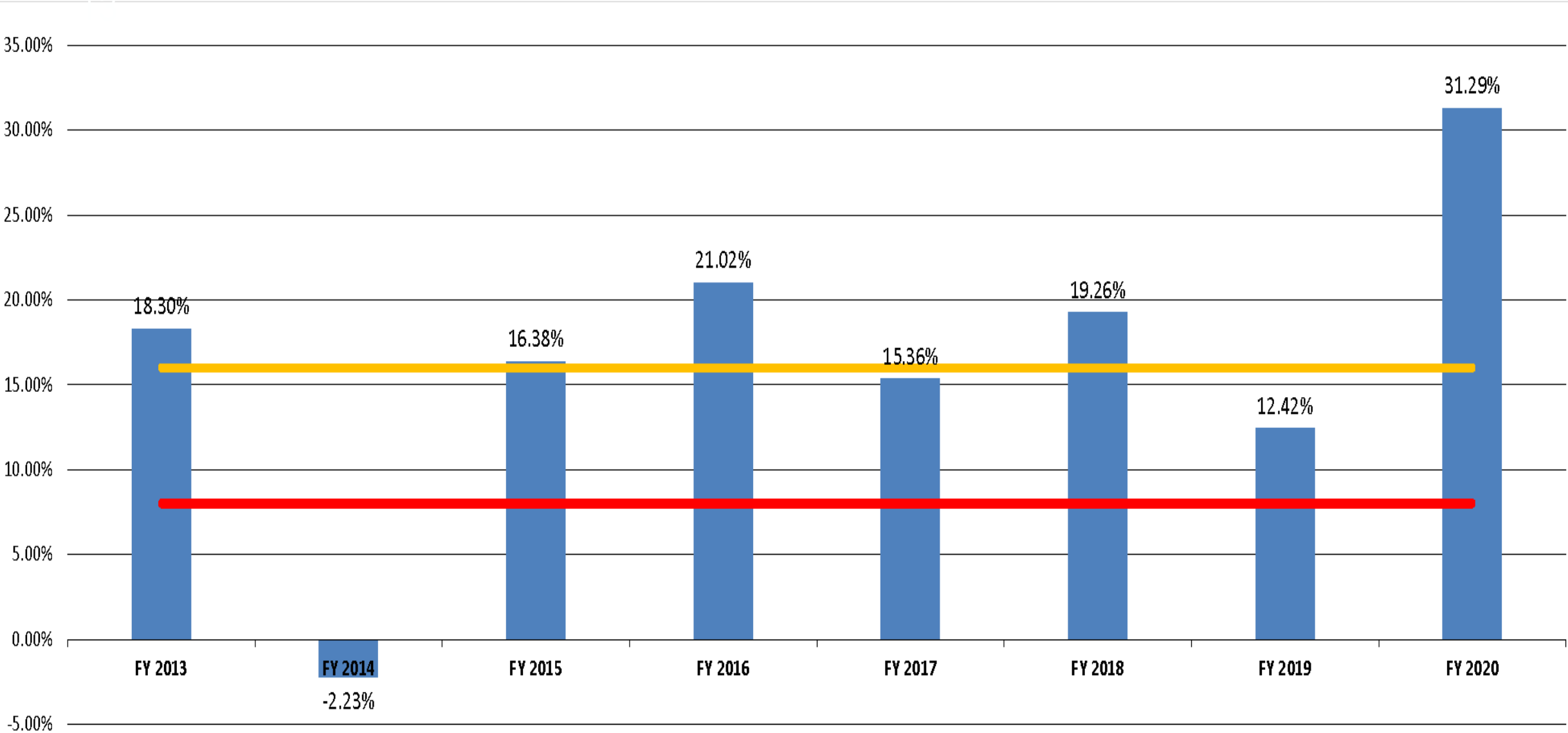
Water Distribution – Primary Key Organizational Performance Measure

DW-3 / WATER DISTRIBUTION MAIN BREAKS PER 100 MILES MAIN PIPELINE (BREAKS/100 MILES) / SG 1.0 & SO 1.1



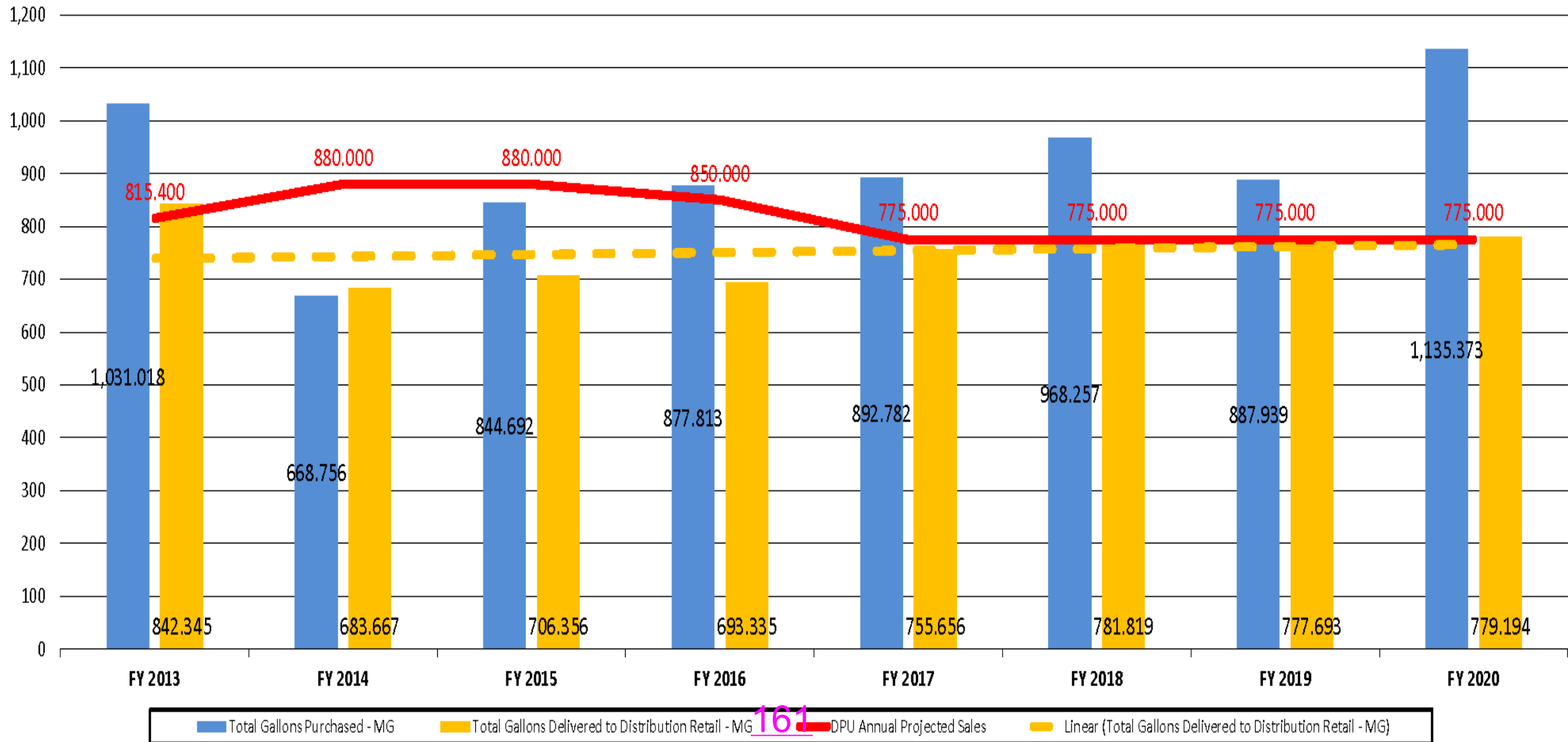
Water Distribution – Primary Key Organizational Performance Measure

DW-4 / UNACCOUNTED FOR WATER LOSS (%) / SG 5.0 & SO 5.2



Water Distribution – Primary Key Organizational Performance Measure

DW-5 / GALLONS PURCHASED FOR DISTRIBUTION VERSUS DELIVERED TO DISTRIBUTION - MILLION GALLONS (MG) / SG 1.0 & SO 1.1



- The current physical condition of the water distribution system overall is fair to good.
- Past two years the physical condition was also rated fair to good.
- Known portions in poor condition: PRV station condition and deteriorated pipelines that have been in the ground for 50 to 60 years. Profit Transfer funding agreement will accelerate the re-start of DW CIP pipeline R&R projects.
- Greatest weakness = PRV Station valve & pipe condition due to excessive rust. GWS crews have developed a PRV Station R&R program. Later half of FY21 & FY22 are anticipated to regain momentum on this program.
- Meter change out program is now concentrating on AML start up; including larger commercial and residential meters.
- The GIS upgrade project, with the anticipated condition assessment reporting, is still on schedule to be completed at the close of FY21.

Water Production System Photos – DOE Shooting Range Booster Station
Mismatched Pumps / Mismatched PVC & Galvanized Steel Pipe with Wrapped Insulation
Redundant Meters (1 not functional) / No Station Heater / Constructed in 1995



❖ PRIMARY KEY ORGANIZATIONAL PERFORMANCE MEASURES

- ▶ Percent Number of Days in Full Compliance (%)
- ▶ O&M Expenditures per Million Gallons Produced (\$/MG)
- ▶ Main Pipeline Breaks per 100 Miles of Pipeline (#/100 miles)
- ▶ Energy Consumption per Million Gallons Potable Water Produced (kWh/MG)
- ▶ Gallons per Capita Daily Water Produced (GPCD)
- ▶ Total Gallons Produced vs DPU Projected Sales

❖ SECONDARY KEY ORGANIZATIONAL PERFORMANCE MEASURES

- ▶ Energy Consumption per Million Gallons Produced (kWhr/MG)
- ▶ Planned Maintenance as a Percent of Total Maintenance (planned maint. hours/planned + corrective maint. hours) (%)
- ▶ System Renewal and Replacement (CIP Expenditures for R&R/Total Present Worth of Gas System) (%)

❖ PERFORMANCE MEASURES WITH TARGETS OR BENCHMARKS

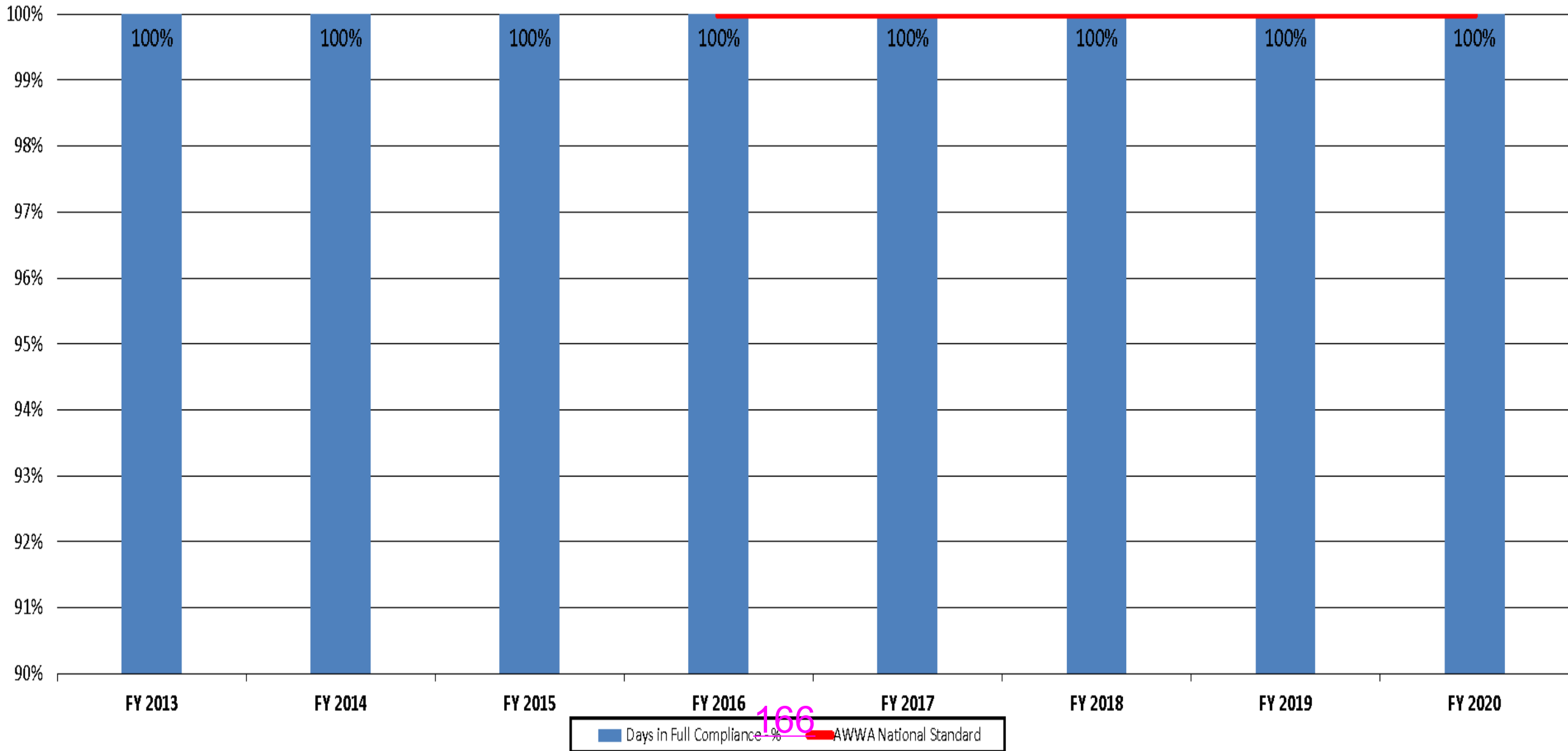
- ▶ Performance Measures with known National Standards for system comparison are in GREEN (Typically AWWA standards)
- ▶ Performance Measures with a DPU Strategic Plan or Conservation Plan Goal are in MAGENTA
- ▶ Performance Measures with both a DPU Strategic Plan or Conservation Plan Goal and a National Standard comparable goal are in CYAN
- ▶ Measures are collected and reviewed monthly via a 12 month moving average graph. Annual FY performance measures data is transferred from the annual data sets to a multi-year data set for year over year / multi-year comparison.

WP – DASHBOARD ANALYSES

- Summary of Primary Performance Measures for Water Production.
 - **WP-1: Drinking Water Compliance** – Outstanding long term historic compliance record.
 - **WP-2: O&M Expenditures per MG Produced** - Good 8-year trend downward. FY19 may be a single outlier.
 - **WP-3: Breaks per 100 Miles Main Pipeline** – Poor 4-year trend. Difficult to meet National Standard due to only having 45 miles of main in the WP system.
 - **WP-4: Gallons per Capita per Day (GPCD)** - GPCD Goals re-established between FY16 & FY17 and set to be re-established again in FY21 & FY22. Long term trend is slightly upward while long term trends for national standard and DPU conservation goal is slightly downward.
 - **WP-5: Potable Water Produced** - Projected sales now better in line with actual sales.

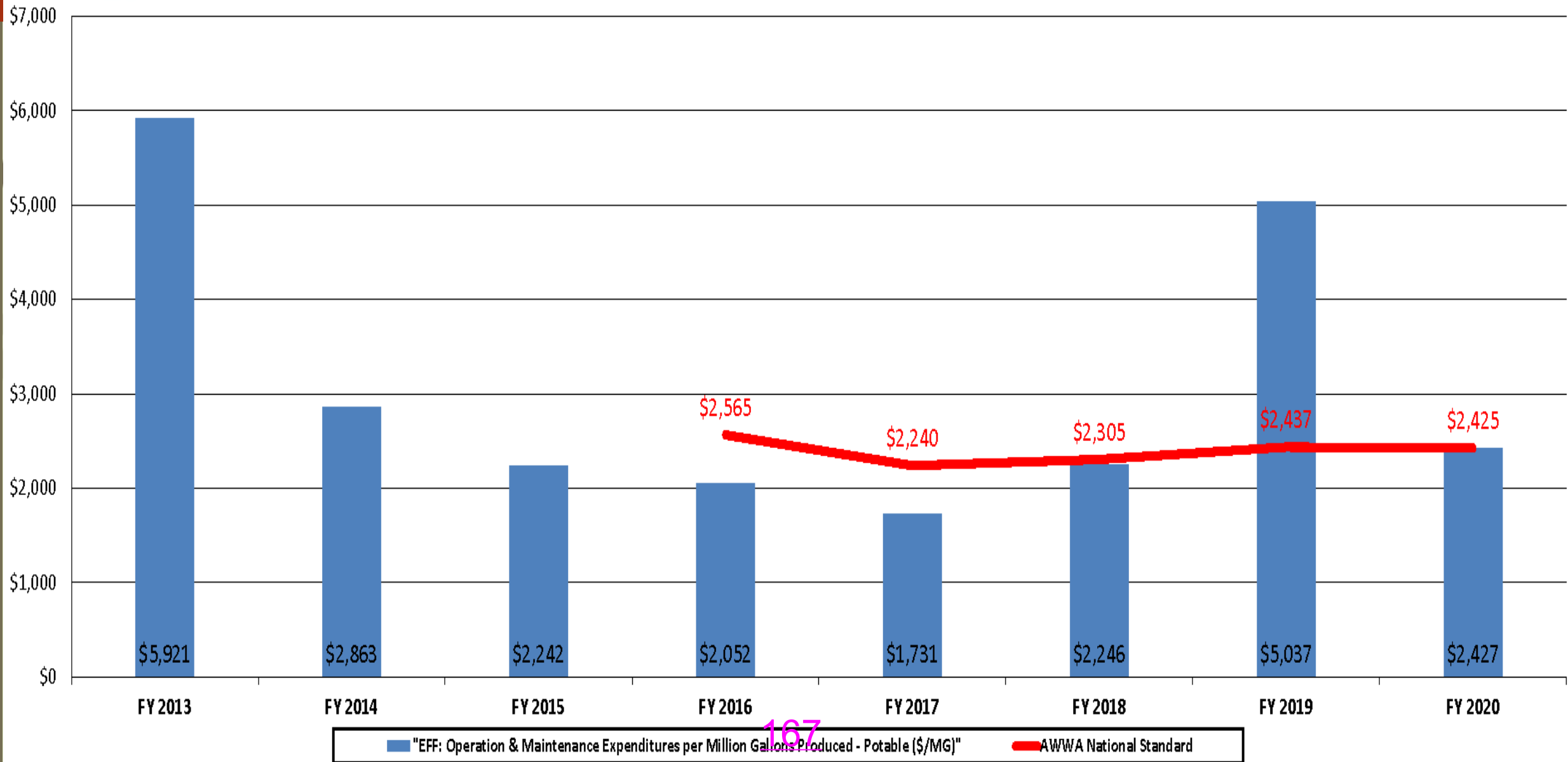
Water Production – Primary Key Organizational Performance Measure

WP-1 / DRINKING WATER COMPLIANCE - NUMBER OF DAYS IN FULL COMPLIANCE AS A PERCENTAGE OF NUMBER OF DAYS IN COMPLIANCE PERIOD (%) / SG 1.0 & SO 1.1



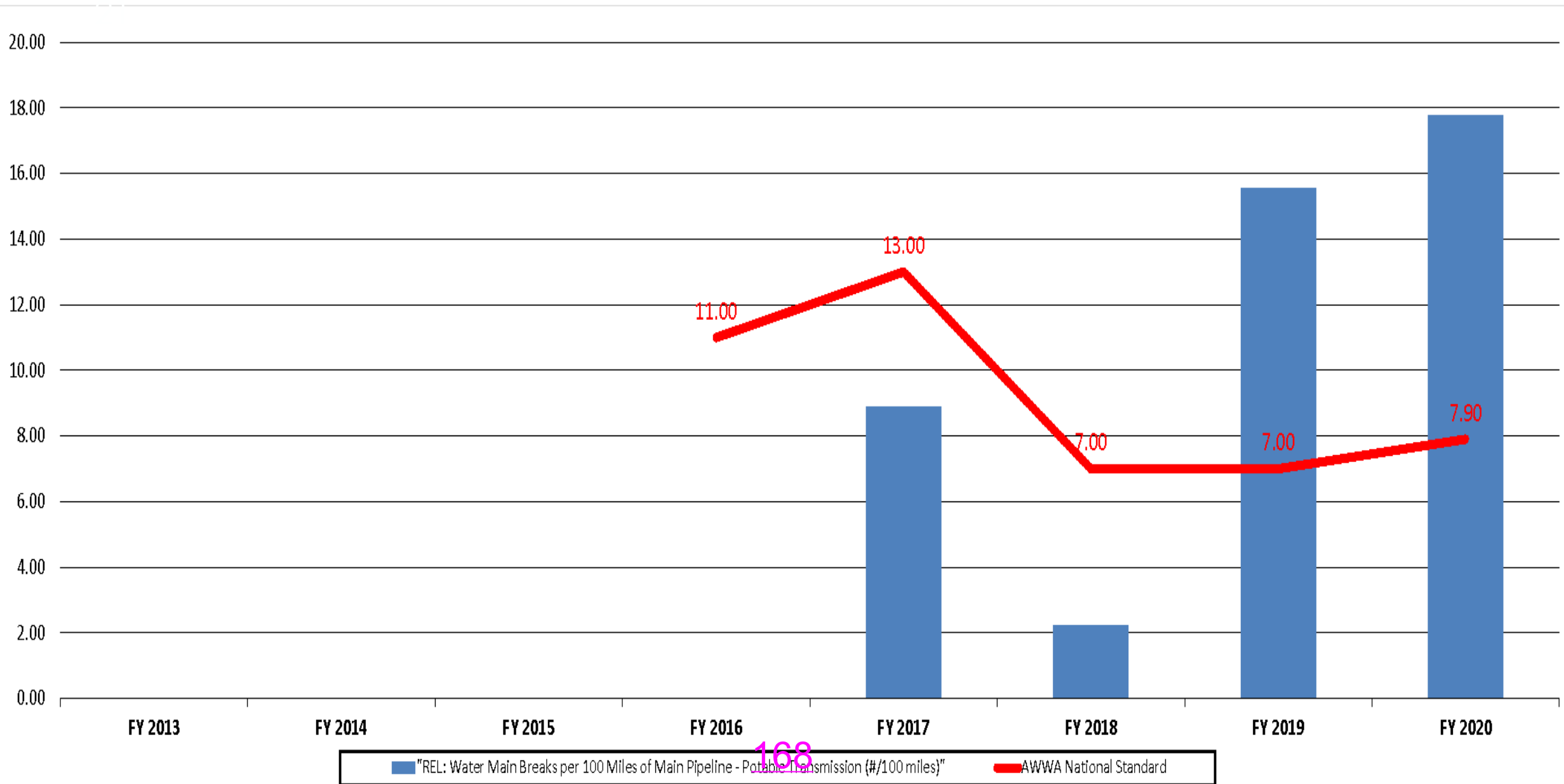
Water Production – Primary Key Organizational Performance Measure

WP-2 / O&M EXPENDITURES PER MILLION GALLONS PRODUCED (\$/MG) / SG 2.0 & SO 2.1



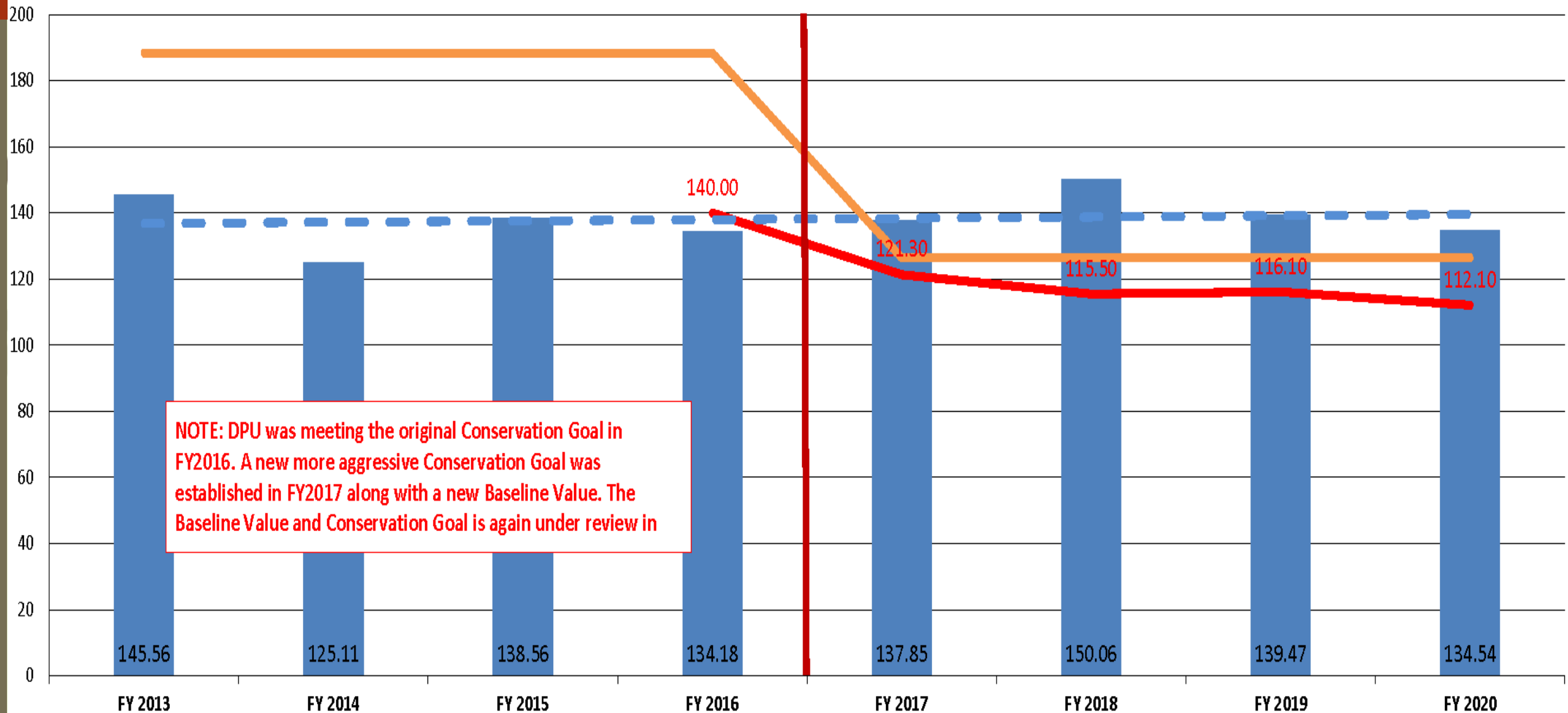
Water Production – Primary Key Organizational Performance Measure

WP-3 / WATER TRANSMISSION MAIN BREAKS PER 100 MILES MAIN PIPELINE (BREAKS/100 MILES)



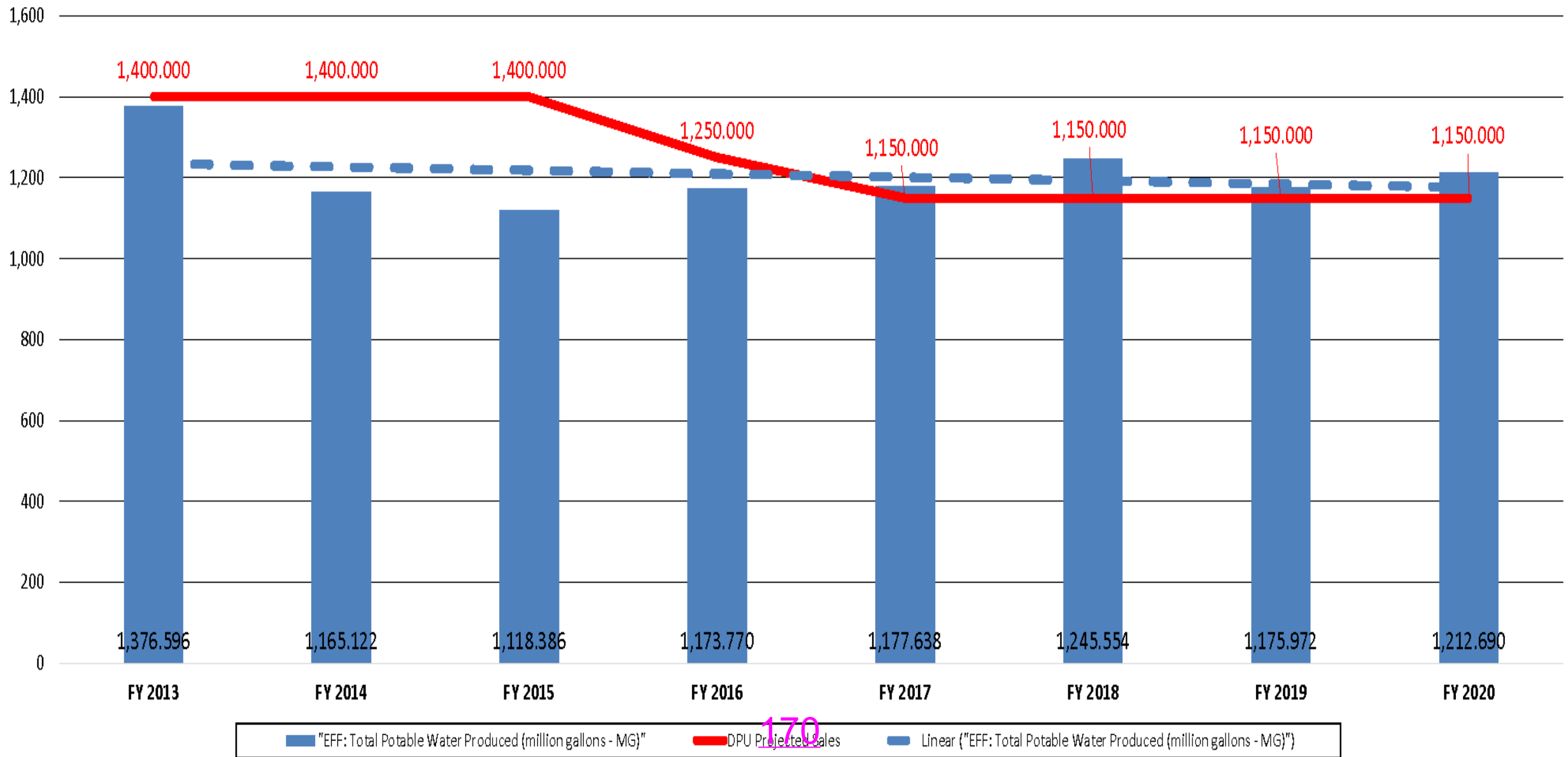
Water Production – Primary Key Organizational Performance Measure

WP-4 / GALLONS PER CAPITA PER DAY (GPCD) / SG 5.0 & SO 5.3



Water Production – Primary Key Organizational Performance Measure

WP-5 / POTABLE WATER PRODUCED - MILLION GALLONS (MG) / SG 1.0 & SO 1.1



- The current physical condition of the water production system overall is fair to good.
- Past two years the physical condition was also rated fair to good.
- Known portions in poor condition: storage tanks needing R&R, GW1A well failure and aged pipelines that have been in the ground for 50 to 60 years. Current 10-year CIP Plan rehabilitates the top 11 priority tanks, constructs a new tank, gets wells OW1, OW2 and GW1B on line and R&R's 4 high priority pipelines with a significant history of breaks.
- Greatest weakness = the age of the well and booster station pumps, control valves and control systems. DPU has temporarily lost the use of 7 wells for a period of time over the past 4 years. Adding OW2 & OW1 wells on-line for the first time in FY22, and getting GW1B on-line in FY23, will help to reinforce against this weakness. Also, WP is initiating a system wide investigation/prioritization of control valves and power & electrical control components.
- The GIS upgrade project, with the anticipated condition assessment reporting, is still on schedule to be completed at the close of FY21.

Non-Potable System Photos – Overlook Park Area
Overlook Park Booster Station / Overlook Park NP (Effluent) Pond
Constructed in 1982



❖ PRIMARY KEY ORGANIZATIONAL PERFORMANCE MEASURES

- ▶ O&M Expenditures per Million Gallons Produced & Distributed (\$/MG)
- ▶ Main Pipeline Breaks per 100 Miles of Pipeline (#/100 miles)
- ▶ Gallons per Capita Daily Water Produced (GPCD)
- ▶ Total Gallons Produced & Distributed vs DPU Projected Sales

❖ SECONDARY KEY ORGANIZATIONAL PERFORMANCE MEASURES

- ▶ Percent Gallons to Reuse vs Gallons Treated (%) – White Rock WWTP & LA WWTP
- ▶ Energy Consumption per Million Gallons Produced & Distributed (kWhr/MG)
- ▶ Planned Maintenance as a Percent of Total Maintenance (planned maint. hours/planned + corrective maint. hours) (%)
- ▶ System Renewal and Replacement (CIP Expenditures for R&R/Total Present Worth of Gas System) (%)

❖ PERFORMANCE MEASURES WITH TARGETS OR BENCHMARKS

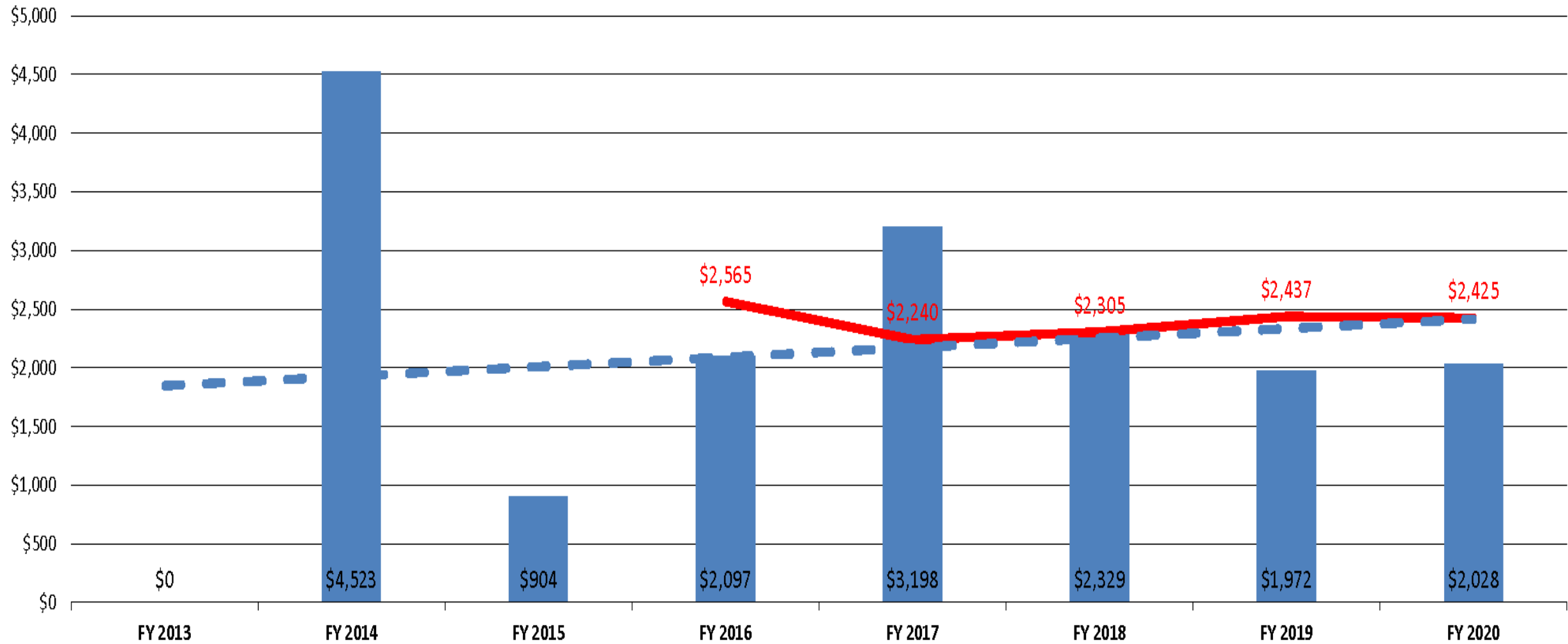
- ▶ National Standard Performance Measures for Potable systems accepted as viable for NP system comparison (AWWA)
- ▶ Performance Measures with a DPU Strategic Plan or Conservation Plan Goal are in Magenta
- ▶ Performance Measures with both a DPU Strategic Plan or Conservation Plan Goal and a National Standard comparable goal are in CYAN
- ▶ Measures are collected and reviewed monthly via a 12 month moving average graph. Annual FY performance measures data is transferred from the annual data sets to a multi-year data set for year over year / multi-year comparison

NP – DASHBOARD ANALYSES

- Summary of Primary Performance Measures for NP System.
 - **NP-1: O&M Expenditures per MG** – 7-year trend, accounting for the lack of data in FY13, is good over the last 5 years (early data may be considered outliers). Current good comparison to national standard for potable water distribution systems.
 - **NP-2: Breaks per 100 Miles Main Pipeline** - Limited early data. Recent trend is in a good direction. FY19 & FY20 experienced a good comparison value to national standard for potable water distribution systems. Difficult to meet National Standard due to only having 14 miles of main in the NP system.
 - **NP-3: Gallons per Capita per Day (GPCD)** – 8-year trend is upward – which for effluent reuse is good.
 - **NP-4: NP Water Produced** - Projected sales compare well to actual sales. Weather dependent variable – 174 long term trend is positive.

NP System – Primary Key Organizational Performance Measure

NP-1 / OPERATION & MAINTENANCE EXPENDITURES PER MILLION GALLONS PRODUCED & DISTRIBUTED (\$/MG) / SG 1.0 & SO 1.1



■ "EFF: Operation & Maintenance Expenditures per Million Gallons of Non Potable Water Produced & Distributed (\$/MG)"

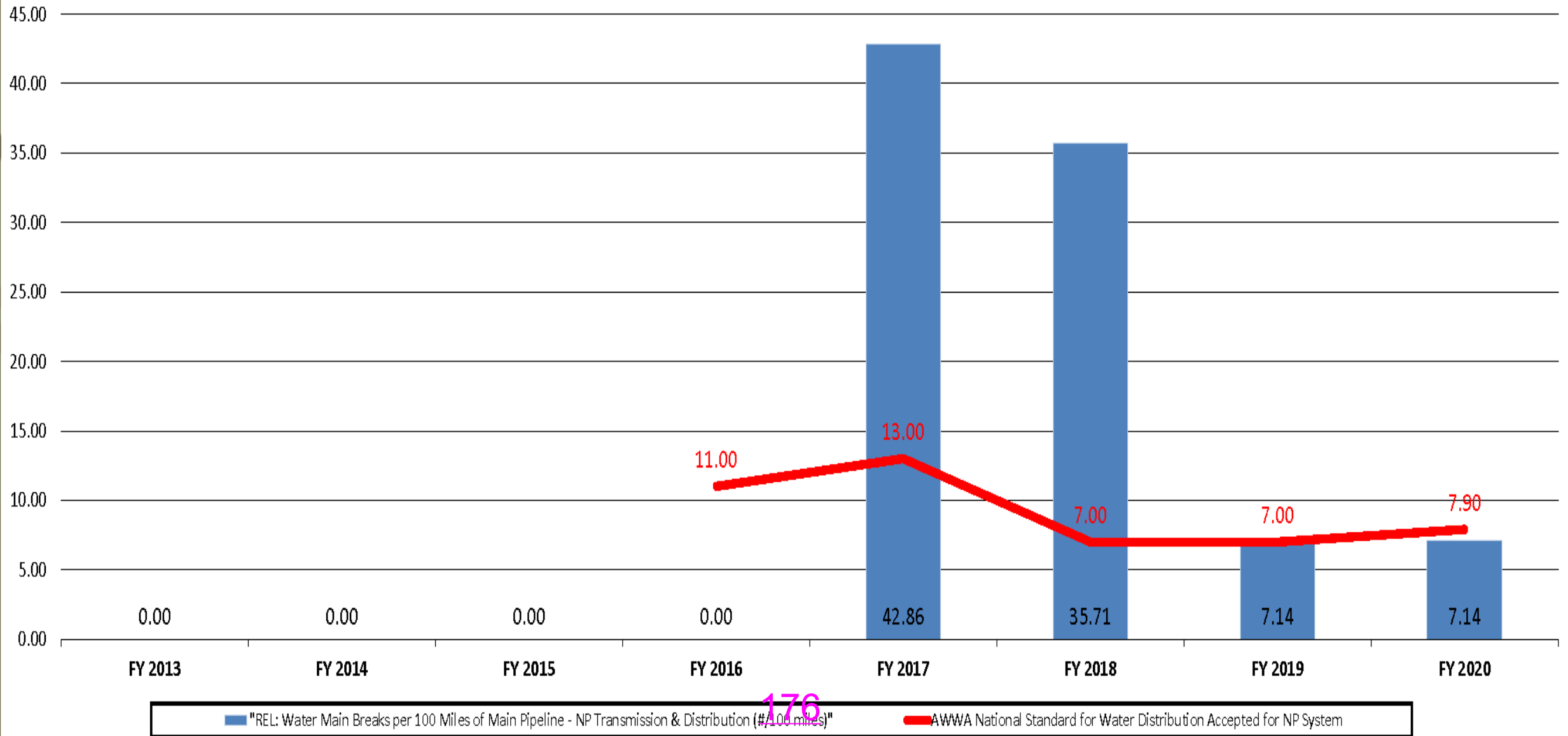
— AWWA National Standard for Water Distribution Accepted for NP System

--- Linear ("EFF: Operation & Maintenance Expenditures per Million Gallons of Non Potable Water Produced & Distributed (\$/MG)")

175

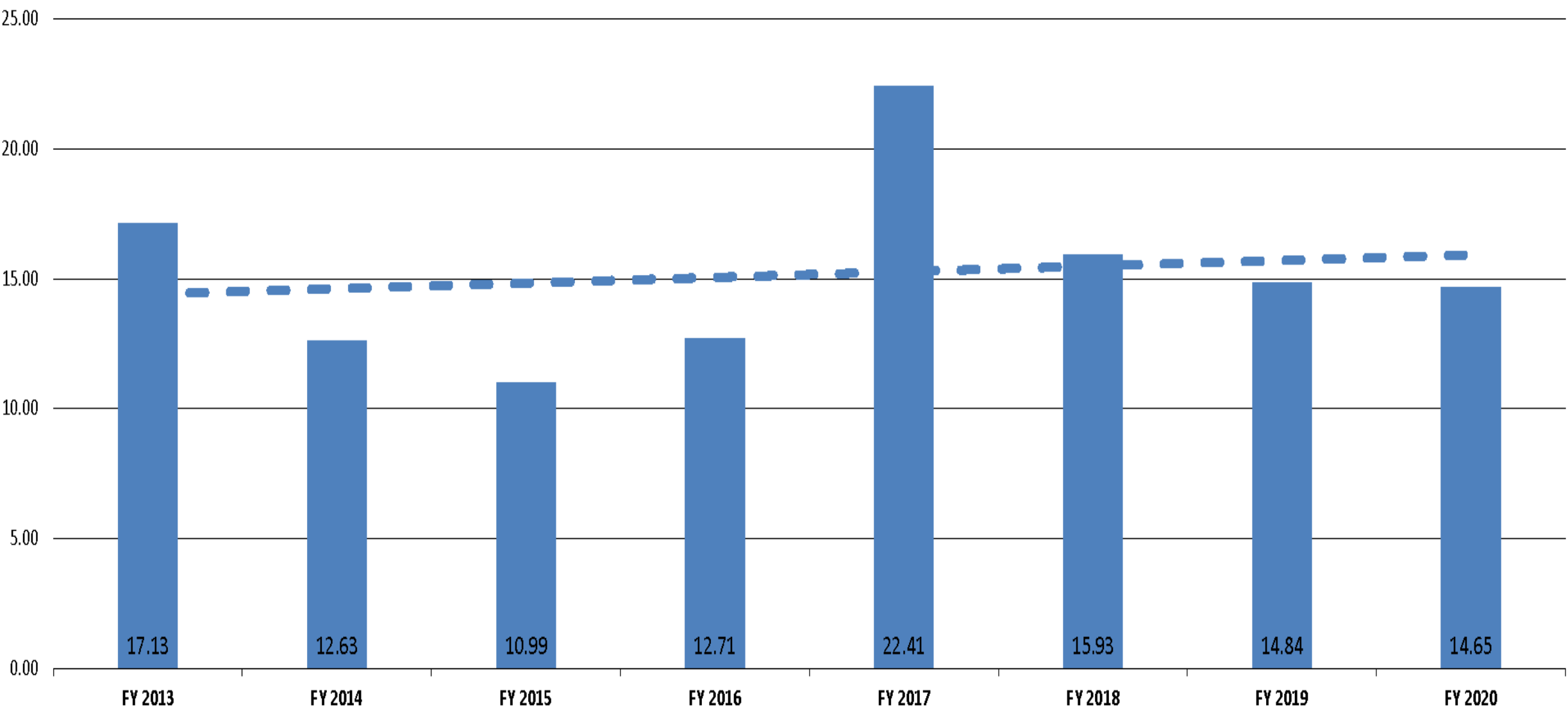
NP System – Primary Key Organizational Performance Measure

NP-2 / BREAKS PER 100 MILES OF MAIN PIPELINE (BREAKS/100 MILES) / SG 1.0 & SO 1.1



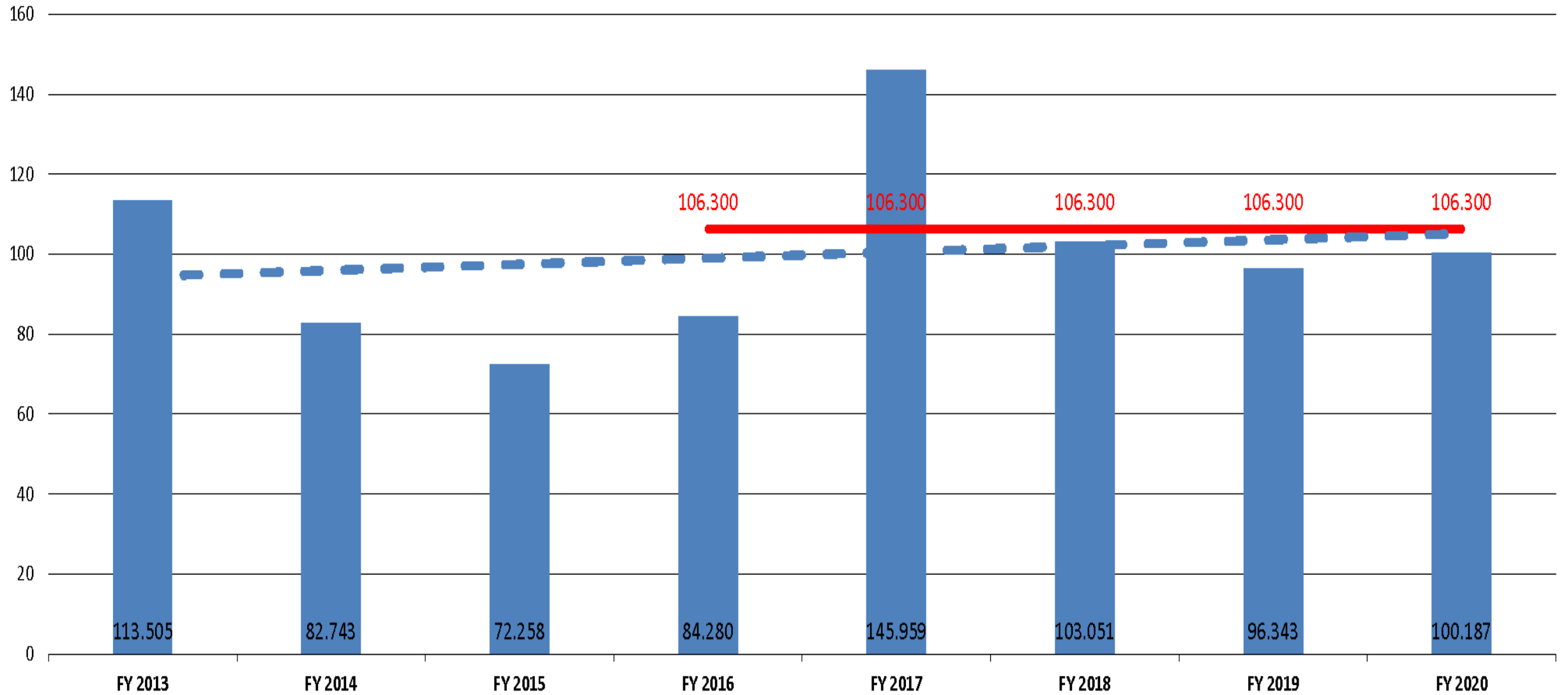
NP System – Primary Key Organizational Performance Measure

NP-3 / GALLONS PER CAPITA PER DAY (GPCD) / SG 5.0 & SO 5.1



NP System – Primary Key Organizational Performance Measure

NP-4 / NON POTABLE WATER PRODUCED & DISTRIBUTED - MILLION GALLONS (MG) / SG 1.0 & SO 1.1



■ "EFF: Total Non Potable Water Produced & Distributed (million gallons - MG)"

■ DPU Projected Sales

■ Linear ("EFF: Total Non Potable Water Produced & Distributed (million gallons - MG)")

- The current physical condition of the NP water system overall is good.
- Past two years the physical condition was also rated good.
- Known poor infrastructure: the irrigation pump station at Overlook Park and the older pipeline segments inherited from previous owners (golf course & parks).
- Greatest weakness = Overlook Park Irrigation Pump Station. Replacement station design is complete with start up of new station scheduled in time for the irrigation season of 2022. New station will be able to serve other White Rock customers besides just Overlook Park.
- The LA Reservoir pipeline FY19 wash out damage was temporarily repaired. A new grant proposal is being developed to again attempt a final solution to this issue.
- Major Issue = Delay in USFS property purchase that would accommodate the addition of a second Group 12 Tank which would enable a major expansion of the NP system throughout the Town Site area.

Water Breaks & CIP Projects List

33

❖ DW - North Mesa & Barranca Mesa Areas

- ▶ 1 = FY22 / Alamo & Capulin - \$732k / Regular CIP & Public Works Road Related
- ▶ 2 = FY23 & FY24 / North Mesa Distribution Upgrades – Phases 1 & 2 - \$450k & \$465K / Regular CIP & Development Related

❖ DW - North Community Area

- ▶ 3 = FY21 / 33rd & 34th Street – Aspen School Area - Phase 1 - \$439k / Regular CIP & Public Works Road Related
- ▶ 4 = FY26 thru FY28 / Aspen School Area – Phases 2 thru 4 - \$515k & \$535k & \$550k / Regular CIP & PW Road Related
- ▶ 5 = NP System FY16 WTB CIP Project Warranty Repairs & Older Parks Transfer Pipeline Break O&M Repaired
- ▶ 6 = Sycamore Area Majority Breaks are Construction Damage Related – No CIP Proposed at this Time

❖ DW - Western Area

- ▶ 7 = FY13 – FY17 / Western Area - Phases 1 thru 5 - \$2M / Regular CIP & Public Works Road Related
- ▶ 8 = FY15 / Canyon Road Apts. Waterline R&R - \$150k / Regular CIP
- ▶ 9 = FY18 / Denver Steel Area – Phase 1 - \$500k / Regular CIP & Public Works Road Related
- ▶ 10 = FY24 & FY25 / Denver Steel Area - Phases 2 & 3 - \$768k & \$600k / Profit Transfer CIP & Public Works Road Related
- ▶ 11 = FY22 / Canyon Road - \$254k / Profit Transfer CIP & Public Works Road Related
- ▶ 12 = FY25 / Fairway - \$553k / Regular CIP & Public Works Road Related

❖ DW - Trinity & Central Area

- ❖ 13 = FY23 33rd & 34th (Eastern Area Phase 1) - \$1.106M / Profit Transfer CIP & Public Works Road Related
- ❖ 14 = FY21 thru FY23 / DP Road Utilities 1 thru 3 - \$950k / Development CIP & Public Works Road Related
- ❖ 15 = FY23 / Central Avenue - \$250k / Profit Transfer CIP & Public Works Road Related
- ❖ 16 = FY29 thru FY31 / Eastern Area – Phases 2 thru 4 - \$537k & \$553k & \$570k – Regular CIP

❖ DW - White Rock Area

- ▶ 17 = FY17 / Library Improvements - \$150k +/- / O&M Funds & Development Related

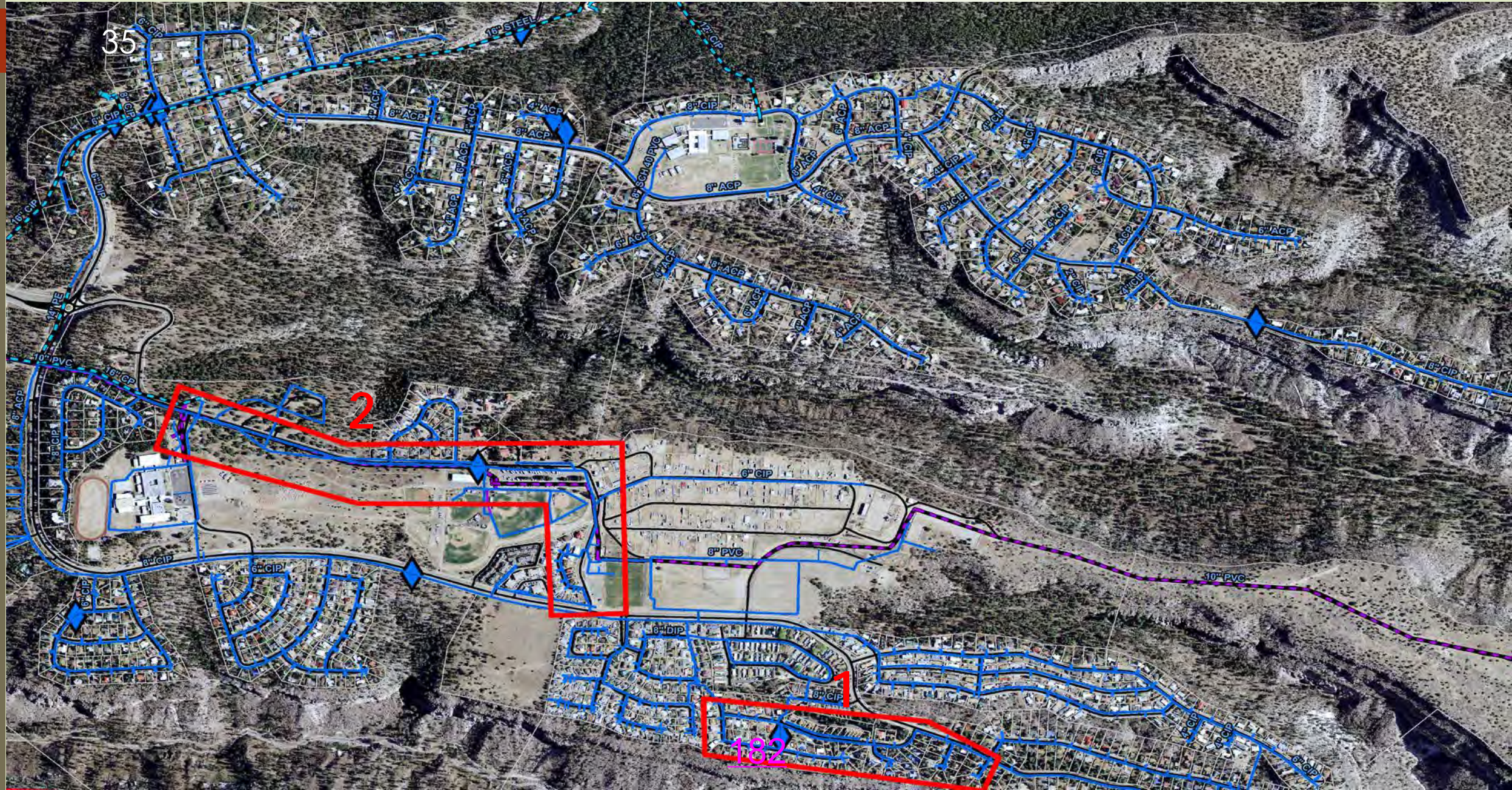
❖ WP - Down Town Los Alamos Area

- ▶ 18 = FY25 / Townsite 14" Pipeline R&R - \$4M / Regular CIP

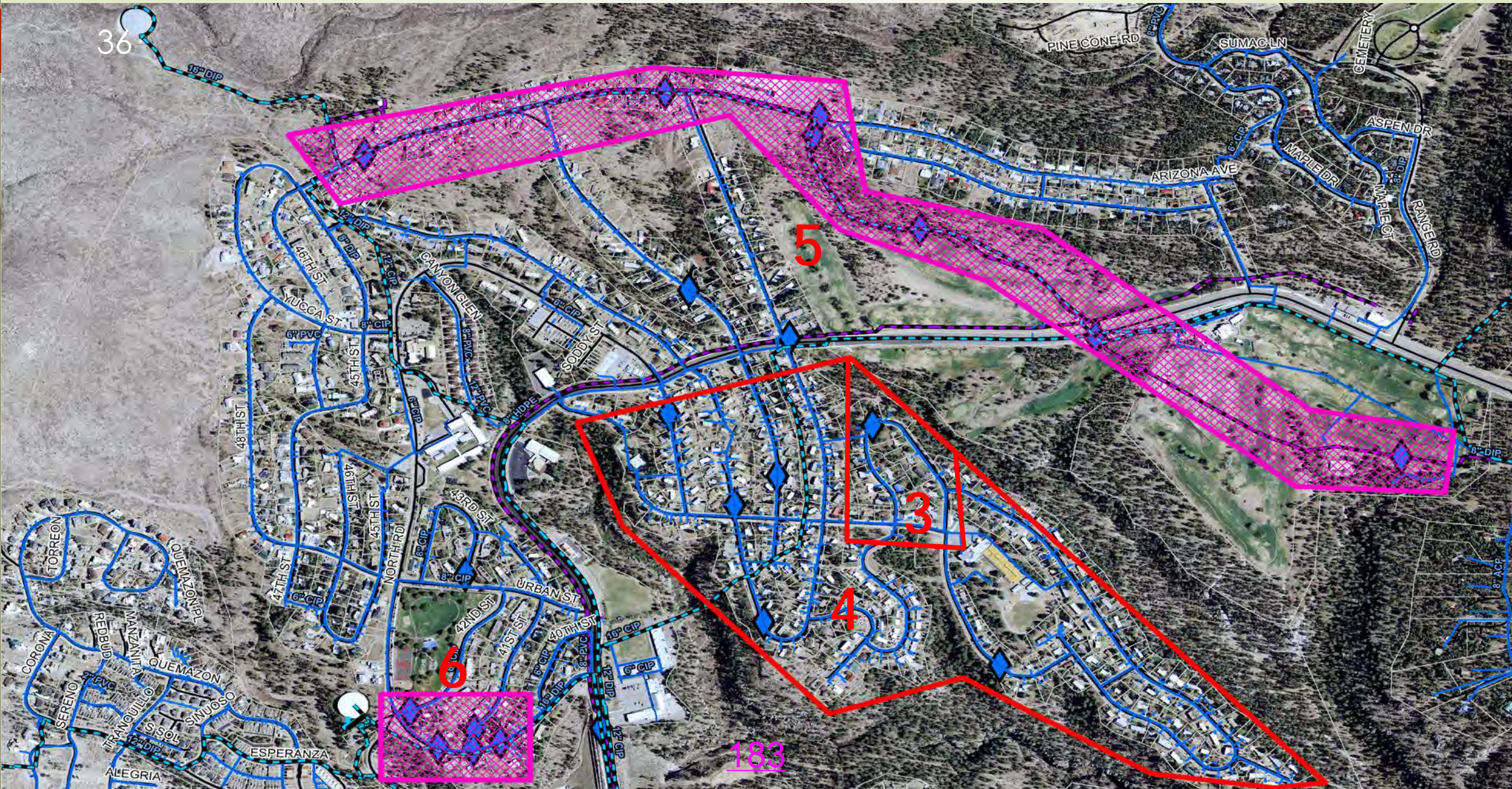
❖ WP – Pajarito Road Corridor & NM SR 4 Areas

- ▶ 19 = FY21 / Pajarito Road @ Diamond Drive at LANL - \$800k / Regular CIP
- ▶ 20 = FY21 thru FY23 / NM SR 4 Pipeline R&R - \$2.8 M / Regular CIP & NM DOT Road Related
- ▶ 21 = FY30 / Pajarito Road Pipeline R&R - \$4M / Regular CIP
- ▶ 22 = Truck Route Pipeline R&R Deferred into the Foreseeable Future³ – No R&R Proposed at this Time Because of Potential Elimination of Pajarito Well No. 3 Due to DOE Chromium Plume

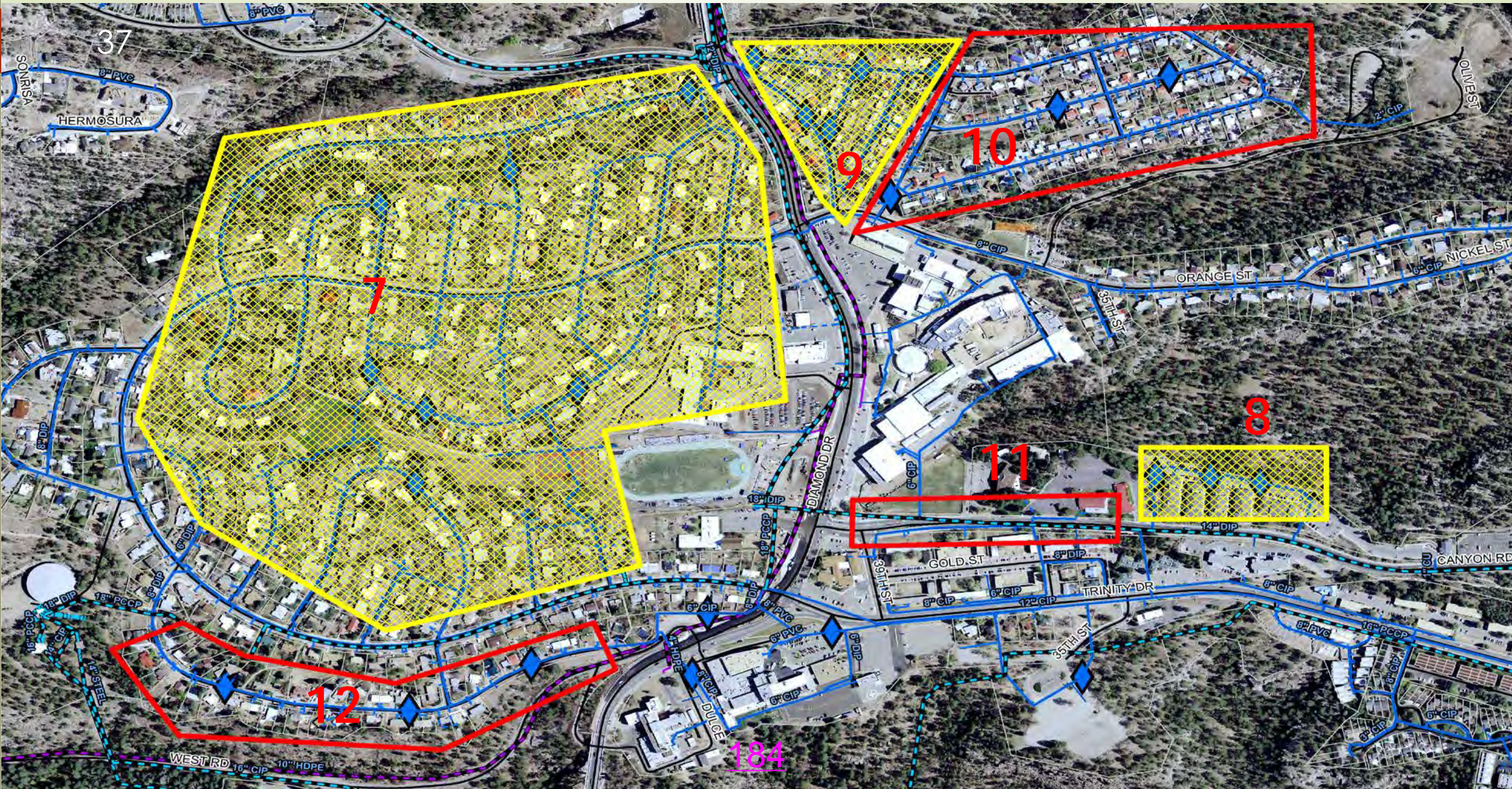
Water Break History & DW CIP Projects – North Mesa & Barranca Mesa Areas



Water Break History & DW CIP Projects – North Community Area

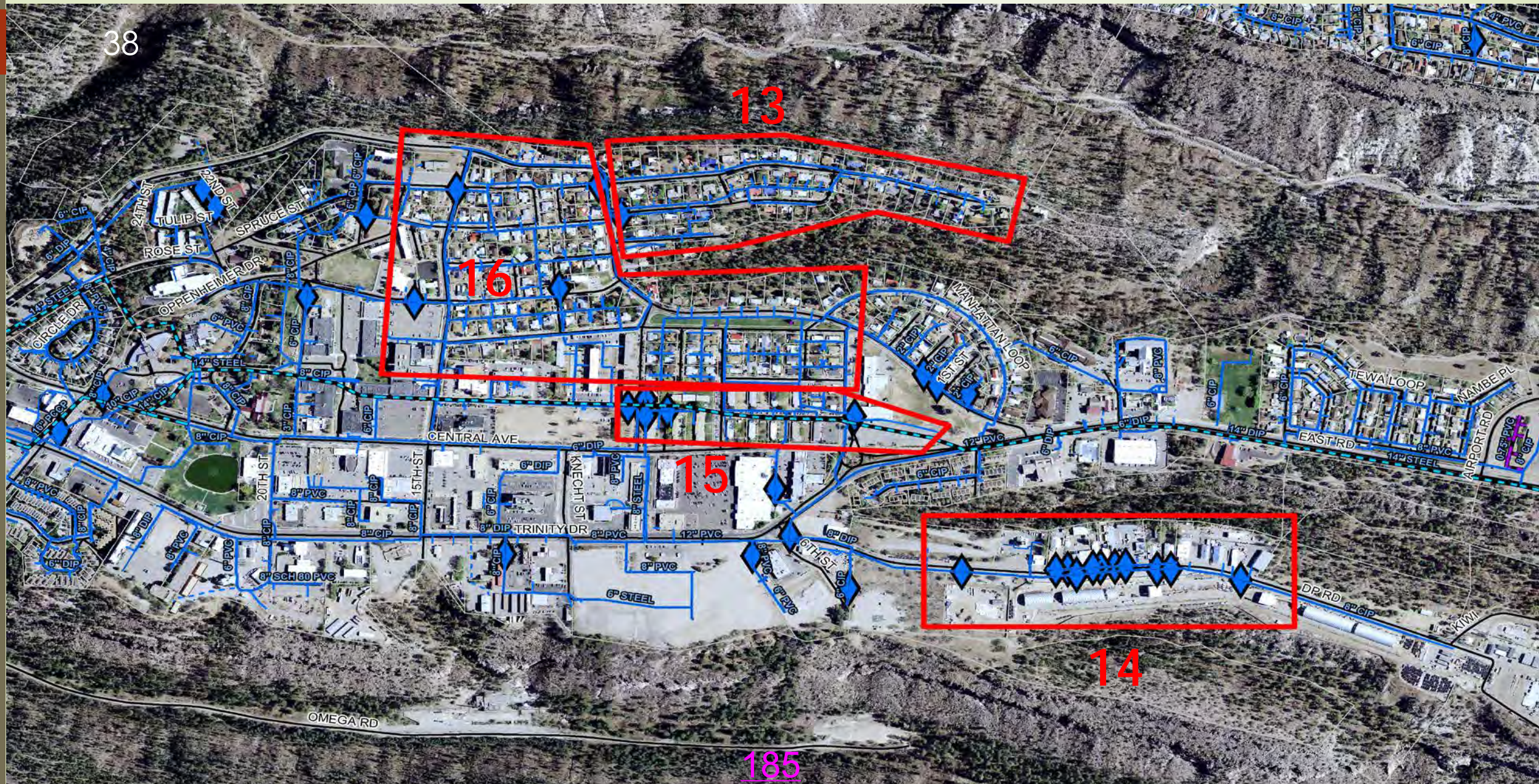


Water Break History & DW CIP Projects – Western Area

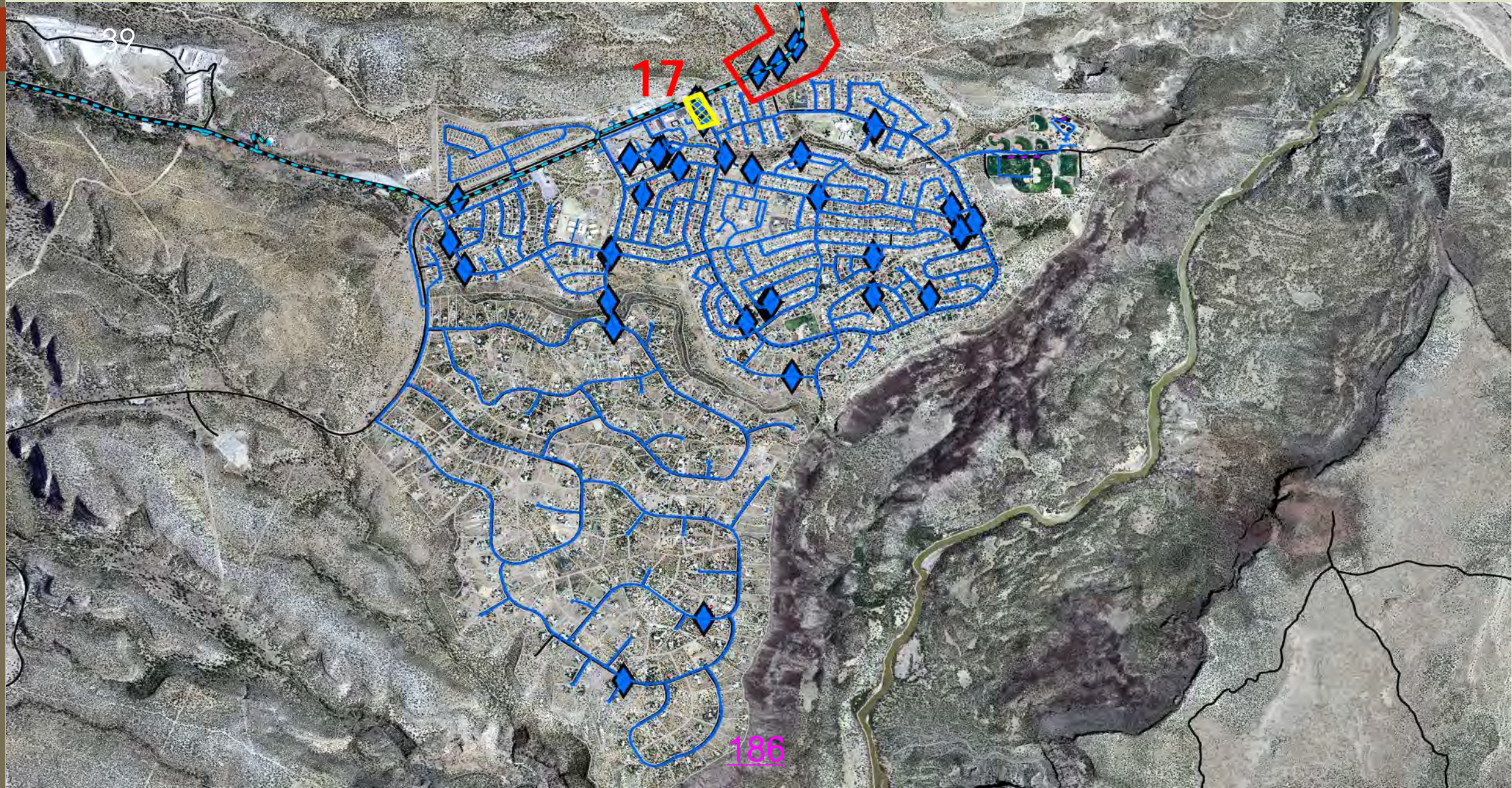


Water Break History & DW/Development CIP Projects – Trinity & Central Area

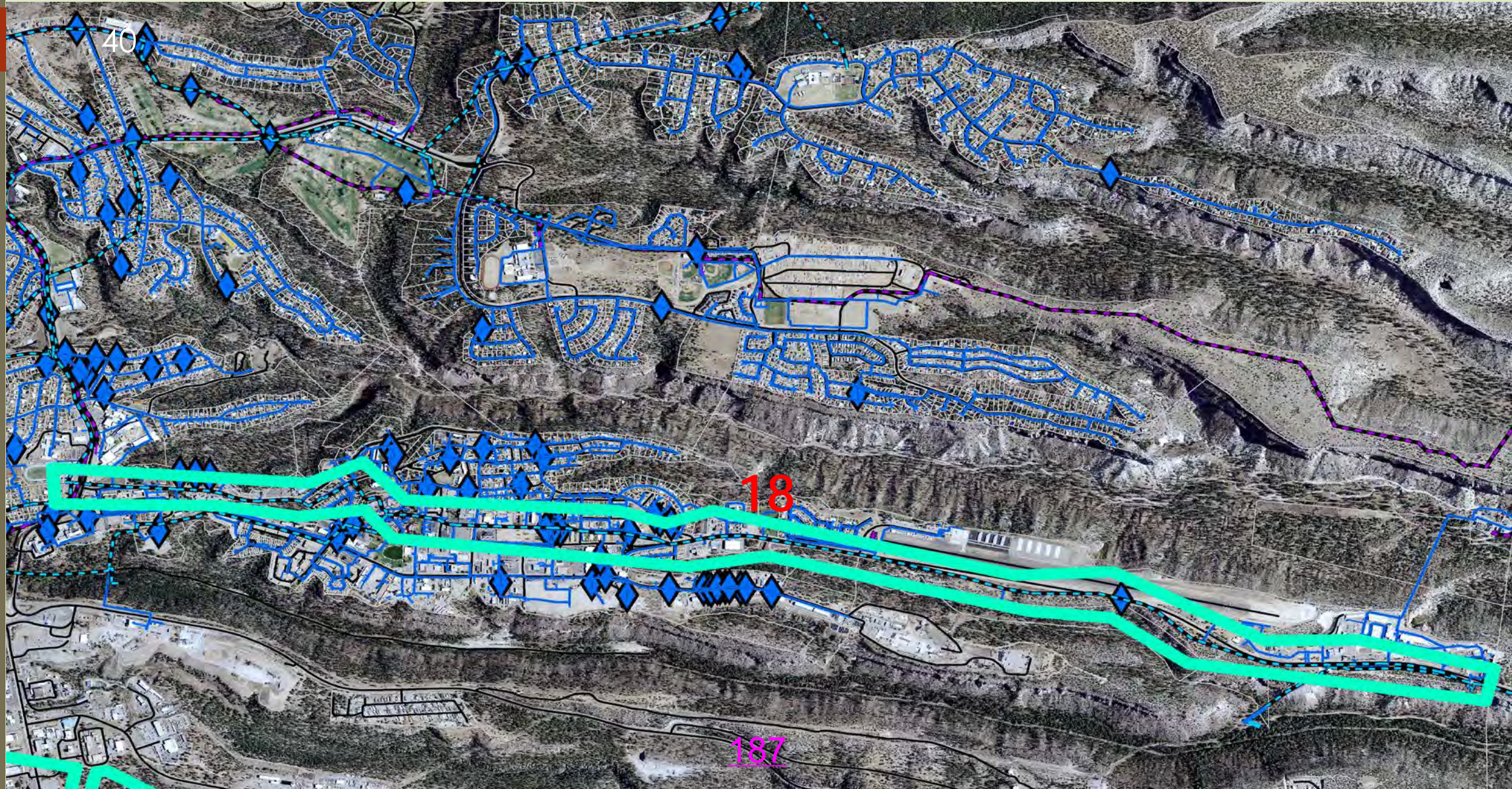
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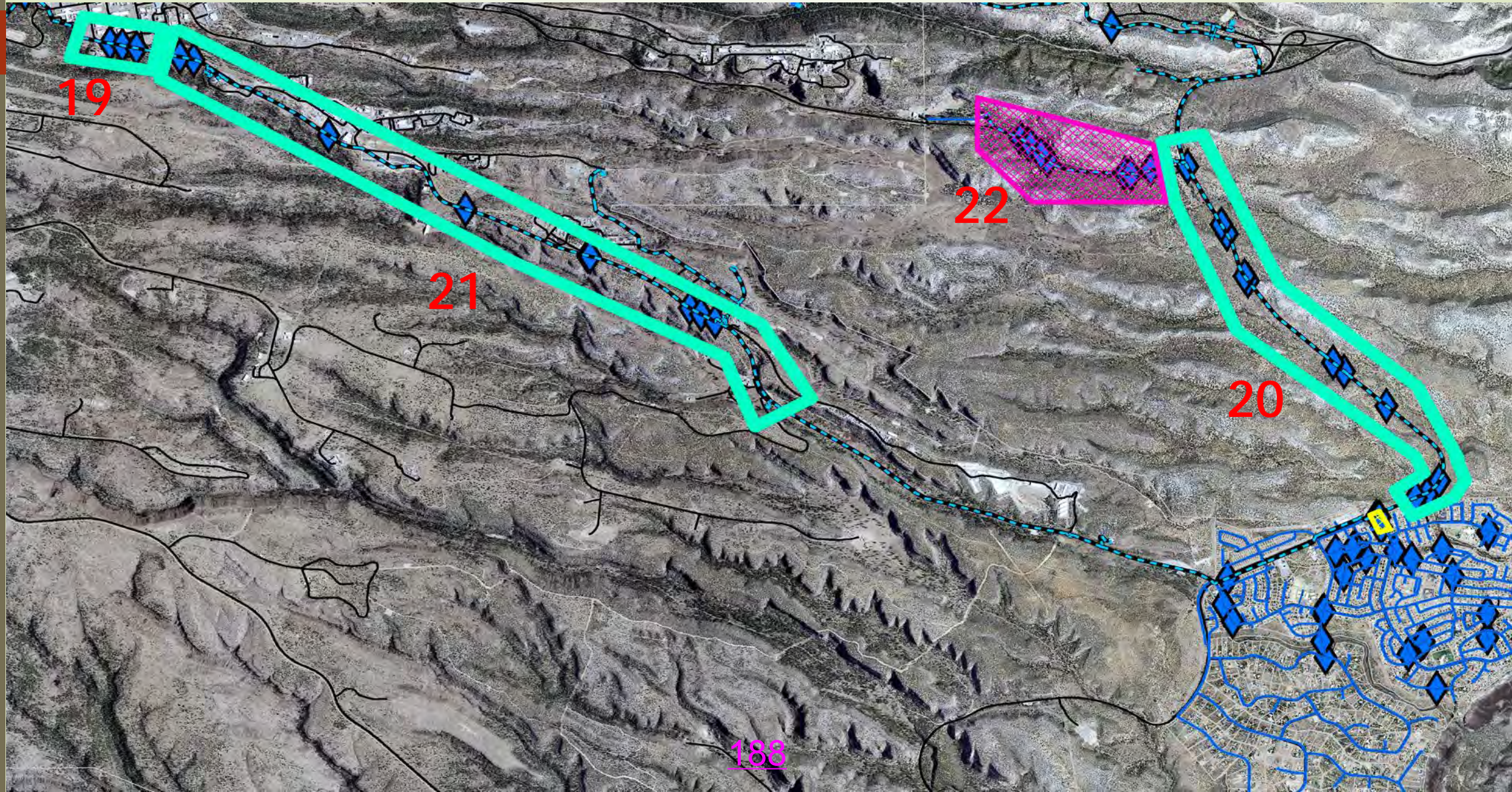
Water Break History & Development CIP Projects – White Rock Area



Water Break History & WP CIP Projects – Upper Truck Route/LANL Area



Water Break History & WP CIP Projects – Pajarito Road Corridor



DW / NEAR FUTURE – O&M GOALS / ACTION ITEMS

42

- Regain momentum on R&R programs: Fire Hydrants, Valves & PRV Stations.
- Initiate a contractor supported multi-year multi-phase program to locate, R&R, collar and mark system valves throughout the White Rock & Town Site areas.
- Change out 1,200 small residential water meters & all larger commercial & residential meters that have aged out or exhibited problems plus support the AMI field work as necessary.
- Construction inspection of El Mirador, Aspen School Area Phase 1 PW Road Project, Alamo & Capulin Area PW Road Project, Canyon Road PW Road Project, DP Road Utilities and other development projects as necessary.

DW / NEAR FUTURE – MAJOR CIP PROJECTS

43

- AMI implementation will finally begin field implementation.
- El Mirador, along with additional new housing development projects, will continue.
- 33rd & 34th Street (Aspen School Area Phase 1) water system improvements – in conjunction with a Public Works Road improvement project.
- Alamo & Capulin Area water system improvements – in conjunction with a Public Works Road improvement project.
- Canyon Road Area water system improvements – in conjunction with a Public Works Road improvement project.

WP & NP / NEAR FUTURE – O&M GOALS / ACTION ITEMS

44

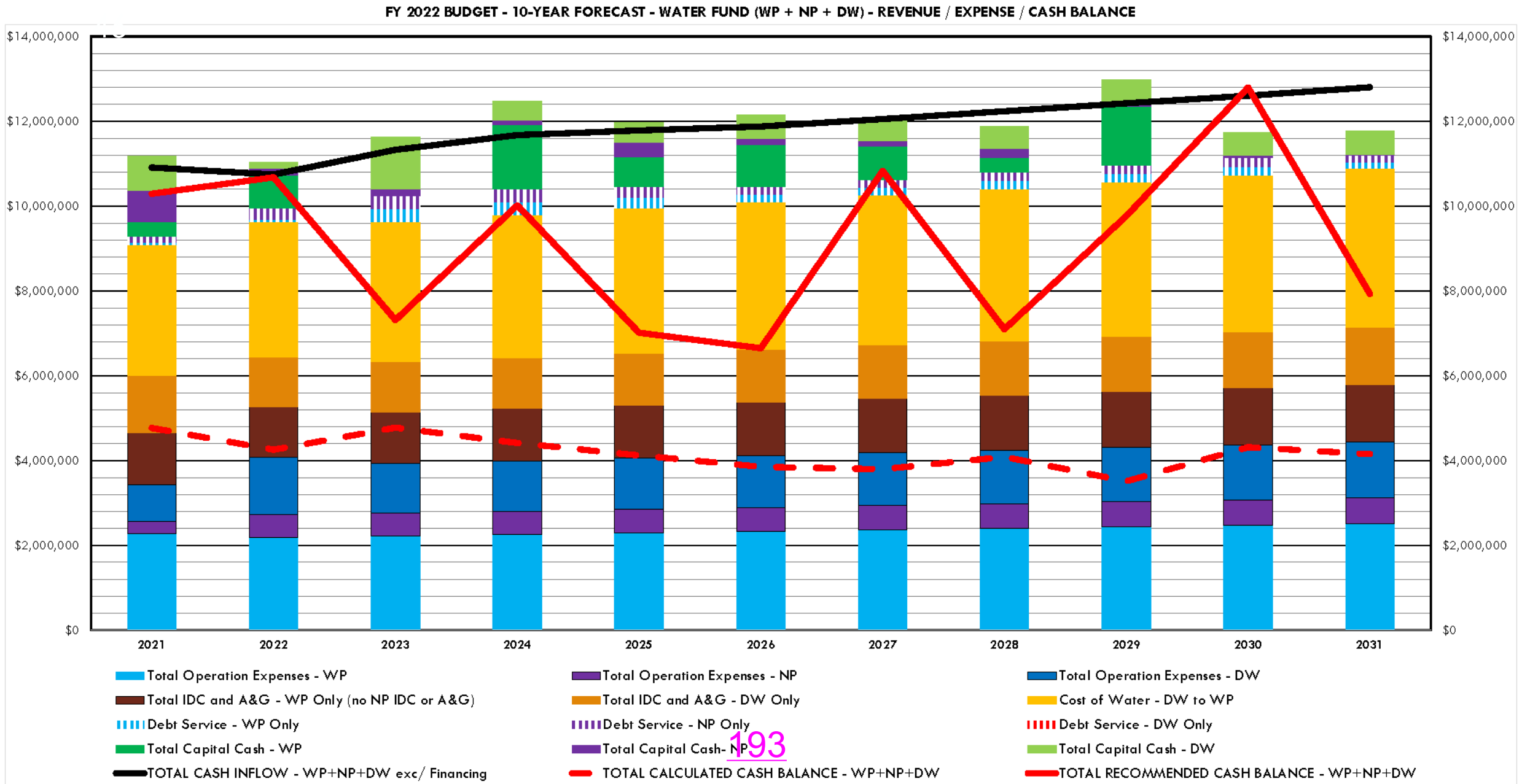
- WP - Initiate a contractor supported multi-year multi-phase program to locate, R&R, collar and mark system valves throughout the White Rock & Town Site areas.
- WP - Complete a system wide investigation of all Well & Booster Station control systems (mechanical & electrical) and develop a priority list to implement a phase-1 project to R&R the highest priority stations.
- WP - Coordinate the start up of the new Chlorination System at Tsankowi serving PW1 & PW3 as well as the start up of OW2 as well as the first time ever start up for service of OW1.
- NP – Coordinate the start up of the new Overlook Park Booster Station and the new Bayo Booster Station Tank 2.
- NP – Finalize the grant and secure the funding for the LA Reservoir Road and Streambed Stabilization Project.

WP & NP / NEAR FUTURE – MAJOR CIP PROJECTS

45

- WP - OW2 Well Station construction & new MCC at OW4.
- WP – Repaint Barranca Tank 2.
- WP – Tank Pipe Upgrades: Pajarito Booster 2, Twin, Sycamore, Western & Pajarito 4 and 4A.
- WP – Finalize funding and initiate a project to upgrade the highest priority Well and/or Booster Station control systems.
- WP – Finalize funding and initiate NM SR 4 transmission pipeline R&R project between truck route and White Rock.
- WP – Possibly coordinate the construction of the Camp May pipeline up the ski hill road.
- NP – Bayo Booster Station Tank Upgrade; new 1 million gallon tank.
- NP – LA Reservoir Road Stabilization Project.
- NP – Finalize funding and initiate a project to add Filtration to the LA WWTP to upgrade to Class 1A effluent.

Total Water Fund (WP + NP + DW) / 10-Year Revenue – Expenditure - Cash Balance Graph



Overall Water Fund Summary – February 2021 DW, WP & NP Water Systems Financial Condition Assessment

47

- The current financial condition of the Overall Water Fund, both sub-funds of Water Distribution and Water Production (including the NP Water System) is trending in a positive direction.
- Revenues continue to increase from rates and new customers.
- The cash balance reserves of the Water Fund are stable at around \$4 million dollars per year; and with the solidification of the policy to debt finance future major CIP projects Water Fund cash balance reserves are expected to trend toward matching financial policy goals for cash balance reserves.
- The projected water rate annual increases are part of a multi-year plan. These rates will continue to improve the ability of DPU to plan aggressive pipeline R&R and equipment modernization upgrade CIP programs necessary to maintain all three water systems: Water Distribution, Water Production & Non-Potable Water. While simultaneously developing and maintaining a healthy cash balance reserve.



County of Los Alamos

Staff Report

February 24, 2021

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 8.B
Index (Council Goals): DPU FY2021 - N/A
Presenters: Board of Public Utilities
Legislative File: 13892-21

Title

Status Reports

Body

Each month the Board receives in the agenda packet informational reports on various items. No presentation is given, but the Board may discuss any of the reports provided.

Attachments

- A - Electric Reliability Report
- B - Accounts Receivables Report
- C - Safety Report

STATUS REPORTS

ELECTRIC RELIABILITY

Los Alamos County Utilities

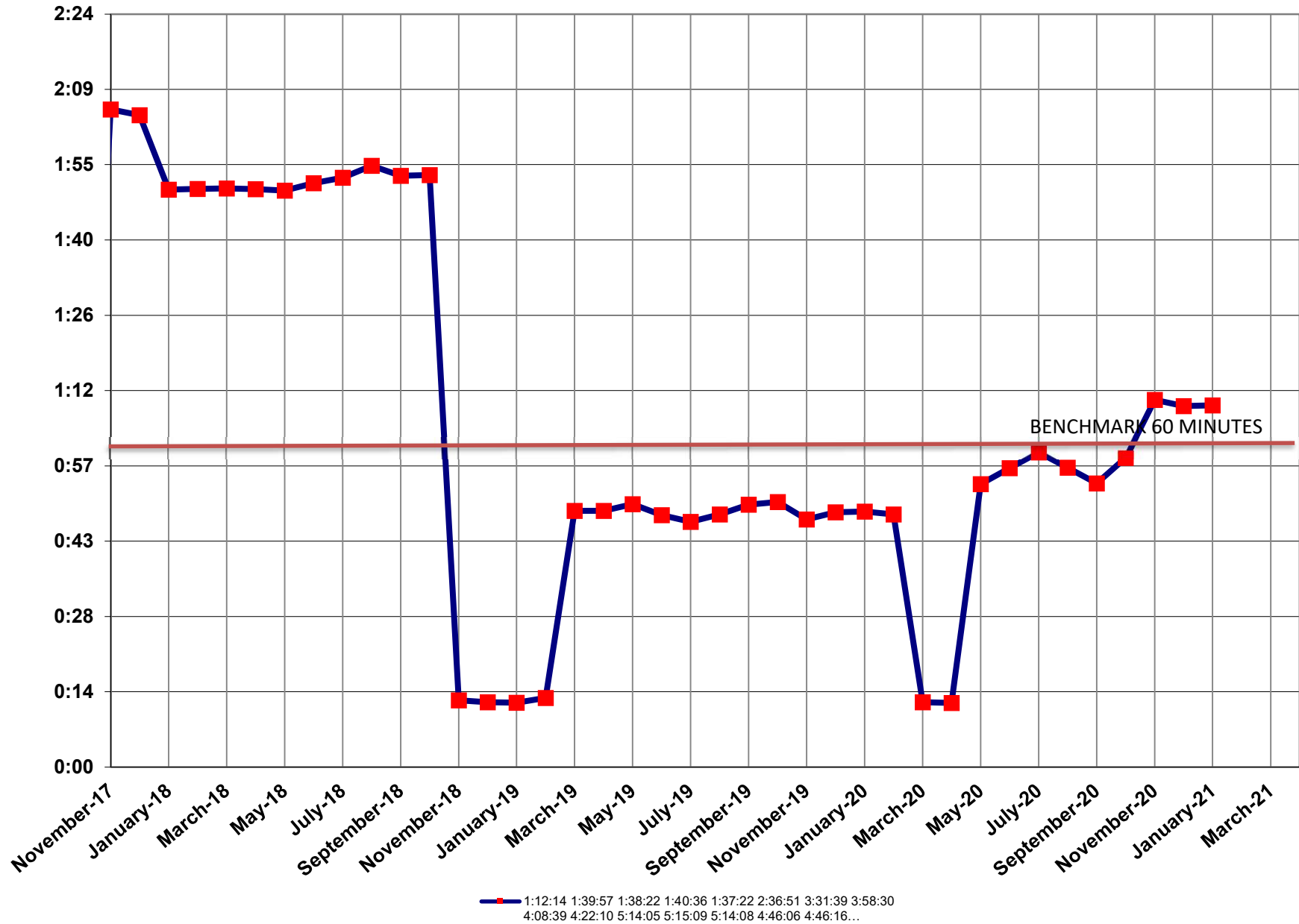


Electric Distribution Reliability

February 20, 2021

Alan Horton
Associate Engineer

EACH POINT IS A 12 MONTH SAIDI HISTORY
1:00 = APPA BENCHMARK SAIDI



Twelve Month History	January 2021	
Total # Accounts	9045	
Total # Interruptions	40	
Sum Customer Interruption Durations	10426:03:00	hours:min:sec
# Customers Interrupted	4976	
SAIFI (APPA AVG. = 1.0)	0.55	int./cust.
SAIDI (APPA AVG. = 1:00)	1:09	hours:min
CAIDI	2.05	hours:min/INT
ASAI	99.9995%	% available

- **SAIFI - System Average Interruption Frequency Index**
A measure of interruptions per customer (Per Year)

$$\text{SAIFI} = \frac{(\text{Total number of customer interruptions})}{(\text{Total number of customers served})}$$

- **SAIDI – System Average Interruption Duration Index**
A measure of outage time per customer if all customers were out at the same time (hours per year)

$$\text{SAIDI} = \frac{(\text{Sum of all customer outage durations})}{(\text{Total number of customers served})}$$

- **CAIDI – Customer Average Interruption Duration Index**
A measure of the average outage duration per customer (hours per interruption)

$$\text{CAIDI} = \frac{(\text{Sum of all customer outage durations})}{(\text{Total number of customer interruptions})} = \frac{\text{SAIDI}}{\text{SAIFI}}$$

- **ASAI – Average System Availability Index**
A measure of the average service availability (Per unit)

$$\text{ASAI} = \frac{(\text{Service hours available})}{(\text{Customer demand hours})} = \frac{8760 - \text{SAIDI}}{8760}$$

Prepared by Alan Horton
Associate Engineer L.A.C.U.

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Los Alamos County Utilities Department
Active Receivables Over 90 Days Past Due
February 1, 2021

Account	Customer ID	Acct Type	Comments	90 - 119	120 +
3008801	2079198		Spoke with Customer - sent bill and link to pay online	\$ 100.16	\$ -
3006262	2019831		Paid \$500.00	\$ 104.88	\$ -
3002356	2115928		Phone Call - Left a message	\$ 106.55	\$ -
3002334	2126448		Phone Call - Unable to leave message	\$ 114.87	\$ -
3003933	2090978		Spoke with Customer, will make payment arrangement	\$ 129.51	\$ -
3001123	2087798		Spoke with Customer - contacting Self Help	\$ 133.66	\$ -
3200058	2097068		Email - Sent email no phone number on file	\$ 143.46	\$ -
3000183	2105698		Account paid in full	\$ 145.68	\$ -
3002491	2009165		Account paid in full	\$ 156.10	\$ -
3004257	2009984		Paid \$400.00	\$ 162.05	\$ -
3002477	2009142		Paid \$650.00	\$ 170.79	\$ -
3006191	2215214		Paid \$479.36	\$ 183.07	\$ -
3000770	2125948		Paid \$1,250.74	\$ 187.83	\$ -
3005180	2126618		Paid \$300.00	\$ 192.04	\$ -
3000529	2215648		Paid \$342.0	\$ 195.06	\$ -
3004204	2131208		Spoke with Customer, no payment made	\$ 195.53	\$ -
3007378	2200139		Spoke with Customer, no payment made	\$ 198.27	\$ -
3009811	2064328		Paid \$655.02	\$ 205.02	\$ -
3005219	2215352		Phone Call - Left a message	\$ 209.02	\$ -
3002354	2091608		Phone Call - Left a message	\$ 234.07	\$ -
3003508	2124208		Phone Call - Left a message	\$ 239.31	\$ -
3007343	2022445		Phone Call - Left a message	\$ 243.70	\$ -
3006274	2097578		Spoke with Customer, will make payment arrangement	\$ 244.82	\$ -
3006831	2069208		Phone Call - Left a message	\$ 249.68	\$ -
3007380	2095958		No contact information on file	\$ 254.31	\$ -
3003875	2130988		Phone Call - Left a message	\$ 265.71	\$ -
3007572	2202074		Paid \$690.93	\$ 301.33	\$ -
3003169	2215149		Spoke with Customer, will make payment arrangement	\$ 398.37	\$ -
3005028	2082808		Paid \$200.00	\$ 403.14	\$ -
3000686	2215734		Account paid in full	\$ 414.13	\$ -
3200050	2215671		Paid \$300.00	\$ 418.15	\$ -
3004630	2014536		Phone Call - Left a message	\$ 432.20	\$ -
3008769	2215438		Paid \$441.37	\$ 441.37	\$ -
3006551	2092908		Paid \$1,100.00	\$ 455.29	\$ -
3007272	2074278		Phone Call - Left a message	\$ 594.93	\$ -
3000708	2002468		Account paid in full	\$ 2,027.22	\$ -
3002428	2089728		Phone Call - Left a message	\$ 265.99	\$ 6.46
3003465	2009239		Paid \$300.00	\$ 240.27	\$ 6.85
3008057	2113408		Phone Call - Unable to leave message	\$ 266.71	\$ 11.32
3000765	2002538		Paid \$500.00	\$ 271.15	\$ 13.12
3008958	2034248		Phone Call - Left a message	\$ 223.97	\$ 44.19
3006224	2056848		Phone Call - Number on file incorrect	\$ 270.82	\$ 47.60
3002341	2008767		No contact information on file	\$ 168.39	\$ 54.84
3003707	2215280		Phone Call - Left a message	\$ 66.53	\$ 56.99
3003894	2069898		Phone Call - Left a message	\$ 226.45	\$ 58.96
3000624	2002246		Phone Call - Unable to leave message	\$ 62.30	\$ 65.28
3008795	2215540		Phone Call - Unable to leave message	\$ 66.70	\$ 65.98
3002301	2215557		Paid \$100.00	\$ 42.91	\$ 67.84
3006123	2019390		Last payment was returned by bank	\$ 184.89	\$ 77.83
3000623	2002238		Phone Call - Unable to leave message	\$ 85.07	\$ 84.48
3000629	2002265		Phone Call - Unable to leave message	\$ 89.72	\$ 92.58
3010128	2114898		Spoke with Customer- Made payment arrangement	\$ 14.98	\$ 102.87
3006190	2049258		Phone Call - Unable to leave message	\$ 261.49	\$ 104.01
3004859	2120608		Phone Call - Unable to leave message	\$ 204.80	\$ 119.31

3002412	2003472	Phone Call - Left a message	\$ 41.50	\$ 129.30
3003913	2214826	Phone Call - Left a message	\$ -	\$ 134.36
3004704	2056838	Phone Call - Left a message	\$ -	\$ 136.95
3003818	2066808	Phone Call - Left a message	\$ 180.79	\$ 145.83
3200089	2094088	Paid \$556.76	\$ 559.82	\$ 157.06
3004459	2063338	Phone Call - Left a message	\$ 177.19	\$ 160.38
3004924	2214789	Last payment was returned by bank	\$ 167.63	\$ 170.03
3000410	2101458	Phone Call - Left a message	\$ 291.80	\$ 170.52
3004241	2115898	Spoke with Customer, no payment made	\$ 231.67	\$ 173.30
3002295	2113348	Phone Call - Left a message	\$ 30.55	\$ 184.39
3009163	2028568	Phone Call - Left a message	\$ 185.20	\$ 190.59
3010100	2065098	No contact information on file	\$ 185.28	\$ 191.12
3000166	2066168	Phone Call - Left a message	\$ 218.94	\$ 192.27
3010046	2000053	Spoke with Customer, no payment made	\$ -	\$ 192.89
3003910	2125258	Phone Call - Left a message	\$ 177.60	\$ 198.31
3005761	2018394	Account paid in full	\$ 241.03	\$ 206.03
3005024	2016194	Spoke with Customer, no payment made	\$ 303.25	\$ 207.58
3002911	2030608	No payment made on Account	\$ 224.55	\$ 211.31
3002263	2008172	Phone Call - Unable to leave message	\$ 116.23	\$ 232.67
3006934	2134408	Phone Call - Left a message	\$ 152.45	\$ 237.64
3004509	2215377	Spoke with Customer - will make payment by end of month	\$ -	\$ 240.00
3010032	2047968	Account paid in full	\$ 148.08	\$ 248.59
3002414	2215167	Phone Call - Number on file incorrect	\$ 243.68	\$ 269.92
3000787	2137578	Phone Call - Unable to leave message	\$ 273.61	\$ 272.30
3002728	2087448	Phone Call - Unable to leave message	\$ 172.15	\$ 276.72
3002323	2208833	Phone Call - Unable to leave message	\$ 51.20	\$ 282.80
3002420	2009001	Paid \$1,000.00	\$ 270.75	\$ 306.90
3002756	2135128	Phone Call - Unable to leave message	\$ 164.15	\$ 309.08
3005246	2000373	Phone Call - Unable to leave message	\$ 180.80	\$ 314.22
3004242	2115898	Spoke with Customer, no payment made	\$ -	\$ 336.02
3008505	2121958	Phone Call - Unable to leave message	\$ 374.03	\$ 346.35
3006092	2062068	Paid \$150.00	\$ 188.10	\$ 360.40
3007457	2136718	Spoke with Customer, will make payment when able	\$ 497.42	\$ 367.37
3006179	2019582	Paid \$500.00	\$ 225.37	\$ 374.83
3002452	2205589	Paid \$250.00	\$ 319.32	\$ 405.46
3006102	2013630	Phone Call - Left a message	\$ 137.73	\$ 411.24
3005247	2120668	Phone Call - Left a message	\$ 201.44	\$ 416.16
3002735	2048078	Phone Call - Left a message	\$ 195.30	\$ 458.96
3007236	2118758	Phone Call - Left a message	\$ 334.96	\$ 481.89
3000298	2001122	Spoke with Customer - will make payment by end of month	\$ -	\$ 502.51
3004737	2119798	Phone Call - Left a message	\$ 353.67	\$ 505.30
3000751	2002516	Paid \$225.0	\$ 148.02	\$ 509.58
3006107	2026961	Spoke with Customer - Set up payment arrangement	\$ 245.56	\$ 519.86
3004025	2094558	Spoke with Customer - Will set up pmt with bank	\$ 134.86	\$ 535.14
3000175	2210204	Phone Call - Unable to leave message	\$ 85.03	\$ 550.65
3008040	2023776	Spoke with Customer - Will pay \$800 on 2/11	\$ 407.27	\$ 580.08
3005769	2018418	Phone Call - Unable to leave message	\$ 133.87	\$ 597.55
3009794	2084728	Phone Call - Left a message	\$ 104.04	\$ 644.93
3002328	2139618	Phone Call - Left a message	\$ 58.61	\$ 645.36
3009964	2038698	Phone Call - Number on file incorrect	\$ 317.69	\$ 666.92
3000633	2106478	Moved to inactive on 2/4/2021	\$ 29.09	\$ 666.96
3007011	2021620	Paid \$1,101.46	\$ -	\$ 699.16
3007049	2021703	Phone Call - Broken payment arrangement	\$ 181.15	\$ 718.21
3002367	2137648	Paid \$655.97	\$ 267.64	\$ 719.66
3000068	2113668	Phone Call - Left a message	\$ 125.53	\$ 720.55
3007007	2215166	Phone Call - Left a message	\$ 142.00	\$ 729.57
3002803	2098438	Phone Call - Unable to leave message	\$ 97.00	\$ 783.26
3007384	2134328	Phone Call - Unable to leave message	\$ 353.88	\$ 794.33
3005372	2215225	Phone Call - Left a message	\$ 152.10	\$ 799.83
3007810	2014855	Paid \$500.00	\$ 237.96	\$ 923.07
3003990	2069638	Paid \$200.00	\$ 222.63	\$ 930.69

3005470	2017719	Phone Call - Unable to leave message	\$	217.99	\$	932.41
3001502	2106778	Phone Call - Left a message	\$	375.93	\$	955.63
3003305	2200094	Account paid in full	\$	-	\$	991.09
3004702	2083378	Phone Call - Left a message	\$	158.93	\$	1,055.01
3005078	2016362	Phone Call - Left a message	\$	561.04	\$	1,078.75
3007047	2021698	Phone Call - Broken payment arrangement	\$	204.65	\$	1,165.49
3002389	2135428	Phone Call - Left a message	\$	234.42	\$	1,234.52
3000673	2002547	Paid \$500.00	\$	254.61	\$	1,377.34
3003969	2012357	Phone Call - Unable to leave message	\$	245.92	\$	1,388.66
3004032	2126238	Phone Call - Unable to leave message	\$	196.42	\$	1,436.22
3007360	2015299	Phone Call - Number on file incorrect	\$	233.68	\$	1,450.23
3009203	2118628	Spoke with Customer, hopes to make payment soon	\$	480.52	\$	1,459.81
3004329	2069558	Phone Call - Left a message	\$	174.71	\$	1,465.19
3004060	2085918	Phone Call - Left a message	\$	161.16	\$	1,701.54
3004024	2004969	Phone Call - Unable to leave message	\$	246.81	\$	1,772.37
3002769	2009914	Paid \$100.00	\$	146.86	\$	1,883.80
3002362	2008831	Phone Call - Unable to leave message	\$	402.50	\$	2,198.09
3004423	2130778	Phone Call - Unable to leave message	\$	195.52	\$	2,203.05
3009369	2026665	Phone Call - Number on file incorrect	\$	270.36	\$	2,333.75
3007663	2008610	Phone Call - Number on file incorrect	\$	369.04	\$	2,412.00
3005737	2028518	Phone Call - Unable to leave message	\$	279.04	\$	2,490.27
3008846	2025446	Phone Call - Unable to leave message	\$	209.07	\$	2,577.84
3006513	2036208	Phone Call - Unable to leave message	\$	254.81	\$	3,146.74
			\$	30,799.58	\$	64,635.22
138 Accounts					\$	95,434.80

Los Alamos County Utilities Department
Receivables More than 60 Days Inactive Accounts
February 1, 2021

YEAR	OUTSTANDING 2/1	# OF ACCOUNTS	OUTSTANDING 1/4	# OF ACCOUNTS
FY16	\$ 24,483.69	67	\$ 24,483.69	67
FY17	\$ 14,813.55	63	\$ 14,813.55	63
FY18	\$ 13,124.47	60	\$ 13,124.47	60
FY19 *	\$ 53,217.41	203	\$ 53,251.83	204
FY20 *	\$ 53,953.33	213	\$ 54,353.33	213
FY21	\$ 18,726.29	82	\$ 25,870.11	154
TOTAL	\$ 178,318.74	688	\$ 185,896.98	761

*FY19 - Payment of \$34.42 was paid to account 3001969/2117698 on 1/20/2021, account paid in full.

*FY20 - Payment of \$400.00 was paid to account 3006360/2118438 on 1/13/2021, balance remaining on account.

STATUS REPORTS

SAFETY

DEPARTMENT OF PUBLIC UTILITIES CLAIMS

Information Provided by the County Risk Department

YEAR	REPORT MONTH	BPU MTG DATE	TORT CLAIMS	WORKERS COMP	PROPERTY DAMAGE
2021	01-JAN	2/24/2021	NONE	NONE	<p>1. A GWS employee misjudged backing clearance and backed vehicle 1113 into 1202, with minor damage.</p> <p>2. A Utilities EP Hydro employee misjudged backing clearance and backed vehicle 1242 into a parked snow plow, resulting only in a small hole in 1242 tailgate. Winter weather conditions.</p>
2020	12-DEC	1/20/2021	On DP Road, GWS driver making turn misjudged clearance and struck a support leg of a flagging machine owned by Southwest Safety; \$3800+- damage claimed.	NONE	NONE
2020	11-NOV	12/16/2020	Claimant alleges that lightning struck a County utility pole causing a voltage surge that damaged his computer. Recommended for denial.	NONE	Claim in which a Utilities employee reported that the toolbox slid in the truck he was driving, and it broke the truck's rear window.
2020	10-OCT	11/18/2020	Claim involving Electrical Distribution: a claimant alleges that home appliances were damaged due to a failure of their neutral conductor, causing voltage overload in part of their electrical panel. ED has responded that the County has no way of knowing or predicting that a house service conductor will fail. Claim has been recommended for denial.	NONE	NONE
2020	09-SEP	10/21/2020	NONE	A lineman fractured/lacerated his right middle finger when removing a heavy manhole cover; returned to duty same day.	NONE
2020	08-AUG	9/16/2020	Resident and her insurer claim sewer back-up damage due to County main problem	GWS worker using high pressure wand; wand slipped, causing contact and skin abrasion to wrist.	NONE

DEPARTMENT OF PUBLIC UTILITIES CLAIMS

Information Provided by the County Risk Department

YEAR	REPORT MONTH	BPU MTG DATE	TORT CLAIMS	WORKERS COMP	PROPERTY DAMAGE
2020	07-JUL	8/19/2020	Water main repair caused debris to enter residence plumbing, clogging house facilities; plumber's bill claimed.	NONE	Break-in reported at El Vado. Damage and theft of federally owned property being stored on premises; no damage or theft to County.
2020	06-JUN	7/15/2020	A claimant experienced water damage to his residence due to a County water line leak.	NONE	NONE
2020	05-MAY	6/17/2020	NONE	NONE	NONE
2020	04-APR	5/20/2020	NONE	NONE	NONE
2020	03-MAR	4/15/2020	NONE	NONE	NONE
2020	02-FEB	3/18/2020	NONE	NONE	NONE
2020	01-JAN	2/19/2020	Resident incurred plumber bill; didn't know outage was due to main break.	NONE	NONE

	Hours Worked	Hours Worked	Hours Worked	Hours Worked	Hours Worked	Hours Worked
	ADMIN	EL DIST	EL PROD	GWS	WA PROD	WWTP
MONTH						
Jan - 2021	4445.0	2200.0	2760.0	4754.0	1523.0	1760.0
Feb - 2020	2956.0	1663.0	1723.0	3796.0	1272.0	1373.0
Mar - 2020	3216.0	1778.0	1881.0	4013.0	1333.0	1424.0
Apr - 2020	3481.0	2016.0	1824.0	4464.0	1446.0	1468.0
May - 2020	3441.0	2121.0	1780.0	4661.0	1353.0	1415.0
June - 2020	3208.0	1979.0	1594.0	4002.0	1189.0	1372.0
July - 2020	4877.0	2789.0	2471.0	6170.0	2026.0	1996.0
Aug - 2020	3552.0	1897.0	1927.0	4080.0	1247.0	1355.0
Sept - 2020	3150.0	1502.0	1929.0	3547.0	1189.0	1356.0
Oct - 2020	3637.0	1663.0	1724.0	3769.0	1116.0	1349.0
Nov - 2020	3413.0	1687.0	1780.0	3910.0	1206.0	1429.0
Dec - 2020	4664.0	2358.0	2517.0	5275.0	1589.0	1897.0
Total Hrs Worked ->	44040.0	23653.0	23910.0	52441.0	16489.0	18194.0
Number of Recordable Injury and Illness Cases	0	2	0	1	0	0
OSHA Recordable Injury & Illness Incidence Rate	0.00	16.91	0.00	3.81	0.00	0.00
Number of OSHA Days Away Days Restricted (DART) cases	0	0	0	0	0	0
OSHA Days Away Days Restricted (DART) Rate	0.00	0.00	0.00	0.00	0.00	0.00