



County of Los Alamos

1000 Central Avenue
Los Alamos, NM 87544

Agenda Packet Board of Public Utilities

*Cornell Wright, Chair; Steve Tobin, Vice-chair;
Stephen McLin, Eric Stromberg, and Carrie Walker Members
Philo Shelton, Ex Officio Member
Steven Lynne, Ex Officio Member
Denise Derkacs, Council Liaison*

Wednesday, February 16, 2022

5:30 PM

Remote meeting:
<https://us06web.zoom.us/j/85020738435>

REGULAR SESSION

Members of the public wishing to attend may participate and provide public comment via Zoom:

Meeting link: <https://us06web.zoom.us/j/85020738435> Webinar ID: 850 2073 8435
Phone: US: +1 346 248 7799 or +1 408 638 0968 or +1 669 900 6833 or +1 253 215 8782 or +1 301 715 8592 or +1 312 626 6799 or +1 646 876 9923
One tap mobile: US: +13462487799,,85020738435# or +14086380968,,85020738435#

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.** [15346-22](#) Presentation and Discussion of NMED - Hazardous Waste Bureau -
Hexavalent Chromium Plume Control Interim Measures Overview
Pages 5 - 27

Presenters: Philo Shelton, Utilities Manager

- 4.G.2.** [15516-22](#) Approval of Revised Board of Public Utilities Meeting Calendar for 2022
Pages 28 - 30

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

- 4.G.3.** [14963-21](#) Schedule and Selection of Members to Attend Boards & Commissions
Luncheons for 2022
Page 31

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

4.H. Approval of Board Expenses**4.I. Preview of Upcoming Agenda Items**

- [15207-21](#) Tickler File for the Next Three Months
Pages 32 - 36

Presenters: Board of Public Utilities

5. PUBLIC HEARING(S)**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.

Approval of Board of Public Utilities Meeting Minutes for January 2022

[15211-21](#)

Pages 37 - 52

Presenters: Board of Public Utilities

7. BUSINESS

7.A. [15213-21](#)

Pages 53 - 166

FY2023 & FY2024 Budget Presentation

Presenters: Deputy Utilities Manager - Finance Heather Garcia

7.B. [15547-22](#)

Pages 167 - 185

Approval of Amendment No. 1 to New Exit Date Amendment Amending and Restating the Amended and Restated San Juan Project Participation Agreement and the Extended Operations Agreement

Presenters: Steve Cummins, Deputy Utilities Manager - Electric Distribution and Jordan Garcia

7.C. [15528-22](#)

Pages 186 - 211

Approval of Task Order No. 4 to AGR20-48b with CDM Smith for Engineering and Construction Oversight Services for the Pajarito Road / TA-50 Waterline Replacement Project, and Approval of Budget Revision 2022-46.

Presenters: James Alarid, Deputy Utilities Manager - Engineering

8. STATUS REPORTS

[15209-21](#)

Pages 212 - 226

Monthly Status Reports

Presenters: Philo Shelton, Utilities Manager

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 Human Resources 505- 662-8040 as soon as possible. Public documents, including the agenda and minutes can be provided in various accessible formats. Please contact Utilities at 505-662-8132 for more information.

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



County of Los Alamos

Staff Report

February 16, 2022

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	4.G.1.
Index (Council Goals):	DPU FY2021 - 6.0 Develop and Strengthen Partnerships with Stakeholders
Presenters:	Philo Shelton, Utilities Manager
Legislative File:	15346-22

Title

Presentation and Discussion of NMED - Hazardous Waste Bureau - Hexavalent Chromium Plume Control Interim Measures Overview

Body

Christopher Krambis, P.G. with New Mexico Environment Department (NMED) - Hazardous Waste Bureau, has been invited to present an overview of the Hexavalent Chromium Plume Control Interim Measures.

Attachments

A - Presentation of Hexavalent Chromium Plume Control Interim Measures Overview



New Mexico Environment Department

Los Alamos County Board of Public Utilities

Hexavalent Chromium Plume Control Interim Measures Overview

Hazardous Waste Bureau

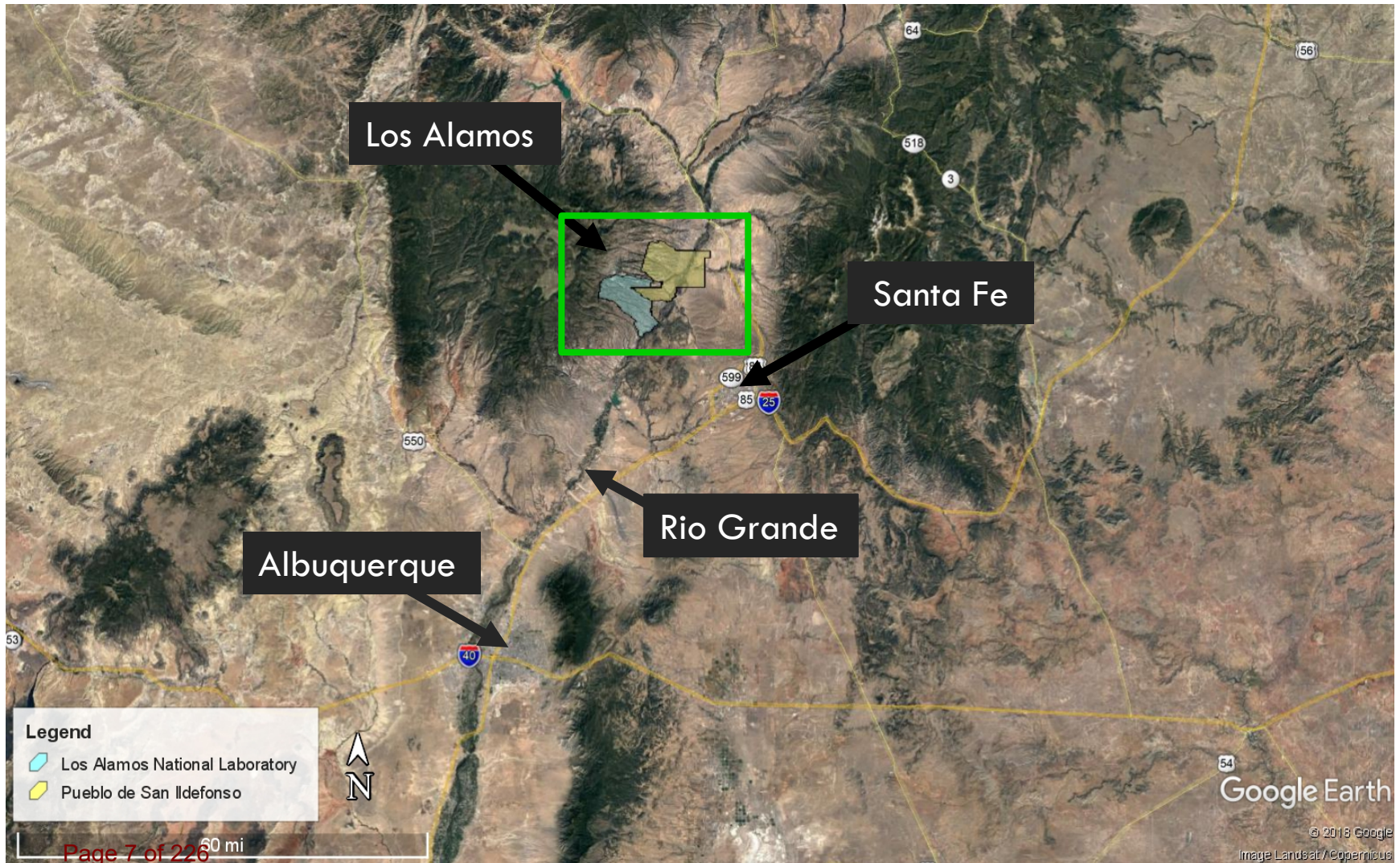
February 16, 2022



Christopher Krambis, P.G.,
Water Resource Professional IV
505-231-5423



Site Location





Site Specifics

Potassium dichromate used to control corrosion in power plant cooling towers

160,000 lbs. released to canyons between 1956-1972 as Cr(VI)

Migration from perched aquifer to regional aquifer formed multiple sources

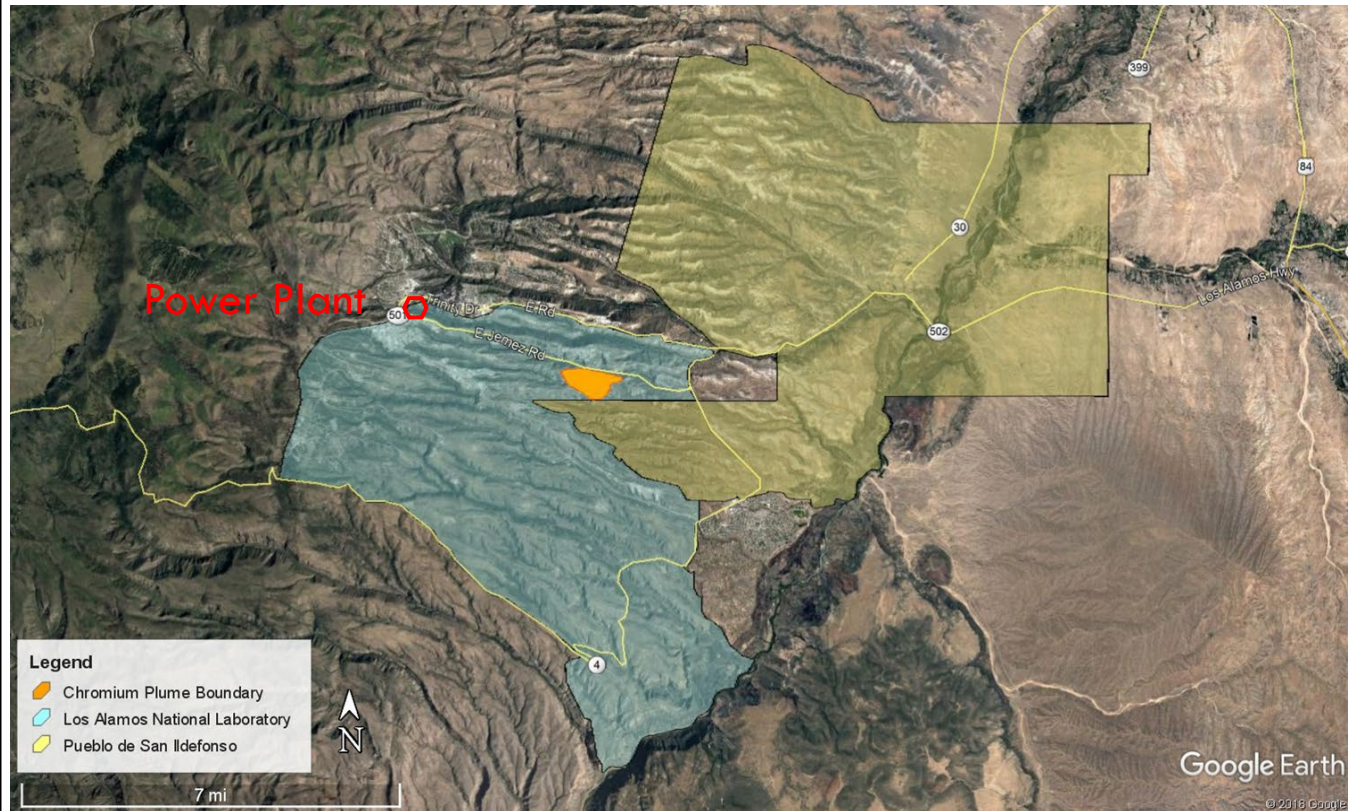
Discovered in regional aquifer in 2005

NMED regulates chromium in groundwater at 50 ppb

Plume is 1 mile long / half mile wide. Thickness is uncertain

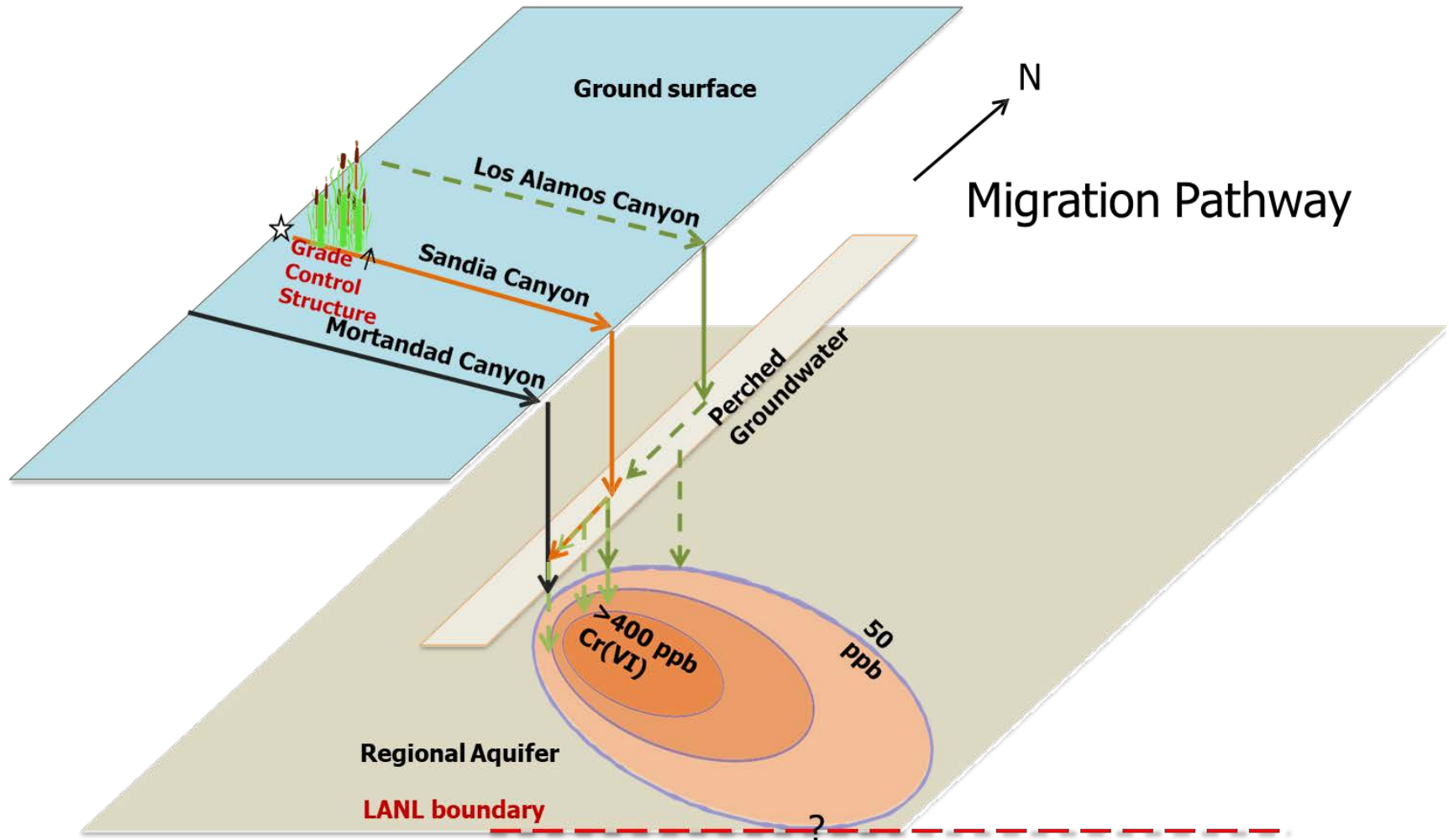
Nature & Extent remains uncertain – in Campaign Approach along with IM

Interim Measures - mid 2018 along SI boundary



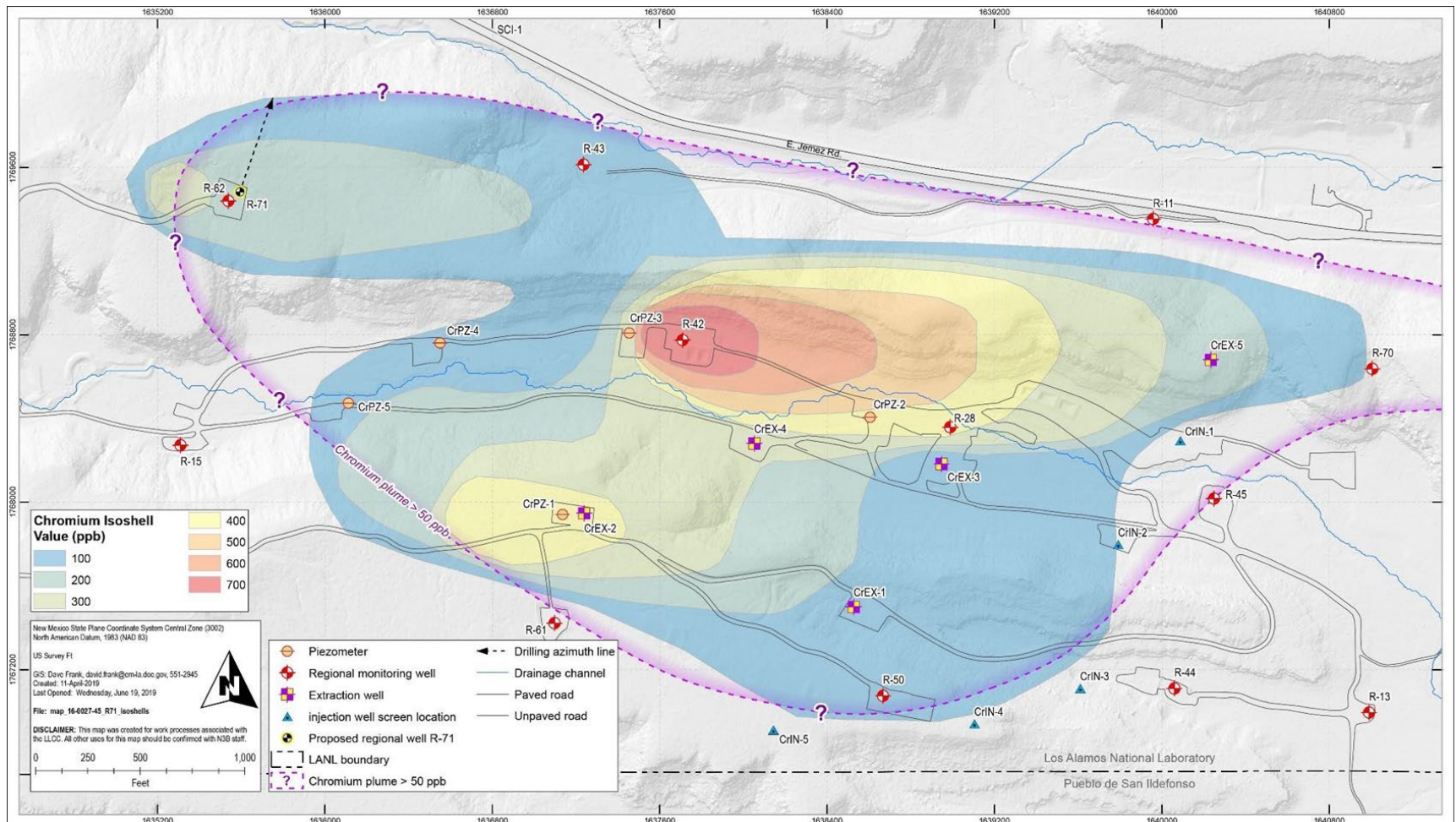


Chromium Migration Schematic





Plume Detail – Coalesced Plumes





Overview of Plume Control IM Issues

Interim Measures Goals

- ❑ Three Workplans
- ❑ Two Consent Orders
- ❑ First workplan: April 2013
 - Extraction/mass recovery
 - Found to be feasible – CrEX-1 (2014)
- ❑ Second workplan: May 2015
 - Migration Control
- ❑ Third workplan: April 2018
 - Assumption Cr(VI) in top 50-60 ft
 - Metrics and reporting
 - 3-Yr performance timeline
 - 6th semi-annual report submitted last September covering 3.5 years

Interim Measures Performance

- ❑ Assumption not valid
- ❑ Plume depth unexplored
- ❑ Water table mapping
- ❑ No hydraulic control
- ❑ Unfavorable responses
- ❑ NMED Issued Numerous Technical Comments



DOE'S Interim Measures Objectives

“The overarching assumption guiding the IM strategy is that the dominant mass and mass flux of contamination in the medial and peripheral portions of the plume is in the upper 50–60 ft of the water table in the strata with the highest hydraulic conductivity.”

- ❑ The principal objective is to achieve and maintain the downgradient chromium plume edge with a specific metric of reduction of chromium concentrations at IM monitoring well R-50 to concentrations of 50 µg/L or less over a period of approximately 3 yr.
- ❑ The principal objective has been met.
- ❑ A secondary objective is to hydraulically control plume migration in the eastern downgradient portion of the plume.
- ❑ The IM operations are in the early stages of implementation to meet the secondary objective.



DOE's Interim Measures Performance

The key evaluation tools for interim measures performance evaluation:

- ❑ Time-series plots that include data for chromium, perchlorate, nitrate, and tritium from monthly sampling in performance monitoring wells, and from extraction wells for capture zone analysis.
- ❑ Time-series plots that include data for injection well tracers from monthly sampling in performance monitoring wells.
- ❑ Water-table maps that evaluate potential changes in gradient associated with IM operations are used as an additional line of evidence for evaluating IM performance.
- ❑ Cumulative chromium mass removal estimates. Although mass removal rates and efficiency are not directly related to IM performance, they may provide insights into observed plume response.



Monitoring and Interim Measures Wells

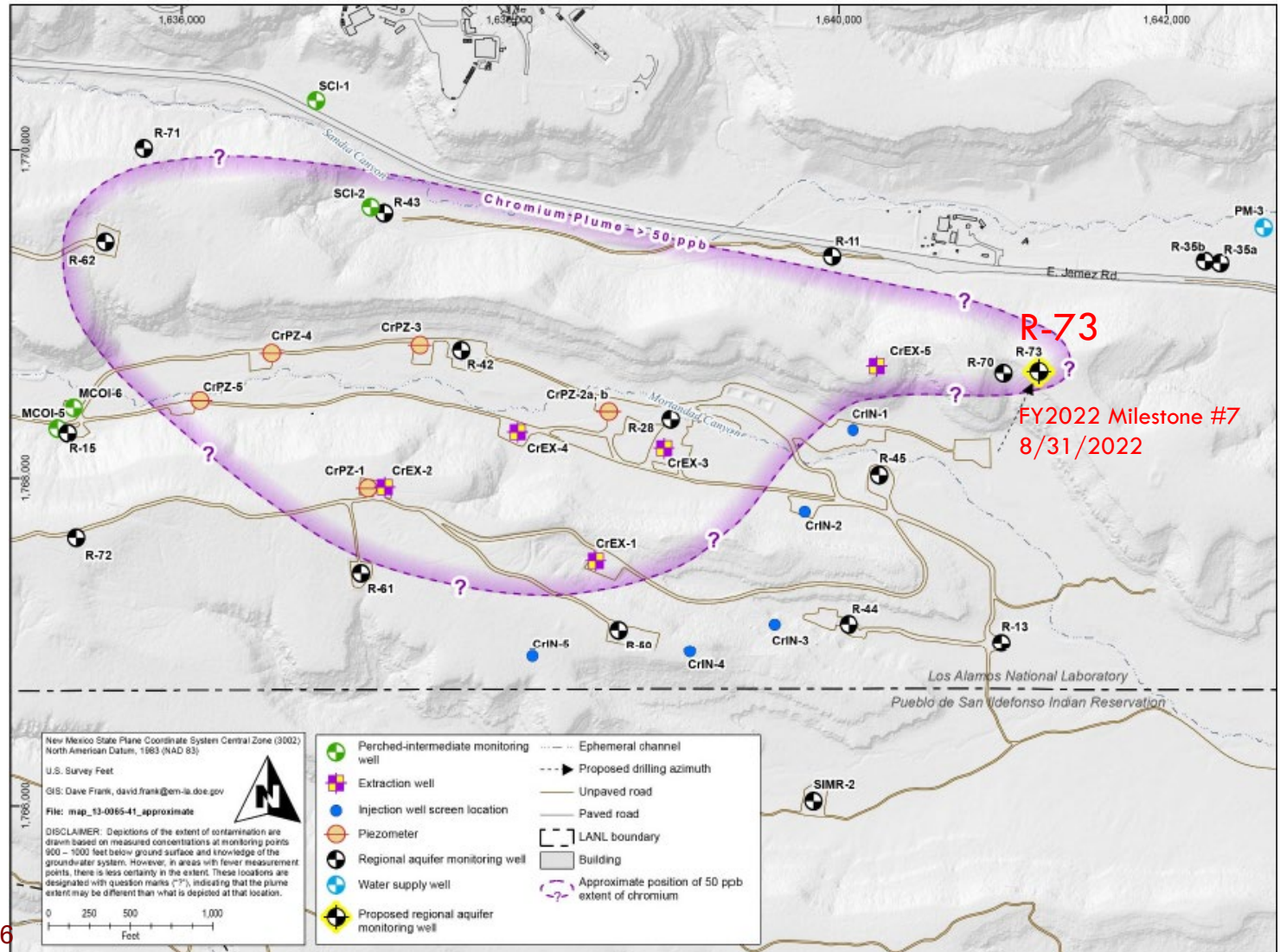
5 IM injection wells (blue)

5 IM extraction wells (purple/yellow)

PM-3 (light blue)

FY2022 Milestones:

- R-73 (#7)
- R-28R workplan (#8)
- R-77 workplan (#9)





Interim Measures Performance Issues

In-situ study

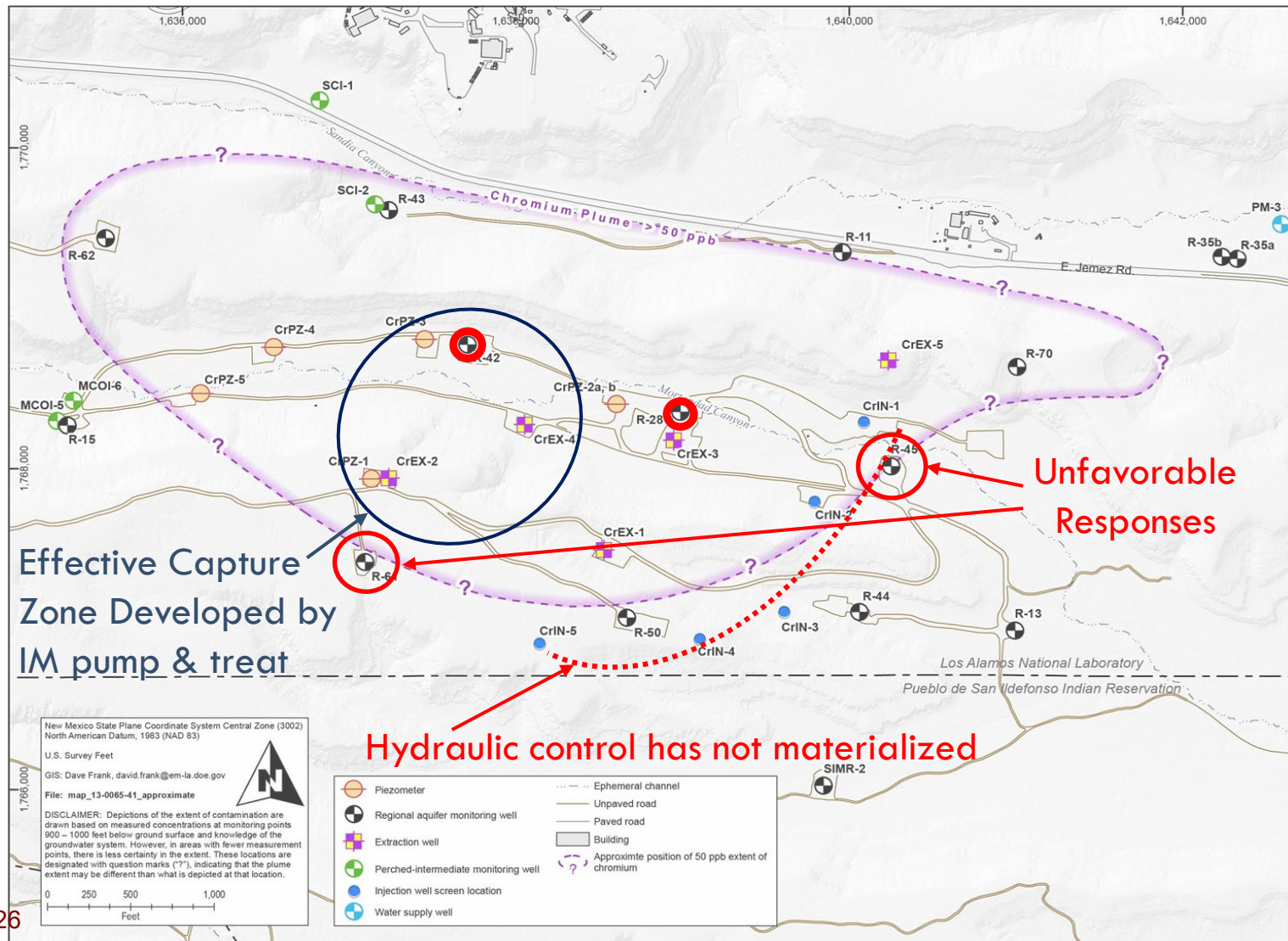
Hydraulic control in 3-yr period

Extraction is effective – but only 472 lbs. removed since 4th Q of 2016

March-Aug 2020 shutdown had no adverse effects.

With injection - unfavorable response noted

NMED requested calculations and modeling





DOE Water Table Map

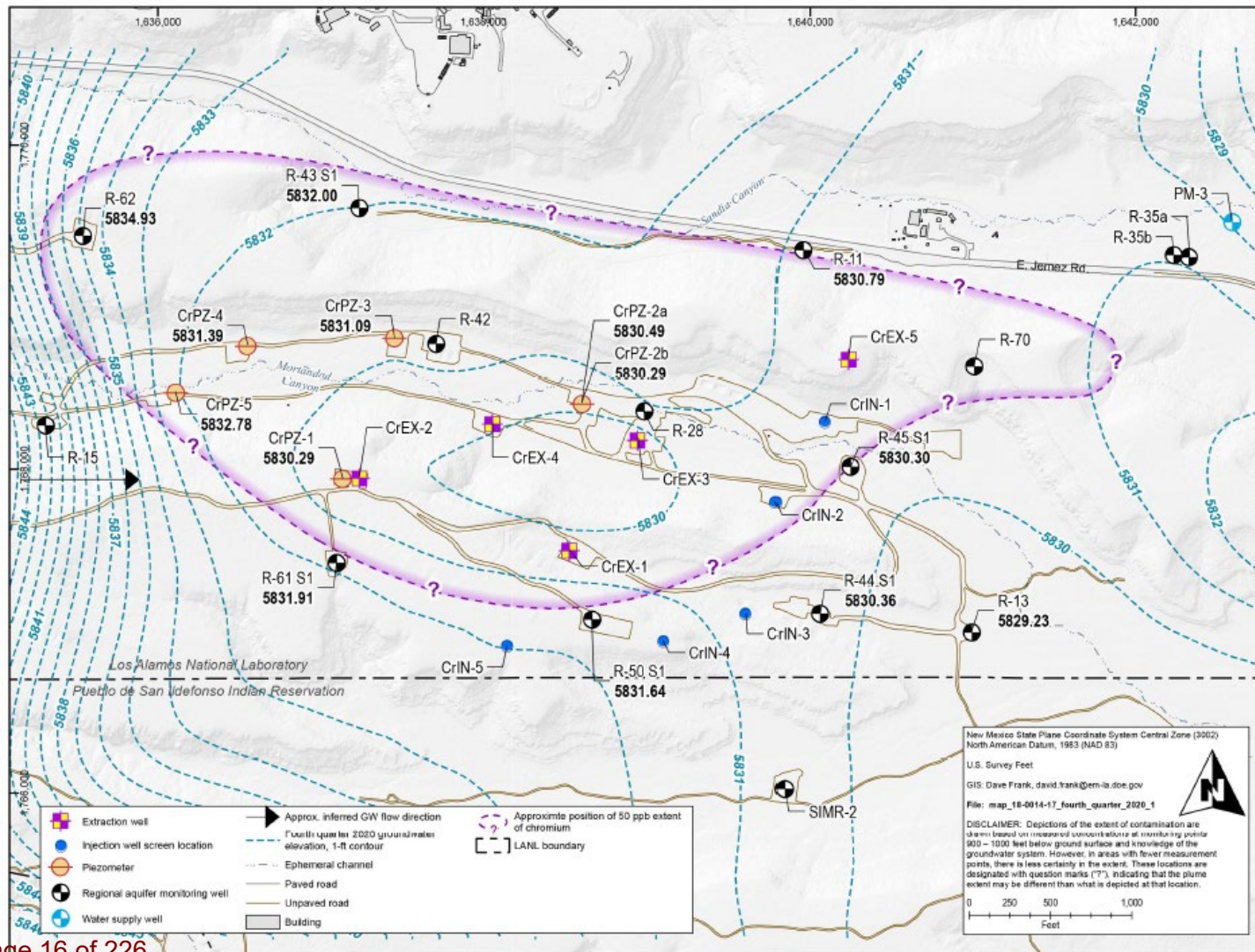
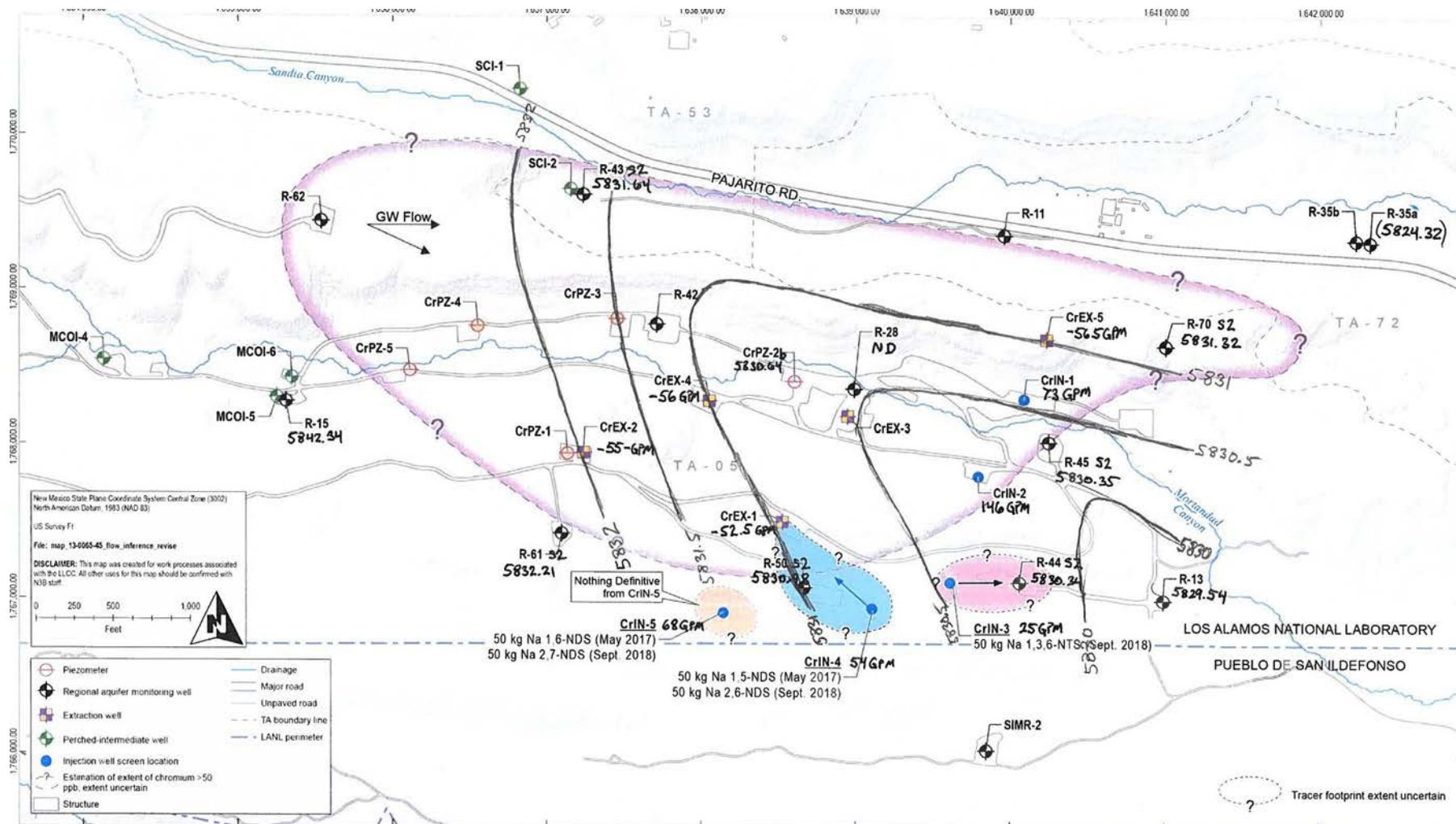


Figure 3.3-1 Water table showing average water levels for November 2020





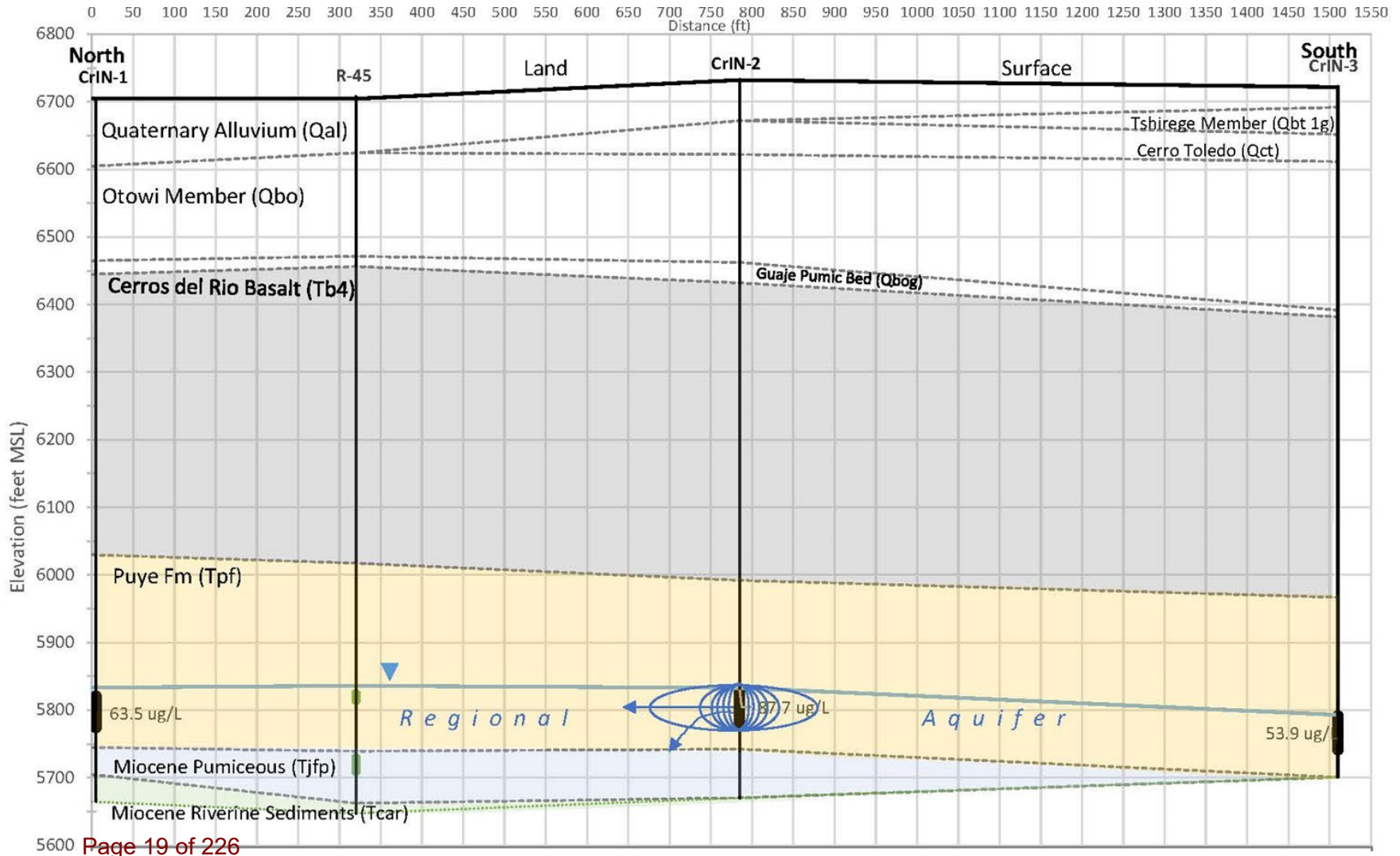
Deep Screen 2 Water Level Map



November 9, 2020, 07:00 potentiometric surface at depth (monitoring well screen 2 heads)



Profile Through Injection Wells





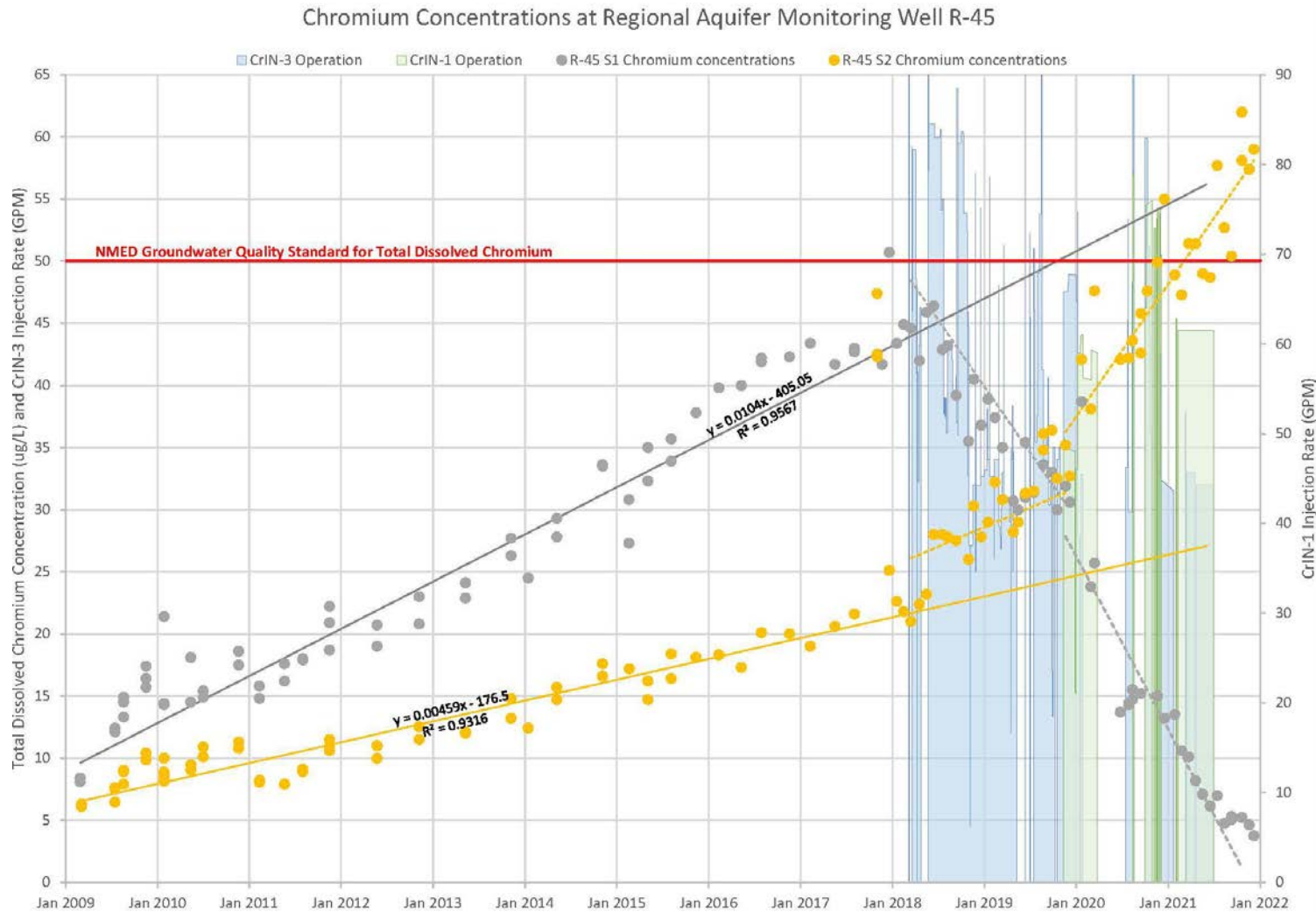
Injection Operations Unfavorable Response at Performance Monitoring Well R-45

Plume migrates with ambient flow rate linearly and predictably

Predicted Cr(VI) exceedance at R-45 in 2019 and 2036 for screens 1 and 2, respectively

Trends then altered when CrIN-3 went online in mid-2018, and again, in Nov 2019 when CrIN-1 & CrIN-2 went online

Modeling calculations requested by NMED





Injection Operations Unfavorable Response

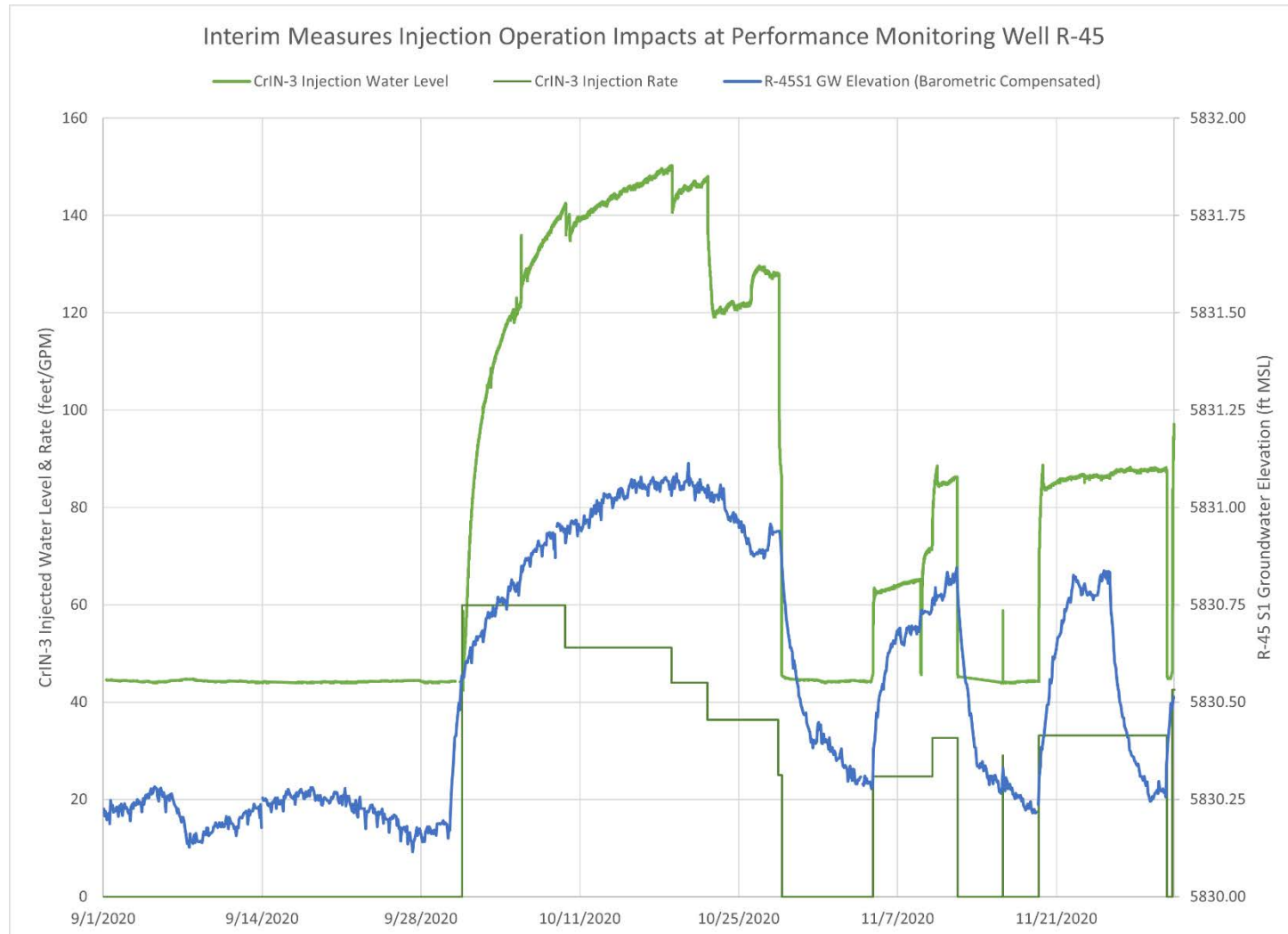
Second Line of Evidence

High injection rates into CrIN-3 created a distinct pattern of water level rise in the injection well that are also observed in the top screen at R-45 during October 2020

The anomalously high injection rates raise the water level in CrIN-3 by over 100 feet

At R-45 S1, a similar rise in the water level is observed to be about 1 ft

Modeling may provide some insight to this observation





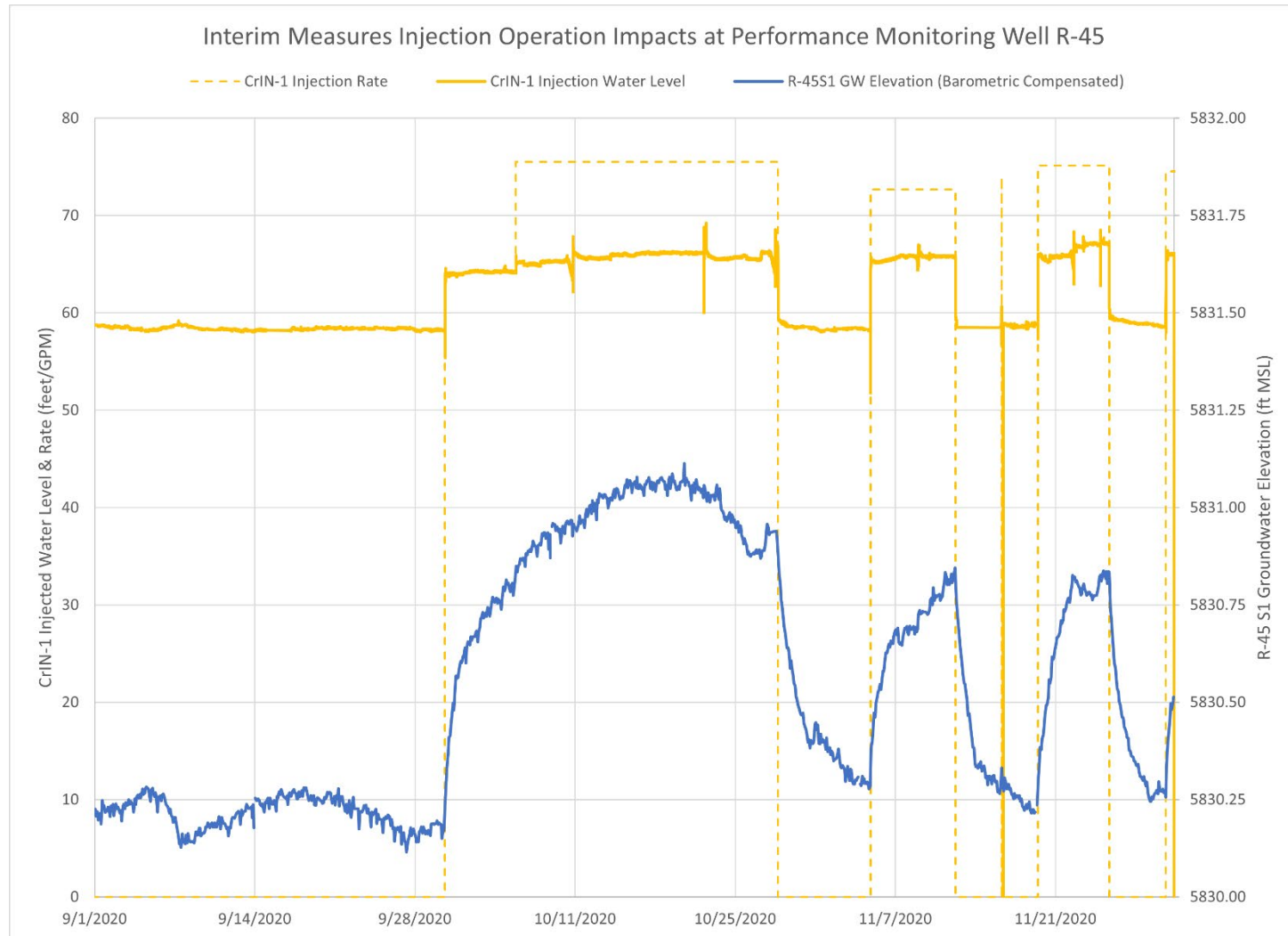
Injection Operations Unfavorable Response

Second Line of Evidence

Typical injection rates into CrIN-1 created no distinct pattern of water level rise in the injection well that can explain the pattern observed in the top screen at R-45 during October 2020

Typical CrIN-1 injection rates only raised the water level in that well by about 5-8 feet

Modeling may provide some insight to this observation





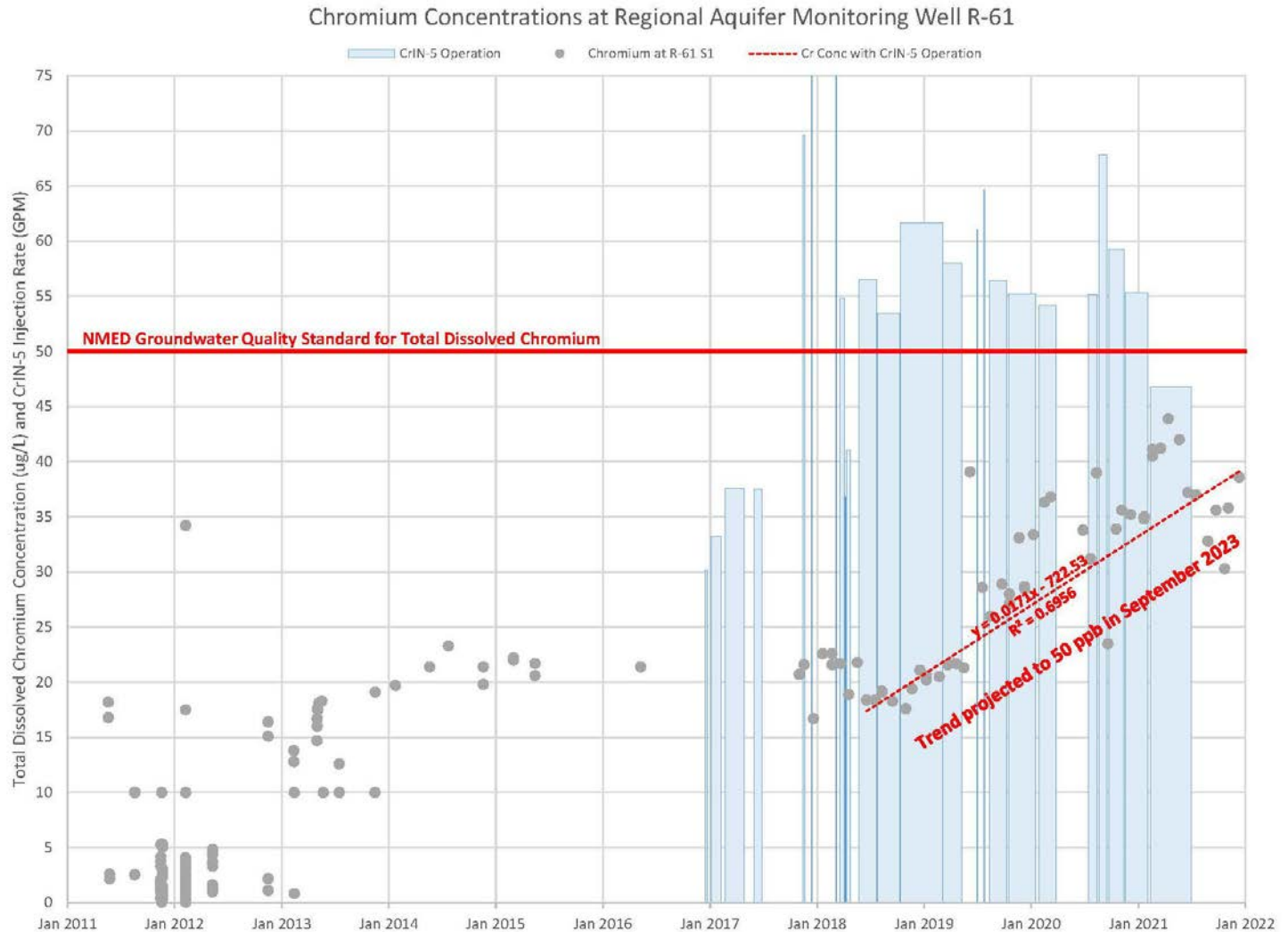
Injection Operations Unfavorable Response Performance Monitoring Well R-61

Upgradient to
injection
operation

Trends altered
after injection
operations
started

Appears delayed
compared to R-
45 response due
to distance and
upgradient
location

Modeling
calculations
requested by
NMED





PM-3 Pumping Recorded at R-35a

DOE: PM-3 draws below Miocene basalt, isolated from chromium plume

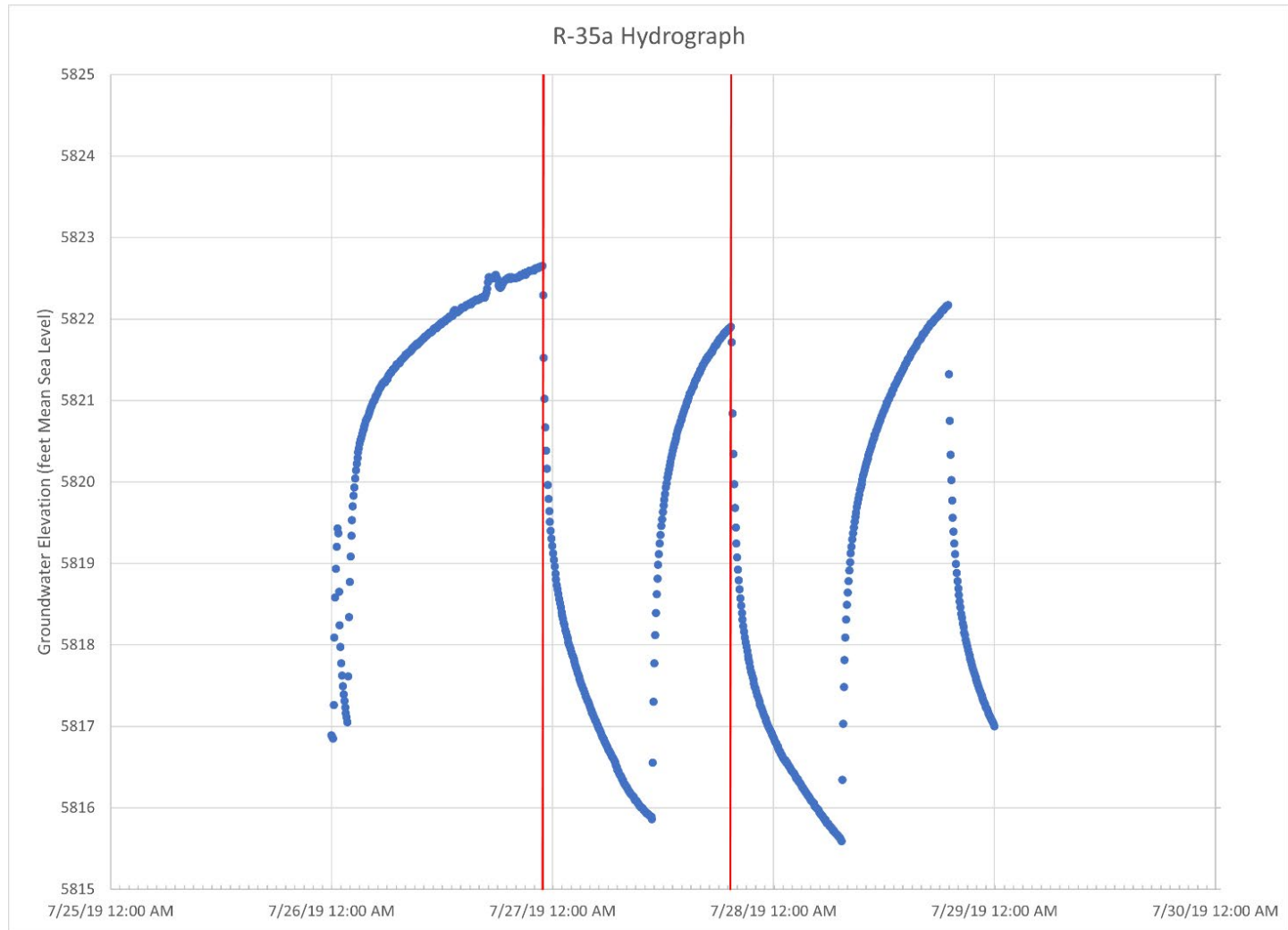
NMED:

- Spinner logs
- Pump settings
- Hydrograph
- LANL model

Used Intellus to obtain data

7/27-28/2019
1,450 GPM
Operation

Significant
effects recorded
at R-35a 345 ft
southwest





Potential Pathway Aquifer Properties

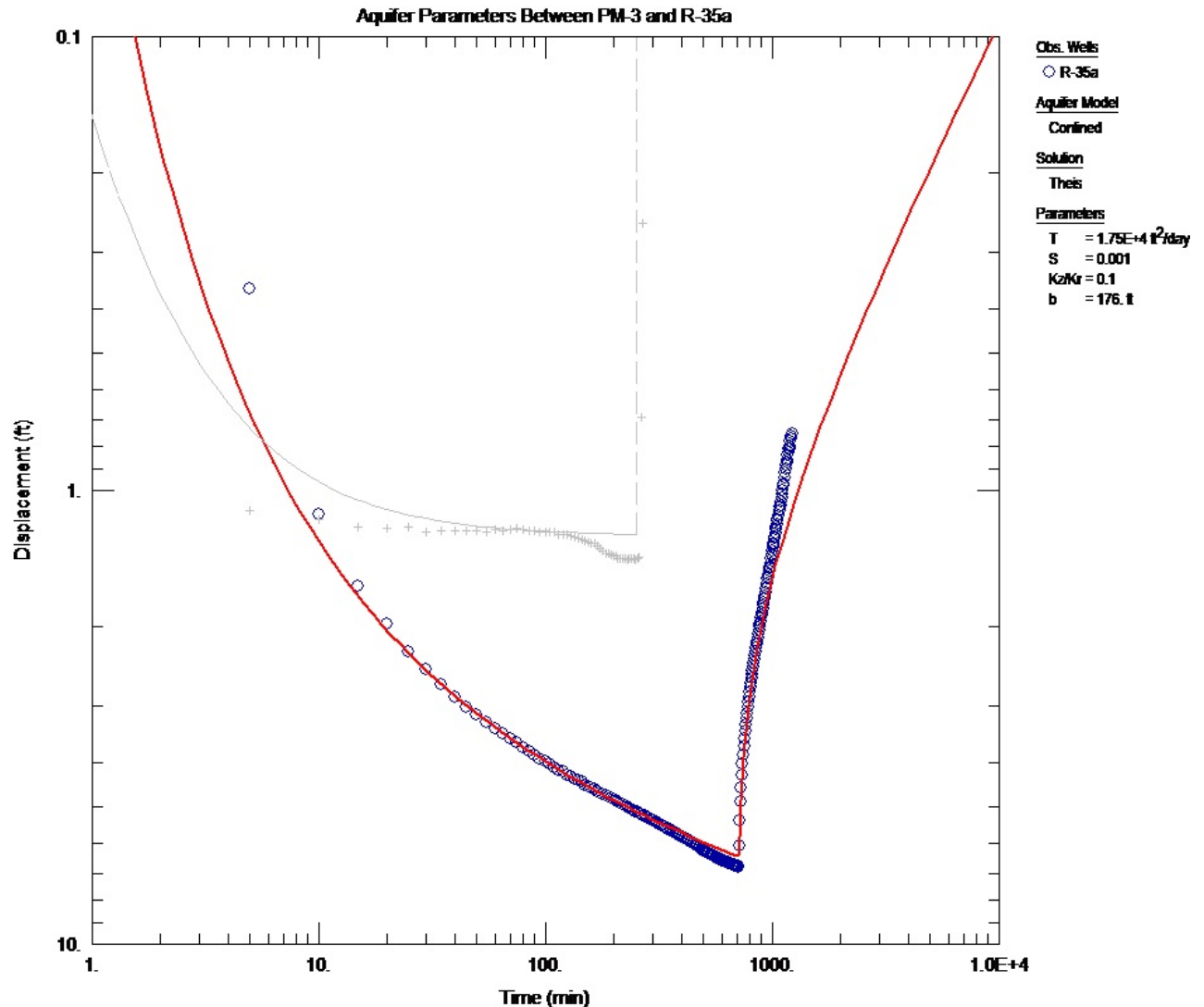
HydroSOLVE, Inc.
AQTESOLV®
software

Chamita Fm
pathway

R-73 to be in
Chamita Fm

FY2022
Milestone #7

R-35c FY2023
Target





Time to Reassess DOE's Strategy

NMED persuaded DOE to submit a new workplan that incorporates the new understanding of the system dynamics and goal for mass removal to move to final remedy. The new workplan is **FY2022 Milestone #2** due **September 30, 2022**, and should:

- Provide flexibility for adjustments to system operation
- Focus upon extraction to control migration and mass removal
- Address injection issues with NMED input
- Include groundwater flow modeling results with NMED input
- Be able to control migration through the entire plume depth
- Provide better metrics for performance evaluation
- Provide a basis for moving forward to corrective measures



Thank You!

QUESTIONS?

LANL Community Engagement Meeting, October 21, 2021
2016 Compliance Order on Consent Appendix B – Milestones and Targets – updated December 2021
<https://www.env.nm.gov/hazardous-waste/lanl/>

Data obtained from Intellus New Mexico and Electronic Public Reading Room
<https://www.intellusnm.com>
<https://ext.em-la.doe.gov/EPRR/>



County of Los Alamos

Staff Report

February 16, 2022

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 4.G.2.
Index (Council Goals):
Presenters: Cornell Wright, Chair of the Board of Public Utilities
Legislative File: 15516-22

Title

Approval of Revised Board of Public Utilities Meeting Calendar for 2022

Recommended Action

I move the Board of Public Utilities approve the proposed revisions to the 2022 BPU meeting calendar.

Staff Recommendation

Staff recommends that the Board of Public Utilities approved the proposed revisions to the 2022 BPU Meeting Calendar.

Body

Chair Wright would like members to discuss adding monthly work sessions to the BPU meeting calendar. He proposes that these meeting be held as needed, but be regularly scheduled for the first Wednesday of each month. Since there is already another B&C meeting on the first Wednesday of the month, Granicus broadcast of the work sessions through the public website is not possible. Chair Wright would like to hold these work sessions virtually over Zoom and a public link would be provided for each meeting.

Also, at the regular County Council meeting on February 1st, two additional holidays were approved that will be observed by Los Alamos County: Juneteenth (June 19th) and Indigineous People's Day (2nd Monday in October). These holidays have also been included on the revised calendar.

In accordance with Incorporated County of Los Alamos Resolution No. 21-01 regarding Open Meetings, notice of regular meetings of all county boards, commissions and policymaking bodies shall be given ten days in advance of the meeting date. **Each County board, commission and policymaking body may adopt a schedule of its regular meetings for the present calendar year or the balance thereof.** For purposes of paragraph 5 of the Resolution (regarding notice requirements), **notice of all regular meetings contained in such schedule is met if a copy of the schedule is posted and provided to the media as provided for in paragraph 5;** provided, however, that every County board, commission or policymaking body must still post and provide to the media a copy of the agenda prior to each regularly scheduled meeting as required under the Resolution.

Alternatives

The Board could choose not to approve the revisions to the 2022 calendar at this time or could make changes.

Fiscal and Staff Impact

None

Attachments

A - Revised 2022 BPU Meeting Calendar

2022 Los Alamos County Board of Public Utilities Meeting Calendar

Revised 02/16/2022

BPU WORK SESSION

1st Wednesday of the Month
5:30 pm (as needed).
Usually remote via Zoom.
*April 8, 11:00 am to 1:00 pm
IRP Presentation.

BPU REGULAR MEETING

3rd Wednesday of the Month
5:30pm, Council Chambers

BPU CHAIR, VICE-CHAIR & UTILITIES MANAGER

WebEx Mtg to Approve next
Months Agendas
Fourth Wednesday at noon

*Unless otherwise advertised,
the Board of Public Utilities
meets at 5:30 pm at
1000 Central Avenue in
Council Chambers.

*While COVID-19 social
distancing orders are
active, meetings will
be held remotely.*

Special meetings are
scheduled as needed and may
be held remotely or in
different locations. They are
not included on this calendar.

Agendas and special
meeting notices are published
at least 72 hours prior to
meetings. If you would like
to be added to the BPU
distribution list please e-mail
kathy.casados@lacnm.us.

Email Public Comments to:
bpu@lacnm.us.

*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 Human Resources at
505-662-8040 as soon as possible.*

*Public documents, including the
agenda and minutes, can be provided
in various accessible formats.
Please contact the
Department of Public Utilities at
505-662-8132 for more information.*

January

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December

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January 2023

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B&C LUNCHEONS

Council Chambers
(or REMOTE)



HOLIDAYS

On 2/1/22 Council approved
Juneteenth (June 19th) and
Indigenous Peoples' Day
(second Monday in October)
as observed holidays.

For videos, agendas and
minutes go to:

[losalamos.legistar.com/
Calendar.aspx](https://losalamos.legistar.com/Calendar.aspx)

and select
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DEPARTMENT OF
PUBLIC UTILITIES
LOS ALAMOS COUNTY
NEW MEXICO

Electricity, Water, Gas &
Wastewater Services

1000 Central Ave
Suite 130
Los Alamos, NM 87544

505.662.8333
Fax 505.662.8005
ladpu.com/DPU

* The BPU voted to schedule this regular
meeting on Dec 7 rather than Dec 21.



County of Los Alamos

Staff Report

February 16, 2022

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 4.G.3.
Index (Council Goals): DPU FY2021 - N/A
Presenters: Cornell Wright, Chair of the Board of Public Utilities
Legislative File: 14963-21

Title

Schedule and Selection of Members to Attend Boards & Commissions Luncheons for 2022

Recommended Action

None

Staff Recommendation

Staff recommends that Board members volunteer to represent the Board of Public Utilities at each luncheon.

Body

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. Lunch and drinks are provided and each representative is asked to give a brief written update for their group. These occur quarterly from 11:30 am - 1:00 pm, in Council Chambers; however, while COVID restrictions are in place, the location or format of the luncheons will be announced closer to the date.

The dates scheduled for this year are:

March 17, 2022

May 19, 2022

September 22, 2022

November 17, 2022

Board members should volunteer to represent the Board of Public Utilities at each luncheon.

Alternatives

The Board could choose not to assign members to attend the luncheons at this time.

Fiscal and Staff Impact

None

Attachments

None



County of Los Alamos

Staff Report

February 16, 2022

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 4.I.
Index (Council Goals):
Presenters: Board of Public Utilities
Legislative File: 15207-21

Title

Tickler File for the Next Three Months

Attachments

A - BPU Tickler Mar-May 2022



County of Los Alamos

Los Alamos, NM 87544
www.losalamosnm.us

BPU Tickler

March - May 2022

File Number	Title	
Agenda Date: 03/02/2022 (Work Session)		
15351-22	Status Report Department of Public Utilities Quarterly Report - FY22/Q2 Department Name: DPU Drop Dead Date:	08 Status Reports Length of Presentation: Sponsors: Philo Shelton and Catherine D'Anna
15419-22	Status Report Department of Public Utilities Annual Report - Fiscal Year 2021 Compiled by Public Relations Manager Department Name: DPU Drop Dead Date:	08 Status Reports Length of Presentation: Sponsors: Philo Shelton and Catherine D'Anna
15218-21	Presentation Open Meetings Act Review Department Name: DPU Drop Dead Date:	4. Board Business Length of Presentation: Sponsors: Philo Shelton and County Attorney
15553-22	Presentation Presentation and Discussion of Hexavalent Chromium Plume Control Interim Measures (by Danny Katzmann, N3B) Department Name: DPU Drop Dead Date:	Business Length of Presentation: Sponsors: Philo Shelton
15554-22	Presentation Presentation on Copper by Kristin Henderson of ____ Department Name: DPU Drop Dead Date:	Business Length of Presentation: Sponsors: Philo Shelton, Utilities Manager
Agenda Date: 03/16/2022		
15422-22	Presentation Presentation by Mr. Leonard regarding energy storage. [Enter Title Here] Department Name: DPU Drop Dead Date:	04 General Board Business Length of Presentation: Sponsors: Steve Tobin
14161-21	Construction Contract Approval for Construction Contract for Gas Border Station Metering, SCADA and Overpressure Protection Project Department Name: DPU	06 Consent Length of Presentation:

File Number	Title	
	Drop Dead Date:	Sponsors: James Alarid
AGR0817-21	General Services Agreement	06 Consent
	Approval of Services Agreement No. AGR 22-25 with [vendor] in the amount of \$[amount], plus Applicable Gross Receipts Tax, for the Purpose of Sewer Lift Station and WWTP Pump System Operation, Maintenance, Troubleshooting and Repair.	
	Department Name: DPU	Length of Presentation:
	Drop Dead Date:	Sponsors: Jack Richardson
AGR0818-21	General Services Agreement	06 Consent
	Approval of Services Agreement No. AGR 22-26 with [vendor] in the amount of \$[amount], plus Applicable Gross Receipts Tax, for the Purpose of Water Systems Well and Booster Station Operation, Maintenance, Troubleshooting and Repair.	
	Department Name: DPU	Length of Presentation:
	Drop Dead Date:	Sponsors: Jack Richardson
AGR0822-21	General Services Agreement	07 Business
	Approval of Services Agreement No. AGR__-__ with [vendor] in the amount of \$[amount], plus Applicable Gross Receipts Tax, for the Purpose of Water Systems Tank Design, Inspection and O&M Services	
	Department Name: DPU	Length of Presentation:
	Drop Dead Date:	Sponsors: Jack Richardson
15342-22	Briefing/Report (Dept,BCC) - Action Requested	07 Business
	Award of Task Order No. 5 with Allied 360, for the installation of two (2) DC fast chargers, in the Amount of \$67,578.00, plus contingency and applicable Gross Receipts Tax, approval of a Purchase Order No. for two (2) DC fast chargers and associated services from ChargePoint, in the Amount of \$79,770.00, plus Applicable Gross Receipts Tax, and approval of Budget Revision 2022-41 in the Amount of \$137,618.00.	
	Department Name: DPU	Length of Presentation:
	Drop Dead Date:	Sponsors: Steve Cummins and Engineering Associate Ben Olbrich
15352-22	Briefing/Report (Dept, BCC) - No action requested	4.D. County Manager's Report
	Briefing from County Manager on the County Strategic Objectives	
	Department Name: DPU	Length of Presentation:
	Drop Dead Date:	Sponsors: Steven Lynne
15208-21	Calendar	4.I. Preview
	Tickler File for the Next Three Months	
	Department Name: DPU	Length of Presentation:
	Drop Dead Date:	Sponsors: Board of Public Utilities
15214-21	Budget Item	6. Consent
	Approval of the calculation of Profit Transfer from Electric and Gas Funds for Operations during Fiscal Year 2021.	
	Department Name: DPU	Length of Presentation:
	Drop Dead Date:	Sponsors: Deputy Utilities Manager - Finance Heather Garcia

File Number	Title	
15212-21	Minutes Approval of Board of Public Utilities Meeting Minutes Department Name: DPU Drop Dead Date:	6.A. Minutes Length of Presentation: Sponsors: Board of Public Utilities
15215-21	Budget Item Approval of Department of Public Utilities FY2023 Budget Department Name: DPU Drop Dead Date:	7. Business Length of Presentation: Sponsors: Deputy Utilities Manager - Finance Heather Garcia
15219-21	Status Report Quarterly Conservation Program Update (at March, June, September, and December BPU Meetings.) Department Name: DPU Drop Dead Date:	8. Status Reports Length of Presentation: Sponsors: James Alarid
15210-21	Status Report Monthly Status Reports Department Name: DPU Drop Dead Date:	8.A. Monthly Status Reports Length of Presentation: Sponsors: Philo Shelton
Agenda Date: 04/20/2022		
15217-21	Briefing/Report (Dept,BCC) - Action Requested Options for Funds from the LA Green Program Department Name: DPU Drop Dead Date:	07. Business Length of Presentation: Sponsors: Philo Shelton and Steve Tobin
15272-21	Briefing/Report (Dept, BCC) - No action requested Quarterly Update on Utility System - Wastewater System Department Name: DPU Drop Dead Date:	08 Status Report Length of Presentation: ~ 30 min. Sponsors: Jack Richardson, Deputy Utilities Manager - GWS Services
15354-22	Status Report Status Reports Department Name: DPU Drop Dead Date:	08 Status Reports Length of Presentation: Sponsors: Philo Shelton
15355-22	Calendar Tickler File for the Next 3 Months Department Name: DPU Drop Dead Date:	4.I. Preview of Agenda Length of Presentation: Sponsors: Board of Public Utilities
15353-22	Minutes Approval of Board of Public Utilities Meeting Minutes Department Name: DPU	6.A. Minutes Length of Presentation:

File Number	Title
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Drop Dead Date:

Sponsors: Board of Public Utilities

Agenda Date: 05/18/2022

AGR0823-21	General Services Agreement Approval of Services Agreement No. AGR__-____ with [vendor] in the amount of \$[amount], plus Applicable Gross Receipts Tax, for the Purpose of Water Systems Mainline Isolation Valve Locate & Mark Services Department Name: DPU Drop Dead Date:	07 Business Length of Presentation: Sponsors: Jack Richardson
AGR0824-21	General Services Agreement Approval of Services Agreement No. AGR__-____ with [vendor] in the amount of \$[amount], plus Applicable Gross Receipts Tax, for the Purpose of Gas System Mainline Isolation Valve Locate & Mark Services Department Name: DPU Drop Dead Date:	07 Business Length of Presentation: Sponsors: Jack Richardson
AGR0821-21	General Services Agreement Approval of Services Agreement No. AGR__-____ with [vendor] in the amount of \$[amount], plus Applicable Gross Receipts Tax, for the Purpose of Water Systems SCADA Transition Study Department Name: DPU Drop Dead Date:	07 Business Length of Presentation: Sponsors: Jack Richardson
15356-22	Status Report Department of Public Utilities Quarterly Report - FY22/Q3 Department Name: DPU Drop Dead Date:	07 Business? Length of Presentation: Sponsors: Philo Shelton and Catherine D'Anna



County of Los Alamos

Staff Report

February 16, 2022

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 6.

Index (Council Goals):

Presenters: Board of Public Utilities

Legislative File: 15211-21

Title

Approval of Board of Public Utilities Meeting Minutes for January 2022

Recommended Action

I move that the Board of Public Utilities approve the meeting minutes as presented.

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 suggested changes.

Attachments

A - Draft BPU Regular Meeting Minutes - 01/19/2022

B - Utilities Manager Report - 01/19/2022



LOS ALAMOS

County of Los Alamos

Minutes

Board of Public Utilities

1000 Central Avenue
Los Alamos, NM 87544

*Cornell Wright, Chair; Steve Tobin, Vice-chair; Stephen McLin,
Eric Stromberg and Carrie Walker, Members
Philo Shelton, Ex Officio Member
Steven Lynne, Ex Officio Member
Denise Derkacs, Council Liaison*

Wednesday, January 19, 2022

5:30 PM

Remote meeting:
<https://us06web.zoom.us/j/86761105539>

REGULAR SESSION

1. CALL TO ORDER

The regular meeting of the Incorporated County of Los Alamos Board of Public Utilities was held on Wednesday, January 19, 2022 via Zoom video conferencing platform. Board Chair Cornell Wright called the meeting to order at 5:32 p.m. BPU members, staff and the public participated remotely. 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 notified of the ability to live-stream the meeting online and submit public comment during the meeting. The following board members were in attendance:

Present 6 - Chair Wright, Vice Chair McLin, Board Member Stromberg, Board Member Tobin, Board Member Shelton, Board Member Lynne

Absent 1 - Board Member Walker

2. PUBLIC COMMENT

Chair Wright opened the floor for public comment on items on the Consent Agenda and for those not otherwise included on the agenda. There was no public comment.

3. APPROVAL OF AGENDA

Member McLin moved that the agenda be approved as presented. The motion passed by the following vote:

Yes: 4 - Members Stromberg, Tobin, McLin, and Wright

Absent: 1 - Board Member Walker

4. BOARD BUSINESS

4.A. Chair's Report

Chair Wright reported on the following items:

- 1). He welcomed County Council Vice Chair Denise Derkacs as the new BPU Liaison. He also encouraged her to participate in discussions and provide the Council viewpoint. Chair Wright also commented that topics are often complex, so please ask questions of the Board and/or Mr. Shelton.
- 2). Made a recommendation to the board to consider adding work sessions to the meeting calendar. He is concerned with how full meetings have become and suggested moving presentations to a work session. Chair Wright asked Ms. Casados to draft a revised meeting calendar and include potential work sessions. He would like the board to discuss in February.

4.B. Board Member Reports

Only Member Tobin had a report.

4.B.1 [15347-22](#) Discussion of Advancing to a Request for Proposal for Solar + Storage

Chair Wright commented that this item grew out of some comments made during the self-evaluation. It seems to some board members that items are "spoon fed" and members would like to provide some board sponsored content. For this reason, Member Tobin prepared a presentation, and his slides were included in the meeting packet. Member Tobin commented that the presentation is not about the CFPP, except that, unless we create options of comparison, we will again be voting on the CFPP in isolation. Member Tobin summarized that the BPU owes it to the residents of LAC to have a competitive energy selection process. The 2017 IRP recommended Solar + Storage, both of which have experience large cost reductions since 2017, 33% and 50%, respectively. The NREL study, using data based on deployed equipment, puts the cost of solar plus storage above our average rate, yet with yearly falling prices. Member Tobin responded to board member inquiries and provided clarifying information as appropriate. Chair Wright would like to meet with Member Tobin and Mr. Shelton to draft a preliminary proposal and develop a motion for the board to discuss in February

4.C. Utilities Manager's Report

Mr. Shelton reviewed his written report which is **attached** to the minutes. He provided summarized comments and responded to board member inquiries as appropriate.

4.D. County Manager's Report

Mr. Lynne reported on the following items and responded to board member inquiries as appropriate:

- 1). He provided an update on the County's COVID response
- 2). State Legislative session began earlier in the week

4.E. Council Liaison's Report

Mr. Lynne introduced newly elected Council Vice-Chair Denise Derkacs. She reported on these recent Council agenda items:

- 1). Council's possible action for filling Councilor Robinson's vacancy.
- 2). 2022 Strategic Priorities Discussion
- 3). Approval Uniper & DPU Agreement
- 4). Approval of El Vado Transformer and Field Services
- 5). Approval of the White Rock Water Resource Reclamation Facility (WRRF) Construction Project
- 6). ARPA funds for DPU projects.
- 7). Approval of Bayo Booster Non-Potable Water Storage Tank Construction Project -

Phase I

8). Code Ordinance No 02-324, Redirecting DPU Profit Transfers by Council Action to the Joint Utility System Fund

Ms. Derkacs responded to board member inquiries as appropriate.

4.F. Environmental Sustainability Board Liaison's Report

Ms. Emerson reported on the following items and responded to board member inquiries as appropriate:

- 1). Collaborating with PEEC on Bee City.
- 2). Food Waste composting feasibility presentation by Mr. Cocher on commercial composting. Members looked at various sites, discussed pros/cons, and collections options.
- 3). Yard projects are continuing including distribution of yard trim roll carts and bear bins.
- 4). ESB participation in education and media at some local events.

4.F.1. [15345-22](#)

Los Alamos Resiliency, Energy and Sustainability (LARES) Task Force Budget Request

Mr. Shelton introduced Ms. Katie Leonard, a member of the Los Alamos Resiliency Energy & Sustainability Task Force. The LARES Task Force seeks to gain Board of Public Utilities feedback on the budget request items for FY23. The final report will be delivered to County Council by February 1, 2022. A copy of the presentation slides were included in the meeting packet.

The LARES Task Force approved the interim report on August 6, 2021. The interim report contains six sections of recommendations: General Recommendations, and recommendations in the areas of Community Planning & Zoning, Electricity Supply and Demand, Natural Gas Reduction, Transportation & Mobility, and Waste, Consumption & Natural Resources, all aiming to reduce our carbon footprint and mitigate climate change. The General Recommendations are presented in order of priority and action: Recommendations 2-5 will depend on recommendations zero (0) and one (1) being put into place.

Ms. Leonard responded to board member inquiries and provided clarifying information as appropriate.

4.G. General Board Business

4.G.1 [14957-21](#)

Affirmation of the Incorporated County of Los Alamos Open Meetings Resolution No. 22-01

Chair Wright reminded members that at the first County Council meeting of a new calendar year, Council passes an Open Meetings resolution that establishes minimum standards of reasonable notice to the public for all meetings of County boards, commissions, and policy making bodies. After the resolution is passed, the Board of Public Utilities reviews the resolution at the next regularly scheduled meeting and affirms the standards.

Board of Public Utilities Procedures Manual

Section 2.12.c Open Meetings Policy

"Each January the County Council passes and the BPU will affirm 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 policy-making bodies."

Member McLin moved that the Board of Public Utilities affirm Incorporated County Of Los Alamos Resolution No. 22-01; 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. The motion passed by the following vote:

Yes: 4 - Members Stromberg, Tobin, McLin, and Wright

Absent: 1 - Board Member Walker

4.G.2 [14959-21](#)

Election of Board of Public Utilities Chair and Vice-chair for 2022

Chair Wright reported that the Board is required by Ordinance to elect a chair and vice-chair annually in January.

LAC Ordinance Sec. 40-41. Board of public utilities - Organization

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 a regular meeting in January of each year. (LAC Ordinance Sec. 40-41. Board of public utilities - Organization.)

The board members reviewed and agreed to abide by the following procedure:

First use the following steps to elect a new Chair, and then repeat the process for the Vice-chair. After the Vice-chair is elected, the previous Chair continues to conduct the meeting. The outgoing Chair will continue to Chair the remainder of the January meeting through its conclusion, with the incoming Chair assuming Chair responsibilities immediately following conclusion of the January meeting.

- 1). The current Chair says "nominations are now in order for the office of Chair of the Board of Public Utilities"
- 2). Any member, including the chair, can nominate one person. After each nomination, the current Chair states that "[NAME] is nominated by Member [NAME]. Are there any further nominations?"
- 3). When it appears that there are no further nominations, the current Chair will ask once more for any final nominations. If there is no further response, the Chair will then declare the nomination closed.
- 4). Have a roll call vote for the Chair position.
- 5). If no one receives a majority of the votes and more than two nominations received votes, drop the nomination that received the fewest number of votes and the nominations that receive no votes and go back to step 4.
- 6). If there are only two nominations and the vote is a tie, try a second roll call vote. If that also results in a tie, the current Chair chooses between the two nominees.
- 7). If the person elected declines the position, go back to step 1 with the provision that said elected person may not be nominated again.

Nominations for Chair

Mr. Tobin nominated Mr. Wright.

Roll Call Vote

Mr. Tobin – Yes

Mr. Stromberg – Yes

Mr. McLin – Yes

Mr. Wright – Yes

Mr. Wright was re-elected Chair of the Board of Public Utilities with a vote of 4-0.

Nominations for Vice Chair

Mr. Stromberg nominated Mr. McLin

Mr. Wright nominated Mr. Tobin

Roll Call Vote

Mr. Tobin – Mr. Tobin,

Mr. Stromberg – Mr. McLin

Mr. McLin – Mr. Tobin

Mr. Wright – Mr. Tobin

Mr. Tobin was elected as Vice Chair of the Board of Public Utilities with a vote of 3-1.

4.G.3. [14949-21](#)

Approval of Meeting Agenda Outline for 2022

Chair reminded board members that Section 3.3 of the Board of Public Utilities Procedures Manual outlines an annual calendar of BPU activities. Annually at the January meeting, the Board is to review and approve the standard meeting agenda outline in section 3.4. The board discussed possible changes but then agreed to keep the same agenda format and may discuss changes to the procedural rules that would take care of issues with the agenda.

Mr. Wright moved that the Board of Public Utilities approve the 2022 meeting agenda outline as presented and stated that the board would consider changes to procedural rules to clarify that the consent agenda content will be considered at the same time. The motion passed by the following vote:

Yes: 4 - Members Stromberg, Tobin, McLin, and Wright

Absent: 1 - Board Member Walker

4.G.4. [14961-21](#)

Appointment of Board Member to Audit Committee for 2022

Mr. Stromberg volunteered to serve on the Audit Committee. Chair Wright accepted and formalized the appointment.

None

4.G.5. [15344-22](#)

Approval of Board of Public Utilities Annual Self-evaluation for 2021

Chair Wright collected evaluation notes from all board members included them and averaged the scores on the attachment provided in the meeting packet. He commented that the discussion was more useful to him than the scores. Chair Wright suggested that next evaluation consist of completing individual scoring and answering of open-ended questions ahead of time, then having a public discussion. He thought this would be a more meaningful way to conduct the evaluation. Chair Wright also summarized some of the answers to the open-ended questions in the attachment.

Mr. Stromberg moved that the Board of Public Utilities approve the 2021 Self-evaluation as presented. The vote passed by the following vote:

Yes: 4 - Members Stromberg, Tobin, McLin, and Wright

Absent: 1 - Board Member Walker

4.H. Approval of Board Expenses

There were none.

RECESS from 7:33 – 7:43 pm

4.I. Preview of Upcoming Agenda Items

4.I.. [14964-21](#) Tickler File for the Next Three Months

In addition to the items already listed in the tickler provided in the meeting packet, the following items were identified for upcoming meetings:

- 1). 02/16/2022: Member Wright would like to move the Electrical Vehicle item from Consent to Business
- 2). 04/20/2022: Options for Funds from the LA Green Program, Member Tobin

5. PUBLIC HEARING(S)

5.A. [CO0624-21-b](#) Incorporated County of Los Alamos Code Ordinance No. 02-325; An Ordinance Amending Chapter 40, Article III, Sections 40-201 and 40-202 of the Code of the Incorporated County of Los Alamos Pertaining to the Sewage Service Rate Schedule and Determination of Charges

Ms. Garcia highlighted some key points from the introduction of the Code Ordinance. Mr. Richardson the good news is that rate adjustments are inflationary reached a stable point with the wastewater fund and are excited to be able to maintain that. After the presentation, Chair Wright opened the floor for public comment on this Code Ordinance. There was none.

Mr. Tobin moved that the Board of Public Utilities approve Incorporated County of Los Alamos Code Ordinance No. 02-325; An Ordinance Amending Chapter 40, Article III, Sections 40-201 and 40-202 of the Code of the Incorporated County of Los Alamos Pertaining to the Sewage Service Rate Schedule and Determination of Charges, and forward to Council for adoption. The motion passed by the following vote:

Yes: 4 - Members Stromberg, Tobin, McLin, and Wright

Absent: 1 - Board Member Walker

6. CONSENT AGENDA

Member Stromberg moved 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. The motion passed by the following vote:

Yes: 4 - Members Stromberg, Tobin, McLin, and Wright

Absent: 1 - Board Member Walker

6.A. [14966-21](#) Approval of Board of Public Utilities Meeting Minutes

I move that the Board of Public Utilities approve the meeting minutes as presented.

6.B. [AGR0825-21](#) Approval of AGR22-930 with Paymentus Corporation in the Amount of \$120,000 plus Applicable Gross Receipts Tax for the Purpose of Credit Card and Electronic Bill Payment Services.

I move that the Board of Public Utilities approve Services Agreement AGR22-930 with Paymentus Corporation in the amount of \$120,000.00 plus applicable gross receipts tax and forward to Council for consideration.

7. BUSINESS

7.A. [15416-22](#) Approval of Budget Revision 2022-43 for Purchased Gas in the Gas Utility.

Ms. Garcia reported that Global demand on natural gas and increased reliance on gas as an alternative to coal, in addition the risk of severe weather events, has impacted supply of natural gas. Estimates used during the FY 2022 budget planning period, which were adjusted after the February Polar Vortex weather event in Texas, were \$2.80 per MMBTU. Prices have averaged \$4.76 per MMBTU for FY 2022, with prices hitting \$6.30 per MMBTU in January. FY 2022 total cost of gas purchases was budgeted at \$2,138,175, as of January 12th, 2022, \$1,766,232 has been spent. This is approximately eighty three percent of the budget with only fifty percent of the year completed.

Because several estimates are included in the year-end projection and there is a potential for further market response, staff is recommending an expenditure budget adjustment of \$3,000,000 for gas purchases. If these budget increases are not approved the only real alternative is to curtail projects and maintenance activities for the remainder of the year to cover these increased commodities expenditures with budget planned for other activities. The fiscal and staff impact would be \$3M additional for gas commodity cost in gas. All of the gas increase will be recovered through additional revenue, although some of that recovery may cross over into next fiscal year.

Member McLin moved that the Board approve Budget revision 2022-43 to authorize an increased budget for purchased natural gas in the Gas utility in the amount of \$3,000,000; as summarized on Attachment A, and that the attachment be made part of the minutes of this meeting. I further move that these actions be forwarded to Council with a recommendation for approval. The motion passed by the following vote:

Yes: 4 - Members Stromberg, Tobin, McLin, and Wright

Absent: 1 - Board Member Walker

8. STATUS REPORTS

8.A. [14885-21](#) Quarterly Conservation Program Update (Rescheduled from 12/15/2022)

Mr. Alarid reported that the Water and Energy Conservation Coordinator position was advertised this quarter and an offer has been made to the selected applicant. The position should be filled early in the new year, allowing our conservation program to be greatly expanded. One of the first assignments will be to update the existing conservation plan. Another is the implementation of the new customer portal included in the advanced metering infrastructure (AMI) project. We anticipate the portal to be online in the first quarter of 2022. The availability of 24/7 consumption data and the customer portal allowing customers to view their own consumption data provides a number of potential conservation opportunities.

Mr. Alarid responded to board member inquiries and provided clarifying information as appropriate.

8.B. [15271-21](#) Quarterly Update on Utility System - Water System

Mr. Richardson reviewed a slide presentation with detailed information on the GWS operations for the previous quarter. A copy of his presentation was included in the meeting packet.

Following are his summarized remarks:

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. 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 (FY23 & FY24) O&M Goals, Action Items and Major Projects.

The physical condition of each sub-system (DW = FAIR, WP = FAIR & NP = GOOD) are all basically unchanged from last year's report. A major difference is that now the physical condition assessment is calculated using the GWS GIS Asset Management Reporting tool developed over the previous 3 years. These new reports calculate a numeric value based on all individual asset's physical condition and risk assessment compiled into an

overall system Condition & Risk Assessment Score. The plan is to track these overall system scores on an annual basis to trend improvement (or deterioration) of the systems over time.

Capital improvements are proceeding as planned and it will be informative to track these numeric values for overall system condition to see the effects of infrastructure improvements on a year to year basis. Additional revenue from the Profit Transfer return agreement continues to benefit the DW system and very low interest State loan program 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 also continues to be prioritized for the near term future (10-year planning period).

Planned growth/expansion of the NP system along the Diamond Drive corridor is still limited until the second Group 12 Tank can be added to the NP system. However, a new approach to storage by re-purposing the Barranca Tank 1 storage tank from a WP asset to a NP asset would enable the NP system to expand to serve the Guaje Pines Cemetery. Also, with the completion of the upgraded Overlook Park Booster Station, NP system expansion throughout the White Rock area is now possible and planned within the current 10-year planning period.

The overall Water Fund financial condition is FAIR. Cash balances are well below the recommendations set by BPU financial policy - but with the proposed rate increases they trend very well over the 10-year planning period; consistently climbing to eventually meet financial policy goals. This is due to the continued positive effect of the policy to debt finance future major WP CIP projects and to begin a program of debt financing major DW CIP projects. By eliminating annual significant cash balance deductions through debt financing of major CIP projects the Water Fund's cash balances increase annually until meeting the financial policy goals. At the same time, the proposed rates and debt financing policy create a financial climate where the finances for all three sub-systems (DW, WP & NP) are aligned and all trending consistently toward meeting BPU financial policy goals. At any time in the future a reduction in debt financing can be implemented, once the cash balances have stabilized at recommended policy levels, when it is determined the cash balance reduction from a cash financed CIP project does not adversely affect the long term Water Fund's cash balance amount.

Mr. Richardson responded to board member inquiries and provided clarifying information as appropriate.

8.C. [14965-21](#)

Monthly Status Reports

Because of the length of the meeting Chair Wright recommended that board members review the reports provided in the meeting packet at their leisure. He suggested that they submit any questions to Mr. Shelton. Reports for December 2021 were provided on the status of:

- 1). Electric Reliability
- 2). Accounts Receivable
- 3). Safety

9. PUBLIC COMMENT

Chair Wright opened the floor for public comment on any items. There was no public comment.

10. ADJOURNMENT

The meeting adjourned at 8:53 p.m.

APPROVAL:

Board of Public Utilities Chair Name

Board of Public Utilities Chair Signature

Date Approved by the Board

**Utility Manager's Report
January 19, 2022**

1. Emergency Management has scheduled a meeting for next week to review the December snowsquall storm event that caused the extended power outage. In addition to damaged caused by 12 fallen trees onto the electric distribution lines, DPU did sustained approximately \$14,000 of damage to the solar panels on the landfill and needed to replace one transmission pole at El Vado.
2. Over the next month, the County has asked for employees who can telework to do so to help reduce the spread of the Omicron variant. This latest wave is impacting DPU's operations with one work group at half the staffing level last week due to COVID exposures or illness. DPU has made schedule adjustments to help reduce employee contact while maintaining minimum operations.
3. Attended the UAMPS Project Management Committee (PMC) Meeting regarding the CFPP. Work on the Standard Plant Design (SPD) and COLA preparation continue at a good pace and staying nearly on schedule. The level three cost estimate is due by the end of September 2022. LAC's subscription remains at 2.15-MW based on the investment cap of \$1.26 million.
4. For the PNM/Avangrid merger case (PRC Case Number 20-00222-UT), Avangrid has appeal the decision by the Public Regulatory Commission to the NM Supreme Court.
5. Participated in the informal hearings on the PNM Transmission Formula Rate Case. This week's discussions were positive and LAC and DOE hope to reach a settlement with PNM over the next month.
6. Met with IBEW regarding the County's proposal for an additional observed federal holiday, Juneteenth.
7. The SJGS ownership group has held two ownership meetings and continue to work on the term sheet with Farmington and Enchant. Once all these details are finalized, the term sheet will be brought back to BPU and Council for consideration.
8. Attended the N3B Technical Working Group meeting to finalize the discussion on the MDA-L interim measure. The Interim measure remains a soil vapor extraction system.
9. Sensus is still waiting to receive the balance of commercial meters to install due to supply chain issues. DPU requested a confirmation on a delivery date to help schedule the balance of meters to install. The Sensus Customer Portal is still on track to roll out in February.

10. Held two meetings on Tyler 311 and MyCivic software programs. Staff received a detailed presentation on the system capabilities, and we are in the process to complete a Tyler questionnaire required to help build the County's customized system. The goal remains to roll out its implementation by July 1, 2022.
11. The customer survey is ongoing with the on-line survey closing on January 25, the phone survey will be from January 26th until February 9th. A report will be completed by the end of February. The transactional survey will have a report generated after each quarter.
12. Participated as a member of the Board of Appeals in the Sirphey Hearing.
13. TRIAD approached staff over the holidays to help identify energy transition projects that both facilitate DOE's mission and can assist our communities related to the recently enacted Infrastructure Law which provides more than \$62 billion for DOE energy infrastructure and production projects. The Energy Community Alliance are reviewing these project requests and wants to ensure some of these funds are invested in the communities around DOE facilities. Below is the list of projects that TRIAD submitted for consideration.

LOS ALAMOS COUNTY / LOS ALAMOS NATIONAL LABORATORY ENERGY COMMUNITY ALLIANCE INFRASTRUCTURE BILL PROJECT PROPOSALS

January 7, 2022

1. **Purchase Small Modular Reactor (SMR)** module in the Carbon Free Power Project being developed by the Utah Associated Municipal Power Systems at the Idaho National Laboratory, to provide base load dispatchable power for Los Alamos National Laboratory (LANL), Sandia National Laboratory and Kirtland Airforce Base (SK). Los Alamos County (LAC) has an Electric Coordination Agreement with DOE-NNSA whereby we combine resources to serve the combined load for LANL and LAC. LANL accounts for 80% of the combined load and the remaining 20% is for the County residents and commercial businesses. Through the ECA, Los Alamos County's Power Operations is contracted to provide merchant desk services for SK.
 - **Benefits:** Development of this resource enables LANL to meet the EO goals 100 percent carbon pollution-free electricity on a net annual basis by 2030, including 50 percent 24/7 carbon pollution-free electricity. Having a carbon free dispatchable resource with a 95% capacity factor will support a resource portfolio with a high concentration of intermittent renewable resource using wind and solar. In addition, the new executive order is high bar to meet with wind and solar. Wind and Solar do not provide the much-needed flexibility to match generation to load needs. This one capital expenditure would help two New Mexico DOE Sites and one Airforce base.
 - **Costs:** \$834,000,000 for roughly 1/6 of the Plant. Can be used over 40 years at least, more likely 60-80 years. This projected cost is for capital only. O&M, Fuel, etc. can be negotiated through the Electric Coordination Agreement. The cost of power would be negotiated in a post 2025 ECA. Expected power delivery in 2030 to meet executive order for carbon neutral goal.
2. **Purchase Solar Plus Storage** adjacent to PNM interconnections to develop a 25 MW around the clock supply. Utility Scale is the most economic option for the resource due to economies of scale. Several projects have been identified through PNM's IRP and an opportunity to partner on land for additional capacity is possible. There is a need for 25 MW of clean energy Around the Clock requiring approximately 16 hours of storage resulting in a solar capacity need of approximately 100 MW of solar using a 25 % capacity factor.
 - **Benefits:** Development of this resource enables LANL to meet the EO goals 100 percent carbon pollution-free electricity on a net annual basis by 2030, including 50 percent 24/7 carbon pollution-free electricity. Take advantage of low costs of generation. Batteries allow for use of the cheap energy when it is most advantageous for the DOE Sites and partnering communities. The complimentary nature of solar production to an Industrial load such as the laboratories is ideal. The addition of battery capacity aids in avoidance of higher priced energy during the duck curve. By default, the community at large would benefit from the battery capacity due to cost

sharing nature of the Electric Coordination Agreement. Battery placement could support resiliency for critical infrastructure at the National Laboratories.

- **Costs:** 100,000KW it is roughly \$1,100/KW installed capacity equals \$110 M and Storage is roughly \$4,600 per kW in 2022 for 16 hours of storage per NREL. (\$4,600 x 25,000 kW = \$115M) Total project cost estimated at \$225M.

3. **Purchase Solar Development** - 10 MW located in Northern NM to supply LAC and LANL.

DOE/NNSA and Los Alamos County (LAC) have a long-standing cooperative contractual arrangement for electrical infrastructure and energy supply to Los Alamos National Laboratory (LANL) and LAC. Los Alamos and northern New Mexico are well positioned for development and use of PV energy. The LANL/LAC load has a 10 MW diurnal power consumption that matches well with PV energy production.

- **Benefits:** Support of electrification of DOE Fleet as well as personally owned vehicles due to access of charging stations.
- **Costs:** \$10M capital costs for the PV array for one or two of the proposed site. Other costs for installation and siting would be funded through a PPA with the developer.

Several potential sites will be evaluated to determine the best location.

- a. TA-16 (DOE/NNSA property, NEPA and execution ready). DOE/NNSA would provide a special purpose lease (or similar agreement) to LAC for third party development of an 8-10 MW PV array. Estimated power delivery in 2024.
- b. TA-21 (DOE/NNSA property, real estate transaction needed, cleanup needed, NEPA needed). DOE/NNSA would provide a special purpose lease (or similar agreement) to LAC for third party development of a 10 MW PV array. Estimated power delivery in 2030-31 dependent on final clean-up determination for the TA-21 site.
- c. Northern New Mexico College (NNMC) Tierra Amarilla PPA (would benefit college, no upfront costs). Funding provided to Northern New Mexico College for development of a 10 MW PV array on their property in Tierra Amarilla, NM. LAC would establish a PPA with Northern New Mexico College to provide power to LAC/LANL. Estimated delivery date would be 2025-26. Investment provides beneficial redevelopment of a site NNMC has no other planned use for and provides a long-term revenue stream for NNMC to support that institution.
- d. Cuyamungue PPA (tribal property) LAC would establish a PPA with developer to provide power to LAC/LANL. Estimated delivery date would be 2025-26. Investment provides a long-term revenue stream for tribal entities.

4. **Construct Commuter Transit Centers.** Development of commuter transit centers in Los Alamos, White Rock, and Espanola will enable the expansion of mass-transit options for LANL commuters. The transit centers will link regional transit services with local and LANL onsite transit options to provide an end-end commuting solution for LANL employees. The transit centers would include electric vehicle charging and hydrogen refueling capability for busses. A public private partnership would be possible to provide level 3 DC fast charging electric charging sites at these facilities to enable recharging of commuter and government vehicles. The change to central transit sites serves the Laboratory and regional sites in neighboring communities. This proposal couples with carbon free power resources to provide infrastructure for carbon-free

commuting options. The Los Alamos Transit Center would include a 450 space-parking garage and serve as a downtown development hub.

- **Benefits:** Support of electrification of LANL employee commuting as well as personally owned vehicles due to access of charging stations. Reduces LANL scope 3 emissions
- **Costs:** Los Alamos Transit Center \$33M (\$18M parking garage, \$4M hydrogen fueling site, \$1M bus charging station, \$10M site development. White Rock and Espanola Transit Centers \$10 M (\$1M bus charging, \$4M hydrogen fueling, and \$5M site development. EV Charging Station at select gas stations within the identified communities, \$1M.

The proposed sites are as follows:

- a. Los Alamos Townsite Center – primary transit center in the region to be in the central business district to include land acquisition, a parking structure to include indoor waiting area/restrooms and auto EV charging equipment, EV fast charging stations for buses, and hydrogen charging station.
 - b. White Rock Center – transit center to be in the White Rock community to include land acquisition, a parking structure to include indoor waiting area/restrooms and auto EV charging equipment, EV fast charging stations for buses and hydrogen charging station.
 - c. Espanola Park & Ride Facility – located in the City of Espanola near the intersection of US 285 and NM30 to include land acquisition, site development, and surface parking.
 - d. North Central Regional Transit District (NCRTD) Fueling Infrastructure – Located at the NCRTD headquarters site to include EV slow and fast charging stations for buses and a hydrogen charging station.
 - e. Equipment for fast EV charging stations for installation at gas stations in the communities of Los Alamos, White Rock, and Espanola to enable LANL commuters’ access to carbon free transportation fueling opportunities (\$1M).
5. **Construct Local Pumped Hydro** in conjunction with a local solar site this project would provide a level of resiliency to the National Laboratory. With available land and the topography of Los Alamos, a pumped hydro storage facility is more than possible. Due to the lack of infrastructure this type of project has been cost prohibitive however with monies made available Los Alamos is a prime destination for this project. Open reservoirs or tanks would also provide additional fire protection in the event of wildfires. This concept also relieves transmission import constraints in the future.
- Benefits: Local pumped hydro storage in conjunction with solar array to meet National Laboratory resiliency goals. This project would work in conjunction with renewable generation to provide around the clock generation.
 - Cost Range: \$2,250/kW, 50 MW \$112,500,000



County of Los Alamos

Staff Report

February 16, 2022

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: Deputy Utilities Manager - Finance Heather Garcia

Legislative File: 15213-21

Title

FY2023 & FY2024 Budget Presentation

Recommended Action

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

Staff Recommendation

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

Body

Attached is the proposed budget for FY2023 and the projected budget for FY2024. This is a two year-budget cycle with a proposed budget for the first year and a projected budget for the second year. Two years are presented to assist with the analysis of trends and spending. Next year, the projected budget for FY2024 will be updated and presented for approval.

The FY2023 expenditure budget overall as presented is \$1,846,224, or 2.09%, higher than the FY2022 budget that was approved in last year's budget process. This is primarily due to increases in labor costs, interdepartmental charges, and contractual services. Projected FY2024 budgets are \$4.1 million or 4.59% higher than FY2023 proposed budgets. This is largely in part to increases in debt service for bonds and increased capital costs proposed in Electric Distribution.

Budget revisions and carryovers have been included in FY2022 approved budgets. This adjustment has been added to calculate the projected ending cash balances more conservatively for FY2022. If these expenses are excluded there is a potential to overstate cash balances and underestimate needed increases in revenues.

Specifics in each Utility sub-fund are discussed below.

NOTE: this is a preliminary draft. Some input is 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

Currently DPU has 95 regular term FTEs, two limited term FTEs, and 3.65 FTEs Casual, Student and Temps. FY2023 budgets show an additional FTE being added to the GWS division. This was presented to the board in the Water Systems Quarterly Update in January 2022. This position is included in budgets of labor and salaries for the gas, water, and sewer funds. Also, included in the proposed budget for FY2023 is to convert 1 limited term FTE to a regular term FTE because this Associate Engineer who manages the profit transfer projects now has certainty to have funded profit transfer projects for the next five-year term with annual renewals according to the recently passed ordinance by Council. Finally, the administrative budget allows for double filling the Deputy Utilities

Manager for Gas Water Sewer because of a planned retirement.

Per County Budget Office guidance, salary adjustments for the coming year are estimated at a 5% increase, this increase is a combination of 3% adjustments to the salary grades and 2% for performance. A 3% increase is projected in the FY2024 salary and benefit costs. These increases are for employees outside of the collective bargaining agreements with DPU. Salary increases negotiated in existing union agreements with the United Association of Plumbers and Pipefitters and the International Brotherhood of Electrical Workers have also been included in both proposed and projected labor costs.

Budget Highlights

The ten-year capital plan and project descriptions are 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 6.2% are included in the proposed budgets for FY2023 (\$494,030 more than FY2022). This includes all planned salary increase guidance, the addition of the GWS FTE, plus additional funds in the “promotions/new hires” line item of the admin budget for double fill of planned retirement.
- * Increase 4.6% in benefits for increased medical insurance costs (\$143,351 more than FY2022) are included in the proposed FY2023 budget.
- * Overall increase in IDCs of 38.9%, \$1,167,876 total from FY2022, due to increased costs in other County budgets in FY2023.

Administration

The department admin budget, which includes Engineering, Public Relations, Finance and Admin, Billing, and Customer Care, increased by \$94,232, or 1.9% in FY2023 compared to the FY22 budget. The Finance and Admin Division proposal includes \$180,000 for investment advisors, bond rating review costs, and electric rate studies in support of the electric capital improvement plans included in the 10-year forecast. Three vacancies are included in labor costs for administration divisions, two in Finance and Administration and one in Public Information.

Electric Distribution

With the implementation of the AMI project, consumption and billing data needed to restructure rates is now available. DPU plans to hire a rate consultant to update and improve rate structures in electric distribution, however, a 5% flat increase to the current structure is reflected in the 10-year forecast and in revenues for FY2023 and FY2024. Due to an upward trend in the SADI, a more aggressive capital plan for Electric Distribution is being proposed. This includes the costs needed in debt service to bond for the \$30+ million-dollar project over the next ten years. The ten-year O&M budget forecast includes essentially inflationary increases of 1.5% per year after FY2023, except for In Lieu taxes, budgeted according to anticipated asset values and tax rates. Debt Service budgeted in FY2023 reflects current amortization schedules and starting in FY2024 debt service includes payments for \$24million in bonds estimated at 3.264% interest over 20 years. Overall operating expenses in ED are higher by \$1,338,760, due primarily to higher projected cost of power, which will be discussed further in the Electric Production section below.

Highlights:

- * Budget for contractual services for monthly safety training and tree trimming services (approx. \$160K total for these two items) continues in FY2023 and FY2024.

* Proposed capital budget for FY2023 includes \$350,000 for design of URD replacements and \$300,000 for overhead system and recloser replacements (in WR and LA). Projected capital budgets for FY2024 reflect plans to increase improvements in URD and Overhead systems. Projects for FY2024 total \$6,375,000.

* Two (2) vacancies are included in labor costs for ED.

Electric Production

The O&M budget for Electric Production is \$5.6M higher than FY2022, due primarily to increases in purchased power costs and costs associated with LANL system upgrades. LANL's load forecast is lower by 37,448 MWh this year compared to last year. Significant reductions in San Juan are due to the scheduled retirement of the plant in 2022. Plans to extend use of the plant for 3 additional months in FY2023 are being considered, if this comes to fruition then costs for the additional use will be updated in the March presentation. Upon closure of the plant, LAC will be responsible for funding 2.45% of projected decommissioning costs. These costs are not included in the FY2023 budget but are currently included in DPUs restricted cash balances. A separate budget revision, if needed, will be presented to BPU when the trust is required to be funded. Re-budgeted in FY2023 is the off ramp for the Carbon Free Power Project, LAC's obligation should that off ramp be taken is ~\$1.2M, if the off ramp is not taken, that accrued liability would carry over to the next off ramp or future project obligations.

Highlights:

* There is a significant increase of \$11,700,817 in cost for purchased power due to market projections of future power costs. These costs include the recently approved addition of the Uniper contract for 25MWs to start in the fall of 2022, as well as the Uniper contract for 15MWs of renewable energy. Budgets also include an additional 20,000 MWhs for Sandia Kirkland expected load forecasts.

* LANL Capital upgrades include the SCADA system and the new TA-3 Substation. Total costs for both projects is ~\$1.89 million.

Increases in Dispatch Center expenses are primarily due to increases in wages as discussed in previous sections.

* San Juan Operations budget decreases in FY 2023 due to closure of plant.

* Capital plans for FY2023 total \$145k. Projects include a diesel tank for the generator at the El Vado plant (\$85,000), and the extension of the concrete deck at the Abiquiu plant (\$60,000). FY2024 capital plans include upgrades to El Vado Controls, totaling \$500,000.

* There are no vacancies currently in Electric Production.

* \$16K is re-budgeted for plant wide LED lighting to be installed at both Hydro plants in the proposed budgets.

* Increases to station service expenses for El Vado is planned in FY2023 and FY2024 while the plant is down for the dam restoration project.

Gas

The NMMEAA deal guarantees a \$0.295/MMBTU discount, which is included in the budget for FY2023. Natural gas market prices remain uncertain, and gas purchases are budgeted at \$5.39/MMBTU in FY2023 including transportation (after the NMMEAA discount). This is based on market projections and include a 20% markup to avoid any revisions to the cost of gas budgets in FY2023. Excluding the cost of gas, O&M budgets for gas increased \$433,879 over FY2022.

Budgets presented in FY2022, predicted that increases to fixed costs for gas and service charges would be needed in FY2025. However, plans to spend down cash reserves in gas has accelerated much faster than anticipated due to increases in costs experienced in FY2021 and FY2022. An estimated 8% increase to these rates is included in the budget for FY2023 and FY2024. Currently the fixed cost of gas is \$0.23 per therm and \$9.50 for the monthly service charge, the proposed revisions to rates are \$0.248 per therm and \$10.26 in FY2023, and \$0.268 per therm and \$11.08 in FY2024.

Highlights:

- * Budgets for contractual services include on call assistance with main line maintenance, cathodic protection and PRV maintenance totaling \$42k in FY23. Budgets also include \$250k for contractual services for locating, marking, and replacing gas main valves approved by DPU in FY2022, as well as GIS upgrades of \$40k are planned.
- * Proposed FY2023 capital projects include the re-budgeted SCADA pressure sensing stations (\$375,000) and the Deacon Street project with the County Economic Development Department (\$85,000). SCADA pressure sensing station work continues in FY2024 (\$150,000).
- * Addition of one third of the proposed new FTE is included in salaries and benefit costs.
- * One (1) vacancy is included in labor costs, this position is in the GWS division and are split equally among the Gas, Water Distribution, and Wastewater Collection funds.

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 \$6.09M in projects funded with low interest Drinking Water State Revolving Loan funds and projects with the Economic Development and Public Works Departments of the County. Also included in the FY2023 CIP, is the repainting of Barranca Mesa Tank #2, which will be funded with ARPA funds appropriated by Council in January 2022.

The capital budget for water production and distribution continues to take advantage of the low interest rate financing available, and water sales appear to have stabilized more in line with the revised sales projections we adopted in FY18's budget cycle. However, rate increases are still needed to improve cash balances and meet target reserves for the utility. A projected 5% is forecasted for FY2023 and FY2024 for Water Production potable and non-potable rates, as well as Water Distribution rates. Additional projected rate increases are included in the 10-year forecast.

Highlights for Water Distribution

- * Include \$40k in other contractual services for GIS upgrades.
- * Budgets include \$50k for on call assistance with main line maintenance, as well as \$150K for valve locates, repairs and replacements in contractual services.
- * Budgeted in FY2023 and FY2024 is \$200k for meter change outs of approx. 1,200 meters.
- * Proposed FY2023 capital projects include phase one of the North Mesa distribution upgrades (\$871,594), and Deacon Street (\$212,775). Both projects are in conjunction with the Economic Development Department, totaling \$1,084,369.
- * FY2024 capital plan only includes the phase two of the Economic Development project for North Mesa distribution upgrades (\$871,594).

Highlights for Water Production

- * As in DW, included \$40k in other contractual services for GIS upgrades are presented in both proposed and projected budgets.
- * Continuation from FY2021, \$46k for on call assistance is planned in contractual services for transmission line maintenance, non-potable treatment system maintenance, and non-potable main and delivery line maintenance for both years presented. In addition, contractual services for well station maintenance, storage tank maintenance, and both WP and NP booster station maintenance is included in both years. These contract costs total \$307,000 annually.
- * Budgeted supplies for new control valves for wells and booster stations, and new pipeline valves are planned for transmission lines continuing in FY2023 and FY2024.
- * Also, in contractual services is \$50k for Contractor services to locate, mark, and if necessary, replace transmission line main valves for both proposed and projected years.
- * Budget includes \$50k in FY2023 for contractual services for a tabletop dam EAP in non-potable, and \$25K in FY2024.

* Proposed FY2023 capital projects include the repainting of Barranca Mesa tank 2 (ARPA and DWSRL, \$1,200,000, re-budgeted), Rose Street (\$322,980), four MCC design, grades and replacements (\$2,727,000, DWSRL), TA-50/Pajarito Road transmission line replacement (\$1,210,485, DOE/LANL funded), NP Bayo Tank phase II (WTB \$950,000, DWSRL \$1,979,880, project total \$2,929,880), SCADA transition project (\$1,500,000), NP LA Canyon restoration planning and permitting (\$300,000, NMED RSP Grant), and phase two tank piping upgrades (\$450,000). As indicated, most of these projects depend on loan or grant funding and will only be executed if that funding is realized. All projects total \$10,740,345 for FY2024.

Wastewater Division

The O&M budget in the wastewater division decreased by \$140,659, or 3%. This decrease is largely in part to the delay in debt service for the White Rock Wastewater Treatment Facility. Loan repayments are not due until one year after the project is completed, pushing these debt service amounts out to FY24. Currently, Wastewater rates are proposed to increase by 2% for FY2023. The public hearing for this rate ordinance is scheduled for Council on February 22, 2022. These rate increases have been incorporated into budgeted revenues.

Highlights:

- * As in Gas and Water, both WP and DW, budgets include \$40k in other contractual services for GIS upgrades, and \$80K for on call assistance with main line maintenance, corrective, and preventative maintenance at both WWTFs. New contract costs for manhole locates, repairs, and replacements of \$100K, as well as \$65K for SCADA consultant services are planned for both years presented.
- * Supplies budgeted in FY2023 and FY2024 include \$75k for new pumps and MCCs, and \$271k for a new screen and large equipment replacements at the LA WWTP.
- * Proposed FY23 capital projects include Arkansas area backyard sewer mains & services repair and replacement (\$269,000), Economic Development Deacon Street Project (\$418,686), Ridge Park sewer lift station elimination (\$300,000), Bayo Canyon sewer lift station elimination (\$1,200,000, CWSRL), re-budgeted from FY2022, and phase two of composting improvements (\$743,000). Total project costs of \$2,930,686.

Profit Transfer/ Budget Options

The Budget presented in attachments A - D and discussed above does not include projects proposed to be funded with Profit Transfer funds. A ten-year schedule of projected project recommendations is attached as Attachment E herewith. For FY2023, two projects are proposed to coordinate utilities infrastructure replacements with planned road construction along Arkansas and Rose St. Profit Transfer funding for FY2023 from sales totals \$1,099,466, and \$844,172 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

Not applicable.

Fiscal and Staff Impact

Explained in "Body" section.

Attachments

- A - FY2023 & 2024 Fund Flows
- B - Ten-Year Forecast FY2023 through FY2032
- C - Ten-Year Revenues, Expenses, and Cash Balance Graphs FY2023 through FY2032
- D - Ten-Year Capital Plan
- E - Schedule of Funds FY2024 through FY2032
- F - Five-Year Profit Transfer - Budget Option
- G - Financial Guidelines Approved by BPU 8/17/16

Los Alamos County Utilities Department
Fiscal Year 2023 2024 Budgets
Summary Of Expenditure Budget

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected	
Electric Production	33,416,117	40,420,167	41,985,130	46,617,235	45,710,885	
Electric Distribution	13,505,505	14,222,620	14,932,555	15,580,369	21,486,765	
Less Interdivision Electric Sales	(6,153,928)	(7,583,989)	(7,414,593)	(8,175,262)	(6,820,031)	
Total Electric Fund	\$ 40,767,694	\$ 47,058,798	\$ 49,503,092	\$ 54,022,342	\$ 60,377,620	
Gas	\$ 4,898,571	\$ 6,612,444	\$ 9,210,949	\$ 8,233,411	\$ 7,179,848	
Water Production	4,539,687	5,551,425	16,139,772	15,709,339	14,057,182	
Water Distribution	6,093,137	6,520,363	6,430,562	7,104,230	7,161,500	
Less Interdivision Water Sales	(3,471,324)	(3,887,029)	(3,200,750)	(3,363,500)	(3,534,000)	
Total Water Fund	\$ 7,161,499	\$ 8,184,759	\$ 19,369,585	\$ 19,450,069	\$ 17,684,682	
Wastewater	\$ 4,551,655	\$ 4,953,484	\$ 10,096,107	\$ 8,320,134	\$ 8,916,302	
Total Expenditure Budget	\$ 57,379,419	\$ 66,809,485	88,179,733	90,025,957	94,158,452	2.09%

Los Alamos County Utilities Department
Fiscal Year 2023 2024 Budgets
Summary of Expenditure Budget -- **ELECTRIC PRODUCTION**

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected
REVENUE					
Mwh Sales - LANL	429,776	410,404	528,331	490,882	490,439
Mwh Sales - LAC Distribution	107,226	107,285	118,015	123,551	126,723
Total Mwh Sales	537,001	517,689	646,346	614,433	617,161
Revenue per Mwh	\$ 54.80	\$ 63.56	\$ 53.74	\$ 58.17	\$ 54.19
DOE Revenues	\$ 23,276,163	\$ 25,322,540	\$ 27,323,123	\$ 27,568,622	\$ 26,626,615
Economy Sales	3,908,117	6,303,446	7,083,430	10,138,359	11,498,817
Interest on Reserves	283,540	546,803	130,000	130,000	130,000
Bond Federal Subsidy	32,089	32,089	33,984	33,984	30,867
TOTAL REVENUE	\$ 27,499,909	\$ 32,204,878	\$ 34,570,537	\$ 37,870,965	\$ 38,286,299
OPERATING EXPENSES					
El Vado Generation	\$ 399,938	\$ 576,805	\$ 539,174	\$ 554,697	\$ 562,908
Abiquiu Generation	254,476	419,164	418,709	381,408	379,267
Contract Administration	60,734	45,140	79,701	87,527	33,204
Load Control	1,658,124	1,728,677	1,652,415	1,707,936	1,755,972
Transmission - PNM	2,209,588	2,376,069	2,420,904	3,081,091	3,235,146
Transmission - Other	2,405,183	2,320,885	3,451,657	3,932,599	3,932,306
Purchased Power	10,957,265	18,130,479	18,002,245	29,703,062	29,768,540
Photovoltaic Array	-	7,371	5,000	65,000	15,000
Debt Service	2,501,744	2,507,890	941,029	601,674	599,256
Property Taxes	343,434	324,473	410,037	417,245	413,245
Insurance	93,167	108,179	100,000	104,000	106,100
San Juan Operations	9,347,412	8,901,460	8,090,447	796,000	608,000
Laramie River Operations	2,026,061	1,729,013	2,300,528	2,370,161	2,314,480
SMR Project	4,572	9,216	1,288,559	1,285,495	30,154
Non-Pool Expenses	70,894	136	-	-	-
Interdepartmental Charges	489,216	489,467	545,212	853,025	878,616
Administrative Allocation	594,310	590,750	574,513	531,315	578,691
TOTAL OPERATING EXPENSES	\$ 33,416,117	\$ 40,265,173	\$ 40,820,130	\$ 46,472,235	\$ 45,210,885
OPERATING INCOME (LOSS)	\$ (5,916,208)	\$ (8,060,295)	\$ (6,249,593)	\$ (8,601,271)	\$ (6,924,587)
CAPITAL EXPENDITURES					
Capital Expenditures	\$ -	\$ 154,994	\$ 1,165,000	\$ 145,000	\$ 500,000
Budget Revisions/Carryovers			\$ 1,311,928		
Net Change in Retirement Reserve Balances		(24,285)	(90,737)	(571,008)	(604,556)
OTHER FINANCING Forecast					
Transfer from Distribution Fund (Cost of Power)	\$ 6,153,928	\$ 7,583,989	\$ 7,414,593	\$ 8,175,262	\$ 6,820,031
NET INCOME (LOSS)	\$ 237,720	\$ (607,015)	\$ (1,221,191)	\$ (0)	\$ 0
Cash & Investments					
Unrestricted Cash	\$ (1,855,843)	\$ 1,087,068	\$ (374,273)	\$ (374,641)	\$ (413,479)
Total Unrestricted Cash & Investments	\$ (1,855,843)	\$ 1,087,068	\$ (374,273)	\$ (374,641)	\$ (413,479)
Restricted					
Bond Reserve & Debt Service	\$ 1,860,529	\$ 1,704,511	\$ 1,860,529	\$ 1,678,630	\$ 1,678,468
San Juan Decommissioning	\$ 5,819,476	\$ 6,341,693	\$ 6,196,276	\$ 6,196,276	\$ 6,196,276
San Juan Mine Reclamation	\$ 4,457,617	\$ 4,210,458	\$ 4,457,617	\$ 4,600,884	\$ 4,600,884
Laramie River Decommissioning	\$ 928,543	\$ 1,024,152	\$ 1,006,543	\$ 1,045,543	\$ 1,084,543
Operations Reserve	2,227,095	-	-	-	-
Contingency Reserve					
Total Restricted	\$ 15,293,260	\$ 13,280,814	\$ 13,520,965	\$ 13,521,333	\$ 13,560,171
Total Cash & Investments	\$ 13,437,417	\$ 14,367,882	\$ 13,146,692	\$ 13,146,691	\$ 13,146,692

Los Alamos County Utilities Department
Fiscal Year 2023 2024 Budgets
Summary of Expenditure Budget -- **ELECTRIC DISTRIBUTION**

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected
REVENUE					
kWh Sales	107,225,732	107,285,261	118,014,816	123,550,698	126,722,645
Revenue per kWh	\$ 0.1264	\$ 0.1283	\$ 0.1172	\$ 0.1231	\$ 0.1293
Sales Revenue	\$ 13,549,435	\$ 13,769,477	\$ 13,836,731	\$ 15,210,078	\$ 16,380,599
Interest on Utility Reserves	31,833	42,409	67,942	67,942	66,045
Bond Federal Subsidy	64,153	64,153	84,625	0	0
Pole Rentals	44,525	0	53,601	53,601	53,601
Misc. Service Revenues	25,259	14,371	54,500	54,500	54,500
Revenue on Recoverable Work	489,400	521,170	150,000	150,000	150,000
TOTAL REVENUE	\$ 14,204,604	\$ 14,411,579	\$ 14,247,399	\$ 15,536,122	\$ 16,704,745
OPERATING EXPENSES					
Supervision, Misc Direct Admin	805,210	755,810	761,575	858,402	863,287
Substation Maintenance	44,435	8,158	67,874	36,690	37,070
Switching Station Maintenance	11,773	9,831	102,553	83,292	73,215
Overhead Maintenance	436,163	444,228	566,638	586,028	593,274
Underground Maintenance	553,255	541,284	490,601	691,517	700,082
Meter Maintenance	101,631	146,176	91,283	106,650	108,390
Interdepartmental Charges	724,308	740,450	916,694	1,214,960	1,145,319
Eng. Cust Svc. MR and Admin	566,537	622,159	848,600	976,752	841,332
In Lieu Taxes & Franchise fee	558,068	539,721	543,256	564,406	587,816
Debt Service	1,232,687	1,234,400	1,133,909	982,377	2,637,584
Cost of Power	6,153,928	7,583,989	7,414,593	8,175,262	6,820,031
TOTAL OPERATING EXPENSES	\$ 11,187,995	\$ 12,626,206	\$ 12,937,576	\$ 14,276,336	\$ 14,407,400
OPERATING INCOME (LOSS)	\$ 3,016,609	\$ 1,785,373	\$ 1,309,823	\$ 1,259,786	\$ 2,297,345
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 1,741,890	\$ 1,014,190	\$ 1,400,000	\$ 650,000	\$ 6,375,000
Budget Revisions/Carryovers			2,304,271		
OTHER FINANCING					
Bond/Grant proceeds			\$ 200,000		\$ 6,375,000
Profit Transfer to General Fund	(575,620)	(582,224)	(594,979)	(654,033)	(704,366)
Sale of Scrap/Obsolete Inventory	(7,034)	(955)			
BUDGETED NET INCOME (LOSS)	\$ 706,133	\$ 189,913	\$ (2,789,427)	\$ (44,248)	\$ 1,592,980
Cash & Investments					
Total Unrestricted Cash & Investments	(1,103,002)	764,713	(2,047,595)	(2,079,215)	(652,993)
Donations Held in Trust		(33,348)			
Total Unrestricted Cash & Investments	\$ (1,103,002)	\$ 731,365	\$ (2,047,595)	\$ (2,079,215)	\$ (652,993)
Restricted					
Bond Reserve & Debt Service	1,393,594	1,349,044	1,338,576	1,325,949	1,492,706
Bond Construction Fund	-	-	-	-	-
Capital Replacement Reserve		-	-	-	-
Operations Reserve	1,401,517	-	-	-	-
Contingency Reserve	-	-	-	-	-
Rate Stabilization Reserve		-			
Total Restricted	\$ 2,795,111	\$ 1,349,044	\$ 1,338,576	\$ 1,325,949	\$ 1,492,706
Total Cash & Investments	\$ 1,692,108	\$ 2,080,408	\$ (709,019)	\$ (753,267)	\$ 839,713

Los Alamos County Utilities Department
Fiscal Year 2023 2024 Budgets
Summary of Expenditure Budget -- **GAS DISTRIBUTION**

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected
REVENUE					
Therm Sales	8,625,811	8,383,838	7,650,000	8,000,000	8,000,000
Revenue per Therm	\$ 0.5335	\$ 0.6730	\$ 1.4121	\$ 0.9257	\$ 0.8514
Sales Revenue	\$ 4,602,122	\$ 5,642,282	\$ 10,802,721	\$ 7,405,680	\$ 6,811,056
Interest on Utility Reserves	78,603	222,211	55,789	46,658	36,531
Revenue on Recoverable Work	69,784	59,307	20,605	20,914	21,227
TOTAL REVENUE	\$ 4,750,509	\$ 5,923,800	\$ 10,879,115	\$ 7,473,252	\$ 6,868,814
OPERATING EXPENSES					
Supervision, Misc Direct Admin	567,237	619,829	395,998	410,173	418,611
Customer Service	21,209	7,642	30,739	37,318	37,949
Gas Distribution	236,179	267,833	630,888	683,276	626,061
Gas Meters	104,481	49,470	121,955	133,565	135,809
Gas Capital Project Inspection & Support	-	747	-	-	-
Interdepartmental Charges	390,252	375,205	359,642	467,330	481,350
Eng. Cust Svc. MR and Admin	565,157	642,390	951,922	961,188	1,042,768
In Lieu Taxes & Franchise fee	193,704	208,880	192,144	424,316	412,423
Cost of Gas	1,841,663	3,269,116	5,138,175	4,310,400	3,556,800
TOTAL OPERATING EXPENSES	\$ 3,919,884	\$ 5,441,112	\$ 7,821,462	\$ 7,427,566	\$ 6,711,771
OPERATING INCOME (LOSS)	\$ 830,625	\$ 482,689	\$ 3,057,653	\$ 45,686	\$ 157,043
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 724,673	\$ 969,373	\$ 885,000	\$ 460,000	\$ 150,000
Budget Revisions/Carryovers			\$ 1,548,333		
OTHER FINANCING					
Loan/Grant Proceeds/Other Financing			\$ (535,000)	\$ (85,000)	\$ -
Profit Transfer to General Fund	(254,014)	(201,959)	(504,487)	(345,845)	(318,076)
Transfer to WW (FY18 budget revision)					
BUDGETED NET INCOME (LOSS)	\$ (148,062)	\$ (688,644)	\$ (415,167)	\$ (675,159)	\$ (311,033)
Cash & Investments					
Capital Replacement Reserve	816,000	425,947	425,947	444,542	444,542
Operations Reserve	1,266,326	1,341,644	1,341,644	1,558,583	1,558,583
Contingency Reserve	261,420	265,341	265,341	269,321	121,236
Rate Stabilization Reserve	-	-	-	-	-
Unrestricted Cash & Investments	1,690,764	1,492,789	1,077,622	162,948	0
Total Cash & Investments	\$ 4,034,510	\$ 3,525,721	\$ 3,110,554	\$ 2,435,395	\$ 2,124,361

Los Alamos County Utilities Department
Fiscal Year 2023 2024 Budgets
Summary of Expenditure Budget -- **WATER PRODUCTION**

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected
REVENUE					
Potable 1000-gallon production	1,131,886	1,141,059	1,150,000	1,150,000	1,150,000
Non-potable 1000-gallon production	96,236	107,377	94,500	108,600	136,500
Revenue per 1000 gallons	\$ 3.4188	\$ 3.7629	\$ 3.8164	\$ 3.9655	\$ 4.0762
 Potable Sales Revenue	\$ 4,198,750	\$ 4,697,739	\$ 4,749,500	\$ 4,991,000	\$ 5,244,000
Repayment of InterUtility Loan	187,569	169,152	187,569	187,569	187,569
Interest on Utility Reserves	137,032	481,735	11,764	81,318	41,273
Bond Federal Subsidy	26,038	26,038	27,576	27,576	21,338
Non Potable Revenue	255,989	291,331	194,708	234,837	310,019
TOTAL REVENUE	\$ 4,805,377	\$ 5,665,996	\$ 5,171,116	\$ 5,522,300	\$ 5,804,199
OPERATING EXPENSES					
Supervision, Misc Direct Admin	\$ 847,627	\$ 705,201	\$ 822,679	\$ 831,349	\$ 848,783
Pumping Power	444,952	513,511	550,000	600,000	600,000
Wells	139,500	236,541	217,339	225,545	228,755
Booster Pump Stations	85,917	123,481	180,646	312,165	315,208
Treatment	26,313	24,310	32,618	35,487	36,217
Storage Tanks	88,898	15,647	39,018	48,190	48,774
Transmission Lines	181,321	294,499	310,868	387,853	391,541
Capital Project Inspection & Support	248	-	-	-	-
Non Potable System	199,374	229,457	525,161	549,014	530,469
Ski Hill	4,760	429	5,035	4,819	4,878
Interdepartmental Charges	348,180	309,840	295,121	398,169	410,113
Eng. Cust Svc. MR and Admin	857,470	870,325	895,646	881,115	813,632
State Water Tax	36,330	38,172	40,000	40,500	41,000
 Debt Service	110,360	235,242	320,642	654,788	687,812
TOTAL OPERATING EXPENSES	\$ 3,371,250	\$ 3,596,656	\$ 4,234,772	\$ 4,968,994	\$ 4,957,182
OPERATING INCOME (LOSS)	\$ 1,434,127	\$ 2,069,340	\$ 936,344	\$ 553,306	\$ 847,016
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 1,168,437	\$ 1,954,770	\$ 11,905,000	\$ 10,740,345	\$ 9,100,000
Budget Revisions/Carryovers			\$ 7,907,286		
OTHER FINANCING					
Grants/Loan Proceeds	-	-	\$ 8,780,194	\$ 7,517,365	\$ 8,500,000
County/External Reimbursement		-	4,000,000		
Sale of scrap					
Transfer from Electric/Gas	829,634	-			
Transfer to Water Distribution					
BUDGETED NET INCOME (LOSS)	\$ 1,095,324	\$ 114,570	\$ (6,095,748)	\$ (2,669,674)	\$ 247,016
Cash & Investments					
Working Cash	\$ 5,522,274	\$ 9,433,091	\$ 3,323,596	\$ -	\$ -
Total Unrestricted Cash & Investments	\$ 5,522,274	\$ 9,433,091	\$ 3,323,596	\$ -	\$ -
Restricted					
Bond Debt Service & Reserve Fund	\$ 180,892	\$ 167,145	\$ 180,892	\$ 235,458	\$ 183,644
Operations Reserve	\$ 1,961,535	\$ 1,916,743	\$ 1,916,743	\$ 2,157,103	\$ 2,134,685
Contingency Reserve	\$ 784,259	\$ -	\$ -	\$ -	\$ -
Retirement/Reclamation Reserve	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Replacement Reserve	2,067,007	-		\$ 358,996.61	\$ 680,244.82
Total Restricted	\$ 4,993,693	\$ 2,083,888	\$ 2,097,635	\$ 2,751,557	\$ 2,998,574
Total Cash & Investments	\$ 10,515,967	\$ 11,516,979	\$ 5,421,231	\$ 2,751,557	\$ 2,998,574

Los Alamos County Utilities Department
Fiscal Year 2023 2024 Budgets
Summary of Expenditure Budget -- **WATER DISTRIBUTION**

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected
REVENUE					
Sales in Thousand of Gallons	834,930	834,519	775,000	775,000	775,000
Revenue per thousand gallons	\$ 6.7186	\$ 7.6712	\$ 7.5805	\$ 7.9595	\$ 8.3575
Sales Revenue	\$ 5,609,533	\$ 6,401,782	\$ 5,874,855	\$ 6,168,597	\$ 6,477,027
Interest on Utility Reserves	30,436	98,035	-	-	-
Revenue on Recoverable Work	26,194	62,324	15,453	15,685	15,920
Misc Service Revenues	129,961	19,687	15,453	15,685	15,920
TOTAL REVENUE	\$ 5,796,124	\$ 6,581,828	\$ 5,905,761	\$ 6,199,967	\$ 6,508,868
OPERATING EXPENSES					
Supervision, Misc Direct Admin	\$ 339,516	\$ 385,325	\$ 339,486	\$ 394,568	\$ 402,304
Hydrants	-	-	-	-	-
Water Distribution	386,202	414,672	508,985	559,740	565,263
Water Meters	235,805	436,297	457,266	469,611	475,721
Capital Project Inspections & Support	61	145	-	-	-
Interdepartmental Charges	333,420	284,998	281,102	378,546	389,903
Eng. Cust Svc. MR and Admin	518,994	532,728	890,974	853,896	922,715
Cost of Water	3,471,324	3,887,029	3,200,750	3,363,500	3,534,000
TOTAL OPERATING EXPENSES	\$ 5,285,323	\$ 5,941,195	\$ 5,678,562	\$ 6,019,861	\$ 6,289,906
OPERATING INCOME (LOSS)	\$ 510,801	\$ 640,633	\$ 227,199	\$ 180,106	\$ 218,962
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 807,814	\$ 579,168	\$ 752,000	\$ 1,084,369	\$ 871,594
Budget Revisions/Carryovers			\$ 2,096,196		
OTHER FINANCING					
Sale of Scrap and Obsolete Inventory	(2,794)	(3,696)			
Grants/Loan Proceeds/County				(1,084,369)	(871,594)
Transfer from Water Production					
BUDGETED NET INCOME (LOSS)	\$ (294,219)	\$ 65,161	\$ (2,620,997)	\$ 180,106	\$ 218,962
Cash & Investments					
Capital Replacement Reserve		\$ -			
Operations Reserve		-			
Contingency Reserve					
Working Cash	(2,134,986)	(1,652,714)	(4,273,711)	(4,093,605)	(3,874,643)
Total Cash & Investments	\$ (2,134,986)	\$ (1,652,714)	\$ (4,273,711)	\$ (4,093,605)	\$ (3,874,643)

Los Alamos County Utilities Department
Fiscal Year 2023 2024 Budgets
Summary of Expenditure Budget -- **WASTE WATER TREATMENT COLLECTION**

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected
REVENUE					
Thousand of Gallons Processed	450,124	392,000	430,000	430,000	430,000
Sales Revenue	\$ 5,853,949	\$ 6,036,819	\$ 6,390,560	\$ 6,516,432	\$ 6,644,515
Interest on Utility Reserves	90,527	376,048	171,746	144,918	143,915
Revenue on Recoverable Work	3,041	9,676	-	-	-
TOTAL REVENUE	\$ 5,947,517	\$ 6,422,543	\$ 6,562,306	\$ 6,661,350	\$ 6,788,430
OPERATING EXPENSES					
Supervision, Misc Direct Admin	\$ 375,635	\$ 344,599	\$ 386,304	\$ 409,984	\$ 418,997
Wastewater Collection	226,653	310,373	293,310	405,326	411,417
Lift Stations	250,062	336,785	384,622	421,932	426,329
Collection Capital Proj Inspection & Support	298	17	-	-	-
Wastewater Treatment	1,275,503	1,328,401	1,662,753	1,853,694	1,890,298
Interdepartmental Charges	545,364	501,760	518,376	761,430	784,273
Eng. Cust Svc. MR and Admin	678,662	778,474	787,148	838,768	686,179
Debt Service	696,409	696,363	1,497,594	698,314	2,108,809
TOTAL OPERATING EXPENSES	\$ 4,048,587	\$ 4,296,774	\$ 5,530,107	\$ 5,389,448	\$ 6,726,302
OPERATING INCOME (LOSS)	\$ 1,898,931	\$ 2,125,769	\$ 1,032,199	\$ 1,271,902	\$ 62,128
CAPITAL EXPENDITURES					
Capital Expenditures	\$ 503,068	\$ 656,710	\$ 4,566,000	\$ 2,930,686	\$ 2,190,000
Budget Revisions/Carryovers			\$ 31,006,746		
OTHER FINANCING					
Grant/Loan Proceeds	\$ -	\$ -	\$ 33,050,000	\$ 1,618,686	\$ 1,250,000
Transfer from Gas Dist (FY18 budget revision)					
BUDGETED NET INCOME (LOSS)	\$ 1,395,862	\$ 1,469,059	\$ (1,490,547)	\$ (40,098)	\$ (877,872)
Cash & Investments					
Capital Replacement Reserve	\$ 1,038,678	\$ 1,257,990	\$ 1,257,990	\$ 1,640,963	\$ 1,716,062
Operations Reserve	\$ 1,979,229	\$ 2,016,257	\$ 2,016,257	\$ 2,345,567	\$ 1,979,436
Contingency Reserve	\$ 365,987	\$ 371,477	\$ 371,477	\$ 377,049	\$ 377,133
Working Cash	\$ 1,096,873	\$ 2,923,778	\$ 1,433,231	\$ 675,277	\$ 88,354
Loan from Gas Division					
Total Unrestricted Cash & Investments	\$ 4,480,767	\$ 6,569,502	\$ 5,078,955	\$ 5,038,857	\$ 4,160,985
Restricted Loan Reserves	\$ 717,755	\$ 717,755	\$ 717,755	\$ 717,755	\$ 717,755
Total Cash & Investments	5,198,522	7,287,257	5,796,710	5,756,612	4,878,740

Los Alamos County Utilities Department
Fiscal Year 2023 2024 Budgets
Summary of Expenditure Budget -- **ADMIN**

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected
Meter Reading	333,108	343,894	202,906	210,589	216,847
Customer Service	643,275	681,202	608,005	671,937	692,095
Engineering	1,384,069	1,724,722	1,837,251	1,659,527	1,914,721
Electric Production	29,913	12,776	22,507	135,305	153,836
All Except EP	117,819	37,471	394,115	79,572	91,402
All Divisions	350,516	1,564,403	169,500	180,384	210,672
Electric Distribution	2,612	378.54	88,874	50,594	54,922
Gas Distribution	133,013	27,561	296,403	308,005	354,381
Water Distribution	113,422	21,405	246,766	232,671	266,760
Wastewater Collection & Treatment	107,630	40,097	278,556	332,237	384,699
Water Production	216,500	20,631	340,531	340,760	398,049
Administration	655,441	547,791	894,747	940,829	647,723
Electric Production	43,808	22,460	82,941	76,091	76,873
All Except EP	7,169	20,774	18,000	41,535	41,836
All Divisions	441,548	504,557	643,806	673,203	529,014
Electric Distribution	-	-	-	-	-
Water Production	505	-	150,000	150,000	-
Finance	642,523	619,892	979,319	1,131,072	976,603
Electric Production	1,054	1,414	176,661	1,500	1,545
All Except EP	397	-	136,472	191,489	194,233
All Divisions	573,199	618,478	666,186	758,083	780,825
Electric Distribution	-	-	-	180,000	-
Gas Distribution	-	-	-	-	-
Water Distribution	-	-	-	-	-
Wastewater Collection & Treatment	-	-	-	-	-
Management Audit	-	-	-	-	-
Public Information	206,234	181,924	484,357	486,863	495,109
Electric Production	-	-	-	-	-
All Except EP	154,854	180,231	483,857	486,863	495,109
All Divisions	-	1,694	500	-	-
Electric Distribution	6,420	-	-	-	-
Gas Distribution	12,936	-	-	-	-
Water Distribution	7,175	-	-	-	-
Wastewater Collection & Treatment	841	-	-	-	-
Water Production	936	-	-	-	-
Total Administrative Division	3,864,649	4,099,426	5,006,585	5,100,817	4,943,098

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

	FY2020 ACTUAL	FY2021 ACTUAL	FY2022 APPROVED BUDGET	FY2023 PROPOSED BUDGET	FY2024 Projected BUDGET
EP Cash & Investments - UNRESTRICTED	\$ (1,855,843)	\$ 1,087,068	\$ (374,273)	\$ (374,641)	\$ (413,479)
EP Cash & Investments - RESTRICTED	\$ 15,293,260	\$ 13,280,814	\$ 13,520,965	\$ 13,521,333	\$ 13,560,171
EP Cash & Investments - TOTAL	\$ 13,437,417	\$ 14,367,882	\$ 13,146,692	\$ 13,146,691	\$ 13,146,692
ED Cash & Investments - UNRESTRICTED	\$ (1,103,002)	\$ 731,365	\$ (2,047,595)	\$ (2,079,215)	\$ (652,993)
ED Cash & Investments - RESTRICTED	\$ 2,795,111	\$ 1,349,044	\$ 1,338,576	\$ 1,325,949	\$ 1,492,706
ED Cash & Investments - TOTAL	\$ 1,692,108	\$ 2,080,408	\$ (709,019)	\$ (753,267)	\$ 839,713
GAS Cash & Investments - UNRESTRICTED	\$ 4,034,510	\$ 3,525,721	\$ 3,110,554	\$ 2,435,395	\$ 2,124,361
GAS Cash & Investments - RESTRICTED	\$ -	\$ -	\$ -	\$ -	\$ -
GAS Cash & Investments - TOTAL	\$ 4,034,510	\$ 3,525,721	\$ 3,110,554	\$ 2,435,395	\$ 2,124,361
DW Cash & Investments - UNRESTRICTED	\$ (2,134,986)	\$ (1,652,714)	\$ (4,273,711)	\$ (4,093,605)	\$ (3,874,643)
DW Cash & Investments - RESTRICTED	\$ -	\$ -	\$ -	\$ -	\$ -
DW Cash & Investments - TOTAL	\$ (2,134,986)	\$ (1,652,714)	\$ (4,273,711)	\$ (4,093,605)	\$ (3,874,643)
WP Cash & Investments - UNRESTRICTED	\$ 5,522,274	\$ 9,433,091	\$ 3,323,596	\$ -	\$ -
WP Cash & Investments - RESTRICTED	\$ 4,993,693	\$ 2,083,888	\$ 2,097,635	\$ 2,751,557	\$ 2,998,574
WP Cash & Investments - TOTAL	\$ 10,515,967	\$ 11,516,979	\$ 5,421,231	\$ 2,751,557	\$ 2,998,574
WW Cash & Investments - UNRESTRICTED	\$ 4,480,767	\$ 6,569,502	\$ 5,078,955	\$ 5,038,857	\$ 4,160,985
WW Cash & Investments - RESTRICTED	\$ 717,755	\$ 717,755	\$ 717,755	\$ 717,755	\$ 717,755
WW Cash & Investments - TOTAL	\$ 5,198,522	\$ 7,287,257	\$ 5,796,710	\$ 5,756,612	\$ 4,878,740
DPU TOTAL Cash & Investments - UNRESTRICTED	8,943,719	19,694,033	4,817,526	926,790	1,344,232
DPU TOTAL Cash & Investments - RESTRICTED	23,799,820	17,431,501	17,674,931	18,316,594	18,769,205
DPU TOTAL Cash & Investments - TOTAL	<u>32,743,539</u>	<u>37,125,533</u>	<u>22,492,457</u>	<u>19,243,384</u>	<u>20,113,437</u>

Los Alamos County Department of Public Utilities
Fiscal Year 2023 2024
Budget Summary by Categories

	FY 2020 Actual	FY 2021 Actual	FY 2022 Approved	FY 2023 Proposed	FY 2024 Projected
Expenditures by Fund:					
Electric	40,767,694	47,058,798	49,503,092	54,022,342	60,377,620
Gas	4,898,571	6,612,444	9,210,949	8,233,411	7,179,848
Water	7,161,499	8,184,759	19,369,585	19,450,069	17,684,682
Wastewater	4,551,655	4,953,484	10,096,107	8,320,134	8,916,302
	57,379,419	66,809,485	88,179,733	90,025,957	94,158,452
Expenditures by Type:					
Salaries	5,912,836	7,587,230	8,007,924	8,501,954	8,735,212
Benefits	2,592,827	2,764,004	3,124,697	3,268,048	3,416,494
Contractual Services	30,527,303	39,169,359	43,868,825	49,341,259	46,831,959
Other Services	1,432,185	1,429,348	1,749,745	2,031,966	2,040,321
Materials/Supplies	1,126,352	1,455,925	2,082,455	1,937,275	1,908,247
Interfund Charges	4,460,571	729,163	5,921,203	5,999,134	5,837,417
IDCs	2,877,216	2,762,042	2,999,097	4,166,973	4,185,892
Capital Outlay	-	113,468	136,600	101,000	76,000
Bank Charges	-	799,728	-	-	-
Misc. Other Charges	2,367,929	3,477,809	-	39,000	39,000
Profit Transfer	829,634	784,183	1,099,466	999,879	1,022,442
Debt Service	4,541,200	4,673,895	3,893,174	2,937,154	6,033,462
Capital	4,576,015	5,162,758	20,303,132	15,803,133	18,975,104
Admin. & Gen. Allocation	(3,864,649)	(4,099,426)	(5,006,585)	(5,100,817)	(4,943,098)
	57,379,419	66,809,485	88,179,733	90,025,957	94,158,452
FTE Summary:					
Regular (full & part time)	94.00	95.00	95.00	96.00	96.00
Casual, student & temp.	4.60	5.65	4.98	4.98	4.98
	98.60	100.65	99.98	100.98	100.98
FTE by Division:					
Electric Production	12.80	12.83	13.83	13.83	13.83
Electric Distribution	13.20	13.17	13.17	13.17	13.17
Gas/Water/Sewer	27.83	23.45	23.45	24.45	24.45
Water Production	9.25	10.75	10.75	10.75	10.75
Wastewater Treatment	9.13	9.80	9.80	9.80	9.80
Administrative & General	26.40	29.65	29.65	29.65	29.65
	98.60	99.65	100.65	101.65	101.65

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Electric Distribution

	1.50%	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
Expenditure Forecast											
Supervision, Misc Direct Admin		858,402	863,287	876,236	889,380	902,721	916,261	930,005	943,955	958,115	972,486
Substation Maintenance		36,690	37,070	37,626	38,190	38,763	39,345	39,935	40,534	41,142	41,759
Switching Station Maintenance		83,292	73,215	74,313	75,428	76,559	77,708	78,873	80,056	81,257	82,476
Overhead Maintenance		586,028	593,274	602,173	611,206	620,374	629,679	639,125	648,711	658,442	668,319
Underground Maintenance		691,517	700,082	710,583	721,242	732,061	743,042	754,187	765,500	776,982	788,637
Meter Maintenance		106,650	108,390	110,016	111,666	113,341	115,041	116,767	118,518	120,296	122,101
Budget Revisions/Carryovers											
Interdepartmental Charges		1,214,960	1,145,319	1,162,499	1,179,936	1,197,635	1,215,600	1,233,834	1,252,341	1,271,126	1,290,193
Administrative Division Allocation		976,752	841,332	853,952	866,761	879,763	892,959	906,354	919,949	933,748	947,754
In Lieu Taxes & Franchise fee		564,406	587,816	465,061	482,704	501,236	516,802	528,936	545,701	549,966	544,368
Debt Service		982,377	2,637,584	2,668,623	2,831,118	2,814,777	2,808,179	2,788,592	2,779,121	2,286,743	2,285,760
Cost of Power		8,175,262	6,820,031	7,123,203	6,704,196	6,743,439	6,988,607	6,972,336	6,988,234	7,042,059	7,058,117
Total Operations Expenses		14,276,336	14,407,400	14,684,286	14,511,828	14,620,669	14,943,222	14,988,943	15,082,622	14,719,877	14,801,970
Capital		650,000	6,375,000	10,875,000	4,575,000	4,350,000	4,800,000	5,250,000	4,500,000	8,550,000	2,200,000
Capital Paid with Debt/Grants/Reimb		-	6,375,000	10,500,000	4,575,000	2,550,000	-	-	-	6,000,000	-
Total Expenses		14,926,336	14,407,400	15,059,286	14,511,828	16,420,669	19,743,222	20,238,943	19,582,622	17,269,877	17,001,970
Profit Transfer		654,033	704,366	752,631	790,564	830,408	863,873	889,962	926,008	935,176	923,141
Total Cash Requirements		15,580,369	15,111,765	15,811,917	15,302,391	17,251,077	20,607,096	21,128,906	20,508,630	18,205,053	17,925,111
Revenue Forecast											
KWh Sales		123,550,698	126,722,645	128,958,151	130,247,733	131,550,210	132,865,712	134,194,369	136,891,676	135,536,313	131,168,612
Revenue per KWh		\$0.1231	\$0.1293	\$0.1357	\$0.1412	\$0.1468	\$0.1512	\$0.1542	\$0.1573	\$0.1605	\$0.1637
Rate Increase Percentage		5.0%	5.0%	5.0%	4.0%	4.0%	3.0%	2.0%	2.0%	2.0%	2.0%
Total Sales Revenue		15,210,078	16,380,599	17,503,047	18,385,200	19,311,814	20,090,080	20,696,801	21,535,063	21,748,281	21,468,384
Bond Federal Subsidy		67,942	66,045	64,099	58,759	47,731	36,358	24,555	12,493	-	-
Interest on Utility Reserves		-	-	20,993	71,851	158,639	221,769	221,749	223,557	261,571	363,144
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		15,536,122	16,704,745	17,846,240	18,773,911	19,776,285	20,606,308	21,201,206	22,029,213	22,267,953	22,089,629
R&R and Cash Flows											
Net Cash Flow		(44,248)	1,592,980	2,034,323	3,471,520	2,525,207	(787)	72,301	1,520,584	4,062,901	4,164,518
Cumulative Net Cash Flow		(44,248)	1,548,732	3,583,055	7,054,574	9,579,782	9,578,994	9,651,295	11,171,879	15,234,779	19,399,298
Cash Balance		(753,267)	839,713	2,874,035	6,345,555	8,870,763	8,869,975	8,942,276	10,462,860	14,525,760	18,690,279
Recommended Cash Balance		13,843,406	13,941,989	14,038,687	13,486,816	13,788,304	14,967,589	16,934,142	16,969,562	16,804,963	18,008,209

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Electric Production

	1.50%	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
Total Cash Requirements		46,617,235	45,710,885	46,523,625	40,457,862	40,829,649	45,924,455	53,217,817	51,326,719	51,323,238	51,484,054
Net Change in Retirement Reserve Balances		(571,008)	(604,556)	(518,121)	631,904	652,427	622,325	285,009	143,293	(12,849)	10,163
	1.01%										
Revenue Forecast											
Mwh Sales - LANL		490,882	490,439	471,039	485,207	491,914	591,149	742,708	735,550	735,550	807,174
Mwh Sales - LAC Distribution		123,551	126,723	128,958	130,248	131,550	132,866	134,194	136,892	135,536	135,536
Total Mwh Sales		614,433	617,161	599,997	615,455	623,464	724,015	876,903	872,442	871,086	942,711
Revenue per Mwh		\$58.17	\$54.19	\$55.66	\$51.74	\$51.43	\$51.38	\$50.79	\$48.73	\$48.62	\$44.93
DOE Revenues		27,568,622	26,626,615	26,275,464	25,141,304	25,318,897	30,207,792	37,563,648	35,523,907	35,601,142	35,601,142
Economy Sales		10,138,359	11,498,817	12,967,290	8,458,283	8,617,753	8,583,156	8,541,770	8,679,458	8,840,801	9,001,617
Interest on Reserves		130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,001	130,001
Bond Federal Subsidy		33,984	30,867	27,669	24,080	19,561	14,900	10,063	5,120	-	-
Transfer from Distribution Fund		8,175,262	6,820,031	7,123,203	6,704,196	6,743,439	6,988,607	6,972,336	6,988,234	6,751,294	6,751,294
Total Cash Inflow		46,046,227	45,106,329	46,523,625	40,457,862	40,829,649	45,924,455	53,217,817	51,326,719	51,323,238	51,484,054
Net Cash Flow		(0)	0	518,121	(631,904)	(652,427)	(622,325)	(285,009)	(143,293)	12,849	(10,163)
Cumulative Net Cash Flow		(0)	(0)	518,121	(113,783)	(766,210)	(1,388,535)	(1,673,544)	(1,816,837)	(1,803,988)	(1,814,151)
Cash Balance		13,146,691	13,146,692	13,664,812	13,032,908	12,380,481	11,758,156	11,473,148	11,329,855	11,342,704	11,332,541
Recommended Cash Balance		19,342,866	19,229,595	18,472,702	18,117,720	17,764,829	18,108,639	18,210,970	18,539,634	17,305,133	17,762,091
Reserves											
Retirement/Reclamation Reserve		9,919,257	10,343,349	9,401,546	9,118,462	8,814,322	8,541,507	8,606,708	8,962,375	9,336,671	9,726,165
Identified items on site		323,185	328,033	332,953	337,948	343,017	348,162	353,385	358,685	364,066	369,527
San Juan Decommissioning		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	7,851,267
Laramie River Decommissioning		916,980	955,980	994,980	1,033,980	1,072,980	1,111,980	1,150,980	1,189,980	1,228,980	1,267,980
San Juan Mine Reclamation		3,027,272	3,219,116	2,044,992	1,529,514	992,905	487,545	320,124	292,379	266,228	237,391

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023 through FY2032
Electric Fund Cash Reserve Analysis

	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
ELECTRIC DIST & PROD CASH RESERVES										
Combined Cash Balance ED & EP	12,393,424	13,986,404	16,538,848	19,378,463	21,251,244	20,628,132	20,415,424	21,792,715	25,868,464	30,022,820
Recommended Cash Balance (ED)	13,843,406	13,941,989	14,038,687	13,486,816	13,788,304	14,967,589	16,934,142	16,969,562	16,804,963	18,008,209
Recommended Cash Balance (EP)	19,342,866	19,229,595	18,472,702	18,117,720	17,764,829	18,108,639	18,210,970	18,539,634	17,305,133	17,762,091
Recommended Cash Balance	33,186,271	33,171,584	32,511,389	31,604,537	31,553,133	33,076,228	35,145,112	35,509,195	34,110,095	35,770,300
TARGET RESERVE BALANCES										
Debt Service Reserve	3,004,619	3,142,351	3,143,925	3,156,663	3,154,777	3,154,122	3,152,037	3,150,477	1,434,646	1,434,564
Retirement/Reclamation Reserve	9,919,257	10,343,349	9,401,546	9,118,462	8,814,322	8,541,507	8,606,708	8,962,375	9,336,671	9,726,165
Identified items on site	323,185	328,033	332,953	337,948	343,017	348,162	353,385	358,685	364,066	369,527
San Juan Decommissioning	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	7,851,267
Laramie River Decommissioning	916,980	955,980	994,980	1,033,980	1,072,980	1,111,980	1,150,980	1,189,980	1,228,980	1,267,980
San Juan Mine Reclamation	3,027,272	3,219,116	2,044,992	1,529,514	992,905	487,545	320,124	292,379	266,228	237,391
Operations Reserve	9,060,017	8,435,197	8,588,934	8,558,266	8,553,007	9,211,729	9,290,102	9,307,494	9,411,401	9,512,375
Capital Expenditures Reserve	2,446,431	2,531,210	2,698,093	2,978,367	3,095,601	3,207,070	3,330,070	3,464,601	3,579,913	3,799,007
Contingency Reserve	538,642	546,722	554,922	563,246	571,695	580,270	588,974	597,809	606,776	615,878
Rate Stabilization Reserve	8,217,306	8,172,755	8,123,968	7,229,534	7,363,730	8,381,529	10,177,221	10,026,438	9,740,687	10,682,311
	33,186,271	33,171,584	32,511,389	31,604,537	31,553,133	33,076,228	35,145,112	35,509,195	34,110,095	35,770,300
RESERVE BALANCE FORECAST										
Debt Service Reserve	3,004,578	3,171,173	3,172,747	3,185,485	3,183,599	3,182,944	3,180,859	3,179,300	1,463,468	1,463,386
Retirement/Reclamation Reserve	11,842,703	11,881,703	11,920,703	11,959,703	11,998,703	12,037,703	12,076,703	12,115,703	12,154,703	12,193,703
Operations Reserve	-	-	1,378,744	2,488,257	2,531,226	2,573,218	2,614,008	2,657,633	2,695,537	2,729,047
Capital Expenditures Reserve	-	-	-	1,725,769	1,843,003	1,954,472	2,077,472	2,212,003	2,327,316	2,546,410
Rate Stabilization Reserve	-	-	-	622,696	2,989,061	2,835,363	2,745,506	4,088,722	8,039,439	10,682,311
Contingency Reserve	-	-	-	-	-	-	-	-	-	615,878
Total Cash Remaining	(2,453,857)	(1,066,472)	66,653	(603,446)	(1,294,350)	(1,955,569)	(2,279,125)	(2,460,648)	(811,999)	407,963

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Gas Distribution

	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
1.50%										
Expenditure Forecast										
Supervision, Misc Direct Admin	410,173	418,611	424,890	431,264	437,732	444,298	450,963	457,727	464,593	471,562
Customer Service	37,318	37,949	38,518	39,096	39,682	40,278	40,882	41,495	42,118	42,749
Gas Distribution	683,276	626,061	635,452	644,984	654,658	664,478	674,446	684,562	694,831	705,253
Gas Meters	133,565	135,809	137,846	139,914	142,013	144,143	146,305	148,499	150,727	152,988
Capital Support & Inspection	-	-	-	-	-	-	-	-	-	-
Interdepartmental Charges	467,330	481,350	488,570	495,899	503,337	510,887	518,551	526,329	534,224	542,237
Administrative Division Allocation	961,188	1,042,768	1,058,410	1,074,286	1,090,400	1,106,756	1,123,357	1,140,208	1,157,311	1,174,670
In Lieu Taxes & Franchise fee	424,316	412,423	412,423	412,423	412,423	412,423	412,423	412,423	412,423	412,423
Budget Revisions/Carryovers										
Cost of Gas	4,310,400	3,556,800	3,600,000	3,203,200	3,203,200	3,296,800	3,369,600	3,458,000	3,567,200	3,692,000
TOTAL Operations Expenses	7,427,566	6,711,771	6,796,109	6,441,065	6,483,446	6,620,064	6,736,526	6,869,244	7,023,426	7,193,883
Capital	460,000	150,000	75,000	150,000	75,000	75,000	75,000	75,000	75,000	75,000
Less Capital Paid by Other	(85,000)	-	-	-	-	-	-	-	-	-
Total Expenses	7,802,566	6,861,771	6,871,109	6,591,065	6,558,446	6,695,064	6,811,526	6,944,244	7,098,426	7,268,883
Profit Transfer	345,845	318,076	328,112	318,241	322,649	329,744	336,937	343,190	350,947	359,484
TOTAL Cash Requirements	8,148,411	7,179,848	7,199,221	6,909,306	6,881,095	7,024,808	7,148,463	7,287,434	7,449,373	7,628,368
Total Cash Requirements less COG	3,838,011	3,623,048	3,599,221	3,706,106	3,677,895	3,728,008	3,778,863	3,829,434	3,882,173	3,936,368
Revenue Forecast										
Therm Sales	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000
Revenue per Therm	\$ 0.248	\$ 0.268	\$ 0.290	\$ 0.313	\$ 0.329	\$ 0.338	\$ 0.349	\$ 0.356	\$ 0.363	\$ 0.370
Service Charge	\$ 10.26	\$ 11.08	\$ 11.97	\$ 12.92	\$ 13.57	\$ 13.98	\$ 14.40	\$ 14.69	\$ 14.98	\$ 15.28
Rate Increase Percentage	8.00%	8.00%	8.00%	8.00%	5.00%	3.00%	3.00%	2.00%	2.00%	2.00%
Cost of Gas Sales Revenue	4,310,400	3,556,800	3,600,000	3,203,200	3,203,200	3,296,800	3,369,600	3,458,000	3,567,200	3,692,000
Sales Rev from Svc Chg	1,108,080	1,108,080	1,108,080	1,108,080	1,077,300	1,056,780	1,056,780	1,046,520	1,046,520	1,046,520
Sales Rev from Fixed	1,987,200	2,146,176	2,317,870	2,503,300	2,628,465	2,707,319	2,788,538	2,844,309	2,901,195	2,959,219
Total Sales Revenue	7,405,680	6,811,056	7,025,950	6,814,580	6,908,965	7,060,899	7,214,918	7,348,829	7,514,915	7,697,739
Interest on Utility Reserves	46,658	36,531	31,865	30,068	29,426	30,618	31,957	33,776	35,552	37,421
Revenue on Recoverable Work	20,914	21,227	21,546	21,869	22,197	22,530	22,868	23,211	23,559	23,912
TOTAL Cash Inflow	7,473,252	6,868,814	7,079,361	6,866,516	6,960,587	7,114,047	7,269,743	7,405,816	7,574,026	7,759,073
R&R and Cash Flows										
Net Cash Flow	(675,159)	(311,033)	(119,860)	(42,790)	79,492	89,239	121,280	118,381	124,653	130,705
Cummulative net cash flow	(675,159)	(986,193)	(1,106,053)	(1,148,843)	(1,069,350)	(980,111)	(858,832)	(740,450)	(615,798)	(485,092)
Cash Balance	2,435,395	2,124,361	2,004,501	1,961,712	2,041,204	2,130,443	2,251,722	2,370,104	2,494,757	2,625,462
Recommended Cash Balance	2,272,446	2,307,176	2,335,690	2,362,651	2,391,910	2,419,628	2,447,733	2,476,231	2,505,128	2,534,429

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023 through FY2032
Gas Cash Reserve Analysis

	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
GAS UTILITY CASH RESERVES										
Cash Balance	2,435,395	2,124,361	2,004,501	1,961,712	2,041,204	2,130,443	2,251,722	2,370,104	2,494,757	2,625,462
Recommended Cash Balance	2,272,446	2,307,176	2,335,690	2,362,651	2,391,910	2,419,628	2,447,733	2,476,231	2,505,128	2,534,429
TARGET RESERVE BALANCES										
Operations Reserve	1,558,583	1,577,486	1,598,055	1,618,932	1,640,123	1,661,632	1,683,463	1,705,622	1,728,113	1,750,942
Capital Expenditures Reserve	444,542	456,330	460,174	462,096	465,939	467,861	469,783	471,705	473,627	475,549
Contingency Reserve	269,321	273,361	277,461	281,623	285,847	290,135	294,487	298,905	303,388	307,939
Rate Stabilization Reserve*	-	-	-	-	-	-	-	-	-	-
	2,272,446	2,307,176	2,335,690	2,362,651	2,391,910	2,419,628	2,447,733	2,476,231	2,505,128	2,534,429
RESERVE BALANCE FORECAST										
Operations Reserve	1,558,583	1,558,583	1,558,583	1,558,583	1,638,075	1,661,632	1,683,463	1,705,622	1,728,113	1,750,942
Capital Expenditures Reserve	444,542	444,542	444,542	403,129	403,129	467,861	469,783	471,705	473,627	475,549
Contingency Reserve	269,321	121,236	1,376	(0)	(0)	950	98,476	192,777	293,017	307,939
Rate Stabilization Reserve*	-	-	-	-	-	-	-	-	-	-
Total Cash Remaining	162,948	0	-	-	-	-	-	-	-	91,032

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

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Water Production

	1.50%	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
Expenditure Forecast											
Supervision and Operations		831,349	848,783	861,515	874,437	887,554	900,867	914,380	928,096	942,017	956,148
Pumping Power		600,000	600,000	609,000	618,135	627,407	636,818	646,370	656,066	665,907	675,896
Wells		225,545	228,755	232,186	235,669	239,204	242,792	246,434	250,131	253,883	257,691
Booster Pump Stations		312,165	315,208	319,936	324,735	329,606	334,550	339,569	344,662	349,832	355,079
Treatment		35,487	36,217	36,760	37,312	37,871	38,439	39,016	39,601	40,195	40,798
Storage Tanks		48,190	48,774	49,506	50,248	51,002	51,767	52,543	53,332	54,132	54,944
Transmission Lines		387,853	391,541	397,414	403,375	409,426	415,567	421,801	428,128	434,550	441,068
Capital Project Inspection & Support		-	-	-	-	-	-	-	-	-	-
Non Potable System		549,014	530,469	538,426	546,502	554,700	563,020	571,466	580,038	588,738	597,569
Ski Hill		4,819	4,878	4,951	5,025	5,101	5,177	5,255	5,334	5,414	5,495
Interdepartmental Charges		398,169	410,113	416,265	422,509	428,846	435,279	441,808	448,435	455,162	461,989
Administrative Division Allocation		881,115	813,632	825,836	838,224	850,797	863,559	876,513	889,660	903,005	916,550
State Water Tax		40,500	41,000	41,615	42,239	42,873	43,516	44,169	44,831	45,504	46,186
Debt Service		654,788	687,812	1,006,506	1,084,048	1,253,339	1,441,399	1,787,656	1,928,988	2,170,935	2,695,563
Budget Revisions/Carryovers											
Capital		10,740,345	9,100,000	4,200,000	3,675,000	2,820,000	6,200,000	4,100,000	5,000,000	7,500,000	3,804,000
Capital Paid with Debt/Grants/Reimb		7,517,365	8,500,000	3,720,000	3,000,000	2,532,000	6,000,000	3,800,000	5,000,000	7,500,000	3,670,000
Capital Paid with Cash		3,222,980	600,000	480,000	675,000	288,000	200,000	300,000	-	-	134,000
Total Operations Expenses		4,968,994	4,957,182	5,339,916	5,482,460	5,717,727	5,972,753	6,386,980	6,597,301	6,909,274	7,504,977
Total Capital Expenditures		10,740,345	9,100,000	4,200,000	3,675,000	2,820,000	6,200,000	4,100,000	5,000,000	7,500,000	3,804,000
Less Capital Paid by WTB/Other		(7,517,365)	(8,500,000)	(3,720,000)	(3,000,000)	(2,532,000)	(6,000,000)	(3,800,000)	(5,000,000)	(7,500,000)	(3,670,000)
Total Cash Requirements		8,191,974	5,557,182	5,819,916	6,157,460	6,005,727	6,172,753	6,686,980	6,597,301	6,909,274	7,638,977
Revenue Forecast											
Non-potable											
Non-potable production in kgals		108,600	136,500	136,500	136,500	136,500	136,500	136,501	136,502	136,503	136,504
Revenue per kgal	\$	2.16	\$ 2.27	\$ 2.39	\$ 2.51	\$ 2.63	\$ 2.76	\$ 2.90	\$ 3.04	\$ 3.13	\$ 3.19
Non-potable rate per 1000 gallons	\$	3.18	\$ 3.34	\$ 3.51	\$ 3.69	\$ 3.87	\$ 4.06	\$ 4.26	\$ 4.47	\$ 4.60	\$ 4.69
Rate Increase Percentage		5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	3.00%	2.00%
Non-potable sales revenue	\$	234,837	\$ 310,019	\$ 325,798	\$ 342,506	\$ 359,213	\$ 376,849	\$ 395,416	\$ 414,911	\$ 426,981	\$ 435,339

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Water Production

	1.50%	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
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		\$ 4.34	\$ 4.56	\$ 4.79	\$ 5.03	\$ 5.28	\$ 5.54	\$ 5.82	\$ 6.11	\$ 6.29	\$ 6.42
Rate Increase Percentage		5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	3.00%	2.00%
Potable sales revenue		\$ 4,991,000	\$ 5,244,000	\$ 5,508,500	\$ 5,784,500	\$ 6,072,000	\$ 6,371,000	\$ 6,693,000	\$ 7,026,500	\$ 7,233,500	\$ 7,383,000
Total Sales Revenue		\$ 5,225,837	\$ 5,554,019	\$ 5,834,298	\$ 6,127,006	\$ 6,431,213	\$ 6,747,849	\$ 7,088,416	\$ 7,441,411	\$ 7,660,481	\$ 7,818,339
Repayment & Interest on Inter-Utility Loans		187,569	187,569	93,784	-	-	-	-	-	-	-
Interest on Utility Reserves		81,318	41,273	44,979	47,500	47,912	55,141	64,691	71,749	85,520	98,071
Bond Federal Subsidy		27,576	21,338	14,940	10,459	8,496	6,472	4,371	2,224	-	-
Econ Dev Fund/Ski Hill Reimb											
Transfer from Electric/Gas											
Total Cash Inflow		5,522,300	5,804,199	5,988,000	6,184,964	6,487,622	6,809,462	7,157,478	7,515,384	7,746,002	7,916,410
R&R and Cash Flows											
Net Cash Flow		(2,669,674)	247,016	168,084	27,504	481,894	636,709	470,498	918,083	836,728	277,433
Cumulative Net Cash Flow		(2,669,674)	(2,422,657)	(2,254,573)	(2,227,069)	(1,745,175)	(1,108,466)	(637,968)	280,115	1,116,843	1,394,276
Cash Balance		2,751,557	2,998,574	3,166,658	3,194,162	3,676,057	4,312,765	4,783,263	5,701,346	6,538,074	6,815,507
Recommended Cash Balance		4,788,663	5,050,969	5,349,586	5,503,127	5,651,453	5,780,034	6,009,021	6,167,737	6,358,528	6,637,576

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Water Distribution

1.50%	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
Expenditure Forecast										
Supervision, Misc Direct Admin	394,568	402,304	408,339	414,464	420,681	426,991	433,396	439,897	446,495	453,192
Hydrants	-	-	-	-	-	-	-	-	-	-
Water Distribution	559,740	565,263	573,742	582,348	591,083	599,950	608,949	618,083	627,354	636,765
Water Meters	469,611	475,721	482,857	490,100	497,451	504,913	512,487	520,174	527,977	535,896
Capital Project Inspections & Support	-	-	-	-	-	-	-	-	-	-
Interdepartmental Charges	378,546	389,903	395,752	401,688	407,713	413,829	420,036	426,337	432,732	439,223
Administrative Division Allocation	853,896	922,715	936,556	950,604	964,863	979,336	994,026	1,008,937	1,024,071	1,039,432
Cost of Water	3,363,500	3,534,000	3,712,250	3,898,250	4,092,000	4,293,500	4,510,500	4,735,250	4,874,750	4,975,500
Budget Revisions/Carryovers										
Capital	1,084,369	871,594	850,000	1,275,000	900,000	-	3,500,000	-	-	-
Capital Paid with Other Financing	1,084,369	871,594	850,000	1,200,000	900,000	-	3,500,000	-	-	-
Capital Paid with Cash	-	-	-	75,000	-	-	-	-	-	-
Total Operation Expenses	6,019,861	6,289,906	6,509,495	6,737,453	6,973,791	7,218,518	7,479,393	7,748,677	7,933,378	8,080,008
Total Capital Expenditures	1,084,369	871,594	850,000	1,275,000	900,000	0	3,500,000	0	0	0
Total Expenditures	6,019,861	6,289,906	6,509,495	6,812,453	6,973,791	7,218,518	7,479,393	7,748,677	7,933,378	8,080,008
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	\$ 7.96	\$ 8.36	\$ 8.78	\$ 9.21	\$ 9.67	\$ 10.16	\$ 10.67	\$ 11.20	\$ 11.76	\$ 12.35
Rate Increase Percentage	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Total Sales Revenue	6,168,597	6,477,027	6,800,879	7,140,923	7,497,969	7,872,867	8,266,511	8,679,836	9,113,828	9,569,519
Interest on Utility Reserves	-	-	-	-	-	-	-	-	-	15,887
Revenue on Recoverable Work	15,685	15,920	16,159	16,401	16,647	16,897	17,151	17,408	17,669	17,934
Misc Service Revenues	15,685	15,920	16,159	16,401	16,647	16,897	17,151	17,408	17,669	17,934
Total Cash Inflow from Operations	6,199,967	6,508,868	6,833,197	7,173,726	7,531,264	7,906,662	8,300,812	8,714,652	9,149,166	9,621,274
R&R and Cash Flows										
Net Cash Flow	180,106	218,962	323,702	361,272	557,472	688,143	821,418	965,975	1,215,788	1,541,267
Cumulative Net Cash Flow	180,106	399,068	722,771	1,084,043	1,641,515	2,329,659	3,151,077	4,117,052	5,332,840	6,874,107
Cash Balance	(4,093,605)	(3,874,643)	(3,550,940)	(3,189,668)	(2,632,196)	(1,944,052)	(1,122,634)	(156,659)	1,059,129	2,600,396
Recommended Cash Balance	2,362,886	2,441,743	2,491,045	2,556,411	2,614,548	2,648,367	2,767,263	2,796,911	2,827,003	2,857,547

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Water Distribution

Rates										
Commodity rate per kgal										
Residential Tier 1 - < 9,000 gals	6.32	6.64	6.97	7.32	7.69	8.07	8.47	8.89	9.33	9.80
Residential Tier 2 - 9 to 15,000 gals	6.72	7.06	7.41	7.78	8.17	8.58	9.01	9.46	9.93	10.43
Residential Tier 3 - > 15,000 gals	8.03	8.43	8.85	9.29	9.75	10.24	10.75	11.29	11.85	12.44
Multi-Family Tier 1 - < 9,000 gals	6.32	6.64	6.97	7.32	7.69	8.07	8.47	8.89	9.33	9.80
Multi-Family Tier 2 - 9 to 15,000 gals	6.65	6.98	7.33	7.70	8.09	8.49	8.91	9.36	9.83	10.32
Multi-Family Tier 3 - > 15,000 gals	6.79	7.13	7.49	7.86	8.25	8.66	9.09	9.54	10.02	10.52
Commercial All Tiers	6.32	6.64	6.97	7.32	7.69	8.07	8.47	8.89	9.33	9.80
County & Schools All Tiers	6.32	6.64	6.97	7.32	7.69	8.07	8.47	8.89	9.33	9.80
Customer Charge per Meter Size										
= or < 1.25"	11.97	12.57	13.20	13.86	14.55	15.28	16.04	16.84	17.68	18.56
1.5"	37.91	39.81	41.80	43.89	46.08	48.38	50.80	53.34	56.01	58.81
2"	56.57	59.40	62.37	65.49	68.76	72.20	75.81	79.60	83.58	87.76
2.5" to 3"	111.65	117.23	123.09	129.24	135.70	142.49	149.61	157.09	164.94	173.19
4"	190.11	199.62	209.60	220.08	231.08	242.63	254.76	267.50	280.88	294.92
6"	401.34	421.41	442.48	464.60	487.83	512.22	537.83	564.72	592.96	622.61
8"	663.12	696.28	731.09	767.64	806.02	846.32	888.64	933.07	979.72	1,028.71

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023 through FY2032
Water Fund Cash Reserve Analysis

	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
WATER DIST & PROD CASH RESERVES										
Combined Cash Balance DW & WP	(1,342,047)	(876,069)	(384,283)	4,494	1,043,861	2,368,713	3,660,630	5,544,687	7,597,203	9,415,902
Recommended Cash Balance (DW)	2,362,886	2,441,743	2,491,045	2,556,411	2,614,548	2,648,367	2,767,263	2,796,911	2,827,003	2,857,547
Recommended Cash Balance (WP)	4,788,663	5,050,969	5,349,586	5,503,127	5,651,453	5,780,034	6,009,021	6,167,737	6,358,528	6,637,576
Recommended Cash Balance	7,151,550	7,492,712	7,840,631	8,059,539	8,266,001	8,428,401	8,776,284	8,964,648	9,185,531	9,495,122
TARGET RESERVE BALANCES										
Debt Service Reserve	235,458	238,210	264,767	275,990	296,820	317,532	346,387	358,165	378,327	422,046
Operations Reserve	3,485,283	3,512,638	3,565,328	3,618,807	3,673,090	3,728,186	3,784,109	3,840,870	3,898,483	3,956,961
Capital Expenditures Reserve	2,530,809	2,828,365	3,083,333	3,223,630	3,340,865	3,413,127	3,661,690	3,766,752	3,894,877	4,087,065
Contingency Reserve	900,000	913,500	927,203	941,111	955,227	969,556	984,099	998,860	1,013,843	1,029,051
	7,151,550	7,492,712	7,840,631	8,059,539	8,266,001	8,428,401	8,776,284	8,964,648	9,185,531	9,495,122
RESERVE BALANCE FORECAST										
Debt Service Reserve	235,458	183,644	264,768	264,768	285,337	301,009	329,864	341,641	361,803	422,046
Operations Reserve	2,157,103	2,134,685	2,166,705	2,194,210	2,232,194	2,265,677	2,299,662	2,334,157	3,358,548	3,956,961
Capital Expenditures Reserve	358,997	680,245	735,185	735,185	1,158,526	1,746,080	2,153,738	2,992,509	3,120,634	4,079,893
Contingency Reserve	-	-	-	-	-	-	-	33,040	506,922	514,525
Total Cash Remaining	(4,093,605)	(3,874,643)	(3,550,940)	(3,189,668)	(2,632,196)	(1,944,052)	(1,122,634)	(156,659)	249,297	442,478

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Wastewater Division

1.50%	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
EXPENSE FORECAST										
WASTEWATER COLLECTION										
Supervision, Misc Direct Admin	409,984	418,997	425,282	431,661	438,136	444,708	451,379	458,149	465,022	471,997
Wastewater Collection Operations	405,326	411,417	417,588	423,852	430,210	436,663	443,213	449,861	456,609	463,458
Sewer Lift Stations	421,932	426,329	432,724	439,215	445,803	452,490	459,277	466,167	473,159	480,256
Capital Project Inspection & Support	-	-	-	-	-	-	-	-	-	-
Total WWC Operations Expenses	1,237,242	1,256,743	1,275,594	1,294,728	1,314,149	1,333,861	1,353,869	1,374,177	1,394,790	1,415,712
WASTEWATER TREATMENT										
LA WWTP Operations & Maintenance	1,463,935	1,494,401	1,516,817	1,539,569	1,562,663	1,586,103	1,609,894	1,634,043	1,658,553	1,683,432
WR WWTP Operations & Maintenance	389,759	395,897	401,835	407,863	413,981	420,191	426,494	432,891	439,384	445,975
Total WWT Operations Expenses	1,853,694	1,890,298	1,918,652	1,947,432	1,976,644	2,006,293	2,036,388	2,066,934	2,097,938	2,129,407
Interdepartmental Charges	761,430	784,273	796,037	807,978	820,097	832,399	844,885	857,558	870,421	883,478
Administrative Division Allocation	838,768	686,179	696,472	706,919	717,523	728,285	739,210	750,298	761,552	772,976
Operations encumbrances rolled forward										
Debt Service (WWT)	698,314	2,108,809	2,015,024	1,921,240	1,921,239	1,917,898	1,917,898	1,917,898	1,917,898	1,917,898
Capital	2,930,686	2,190,000	405,000	533,000	1,243,000	278,000	1,969,000	1,578,000	11,135,000	1,700,000
Budget Revisions/Carryovers										
Total Operations Expenses	5,389,448	6,726,302	6,701,780	6,678,296	6,749,652	6,818,737	6,892,249	6,966,865	7,042,599	7,119,470
Total Capital Expenditures	2,930,686	2,190,000	405,000	533,000	1,243,000	278,000	1,969,000	1,578,000	11,135,000	1,700,000
Less Capital Paid by Other	1,618,686	1,250,000	-	-	-	-	-	-	9,500,000	-
Total Cash Requirements	6,701,448	7,666,302	7,106,780	7,211,296	7,992,652	7,096,737	8,861,249	8,544,865	8,677,599	8,819,470
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	45.61	46.52	47.45	48.40	50.34	53.36	56.56	59.95	63.55	67.36
Res'l Single-Family Service Charge	12.60	12.85	13.11	13.37	13.90	14.73	15.61	16.55	17.54	18.59
Rate Increase Percentage	2.00%	2.00%	2.00%	2.00%	4.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Total Revenue from Res'l SF Flat Rate	4,840,744	4,937,209	5,036,170	5,136,793	5,342,198	5,662,364	6,001,657	6,361,740	6,743,444	7,147,602

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023-FY2032
Wastewater Division

	1.50%	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
Res'l Multi-Family Flat Rate Customers		75	75	75	75	75	75	75	75	75	75
Res'l Multi-Family Service Charge		12.60	12.85	13.11	13.37	13.90	14.73	15.61	16.55	17.54	18.59
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		38.00	38.76	39.54	40.33	41.94	44.46	47.13	49.96	52.96	56.14
Rate Increase Percentage		2.00%	2.00%	2.00%	2.00%	4.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Total Revenue from Res'l MF Flat Rate		690,054	703,853	718,019	732,363	761,596	807,353	855,834	907,226	961,700	1,019,443
Non-Residential Customers		291	291	291	291	291	291	291	291	291	292
Non-Residential Service Charge		12.60	12.85	13.11	13.37	13.90	14.73	15.61	16.55	17.54	18.59
Non-Residential Sales in Kgal	-0.20%	45,299	45,209	45,118	45,028	44,938	44,848	44,758	44,669	44,579	44,490
Adjusted Non-Residential Sales in Kgal		45,299	45,209	45,118	45,028	44,938	44,848	44,758	44,669	44,579	44,490
Non-Res'l Commodity Charge per Kgal		21.46	21.89	22.33	22.78	23.69	25.11	26.62	28.22	29.91	31.70
Rate Increase Percentage		2.00%	2.00%	2.00%	2.00%	4.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Total Revenue from Non-Residential		985,635	1,003,452	1,021,669	1,040,250	1,079,722	1,142,242	1,208,595	1,278,794	1,352,780	1,431,215
Total Sales Revenue		6,516,432	6,644,515	6,775,858	6,909,406	7,183,517	7,611,959	8,066,086	8,547,760	9,057,925	9,598,260
Interest on Utility Reserves		144,918	143,915	121,968	116,745	112,116	94,691	109,938	92,808	95,200	107,088
Inter-Utility Loan											
Loan Proceeds											
Revenue on Recoverable Work		-	-	-	-	-	-	-	-	-	-
Total Cash Inflow		6,661,350	6,788,430	6,897,826	7,026,151	7,295,633	7,706,650	8,176,025	8,640,567	9,153,125	9,705,349
Net Cash Flow		(40,098)	(877,872)	(208,953)	(185,145)	(697,019)	609,913	(685,225)	95,703	475,526	885,879
Cumulative Net Cash Flow		(40,098)	(917,970)	(1,126,924)	(1,312,069)	(2,009,088)	(1,399,175)	(2,084,400)	(1,988,697)	(1,513,171)	(627,292)
Cash Balance		5,756,612	4,878,740	4,669,787	4,484,641	3,787,622	4,397,535	3,712,310	3,808,013	4,283,539	5,169,418
Recommended Cash Balance		5,081,335	5,125,269	5,221,759	5,273,115	5,328,365	5,402,432	5,452,405	5,546,353	5,630,933	5,961,074

Los Alamos County Utilities Department
10-Year Financial Forecast - FY2023 through FY2032
Wastewater Fund Cash Reserve Analysis

	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027	FORECAST 2028	FORECAST 2029	FORECAST 2030	FORECAST 2031	FORECAST 2032
WASTEWATER UTILITY CASH RESERVES										
Cash Balance *	5,756,612	4,878,740	4,669,787	4,484,641	3,787,622	4,397,535	3,712,310	3,808,013	4,283,539	5,169,418
Recommended Cash Balance	5,081,335	5,125,269	5,221,759	5,273,115	5,328,365	5,402,432	5,452,405	5,546,353	5,630,933	5,961,074
TARGET RESERVE BALANCES										
Debt Service Reserve	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755
Operations Reserve	2,345,567	2,308,747	2,343,378	2,378,528	2,414,206	2,450,419	2,487,176	2,524,483	2,562,351	2,600,786
Capital Expenditures Reserve	1,640,963	1,716,062	1,772,181	1,782,559	1,796,217	1,828,069	1,835,193	1,885,648	1,926,084	2,211,419
Contingency Reserve	377,049	382,705	388,446	394,272	400,186	406,189	412,282	418,466	424,743	431,115
	5,081,335	5,125,269	5,221,759	5,273,115	5,328,365	5,402,432	5,452,405	5,546,353	5,630,933	5,961,074
RESERVE BALANCE FORECAST										
Debt Service Reserve	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755
Operations Reserve	2,345,567	1,979,436	1,979,436	1,979,436	1,979,436	2,450,419	2,450,419	2,524,483	2,562,351	2,600,786
Capital Expenditures Reserve	1,640,963	1,716,062	1,716,062	1,716,062	1,090,431	1,229,360	544,136	565,775	1,003,434	1,850,877
Contingency Reserve	377,049	382,705	388,445	394,272	400,186	406,189	412,282	418,466	424,743	431,114
Total Cash Remaining	675,277	82,782	(131,912)	(322,884)	(400,186)	(406,189)	(412,282)	(418,466)	(424,743)	(431,114)

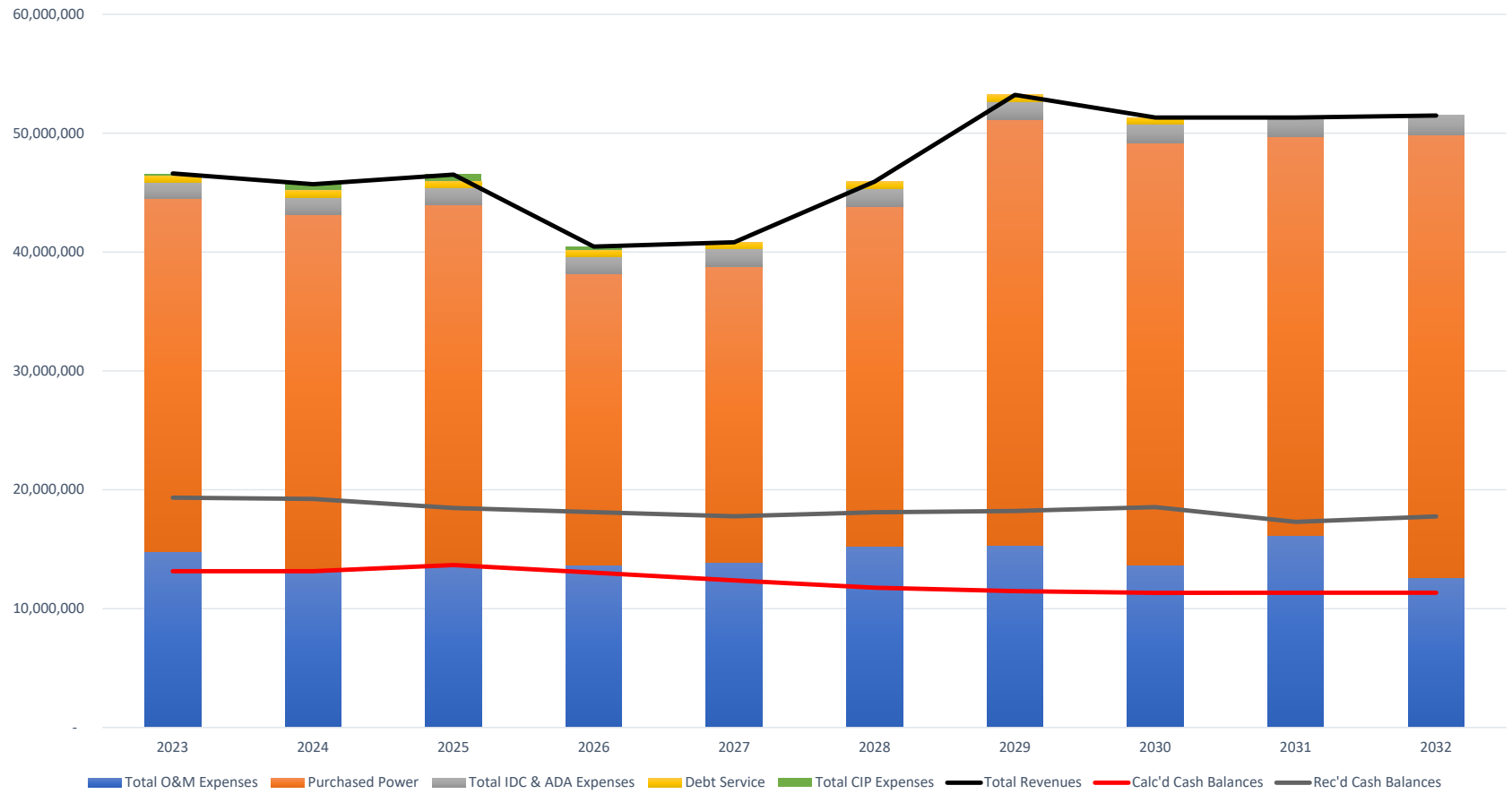
Projected Typical Bill for Residential

	ELECTRIC 500 kwh	GAS 75 therms (assumes \$0.30 variable)	WATER 6,000 gal	SEWER	Total (excludes refuse)	Total % annual Increase	Total cumulative % Increase
FY2023	\$73.55	\$51.39	\$49.91	\$58.21	\$233.07	4.30%	13%
FY2024	\$76.63	\$53.70	\$52.41	\$59.37	\$242.12	3.88%	18%
FY2025	\$79.86	\$56.20	\$55.03	\$60.56	\$251.65	3.94%	22%
FY2026	\$82.58	\$58.89	\$57.78	\$61.77	\$261.02	3.72%	27%
FY2027	\$85.40	\$60.71	\$60.67	\$64.24	\$271.03	3.83%	32%
FY2028	\$87.60	\$61.86	\$63.70	\$68.10	\$281.26	3.78%	37%
FY2029	\$89.12	\$63.04	\$66.89	\$72.19	\$291.23	3.54%	42%
FY2030	\$90.66	\$63.85	\$70.23	\$76.52	\$301.26	3.44%	47%
FY2031	\$92.23	\$64.68	\$73.74	\$81.11	\$311.76	3.49%	52%
FY2032	\$93.84	\$65.52	\$77.43	\$85.97	\$322.76	3.53%	57%

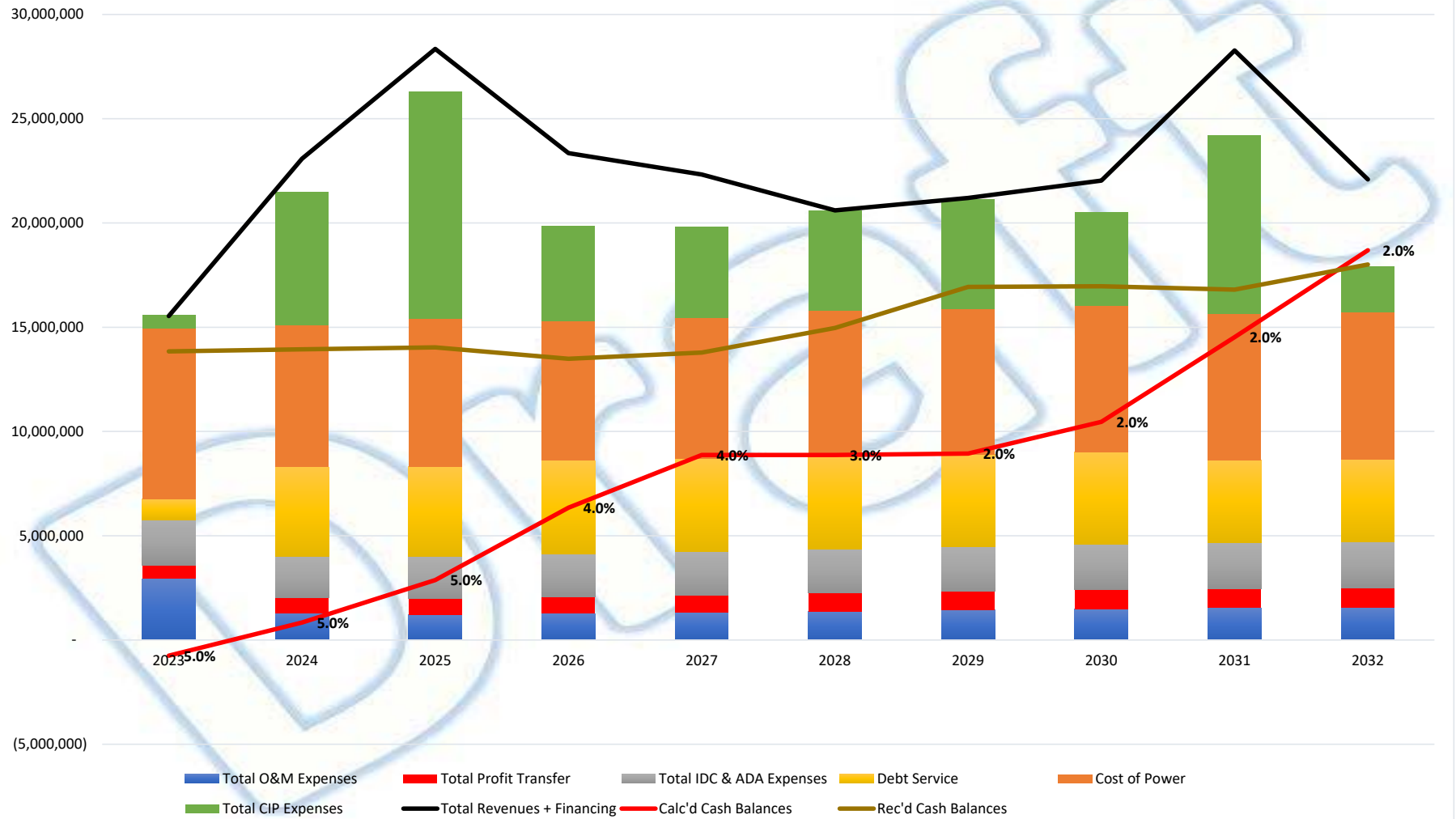
Utility Expense as a Percentage of Income

	Total Bill for Average Household	Los Alamos Median Household Income	Assumed Annual Income Increase	Percentage Needed to Pay Utility Bill
FY2023	\$233.07	\$115,768	2.5%	2.42%
FY2024	\$242.12	\$118,663	2.5%	2.45%
FY2025	\$251.65	\$121,629	2.5%	2.48%
FY2026	\$261.02	\$124,670	2.5%	2.51%
FY2027	\$271.03	\$127,787	2.5%	2.55%
FY2028	\$281.26	\$130,981	2.5%	2.58%
FY2029	\$291.23	\$134,256	2.5%	2.60%
FY2030	\$301.26	\$137,612	2.5%	2.63%
FY2031	\$311.76	\$141,053	2.5%	2.65%
FY2032	\$322.76	\$144,579	2.5%	2.68%

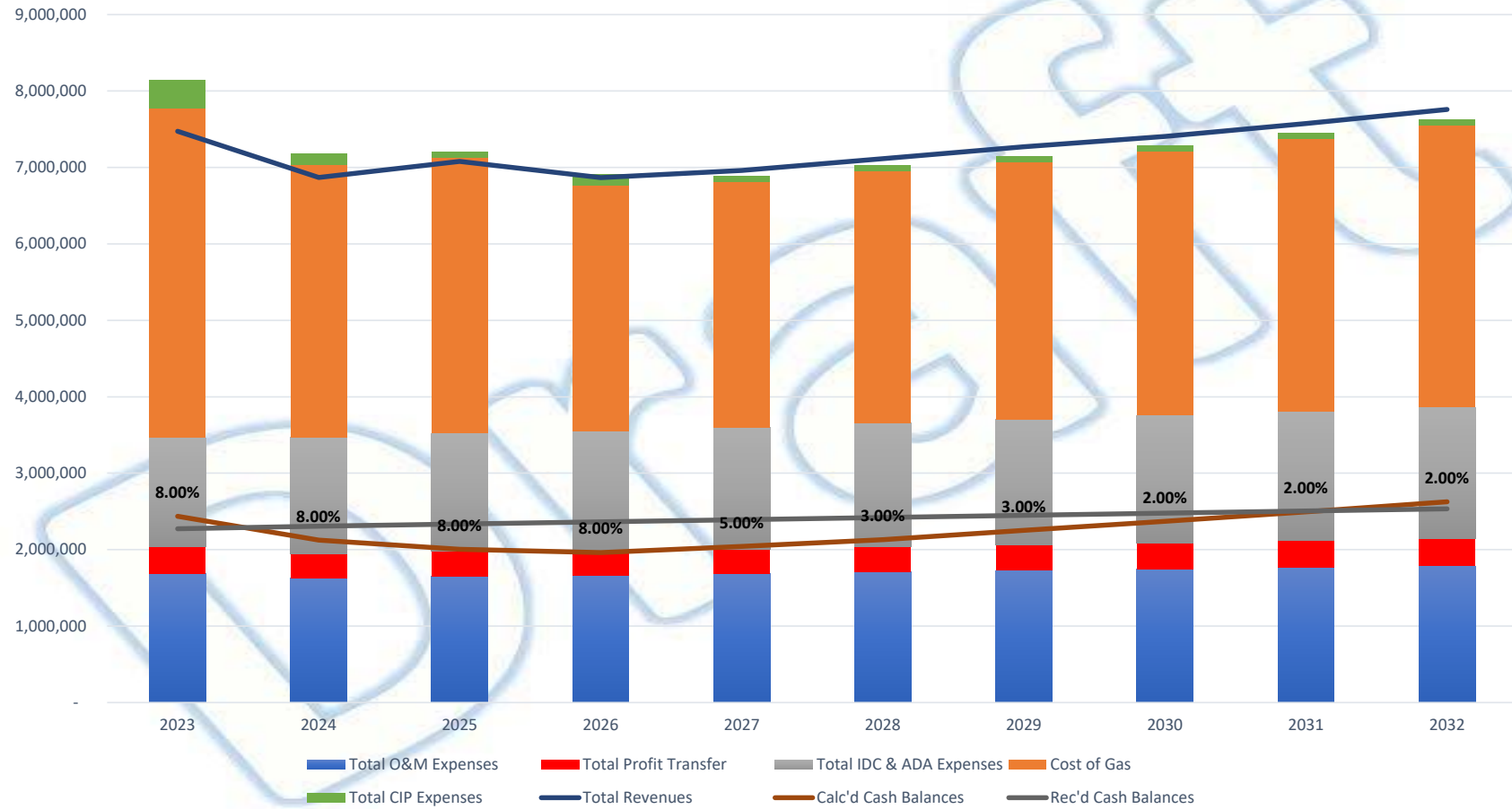
FY 2023 Budget - 10-Year Forecast - Electric Production (EP) - Revenue/Expense/Cash



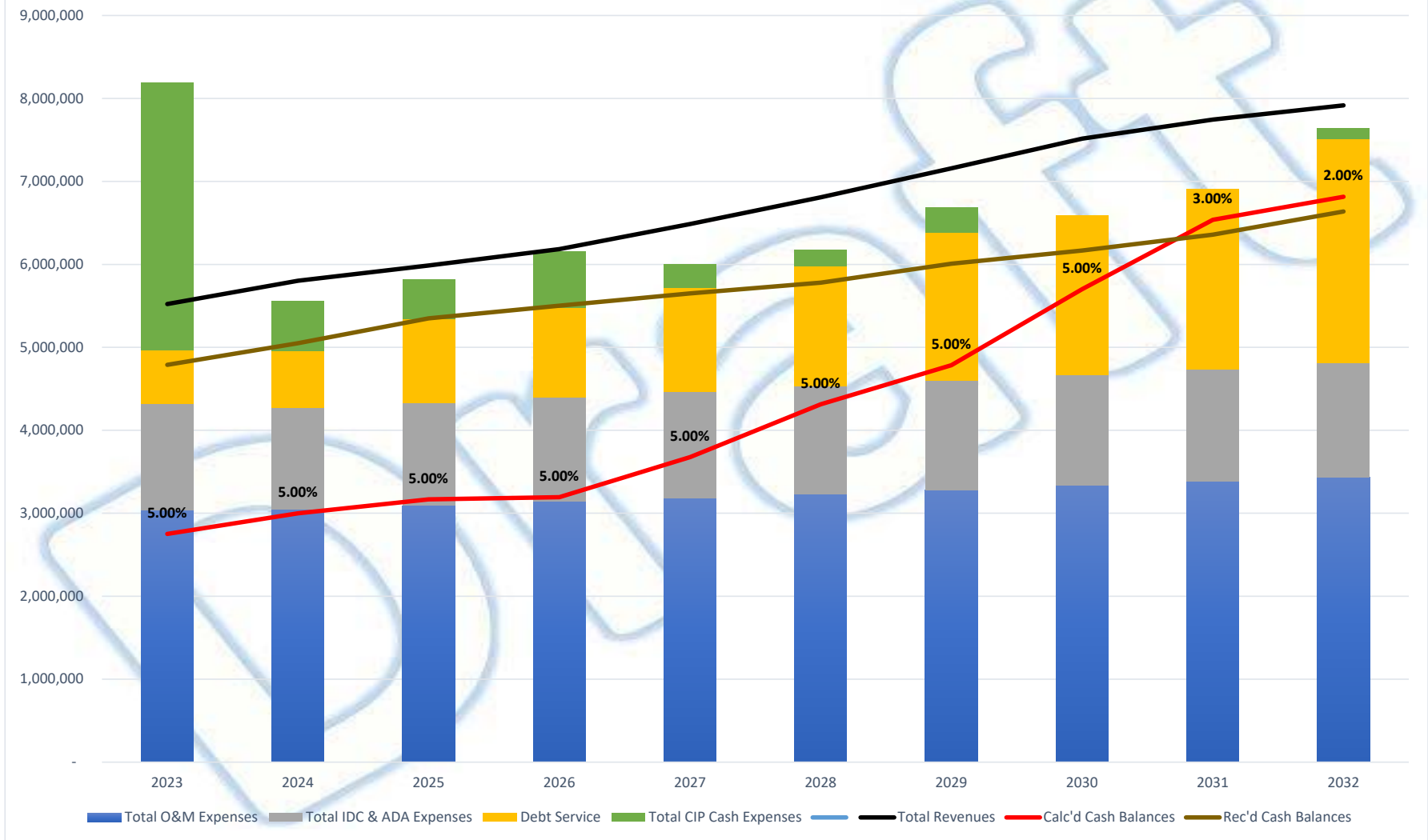
FY 2023 Budget - 10-Year Forecast - Electric Distribution (ED) - Revenue/Expense/Cash

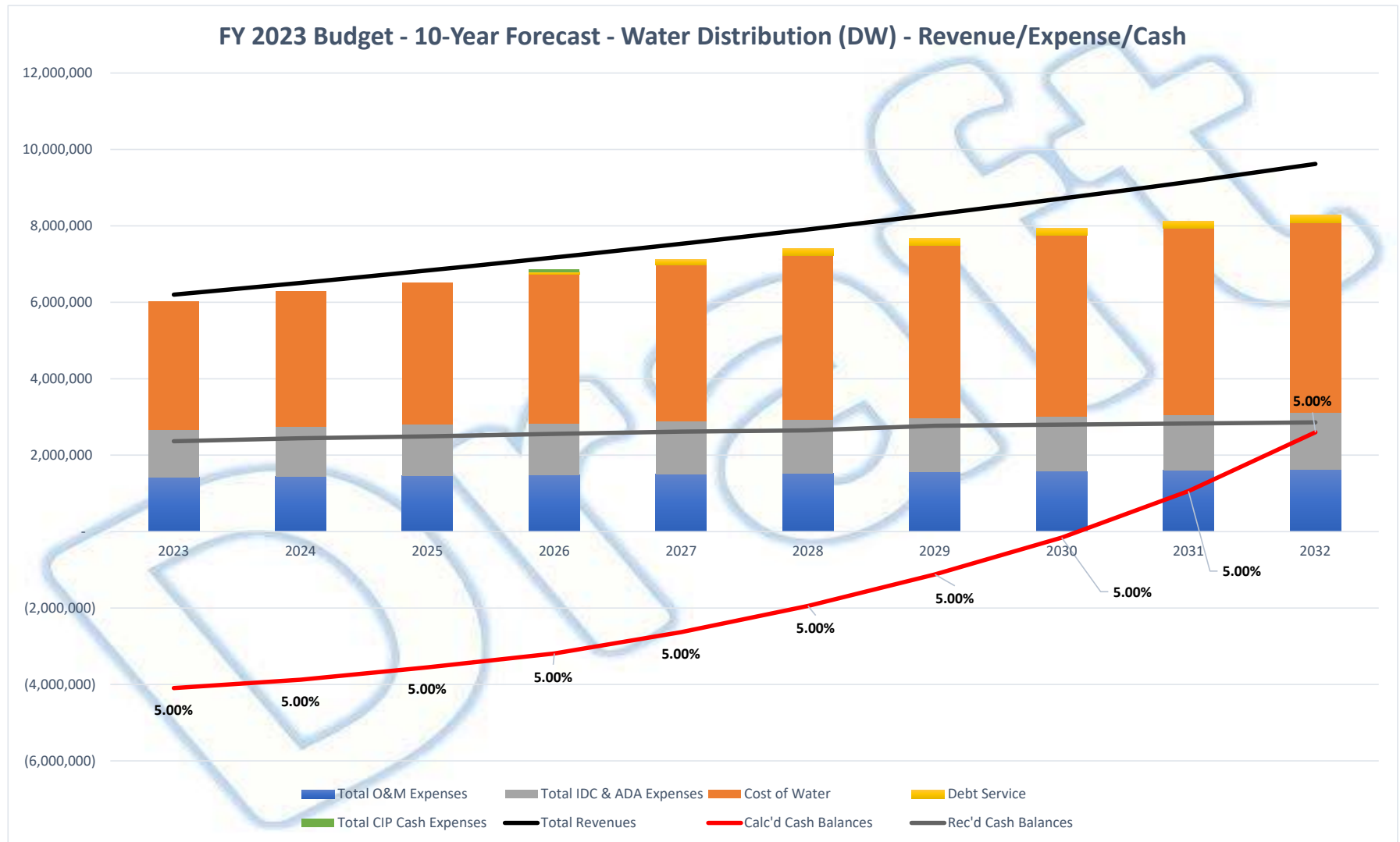


FY 2023 Budget - 10-Year Forecast - Gas Distribution (GA) - Revenue/Expense/Cash

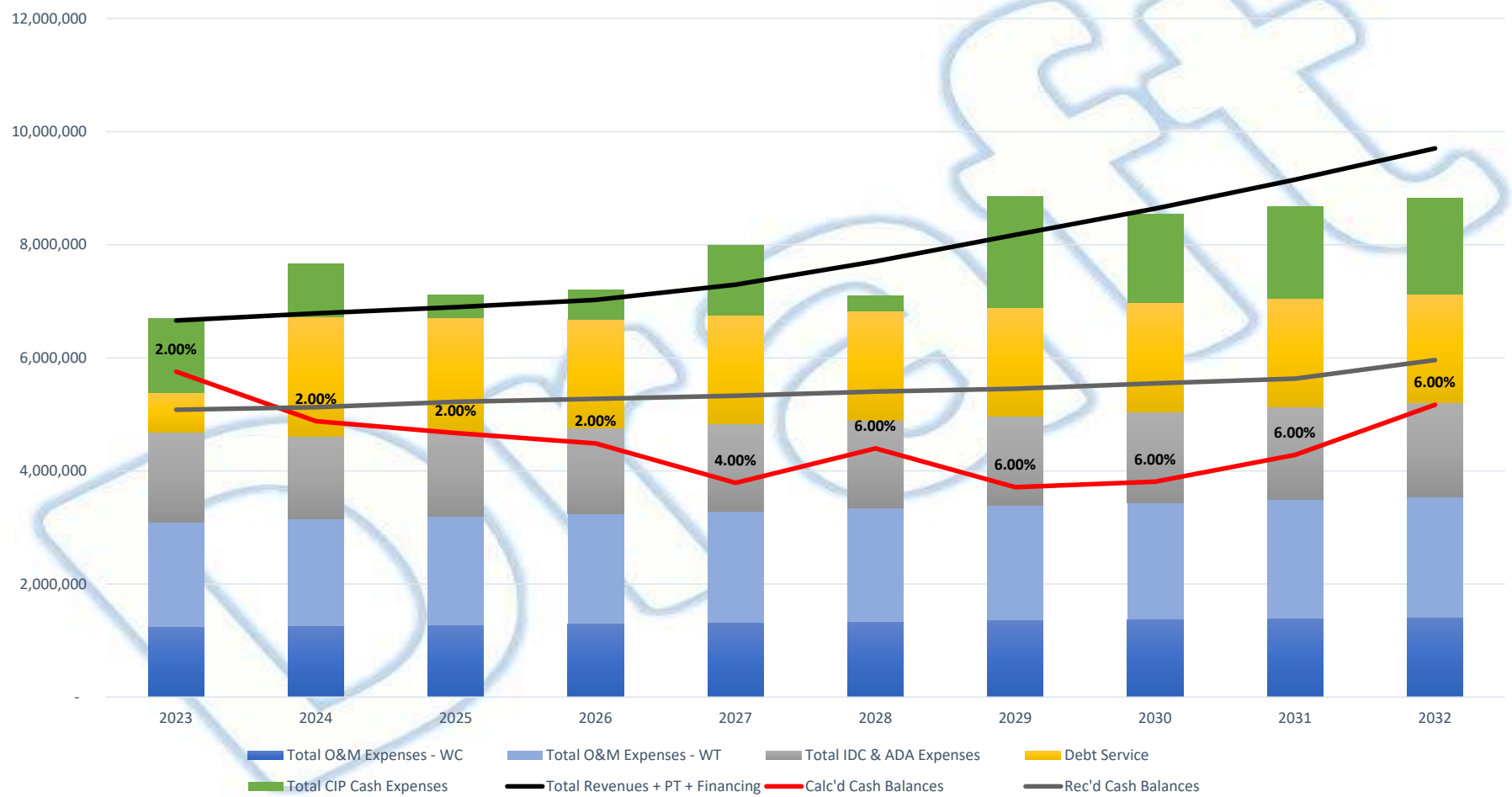


FY 2023 Budget - 10-Year Forecast - Water Production (WP) - Revenue/Expense/Cash





FY 2023 Budget - 10-Year Forecast - Wastewater (WW) - Revenue/Expense/Cash



Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY23 (1 July 2022 - 30 June 2023)		Budget
ELECTRIC PRODUCTION		145,000
El Vado New Diesel Tank For Generator		85,000
Abiquiu Extend Concrete Deck		60,000
ELECTRIC DISTRIBUTION		650,000
Design LA URD Replacements - Long View and Oppenheimer		350,000
Overhead System Replacement:		300,000
Townsite: Pueblo, Ridgeway, Questa		
White Rock Circuit2, 1 PHASE- Open Secondary Replacements		
Recloser Replacements: Walnut, El Gancho		
GAS DISTRIBUTION		460,000
SCADA Pressure Sensing Stations		375,000
Deacon Street (Economic Development / PW Road Project)		85,000
WATER DISTRIBUTION		1,084,369
North Mesa Distribution Upgrades - Phase 1 (Economic Development)		871,594
Deacon Street (Economic Development / PW Road Project)		212,775
WATER PRODUCTION		10,740,345
Rose Street		322,980
Repaint Barranca Mesa Tank 2 (\$1,128,660 ARPA / \$171,340 CIP)		1,300,000
MCC Upgrades / Replacement & Design (DWSRL \$2,727,000)		2,727,000
TA-50 Water Transmission Line Replacement (LANL Funded)		1,210,485
Bayo Tank Phase II NP (WTB \$950,000 / DWSRL \$1,979,880)		2,929,880
SCADA Transition Project		1,500,000
LA Canyon Restoration NP Year 1 Planning & Permitting (NMED RSP GRANT)		300,000
Tank Piping Upgrades Phase 2		450,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		2,930,686
SEWER COLLECTION		2,187,686
Arkansas Area Backyard Sewer Mains & Services R&R		269,000
Deacon Street (Economic Development)		418,686
Ridge Park Sewer Lift Station Elimination		300,000
Bayo Canyon Sewer Lift Station Elimination Pipeline (CWSRL)		1,200,000
WASTEWATER TREATMENT		743,000
Composting Improvements Phase 2		743,000

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY24 (1 July 2023 - 30 June 2024)		Budget
ELECTRIC PRODUCTION		500,000
	El Vado Controls Upgrade	500,000
ELECTRIC DISTRIBUTION		6,375,000
	LA URD Replacement :Eastern Area, Los Pueblos (IF REPAVE BY STREETS)	2,400,000
	White Rock URD Replacement Piedra Loop,Mariposa,La Rosa,Arbol,Agila	3,000,000
	Overhead System Replacement (polex, xarms, transformers)	525,000
	Townsite Circuit Fairway, Trinity	
	White Rock : Pajarito Acres	
	Recloser Replacements, Golf Course, Pajarito Acres	
	EA-4 Power Line Replacement Design	450,000
GAS DISTRIBUTION		150,000
	SCADA Pressure Sensing Stations	150,000
WATER DISTRIBUTION		871,594
	North Mesa Distribution Upgrades - Phase 2 (Econimic Development)	871,594
WATER PRODUCTION		9,100,000
	Repaint Guaje Booster Station 1 Tank 1	825,000
	Repaint Guaje Booster Station 2 Tanks 1 & 2	900,000
	Repaint Guaje Booster Station 3 Tanks 1 & 2	1,075,000
	Guaje Pines - Barranca Tank 1 Storage & Pipeline (NP - WTB)	1,500,000
	NM-4 Transmission Line Construction (NMDOT Project / DWSRL)	4,300,000
	LA Canyon Restoration NP Year 2 Construction (NMED RSP GRANT)	500,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		2,190,000
SEWER COLLECTION		1,740,000
	Central Avenue (Public Works Road Project)	95,000
	Bathtub Row/Nectar/Peach (Public Works Road Project)	395,000
	North Mesa Sewer Canyon Drop Replacement (Economic Development)	1,250,000
WASTEWATER TREATMENT		450,000
	Equipment Replacement	450,000

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY25 (1 July 2024 - 30 June 2025)		Budget
ELECTRIC PRODUCTION		550,000
	El Vado Ultrasonic Flow Meter	100,000
	Abiquiu Runner Repair /Rplacement	450,000
ELECTRIC DISTRIBUTION		10,875,000
	LA URD Replacement: Sandia Western Area, Ponderosa Estates, Estates	1,800,000
	White Rock URD Replacement : La Senda, Valle de Sol	1,200,000
	Overhead System Replacement (polex, xarms, transformers)	375,000
	Townsite Circuit: Barranca Road, Rendija Canyon	
	White Rock : Monte Rey South and North	
	Recloser Replacements: Sewer Plant, Rendija	
	EA-4 Power Line Replacement	7,500,000
GAS DISTRIBUTION		75,000
	Pipeline Repair & Replacement / Equipment	75,000
WATER DISTRIBUTION		850,000
	Fairway (DWSRL / Public Works Road Project)	850,000
WATER PRODUCTION		4,200,000
	Townsite 14" Pipeline R&R - Phases 1 & 2 Combined	3,000,000
	Bayo Booster Station Upgrades (NP - WTB)	1,200,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		405,000
SEWER COLLECTION		405,000
	North Community Backyard Sewer Mains & Services R&R - Phase 1	285,000
	Fairway (Public Works Road Project)	120,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY26 (1 July 2025 - 30 June 2026)		Budget
ELECTRIC PRODUCTION		250,000
	Abiqui Rewind Study	250,000
ELECTRIC DISTRIBUTION		4,575,000
	LA URD Replacement: Quemazon, North Road, Walnut, 33rd	2,250,000
	White Rock URD Replacement: Aragon, Ridgecrest, Garver, Catherine	1,800,000
	Overhead System Replacement	450,000
	Townsite Ski Hill, West Jemez Road	
	White Rock: Rover, Beryl	
	GWS/ED Facilities at WR WWTP	75,000
GAS DISTRIBUTION		150,000
	Pipeline Repair & Replacement / Equipment	75,000
	GWS/ED Facilities at WR WWTP	75,000
WATER DISTRIBUTION		1,275,000
	Denver Steels Phase 2 (Public Works Road Project)	1,200,000
	GWS/ED Facilities at WR WWTP	75,000
WATER PRODUCTION		3,675,000
	Repaint Pajarito Tank 4A	1,500,000
	Repaint Western Area Tank	600,000
	GWS/ED Facilities at WR WWTP	75,000
	Group 12 Tank 2 on USFS - County Land (NP-WTB/\$810k Grant/\$540k Loan/\$150k DPU M	1,500,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		533,000
SEWER COLLECTION		533,000
	North Community Backyard Sewer Mains & Services R&R - Phase 2	308,000
	Denver Steels Phase 2 (Public Works Road Project)	150,000
	GWS/ED Facilities at WR WWTP	75,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY27 (1 July 2026 - 30 June 2027)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		4,350,000
LA URD Replacement: Big Rock Loop, San Idelfonso, Cheyenne		1,800,000
White Rock URD Replacement: Kimberley, Rover, Jeffery, Kris CT		1,800,000
Overhead System Replacement (poles, wires, transformers)		450,000
Townsite : Villa, 38th		
White Rock : Sherwood		
East Gate Substation Study		300,000
GAS DISTRIBUTION		75,000
Pipeline Repair & Replacement / Equipment		75,000
WATER DISTRIBUTION		900,000
Aspen School Area Pipeline - Phases 3		900,000
WATER PRODUCTION		2,820,000
Repaint North Mesa Tank		1,200,000
Repaint Otowi Booster 1 Tanks 1 & 2		900,000
LA WWTP NP Feed Pipeline (NP - WTB)		720,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,243,000
SEWER COLLECTION		1,243,000
Old Pueblo Sewer Canyon Drop Replacement		807,000
41st/45th/46th/47th Sewerline R&R {PW-WA 7}		158,000
Aspen School Area Sewerline R&R Phase 3		278,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY28 (1 July 2027 - 30 June 2028)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		4,800,000
Los Alamos URD Replacement ; Sandia, 41st,thru 47th,Ridgeway Tie		1,500,000
White Rock URD Replacement: Grand Canyon, Bryce,Richard Ct,Rover		1,800,000
Overhead System Replacement (polex, xarms, transformers)		750,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
Townsite Station Breaker Replacements		750,000
GAS DISTRIBUTION		75,000
Pipeline Repair & Replacement / Equipment		75,000
WATER DISTRIBUTION		0
WATER PRODUCTION		6,200,000
Otowi Booster Station 1 & Pipeline Replacement		5,000,000
Chamisa School Pipeline / Connections (NP-WTB/\$600k Grant/\$400k Loan/\$200k DPU M		1,200,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		278,000
SEWER COLLECTION		278,000
Kimberly Sewer Lift Station & Wet Well		278,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY29 (1 July 2028 - 30 June 2029)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		5,250,000
Los Alamos URD Replacement: Tewa, Otowi, Nambe Loop, Santa Clara, Airport		1,500,000
White Rock URD Replacement : Paige Loop, Cheryl east ,Pruitt		1,500,000
Overhead System Replacement (polex, xarms, transformers)		750,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
White Rock Substation Unit 1 Transformer		1,500,000
GAS DISTRIBUTION		75,000
Pipeline Repair & Replacement / Equipment		75,000
WATER DISTRIBUTION		3,500,000
Eastern Area Phases 2, 3 & 4		3,500,000
WATER PRODUCTION		4,100,000
Otowi Well No. 4 Tank Construct Second Tank		2,100,000
Rover & Pinon Park Pipeline/Connections (NP-WTB/\$1,020k Grant/\$680k Loan/\$300k DP		2,000,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,969,000
SEWER COLLECTION		1,969,000
Airport Canyon Sewer Canyon Drop Replacement		1,700,000
Eastern Area Phase 2		269,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY30 (1 July 2029 - 30 June 2030)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		4,500,000
LA URD Replacement: Oakwood Loop, Nugget, Opal , Pinion,Sage,Spruce,Nectar		1,800,000
White Rock URD Replacement : La Vista, Sierra Vista, Grand Canyon, Mesa Verde		1,950,000
Overhead System Replacement (polex, xarms, transformers)		750,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
GAS DISTRIBUTION		75,000
Pipeline Repair & Replacement / Equipment		75,000
WATER DISTRIBUTION		0
WATER PRODUCTION		5,000,000
Pajarito Road Pipeline R & R Phase 1 & 2		5,000,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,578,000
SEWER COLLECTION		1,578,000
Copper Road Sewer Canyon Drop Replacement		1,300,000
Eastern Area Phase 3		278,000
WASTEWATER TREATMENT		0

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY31 (1 July 2030 - 30 June 2031)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		8,550,000
Los Alamos URD Replacement: Del Norte, Del Sol, Loma Linda, La Tierra		900,000
White Rock URD Replacement :Karen CT, Barcelona,Canada Way		900,000
Overhead System Replacement (polex, xarms, transformers)		750,000
Townsite Circuit 16, 1 PHASE		
White Rock Circuit1, Wire 1 PHASE		
East Gate Substation		6,000,000
GAS DISTRIBUTION		75,000
Pipeline Repair & Replacement / Equipment		75,000
WATER DISTRIBUTION		0
WATER PRODUCTION		7,500,000
Abandon Guaje Well # 1A and Drill New Replacement Well (DWSRL)		7,500,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		11,135,000
SEWER COLLECTION		1,635,000
Laguna Sewer Canyon Drop Replacement		1,350,000
Eastern Area Phase 4		285,000
WASTEWATER TREATMENT		9,500,000
WR WWTP 10-Year Upgrade		3,200,000
LA WWTP 23-Year Upgrade		6,300,000

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Capital Plan

FY32 (1 July 2031 - 30 June 2032)		Budget
ELECTRIC PRODUCTION		0
ELECTRIC DISTRIBUTION		2,200,000
Los Alamos URD Replacement: Trinity Drive Diamond to Oppenheimer		600,000
White Rock URD Replacement: Briston Pl, Brighton, Paul Place, Todd Loop		600,000
Overhead System Replacement (poles, wires, transformers)		500,000
Townsite Circuit 16, 3 phase		
White Rock Circuit 1, Wire 3 PHASE		
East Gate Substation		500,000
GAS DISTRIBUTION		75,000
Pipeline Repair & Replacement / Equipment		75,000
WATER DISTRIBUTION		0
WATER PRODUCTION		3,804,000
Barranca Mesa NP Pipeline Connections (NP-WTB/\$402k Grant/\$268k Loan/\$134k DPU M		804,000
MCC Repair and Replacement Phase 2		3,000,000
WASTEWATER TREATMENT AND SEWER COLLECTION TOTAL		1,700,000
SEWER COLLECTION		1,700,000
Camino Cereza Sewer Canyon Drop Replacement		1,700,000
WASTEWATER TREATMENT		0

ELECTRIC PRODUCTION

FY23: El Vado Back-up Generator Diesel Tank Replacement

Project Scope: The existing 1,000 gallon underground diesel storage tank is regulated and inspected by the New Mexico Environment Department. New regulations require that leak detection be installed on the tank piping. The existing tank is an underground tank installed in 1987. Given the age and increasing regulations on underground storage tanks, DPU will replace the tank with a new tank.

Budget: \$85,000

Schedule: Fall 2022



ELECTRIC PRODUCTION

FY23: Abiquiu Extend Interior Concrete Deck

Project Scope: A portion of the existing floor within the powerhouse is gravel. This gravel area is aligned with the garage door where the majority of the loading and handling of heavy materials takes place. A new 25' x 55' reinforced concrete slab will be constructed to facilitate the handling of equipment and materials.

Budget: \$60,000

Schedule: Fall 2022



ELECTRIC DISTRIBUTION

FY23: URD (UG Residential Distribution) Replacements

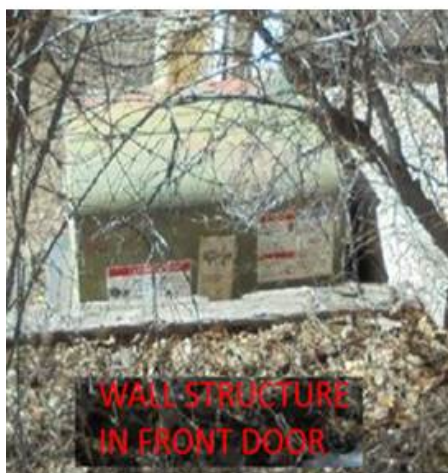
Project Scope: The underground system contains 1970s infrastructure which was direct-buried and in direct contact with the earth. Portions or segments of the underground system which have experienced 3 or more failures are targeted for replacement because they will fail again. The three-phase primary feeder on Trinity Drive at Oppenheimer has failed many times. The line failure affects over 1600 customers.

1. Los Alamos Townsite and White Rock
Oppenheimer and Long Drive

\$1,350,000

Budget: \$ 1,350,000

Schedule: Year-round design and construction



ELECTRIC DISTRIBUTION

FY23: 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 and cross-arms. The areas in townsite are Pueblo, Questa and Ridgeway. The White Rock areas include Beryl and Aztec.

1. Townsite and White Rock Replacements \$300,000

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



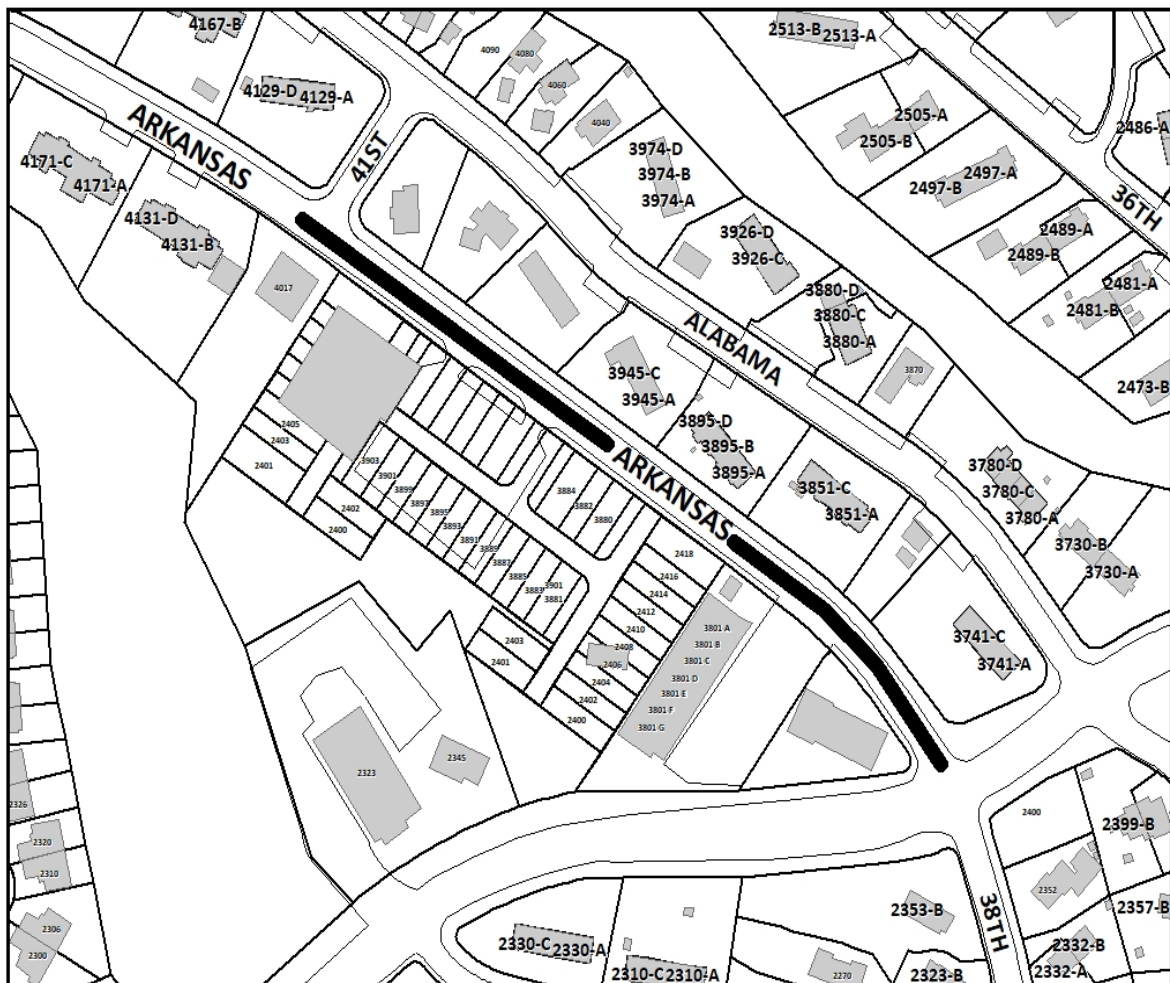
ELECTRIC DISTRIBUTION

FY23: Arkansas Street

Project Scope: This project will be a joint project between DPU and the Public Works Department to re-pave the roadway and upgrade portions of the electric distribution system along this segment of the road.

Budget: \$75,000 (Profit Transfer)

Schedule: Summer 2023



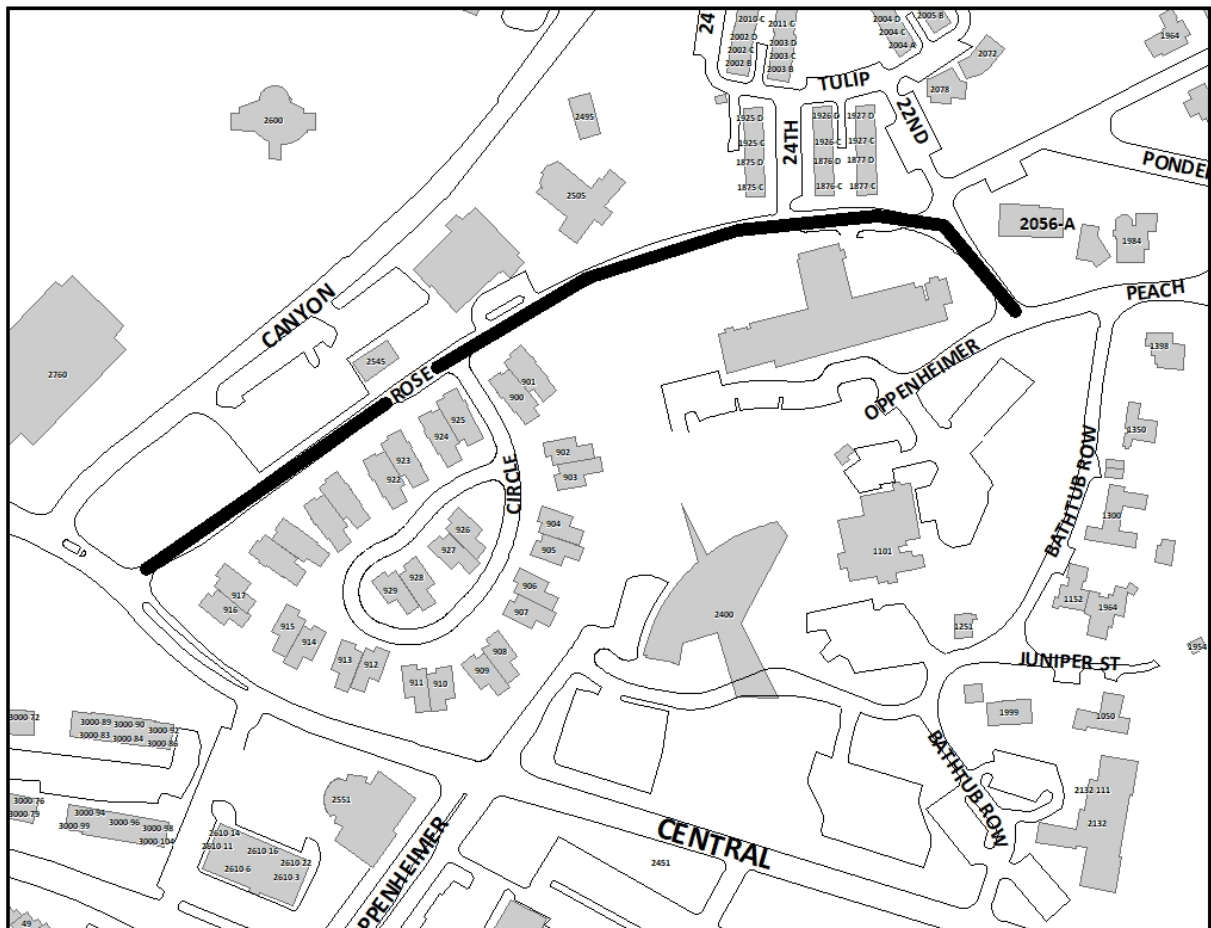
GAS DISTRIBUTION / WATER DISTRIBUTION / WATER PRODUCTION

FY23: Rose Street Utility Upgrades

Project Scope: This project will be a joint project between DPU and the Public Works Department to re-pave the roadway and replace utility infrastructure beneath the new road. The project will be from Central Avenue to Peach Street. 1950's vintage sections of waterlines will be replaced, and some undersized gas pipelines will be replaced. The utility portion of the project will be funded by the profit transfer monies allocated to the DPU by the County Council.

Budget:	Gas Distribution (Profit Transfer)	\$ 115,376
	Water Distribution (Profit Transfer)	\$ 330,816
	Water Production (Profit Transfer)	\$ 322,980
	Total	\$769,172

Schedule: Spring & Summer 2023



GAS DISTRIBUTION

FY23: SCADA Pressure Monitoring Stations

Project Scope: A new Supervisory Controls and Data Acquisition System (SCADA) is currently being launched for the gas distribution system. 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: \$375,000 (FY2023)
 \$375,000 (FY2024)

Schedule: Throughout FY2023 & FY2024



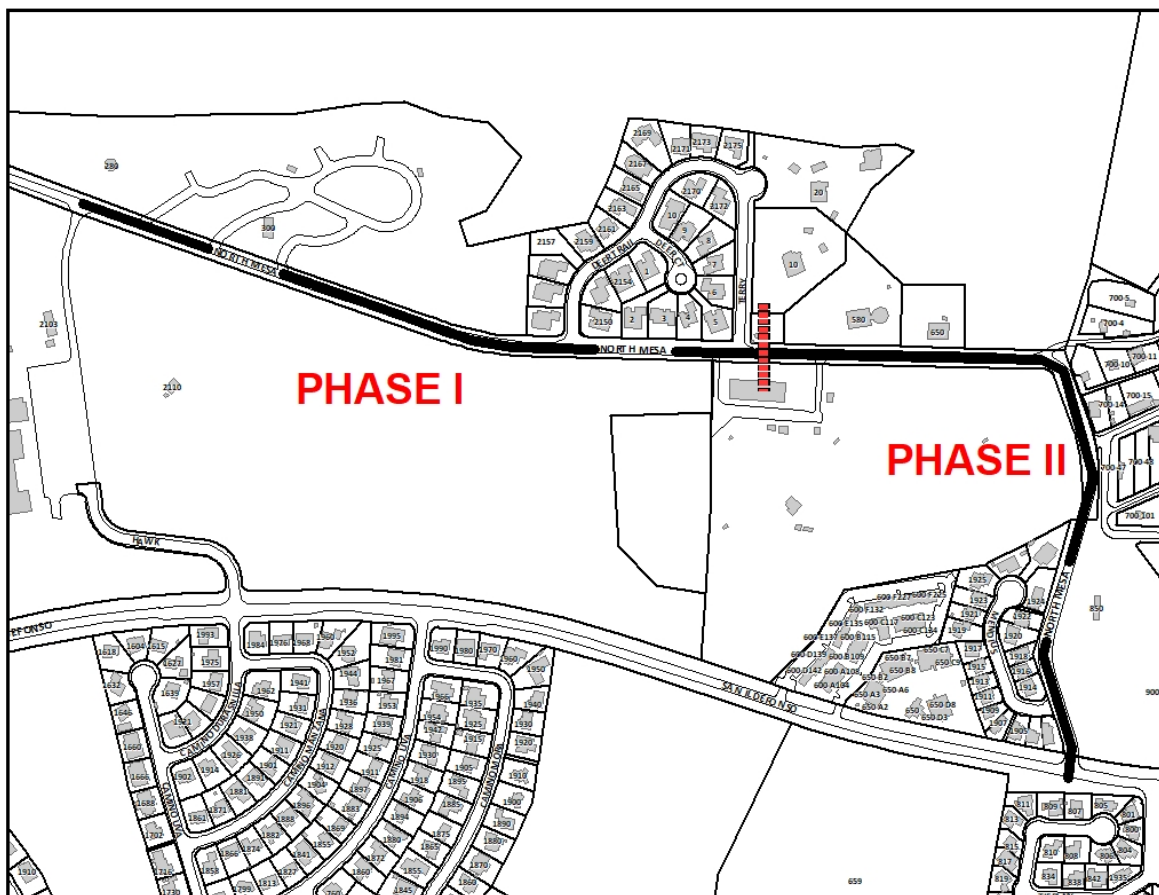
WATER DISTRIBUTION

FY23 & FY24: North Mesa Distribution Upgrades Phase I and Phase II

Project Scope: The waterline in North Mesa Road is over 65 years old and in poor condition. The waterline will be replaced with a larger line to provide increased fire protection to North Mesa, to provide more capacity and connections to the proposed new development of 300-400 new homes adjacent to the Middle School and to provide additional capacity and connections to the horse stables. The work will potentially be funded by the County's economic development budget.

Budget: \$871,594 (FY23 Phase I)
 \$871,594 (FY24 Phase II)

Schedule: Summer 2023 and Summer 2024



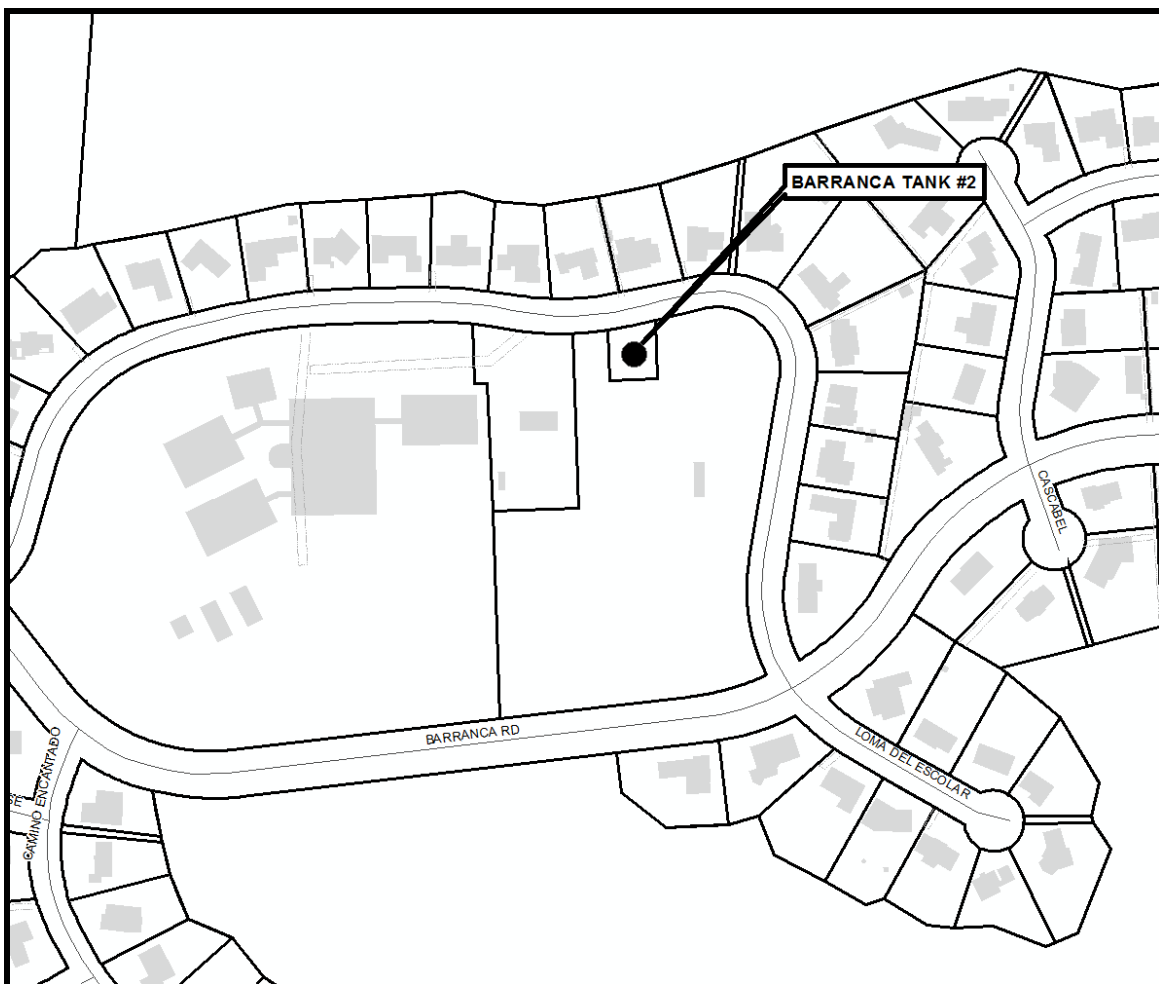
WATER PRODUCTION

FY23: 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 is in need of repainting. Some structural repairs and a new cathodic protection system will be incorporated to the project. Design will take place in fiscal year 2022. The new paint will protect the tank for the next thirty years. In January 2022, the County allocated \$1,128,660 of American Rescue Plan Act (ARPA) funds to the project. A low interest Drinking Water State Revolving Loan (DWSRL) has been applied for to fund the remaining balance of the project.

Budget: \$1,128,660 (ARPA)
 \$ 171,340 (DWSRL)

Schedule: Summer/Fall 2022



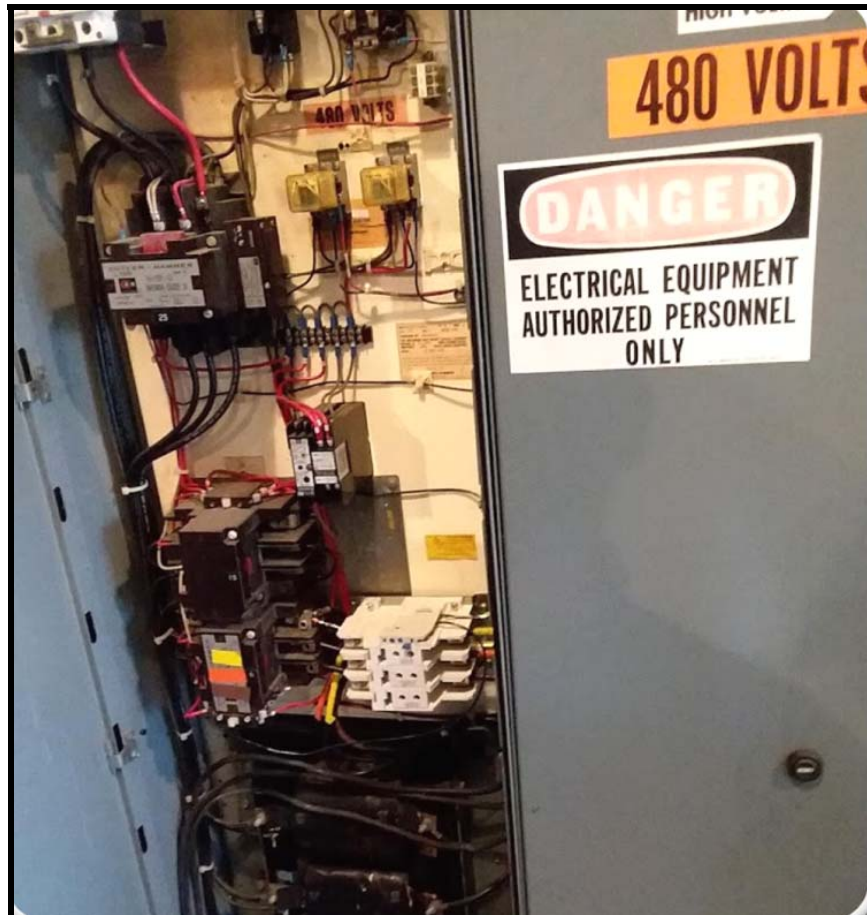
WATER PRODUCTION

FY23: 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 related to the motor control centers (MCC), electric service feeds and miscellaneous electric components. DPU hired a consultant to perform a condition assessment of the wells and boosters electric gear and hydraulic valves/equipment, and to identify and prioritize necessary improvements. An RFP to design the priority projects will be issued in March 2022 and construction will begin in the Summer of 2022. A Drinking Water State Revolving Loan (DWSRL) will be secured in the amount of \$2,727,000 million to fund the construction. These improvements will add to the reliability of the water production system.

Budget: \$2,727,000 Construction (DWSRL)

Schedule: Design Spring 2022
Construction Fall and Winter 2022



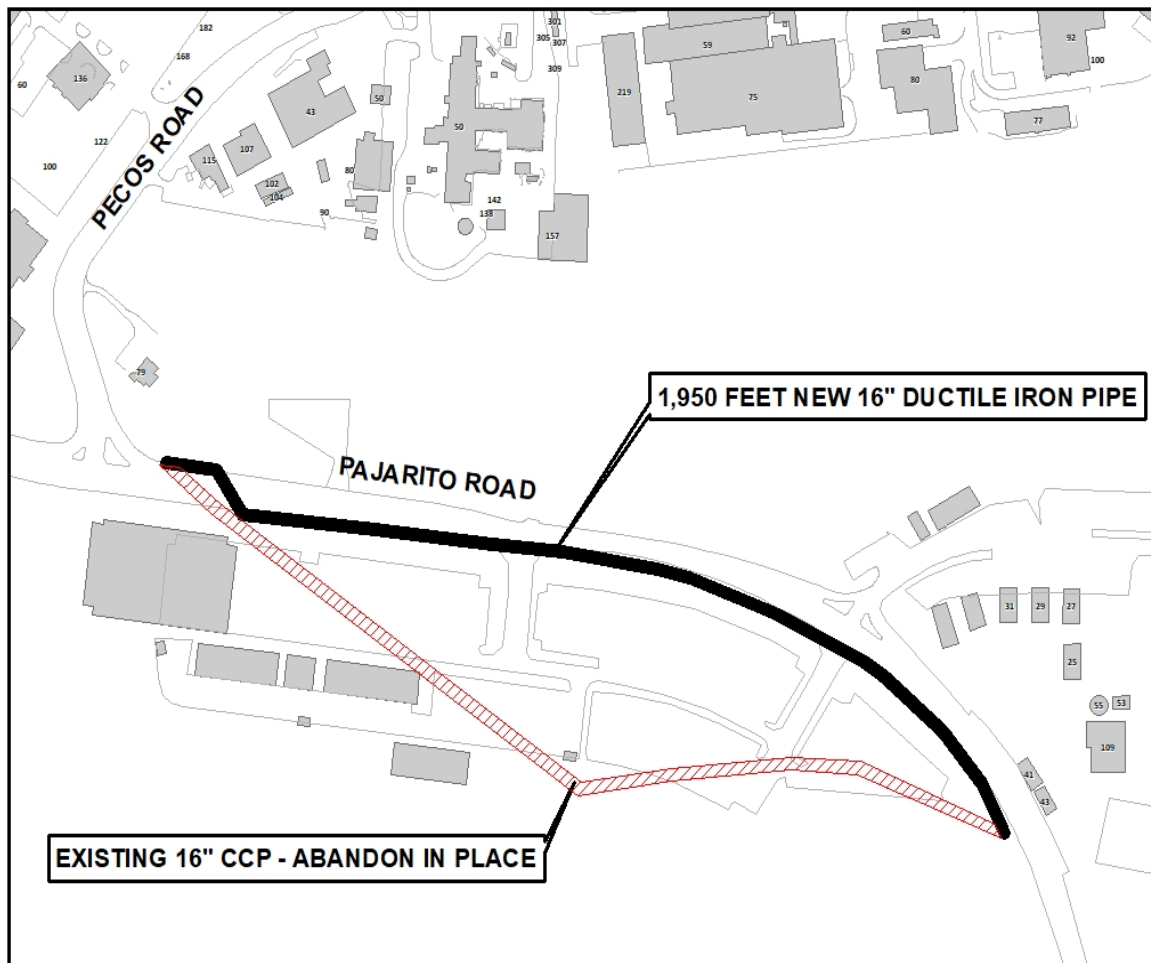
WATER PRODUCTION

FY23: Pajarito Road/TA-50 Waterline Replacement

Project Scope: DOE/NNSA has requested an existing 16" water transmission line be relocated to facilitate construction of planned facilities. The waterline will be relocated from vacant land south of Pajarito Road into the road corridor. The work will be designed in the spring of 2022 and constructed over the fall and winter of 2022. The work will be funded by DOE/NNSA.

Budget: \$ 1,210,485 (DOE/NNSA Funded)

Schedule: Construction September 2022 to January 2023



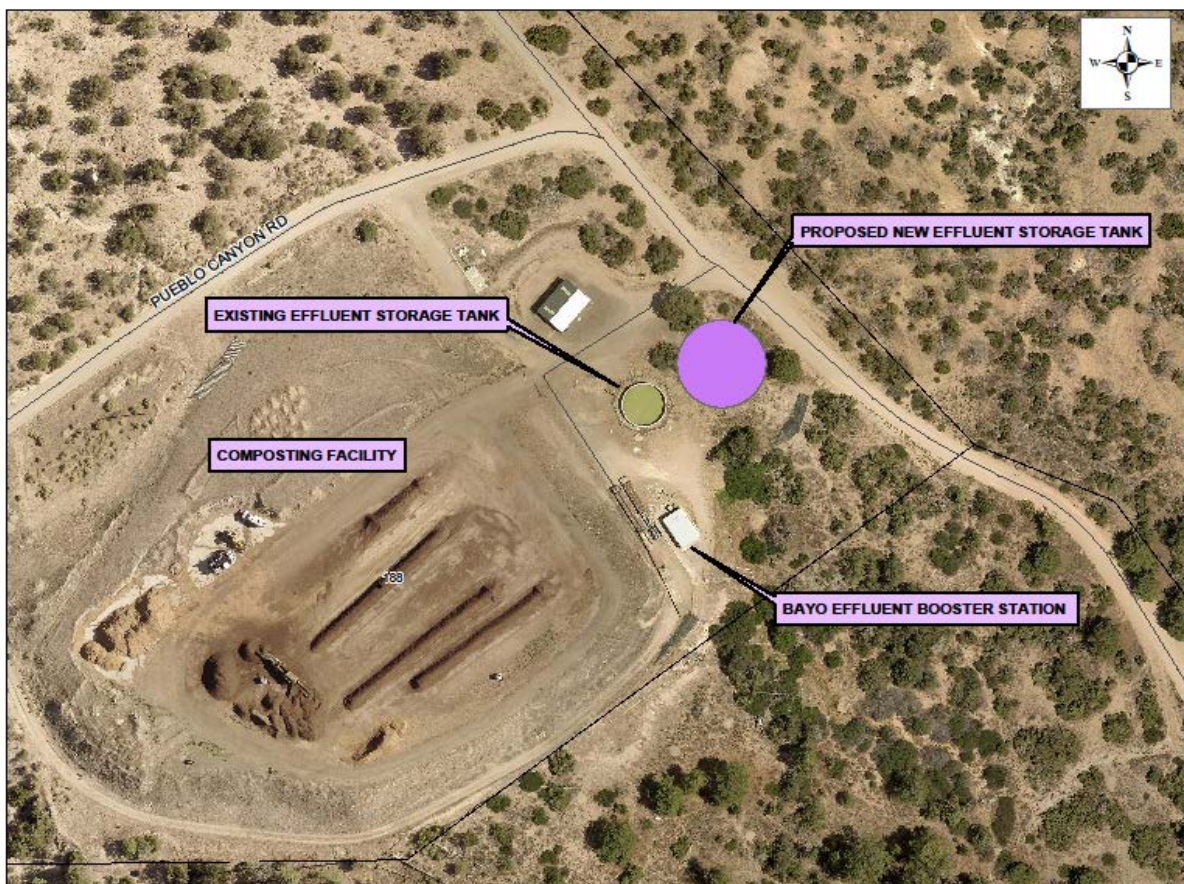
WATER PRODUCTION

FY23: Bayo Booster Station Tank Phase II

Project Scope: This is Phase II of the project to construct a new 833,000 gallon non-potable water tank at the Bayo Booster Station. The majority of the piping, new metering and required demolition was completed as Phase I with funding from a Water Trust Board (WTB) loan/grant. Phase II will complete the project and expand the storage from 182,000 gallons to 1,015,000 gallons, allowing the non-potable system to capture flows normally discharged to the environment. This will increase the amount of non-potable water that can be conveyed to Los Alamos for irrigation.

Budget: \$ 950,000 (Water Trust Board)
 \$1,979,880 (CWSRL)
 \$2,929,880 Total

Schedule: Construction Spring & Summer 2023



WATER PRODUCTION

FY23: L.A. Reservoir Road Stabilization Project

Project Scope: A River Stewardship Program (RSP) grant, sponsored by the New Mexico Environment Department (NMED), was secured in 2021 to fund a project to restore the LA Canyon watershed both upstream and downstream of the LA reservoir. Stabilizing the watershed, using bio-engineering techniques, will enable the County to successfully stabilize the road and protect the pipeline & electric conduit between the Ice Rink Road and the reservoir. The project consists of environmental clearance, planning and permitting in FY 2023 and construction in FY 2024. Clearance, planning and permitting involves coordination between multiple agencies (NMED, US Forest Service, Army Corps of Engineers, DOE & LANL). Construction will include work to re-stabilize and restore the watershed, re-construct the watershed flow regime, dredge the reservoir, re-construct and protect the roadway and pipeline corridor and provide for some limited new amenities such as off-street parking and recreational facilities at the reservoir. Bio-engineering is a “softer” approach to watershed stabilization using natural materials and processes to help the watershed heal itself. Bio-engineering techniques also use natural materials, often salvaged from the construction site, to stabilize the roadway and pipeline corridor. The DPU and County are also providing some cost sharing funds to enable the success of this project.

Budget:	NMRSP	\$ 300,000 (FY2023)
	County	\$ 250,000 (FY2024)
	DPU	\$ 250,000 (FY2024)
	Total	\$ 800,000

Schedule: Grant award in FY2022. Environmental clearance, planning and permitting in FY2023. Construction in FY2024.



WATER PRODUCTION

FY23: Tank Piping Upgrades Phase II

Project Scope: Miscellaneous valves and piping adjacent to existing tanks 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: \$450,000

Schedule: Throughout Year



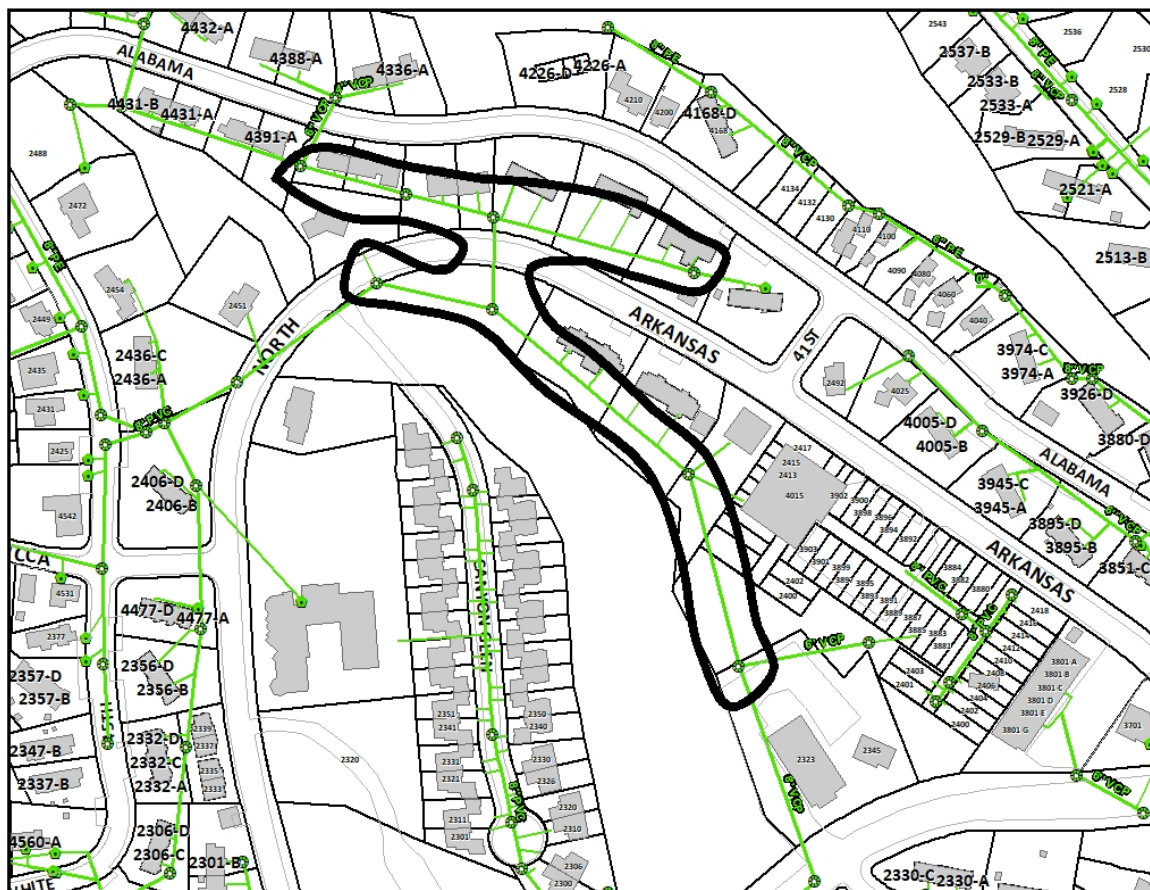
WASTEWATER TREATMENT

FY23: Arkansas Area Backyard Sewer Renewal & Replacement

Project Scope: The sewer mains along Arkansas Street are located in resident's backyards. The sewers are vitrified clay pipe that were installed in the 1950's. Due to the location the lines, they are regularly blocked and damaged by roots and are extremely difficult to access to maintain and repair. The lines will be assessed, and repairs and replacement of the problem areas will be performed.

Budget: \$269,000

Schedule: Spring 2023



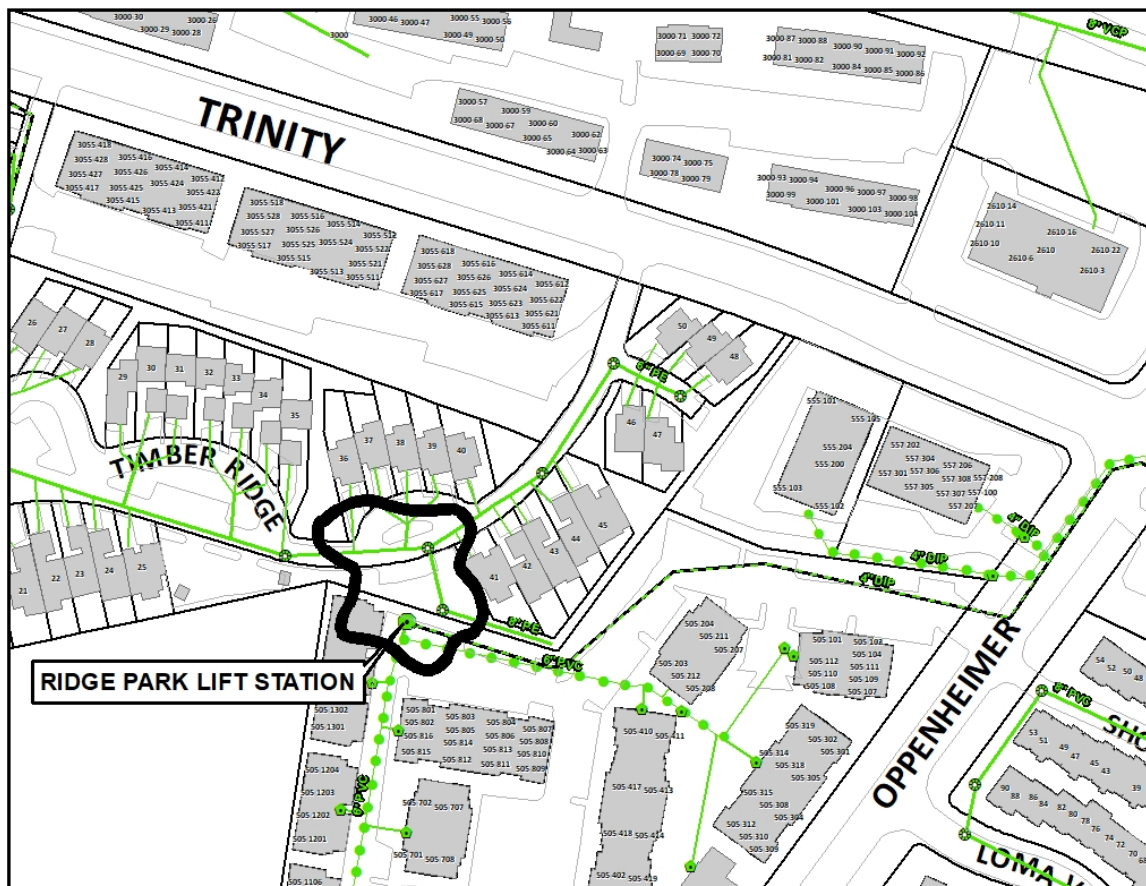
WASTEWATER TREATMENT

FY23: Ridge Park Sewer Lift Station Elimination

Project Scope: The existing Ridge Park lift station is becoming unreliable and requires a major rehabilitation. This project will eliminate the lift station by constructing a new gravity line to route sewage the existing gravity system in the adjacent Timber Ridge Street.

Budget: \$300,000

Schedule: Summer 2022



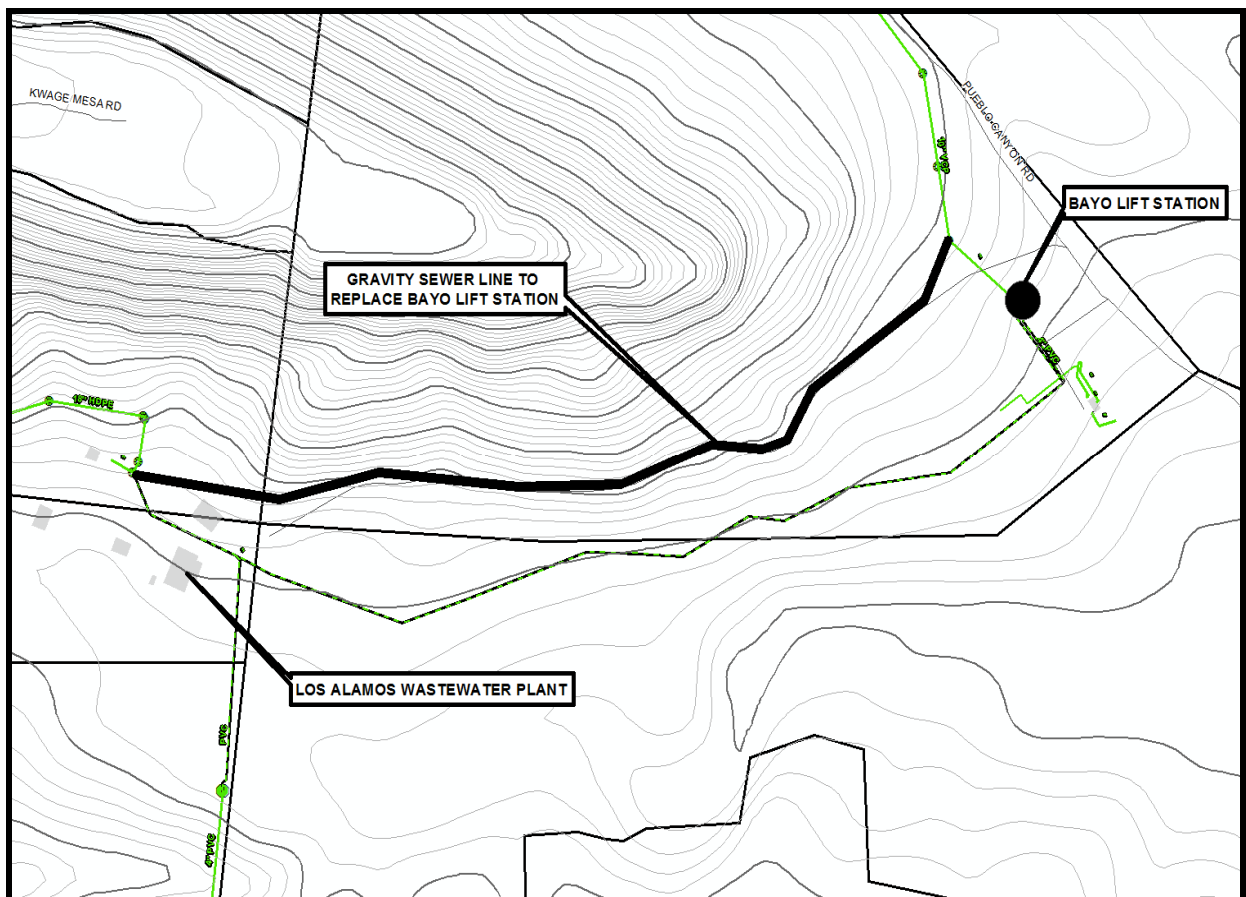
WASTEWATER TREATMENT

FY23: 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. A CWSRF loan has been applied for to fund the project.

Budget: \$1,200,000 (CWSRF)

Schedule: Summer and Fall 2022



WASTEWATER TREATMENT

FY23: Composting Improvements Phase II

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: \$743,000

Schedule: Fall 2022



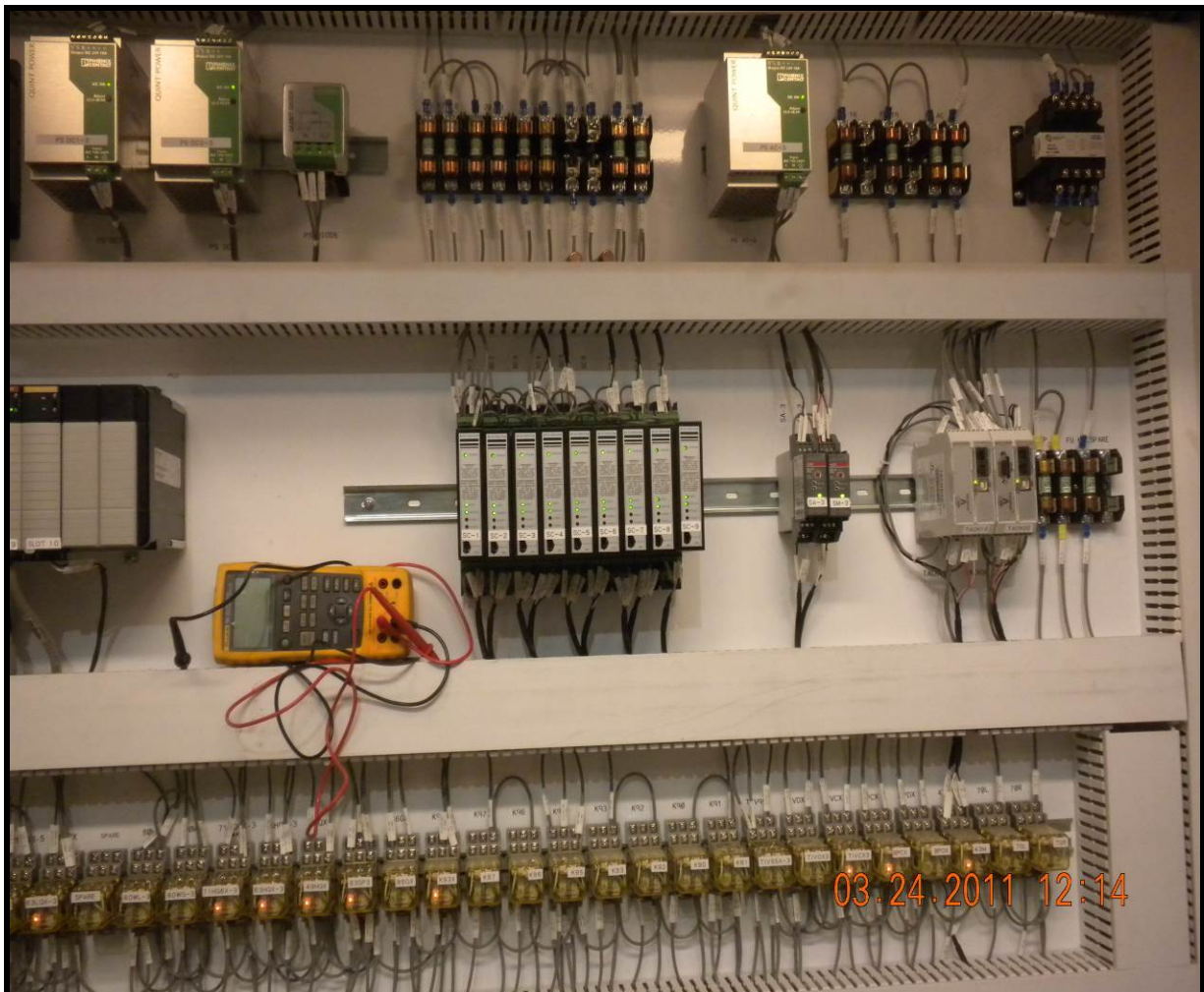
ELECTRIC PRODUCTION

FY24: 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: \$500,000

Schedule: Fall/Winter 2023-2024



ELECTRIC DISTRIBUTION

FY24: 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. Areas to be included are: Eastern Area, Los Pueblos, Piedra Loop, Mariposa, La Rosa, Arbol, Agila

1. Townsite	\$2,400,000
2. White Rock	\$3,000,000

Budget: \$ 5,400,000
Schedule: Year-round design and construction



ELECTRIC DISTRIBUTION

FY24: 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). Areas to be included are: Fairway, Trinity, Pajarito Acres, San Ildefonso

1. Townsite and White Rock

\$ 525,000

Budget: \$ 525,000

Schedule: Year-round design and construction



ELECTRIC DISTRIBUTION

FY24: EA-4 Powerline Replacement Design

Project Scope: The EA4 line is a separate feeder supplied by LANL to the County. The line enters the service area at NM502 Entrance and crosses 5 canyons to Feed the Townsite Sewer Plant, East Gate Business area, Townsite water wells in Rendija Canyon and the Totavi gas station. The line has no access over much of its length. The line was constructed in the 60's.

1. EA4 Power Line Replacement Design Contract

\$ 450,000

Budget: \$450,000

Schedule: FY 24



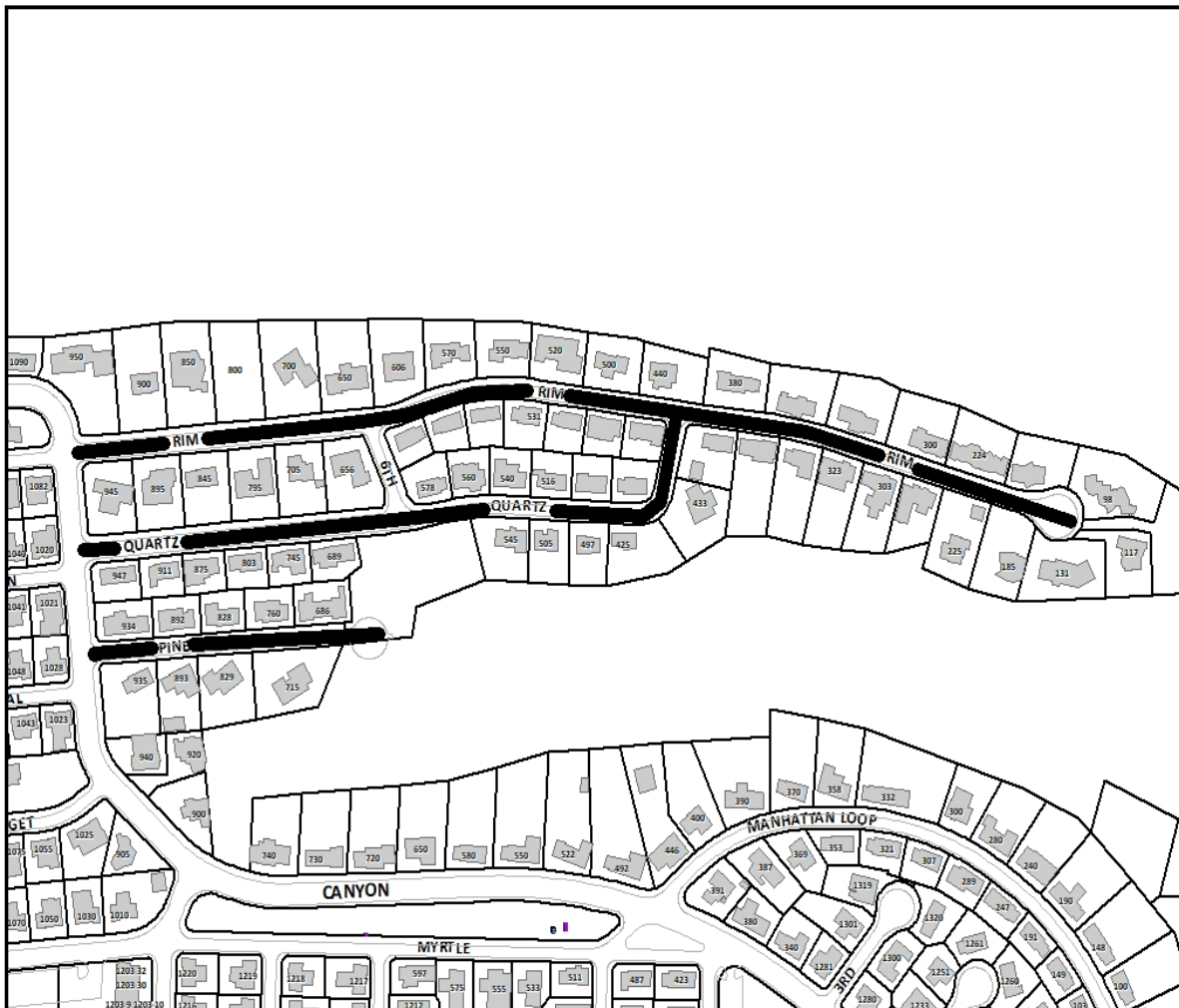
ELECTRIC DISTRIBUTION

FY24: Rim / Quartz / Pine / 6th Street

Project Scope: This will be a joint project between DPU and the Public Works Department to overlay and upgrade sections of electric lines in Rim Road, Quartz Street, Pine Street and 6th Street in Los Alamos.

Budget: \$225,000 (Profit Transfer)

Schedule: Summer 2024

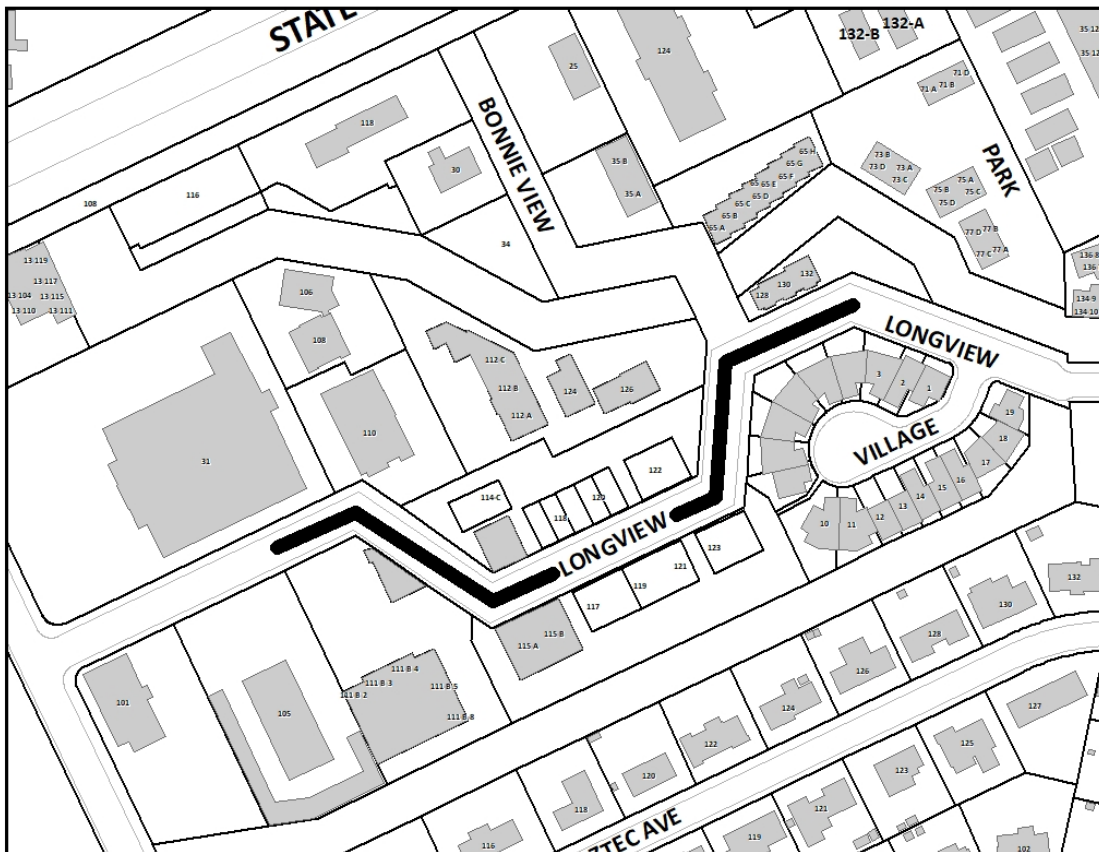


GAS DISTRIBUTION / WATER DISTRIBUTION / WASTEWATER COLLECTION / ELECTRIC DISTRIBUTION FY24: Longview Drive – White Rock

Project Scope: This will be a joint project between DPU and the Public Works Department to reconstruct Longview Drive and upgrade the existing utilities. The aged existing utilities will be replaced prior to reconstructing the new roadway. Some existing utilities will be relocated from existing easements into the street right-of-way to free up the properties for new development. The work will potentially be funded by the County's economic development budget.

Budget:	Electric Distribution	\$ 200,000
	Gas Distribution	\$ 135,000
	Water Distribution	\$ 170,000
	Wastewater Collection	\$ 220,000
	Total	\$ 725,000

Schedule: Summer 2024



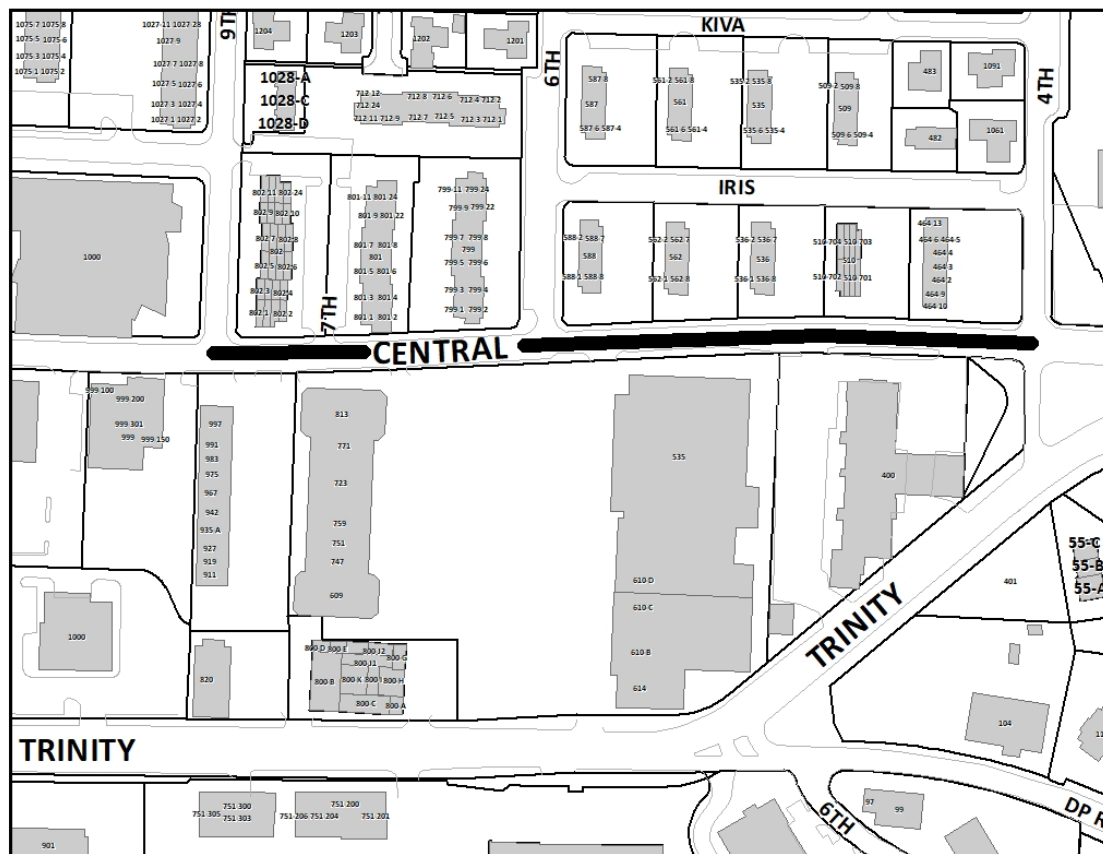
GAS DISTRIBUTION / WATER DISTRIBUTION / WASTEWATER COLLECTION

FY24: Central Ave. – 9th Street to Round-A-Bout

Project Scope: This will be a joint project between DPU and the Public Works Department to reconstruct Central Avenue from 9th Street to the NM-502 round-a-bout. There is currently no waterline in this section of Central Avenue and the gas line is undersized. A new waterline and gas line will be constructed to upgrade the systems and improve available fire protection to serve the redevelopment of the Mari Mac Village Shopping Center. Sections of sewer line will be rerouted to resolve conflicts with existing structures.

Budget:	Gas Distribution	\$ 111,509 (Profit Transfer)
	Water Distribution	\$ 351,252 (Profit Transfer)
	Wastewater Collection	\$ 95,000
	Total	\$ 557,761

Schedule: Summer 2024



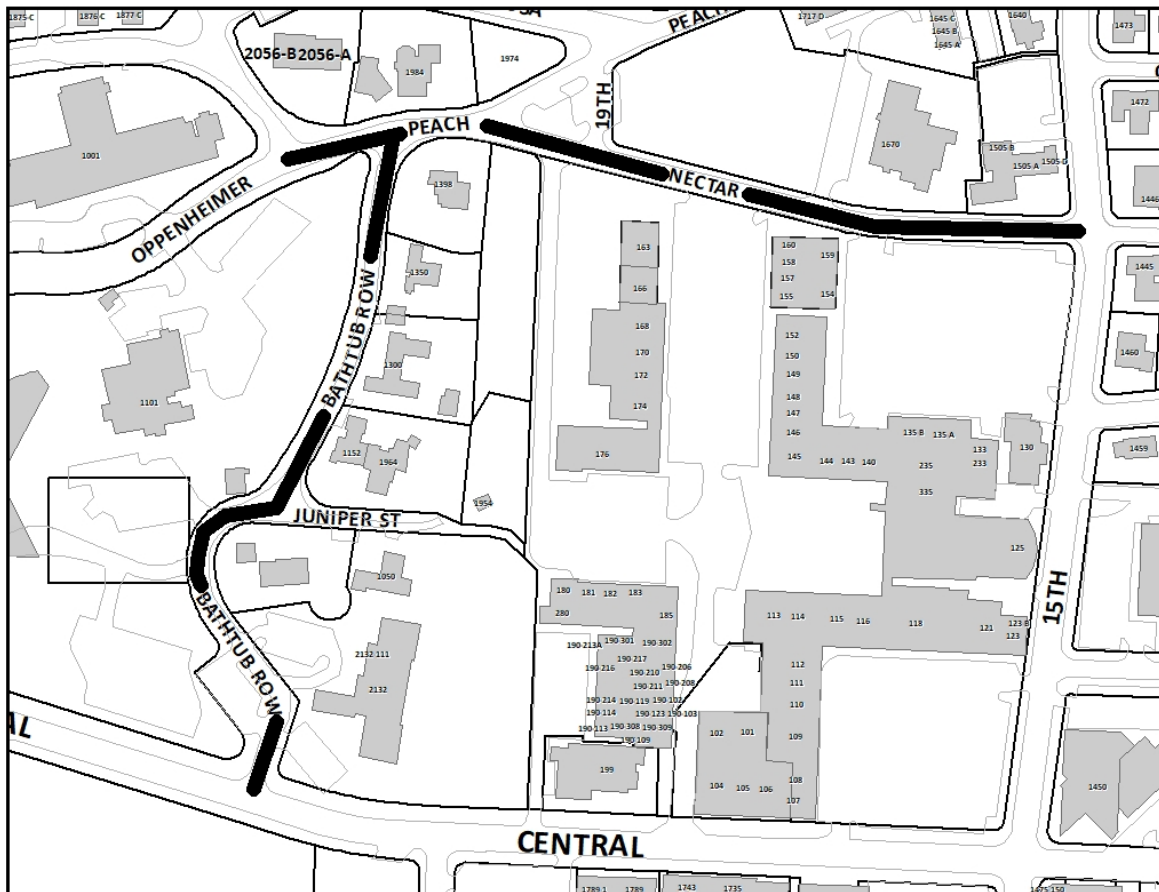
WATER DISTRIBUTION / WASTEWATER COLLECTION

FY24: Bathtub / Peach / Nectar

Project Scope: This will be a joint project between DPU and the Public Works Department to reconstruct the roadways and replace waterlines and sewer lines in Bathtub Row, Peach Street and Nectar Street in Los Alamos. The waterlines were installed in the 1950s and are in poor condition. The sewer lines are vitrified clay and are poorly constructed in Bathtub Row.

Budget: \$592,643 Water (Profit Transfer)
 \$395,000 Wastewater

Schedule: Summer 2024



WATER PRODUCTION

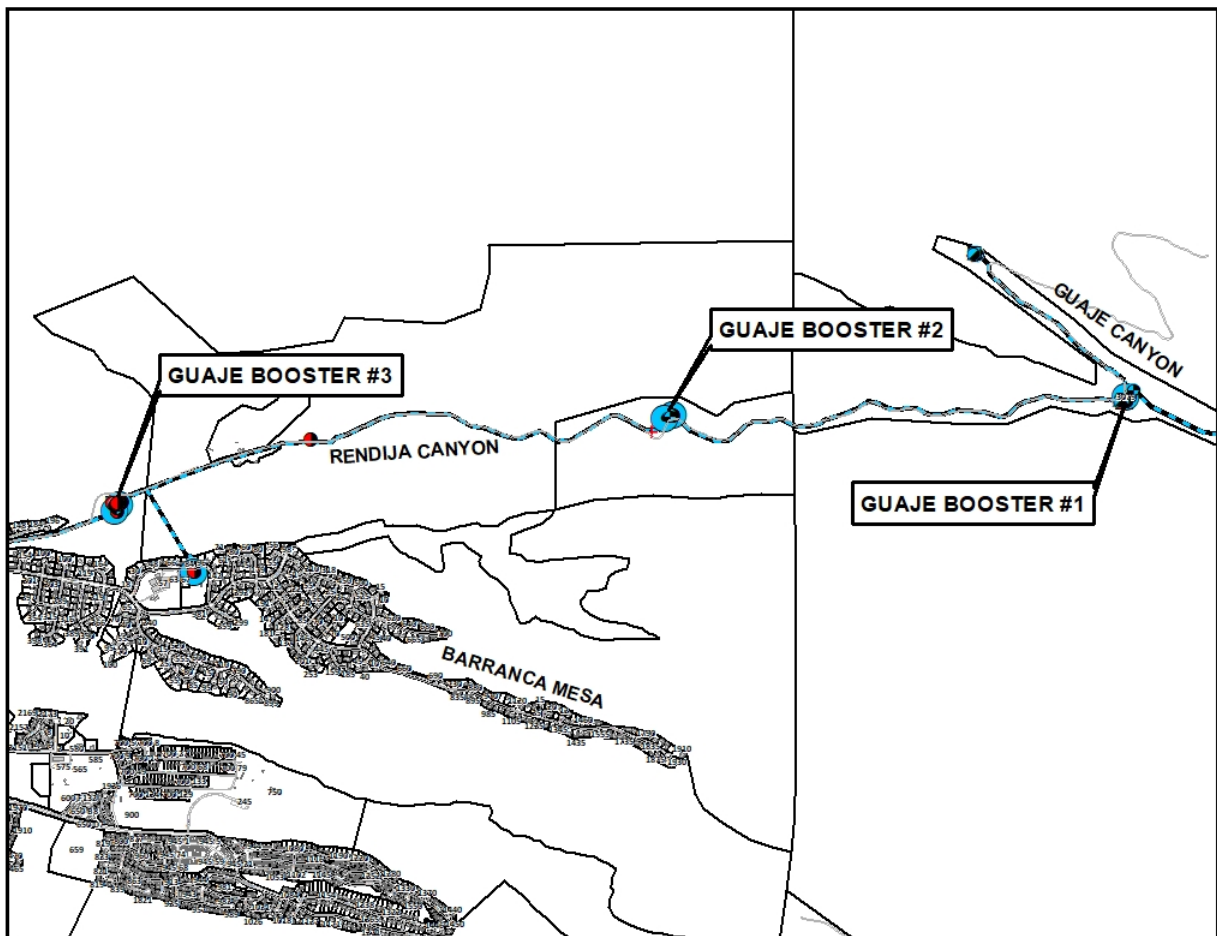
FY24: Paint Guaje Booster Station Tanks

Project Scope: The Guaje Well field consists of five water wells and three water booster stations that convey the well water to the community of Los Alamos. There are five water tanks that are associated with the booster stations. The existing coatings have deteriorated, exposing the steel substructure to moisture and corrosion. The new paint will protect the tanks for another 30 years. A low interest Clean Water State Revolving Loan will be secured to fund the project.

Budget:

\$ 825,000	Repaint Guaje Booster Station 1 – Tank 1
\$ 900,000	Repaint Guaje Booster Station 2 – Tanks 1 & 2
\$1,075,000	Repaint Guaje Booster Station 3 – Tanks 1 & 2

Schedule: Fall 2023 & Spring 2024



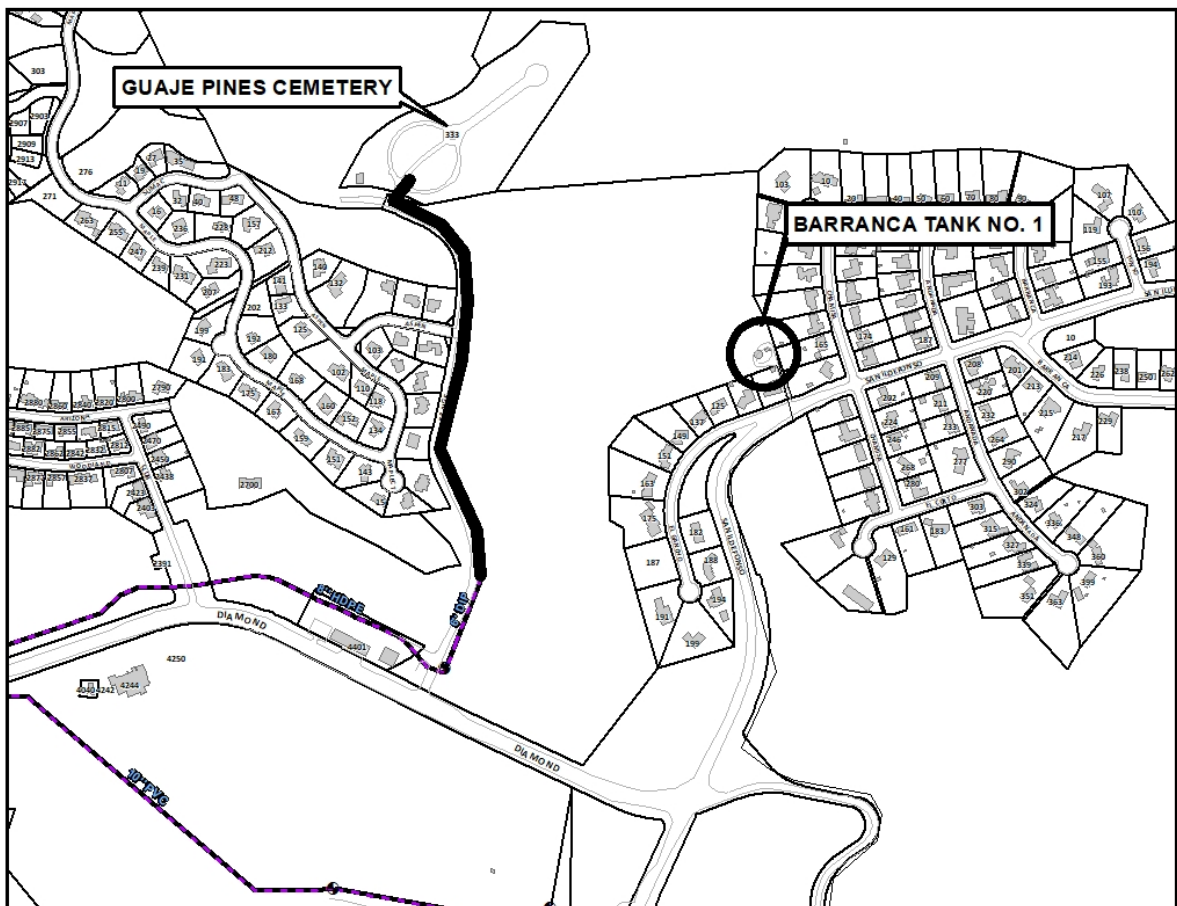
WATER PRODUCTION

FY24: Non-Potable Guaje Pines Cemetery Pipeline & Barranca Tank No. 1 Storage

Project Scope: This project will rehabilitate the existing Barranca Mesa Tank No. 1 and re-purpose it for use as a non-potable water storage tank. An additional 100,000 gallons of storage will be available to the system. A new non-potable pipeline will be constructed to provide irrigation to the Guaje Pines Cemetery. An application to the water Trust Board will be submitted to fund the project.

Budget: \$ 1,500,000 (Water Trust Board)

Schedule: Summer 2024



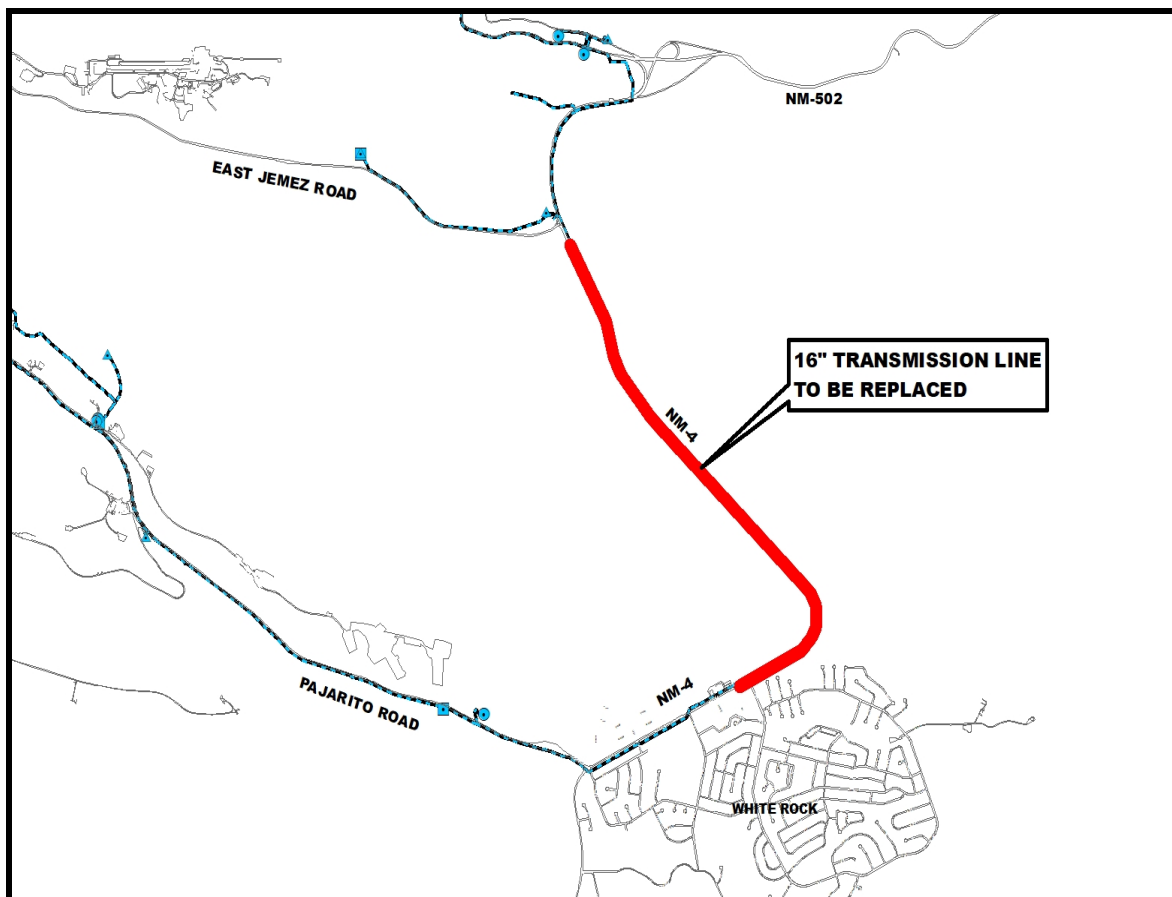
WATER PRODUCTION

FY24: 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 2024. 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: \$4,300,000 (NM Legislature Special Appropriations & DWSRL)

Schedule: Construction Summer 2024



WASTEWATER TREATMENT

FY24: North Mesa Sewer Canyon Drop Replacement

Project Scope: This project will replace two steel sewer pipes that are attached to the walls of North Mesa. This canyon drop sewer was constructed in the 1970's with construction methods available at the time. The pipeline is impossible to maintain and in the event of a failure a significant release of sewage to the environment would occur. In preparation for an expected 400 new homes that will be built on North Mesa, the existing sewer drop will be replaced with a new polyethylene sewer line installed by the horizontal directional drilling (HDD). HDD is a trenchless technology which has minimal environmental impacts and has been used successfully by DPU to build pipelines from the mesa tops to canyon bottoms. The project will potentially be funded by County economic developments funds.

Budget: \$1,250,000

Schedule: Summer 2024



**Cash Projection by Priority of Budgeted Expenditures Schedule
FY2023 Budget**

	Electric Prod	Elec Dist	Gas	Water Prod	Water Dist	Wastewater	TOTAL
Beginning Cash - Unrestricted per FY21 ACFR	\$ 1,087,068	\$ 731,365	\$ 1,492,789	\$ 9,433,091	\$ (1,652,714)	\$ 2,923,778	\$ 14,015,377
Beginning Cash - Restricted Including Reserves per FY21 ACFR	\$ 13,280,814	\$ 1,349,044	\$ 2,032,932	\$ 2,083,888	\$ -	\$ 4,363,479	\$ 23,110,157
Total Cash Per FY21 ACFR	\$ 14,367,882	\$ 2,080,408	\$ 3,525,721	\$ 11,516,979	\$ (1,652,714)	\$ 7,287,257	\$ 37,125,533
Beginning Cash - Unrestricted per FY22 Projected	\$ (374,273)	\$ (2,047,595)	\$ 1,077,622	\$ 3,323,596	\$ (4,273,711)	\$ 1,433,231	\$ (861,130)
Beginning Cash - Restricted Including Reserves per FY22 Projected	\$ 13,520,965	\$ 1,338,576	\$ 2,032,932	\$ 2,097,635	\$ -	\$ 4,363,479	\$ 23,353,587
Total Cash Per FY22 Projected	\$ 13,146,692	\$ (709,019)	\$ 3,110,554	\$ 5,421,231	\$ (4,273,711)	\$ 5,796,710	\$ 22,492,457
Total Budgeted Revenue (including transfers-in/grants/loans)	38,441,973	15,536,122	7,558,252	9,676,165	7,284,336	8,280,036	86,776,884
Intrafund Charges/Commodities	8,175,262	(8,175,262)	(4,310,400)	3,363,500	(3,363,500)	-	(4,310,400)
<i>Budgeted Expenditures by Priority per Charter or Utilities Financial Policies</i>							
1. Current Operations Budget (Including Normal Maintenance) Expense	(45,853,316)	(4,554,291)	(2,692,850)	(4,314,206)	(2,656,361)	(4,691,134)	(64,762,158)
2. Bond & Other Debt Service Expense	(601,674)	(982,377)	-	(654,788)	-	(698,314)	(2,937,154)
3b. Capital Plan for FY2023 - Replacement Expense	B (145,000)	(650,000)	(460,000)	(3,222,980)	(1,084,369)	(2,930,686)	(8,493,035)
4a. Franchise Fee (paid to the General Fund) Expense		(304,202)	(148,114)	-	-	-	(452,315)
4b. In Lieu Taxes (paid to the General Fund) Expense	(17,245)	(260,204)	(276,202)	-	-	-	(553,651)
5a. Capital Additions and Improvements for FY2023 - Capital Expense	-	-	-	(7,517,365)	-	-	(7,517,365)
Cash Projection for Other Utilities Reserves per Schedule of Funds							
3a. Replacement Reserve (Capital Expenditures Reserve) Net Addition/Reduction	-	-	18,595	358,997	-	382,973	760,565
3a. Move unrestricted cash to restricted cash to fund Replacement Reserve	A -	-	(18,595)	(358,997)	-	(382,973)	(760,565)
w. Net Add/Reduction - Util Operating Reserve	-	-	216,939	240,360	-	329,310	786,609
x. Net Add/Reduction - Util Retirement/Reclamation Reserve	39,000	-	-	-	-	-	39,000
y. Net Add/Reduction - Util Rate Stabilization Reserve	-	-	-	-	-	-	-
z. Net Add/Reduction - Util Contingency Reserve	-	-	3,980	-	-	5,572	9,552
w-z Move unrestricted cash to restricted cash to fund Other Utilities Reserves	A (39,000)	-	(220,919)	(240,360)	-	(334,882)	(835,161)
Total Projected Cash Use (excluding transfers from Unrestricted to Restricted - items 3a. and w through x.)	(46,617,235)	(14,926,336)	(7,887,566)	(15,709,339)	(7,104,230)	(8,320,134)	(100,564,841)
Net Cash Budgeted Sources and Uses (Operating Profit)	\$ (0)	\$ 609,786	\$ (329,314)	\$ (2,669,674)	\$ 180,106	\$ (40,098)	\$ (2,249,195)
6a. Budgeted Profit Transfer (5% ED & GA Retail Sales excluding County/Schools)	-	(654,033)	(345,845)	-	-	-	(999,879)
6b. All Remaining Operating Profits (after initial 5% profit transfer) prior to funding reserve targets. See unfunded reserves balances below.	\$ (0)	\$ (44,248)	\$ (675,159)	\$ (2,669,674)	\$ 180,106	\$ (40,098)	\$ (3,249,073)

**Cash Projection by Priority of Budgeted Expenditures Schedule
FY2023 Budget**

	Electric Prod	Elec Dist	Gas	Water Prod	Water Dist	Wastewater	TOTAL
Projected Ending Cash - Unrestricted FY22 Proposed	\$ (374,642)	\$ (2,079,215)	\$ 162,948	\$ -	\$ (4,093,605)	\$ 675,277	\$ 8,923,840
Projected Ending Cash - Restricted FY22 Proposed	\$ 13,521,333	\$ 1,325,949	\$ 2,272,446	\$ 2,751,557	\$ -	\$ 5,081,335	\$ 24,952,620
Total Projected Ending Cash FY22 Proposed	\$ 13,146,691	\$ (753,267)	\$ 2,435,395	\$ 2,751,557	\$ (4,093,605)	\$ 5,756,612	\$ 33,876,460
Funded Reserve Balances	\$ 13,521,333	\$ 1,325,949	\$ 2,272,446	\$ 2,751,557	\$ -	\$ 5,081,335	\$ 24,356,049
Reserve Targets	\$ 19,590,386	\$ 13,843,406	\$ 2,245,950	\$ 4,788,663	\$ 1,890,549	\$ 5,081,334	\$ 47,440,288
Total Reserves Over<Under> Target	\$ (6,069,053)	\$ (12,517,457)	\$ 26,497	\$ (2,037,106)	\$ (1,890,549)	\$ 0	\$ (23,084,239)

A - Transfer and recording in the G/L moving cash from unrestricted to restricted for established Reserves

B - One year (FY20 budget) of capital plan expense located in the 10-Year Capital Plan Schedule

Schedule of Funds
FY2023 Budget

	Electric Prod	Elec Dist	Gas	Water Prod	Water Dist	Wastewater	TOTAL
Operations Reserve (180 days of bud operations and maint, excluding commodities)							
Beginning Balance FY2021 ACFR	-	-	1,341,644	1,916,743	-	2,016,257	5,274,644
Net Change in Reserve FY2022 to be booked June 30	-	-	-	-	-	-	-
Projected Balance FY2022	-	-	1,341,644	1,916,743	-	2,016,257	
Budgeted Additions to the Reserve FY2023	-	-	216,939	240,360	-	329,310	786,609
Budgeted Reductions to the Reserve FY2023	-	-	-	-	-	-	-
Budgeted Balance FY2023	-	-	1,558,583	2,157,103	-	2,345,567	6,061,253
TARGET FY2023	6,500,669	2,559,348	1,558,583	2,157,103	1,328,181	2,345,567	16,449,451
Debt Service Reserve (as required by loan docs)							
Beginning Balance FY2021 ACFR	1,704,511	1,349,044	-	167,145	-	717,755	3,938,455
Net Change in Reserve FY2022 to be booked June 30	365,892	(10,468)	-	13,747	-	-	
Projected Balance FY2022	2,070,403	1,338,576	-	180,892	-	717,755	
Budgeted Additions to the Reserve FY2023	601,674	982,377	-	709,354	-	-	2,293,406
Budgeted Reductions to the Reserve FY2023	(993,447)	(995,004)	-	(654,788)	-	-	(2,643,240)
Budgeted Balance FY2023	1,678,630	1,325,949	-	235,458	-	717,755	3,588,621
TARGET FY2023	1,678,670	1,325,949	-	235,458	-	717,755	3,957,831
Retirement/Reclamation Reserve (per agreements)							
Beginning Balance FY2021 ACFR	11,576,303	-	-	-	-	-	11,576,303
Net Change in Reserve FY2022 to be booked June 30	227,400	-	-	-	-	-	
Projected Balance FY2022	11,803,703	-	-	-	-	-	
Budgeted Additions to the Reserve FY2023	39,000	-	-	-	-	-	39,000
Budgeted Reductions to the Reserve FY2023	-	-	-	-	-	-	-
Budgeted Balance FY2023	11,842,703	-	-	-	-	-	11,615,303
TARGET FY2023	10,162,581	-	-	-	-	-	10,162,581
Capital Expenditures Reserve							
Beginning Balance FY2021 ACFR	-	-	425,947	-	-	1,257,990	1,683,937
Net Change in Reserve FY2022 to be booked June 30	-	-	-	-	-	-	-
Projected Balance FY2022	-	-	425,947	-	-	1,257,990	
Budgeted Additions to the Reserve FY2023	-	-	18,595	358,997	-	382,973	760,565
Budgeted Reductions to the Reserve FY2023	-	-	-	-	-	-	-
Budgeted Balance FY2023	-	-	444,542	358,997	-	1,640,963	2,444,502
TARGET FY2023 (annual deprec + 2.5%)	1,248,466	1,202,161	425,947	1,946,103	562,368	1,640,963	7,026,008
Rate Stabilization Reserve (where pass-through rate for commodities not in place)							
Beginning Balance FY2021 ACFR	-	-	-	-	-	-	-
Net Change in Reserve FY2022 to be booked June 30	-	-	-	-	-	-	-
Projected Balance FY2022	-	-	-	-	-	-	-
Budgeted Additions to the Reserve FY2023	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve FY2023	-	-	-	-	-	-	-
Budgeted Balance FY2023	-	-	-	-	-	-	-
TARGET FY2023	-	8,217,306	-	-	-	-	8,217,306

Schedule of Funds
FY2023 Budget

	Electric Prod	Elec Dist	Gas	Water Prod	Water Dist	Wastewater	TOTAL
Contingency Reserve (single largest equipment with potential for failure DPU Asset Team)							
Beginning Balance FY2021 ACFR	-	-	265,341	-	-	371,477	636,818
Net Change in Reserve FY2022 to be booked June 30	-	-	-	-	-	-	-
Projected Balance FY2022	-	-	265,341	-	-	371,477	-
Budgeted Additions to the Reserve FY2023	-	-	3,980	-	-	5,572	9,552
Budgeted Reductions to the Reserve FY2023	-	-	-	-	-	-	-
Budgeted Balance FY2023	-	-	269,321	-	-	377,049	646,370
TARGET FY2023	-	538,642	261,420	450,000	-	377,049	1,627,111
Bond Proceeds Restricted (no outstanding bond proceeds at this time)							
Beginning Balance FY2021 ACFR	-	-	-	-	-	-	-
Net Change in Reserve FY2022 to be booked June 30	-	-	-	-	-	-	-
Projected Balance FY2022	-	-	-	-	-	-	-
Budgeted Additions to the Reserve FY2023	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve FY2023	-	-	-	-	-	-	-
Budgeted Balance FY2023	-	-	-	-	-	-	-
TARGET FY2023	-	-	-	-	-	-	-
TOTAL RESERVES/RESTRICTED CASH							
Beginning Balance FY2021 ACFR	13,280,814	1,349,044	2,032,932	2,083,888	-	4,363,479	23,110,157
Net Change in Reserve FY2022 to be booked June 30	593,292	(10,468)	-	13,747	-	-	-
Projected Balance FY2022	13,874,106	1,338,576	2,032,932	2,097,635	-	4,363,479	-
Budgeted Additions to the Reserve FY2023	640,674	982,377	239,514	1,308,711	-	717,855	3,889,132
Budgeted Reductions to the Reserve FY2023	(993,447)	(995,004)	-	(654,788)	-	-	(2,643,240)
Budgeted Balance FY2023	13,521,333	1,325,949	2,272,446	2,751,557	-	5,081,335	24,356,049
TARGET FY2023	19,590,386	13,843,406	2,245,950	4,788,663	1,890,549	5,081,334	47,440,288
Total Reserves Over<Under> Target	(6,069,053)	(12,517,457)	26,497	(2,037,106)	(1,890,549)	0	(23,084,239)

Capital Plan with Funding Sources Schedule**FY2023 Budget**

See 10-Year Capital Plan for Detailed Listing of Projects

	Electric Prod	Elec Dist	Gas	Water Prod	Water Dist	Wastewater	TOTAL
Capital Projects Funded through Reserve or Unrestricted Cash	145,000	650,000	375,000	3,222,980	-	1,312,000	5,704,980
Capital Projects Funded through Debt	-	-	-	6,088,705	-	1,200,000	7,288,705
Capital Projects Funded through Grants				1,428,660		-	1,428,660
Capital Projects Funded through Other Sources	-	-	85,000	-	1,084,369	418,686	1,588,055
Total Capital Projects	145,000	650,000	460,000	10,740,345	1,084,369	2,930,686	16,010,400

**Cash Projection by Priority of Budgeted Expenditures Schedule
FY2023 to FY2032**

ELECTRIC PRODUCTION	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Beginning Cash - Unrestricted per FY21 ACFR	\$ 1,087,068									
Beginning Cash - Restricted Including Reserves per FY21 ACFR	\$ 13,280,814									
Total Cash	\$ 14,367,882									
Beginning Cash - Unrestricted per Current FY Projected	\$ (374,273)	\$ (374,642)	\$ (413,479)	\$ 66,653	\$ (603,446)	\$ (1,294,350)	\$ (1,955,569)	\$ (2,279,125)	\$ (2,460,648)	\$ (811,999)
Beginning Cash - Restricted Including Reserves per Current FY Projected	\$ 13,520,965	\$ 13,521,333	\$ 13,560,171	\$ 13,598,159	\$ 13,636,355	\$ 13,674,831	\$ 13,713,726	\$ 13,752,273	\$ 13,790,503	\$ 12,154,703
Total Cash Current FY Projected	\$ 13,146,692	\$ 13,146,691	\$ 13,146,692	\$ 13,664,812	\$ 13,032,908	\$ 12,380,481	\$ 11,758,156	\$ 11,473,148	\$ 11,329,855	\$ 11,342,704
Total Budgeted Revenue (including transfers-in/grants/loans)	38,441,973	38,890,855	39,918,543	33,121,763	33,433,783	38,313,524	45,960,472	44,195,192	44,584,793	44,722,597
Intrafund Charges/Commodities	8,175,262	6,820,031	7,123,203	6,704,196	6,743,439	6,988,607	6,972,336	6,988,234	6,751,294	6,751,294
<i>Budgeted Expenditures by Priority per Charter or Utilities Financial Policies</i>										
1. Current Operations Budget (Including Normal Maintenance) Expense	(45,853,316)	(44,598,384)	(45,377,264)	(39,625,155)	(40,257,225)	(45,357,292)	(52,653,336)	(50,771,479)	(51,323,238)	(51,484,054)
2. Bond & Other Debt Service Expense	(601,674)	(599,256)	(587,117)	(577,462)	(571,180)	(569,918)	(564,481)	(555,240)	-	-
3b. Capital Plan for FY2023 - Replacement Expense	B (145,000)	(500,000)	(550,000)	(250,000)	-	-	-	-	-	-
4a. Franchise Fee (paid to the General Fund) Expense	-	-	-	-	-	-	-	-	-	-
4b. In Lieu Taxes (paid to the General Fund) Expense	(17,245)	(13,245)	(9,245)	(5,245)	(1,245)	2,755	-	-	-	-
5a. Capital Additions and Improvements for FY2023 - Capital Expense	-	-	-	-	-	-	-	-	-	-
Cash Projection for Other Utilities Reserves per Schedule of Funds										
3a. Replacement Reserve (Capital Expenditures Reserve) Net Addition/Reduction	A -	-	-	-	-	-	-	-	-	-
3a. Move unrestricted cash to restricted cash to fund Replacement Reserve	-	-	-	-	-	-	-	-	-	-
w. Net Add/Reduction - Util Operating Reserve	-	-	-	-	-	-	-	-	-	-
x. Net Add/Reduction - Util Retirement/Reclamation Reserve	227,400	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000
y. Net Add/Reduction - Util Rate Stabilization Reserve	-	-	-	-	-	-	-	-	-	-
z. Net Add/Reduction - Util Contingency Reserve	-	-	-	-	-	-	-	-	-	-
w-z Move unrestricted cash to restricted cash to fund Other Utilities Reserves	A (227,400)	(39,000)	(39,000)	(39,000)	(39,000)	(39,000)	(39,000)	(39,000)	(39,000)	(39,000)
Total Projected Cash Use (excluding transfers from Unrestricted to Restricted - items 3a. and w through x.)	(46,617,235)	(45,710,885)	(46,523,625)	(40,457,862)	(40,829,649)	(45,924,455)	(53,217,817)	(51,326,719)	(51,323,238)	(51,484,054)
Net Cash Budgeted Sources and Uses (Operating Profit)	\$ (0)	\$ 0	\$ 518,121	\$ (631,904)	\$ (652,427)	\$ (622,325)	\$ (285,009)	\$ (143,293)	\$ 12,849	\$ (10,163)
6a. Budgeted Profit Transfer (5% ED & GA Retail Sales excluding County/Schools)	-	-	-	-	-	-	-	-	-	-
6b. All Remaining Operating Profits (after initial 5% profit transfer) prior to funding reserve targets. See unfunded reserves balances below.	\$ (0)	\$ 0	\$ 518,121	\$ (631,904)	\$ (652,427)	\$ (622,325)	\$ (285,009)	\$ (143,293)	\$ 12,849	\$ (10,163)
Projected Ending Cash - Unrestricted	\$ (374,642)	\$ (413,479)	\$ 66,653	\$ (603,446)	\$ (1,294,350)	\$ (1,955,569)	\$ (2,279,125)	\$ (2,460,648)	\$ (811,999)	\$ (861,162)
Projected Ending Cash - Restricted	\$ 13,521,333	\$ 13,560,171	\$ 13,598,159	\$ 13,636,355	\$ 13,674,831	\$ 13,713,726	\$ 13,752,273	\$ 13,790,503	\$ 12,154,703	\$ 12,193,703
Total Projected Ending Cash	\$ 13,146,691	\$ 13,146,692	\$ 13,664,812	\$ 13,032,908	\$ 12,380,481	\$ 11,758,156	\$ 11,473,148	\$ 11,329,855	\$ 11,342,704	\$ 11,332,541
Funded Reserve Balances	\$ 13,521,333	\$ 13,560,171	\$ 13,598,159	\$ 13,636,355	\$ 13,674,831	\$ 13,713,726	\$ 13,752,273	\$ 13,790,503	\$ 12,154,703	\$ 12,193,703
Reserve Targets	\$ 19,590,386	\$ 19,229,595	\$ 18,472,702	\$ 18,117,720	\$ 17,764,829	\$ 18,108,639	\$ 18,210,970	\$ 18,539,634	\$ 17,305,133	\$ 17,762,091
Total Reserves Over<Under> Target	\$ (6,069,053)	\$ (5,669,424)	\$ (4,874,543)	\$ (4,481,366)	\$ (4,089,998)	\$ (4,394,913)	\$ (4,458,697)	\$ (4,749,131)	\$ (5,150,430)	\$ (5,568,388)

A - Transfer and recording in the G/L moving cash from unrestricted to restricted for established Reserves

B - One year (FY20 budget) of capital plan expense located in the 10-Year Capital Plan Schedule

Schedule of Funds
FY2022 to FY2032
ELECTRIC PRODUCTION

	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031
Operations Reserve (180 days of bud operations and maint)										
Beginning Balance	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-
TARGET	5,742,940	6,500,669	5,960,305	6,142,704	6,070,009	6,021,781	6,638,511	6,676,094	6,649,861	6,715,864
Debt Service Reserve (as required by loan docs)										
Beginning Balance	1,704,511	2,070,403	1,678,630	1,678,468	1,677,456	1,676,652	1,676,128	1,676,023	1,675,570	1,674,800
Budgeted Additions to the Reserve	1,306,921	601,674	599,256	587,117	577,462	571,180	569,918	564,481	555,240	-
Budgeted Reductions to the Reserve	(941,029)	(993,447)	(599,418)	(588,129)	(578,266)	(571,704)	(570,023)	(564,934)	(556,010)	(1,674,800)
Budgeted Balance	2,070,403	1,678,630	1,678,468	1,677,456	1,676,652	1,676,128	1,676,023	1,675,570	1,674,800	(0)
TARGET	1,706,949	1,678,670	1,678,468	1,677,456	1,676,652	1,676,128	1,676,023	1,675,570	1,674,800	-
Retirement/Reclamation Reserve (per agreements)										
Beginning Balance	11,576,303	11,803,703	11,842,703	11,881,703	11,920,703	11,959,703	11,998,703	12,037,703	12,076,703	12,115,703
Budgeted Additions to the Reserve	227,400	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	11,803,703	11,842,703	11,881,703	11,920,703	11,959,703	11,998,703	12,037,703	12,076,703	12,115,703	12,154,703
TARGET	10,757,566	9,919,257	10,343,349	9,401,546	9,118,462	8,814,322	8,541,507	8,606,708	8,962,375	9,336,671
Capital Expenditures Reserve (annual deprec + 2.5%)										
Beginning Balance	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-
TARGET (annual deprec + 2.5%)	1,243,341	1,244,270	1,247,473	1,250,996	1,252,598	1,252,598	1,252,598	1,252,598	1,252,598	1,252,598
Rate Stabilization Reserve (where pass-through rate for commodities not in place)										
Beginning Balance	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-

Schedule of Funds
FY2022 to FY2032
ELECTRIC PRODUCTION

	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031
Contingency Reserve (single largest equipment with potential for failure DPU Asset Team)										
Beginning Balance	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-
Bond Proceeds Restricted										
Beginning Balance	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-
TOTAL RESERVES/RESTRICTED CASH										
Beginning Balance	13,280,814	13,874,106	13,521,333	13,560,171	13,598,159	13,636,355	13,674,831	13,713,726	13,752,273	13,790,503
Budgeted Additions to the Reserve	1,534,321	640,674	638,256	626,117	616,462	610,180	608,918	603,481	594,240	39,000
Budgeted Reductions to the Reserve	(941,029)	(993,447)	(599,418)	(588,129)	(578,266)	(571,704)	(570,023)	(564,934)	(556,010)	(1,674,800)
Budgeted Balance	13,874,106	13,521,333	13,560,171	13,598,159	13,636,355	13,674,831	13,713,726	13,752,273	13,790,503	12,154,703
TARGET	19,450,796	19,342,866	19,229,595	18,472,702	18,117,720	17,764,829	18,108,639	18,210,970	18,539,634	17,305,133
Total Reserves Over<Under> Target	(5,576,690)	(5,821,533)	(5,669,424)	(4,874,543)	(4,481,366)	(4,089,998)	(4,394,913)	(4,458,697)	(4,749,131)	(5,150,430)

Capital Plan with Funding Sources Schedule**FY2023 to FY2032**

See 10-Year Capital Plan for Detailed Listing of Projects

ELECTRIC PRODUCTION

	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Capital Projects Funded through Reserve or Unrestricted Cash	145,000	500,000	550,000	250,000	-	-	-	-	-	-
Capital Projects Funded through Debt	-	-	-	-	-	-	-	-	-	-
Capital Projects Funded through Grants	-	-	-	-	-	-	-	-	-	-
Capital Projects Funded through Other Sources	-	-	-	-	-	-	-	-	-	-
Total Capital Projects	145,000	500,000	550,000	250,000	-	-	-	-	-	-

**Cash Projection by Priority of Budgeted Expenditures Schedule
FY2023 to FY2032**

ELECTRIC DISTRIBUTION	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Beginning Cash - Unrestricted per FY21 ACFR	\$ 731,365									
Beginning Cash - Restricted Including Reserves per FY21 ACFR	\$ 1,349,044									
Total Cash	\$ 2,080,408									
Beginning Cash - Unrestricted per Current FY Projected	\$ (2,047,595)	\$ (2,079,215)	\$ (652,993)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Beginning Cash - Restricted Including Reserves per Current FY Projected	\$ 1,338,576	\$ 1,325,949	\$ 1,492,706	\$ 2,874,035	\$ 6,345,555	\$ 8,870,763	\$ 8,869,975	\$ 8,942,276	\$ 10,462,860	\$ 14,525,760
Total Cash Current FY Projected	\$ (709,019)	\$ (753,267)	\$ 839,713	\$ 2,874,035	\$ 6,345,555	\$ 8,870,763	\$ 8,869,975	\$ 8,942,276	\$ 10,462,860	\$ 14,525,760
Total Budgeted Revenue (including transfers-in/grants/loans)	15,536,122	23,079,745	28,346,240	23,348,911	22,326,285	20,606,308	21,201,206	22,029,213	28,267,953	22,089,629
Intrafund Charges/Commodities	(8,175,262)	(6,820,031)	(7,123,203)	(6,704,196)	(6,743,439)	(6,988,607)	(6,972,336)	(6,988,234)	(7,042,059)	(7,058,117)
<i>Budgeted Expenditures by Priority per Charter or Utilities Financial Policies</i>										
1. Current Operations Budget (Including Normal Maintenance) Expense	(4,554,291)	(4,361,969)	(4,427,399)	(4,493,810)	(4,561,217)	(4,629,635)	(4,699,079)	(4,769,566)	(4,841,109)	(4,913,726)
2. Bond & Other Debt Service Expense	(982,377)	(2,637,584)	(2,668,623)	(2,831,118)	(2,814,777)	(2,808,179)	(2,788,592)	(2,779,121)	(2,286,743)	(2,285,760)
3b. Capital Plan for FY2023 - Replacement Expense	B (650,000)	(6,375,000)	(10,875,000)	(4,575,000)	(4,350,000)	(4,800,000)	(5,250,000)	(4,500,000)	(8,550,000)	(2,200,000)
4a. Franchise Fee (paid to the General Fund) Expense	(304,202)	(327,612)	(350,061)	(367,705)	(386,237)	(401,802)	(413,937)	(430,702)	(434,966)	(429,368)
4b. In Lieu Taxes (paid to the General Fund) Expense	(260,204)	(260,204)	(115,000)	(114,999)	(114,999)	(115,000)	(114,999)	(114,999)	(115,000)	(115,000)
5a. Capital Additions and Improvements for FY2023 - Capital Expense	-	-	-	-	-	-	-	-	-	-
Cash Projection for Other Utilities Reserves per Schedule of Funds										
3a. Replacement Reserve (Capital Expenditures Reserve) Net Addition/Reduction	A -	-	-	1,725,769	117,234	111,469	123,000	134,531	115,313	219,094
3a. Move unrestricted cash to restricted cash to fund Replacement Reserve	-	-	-	(1,725,769)	(117,234)	(111,469)	(123,000)	(134,531)	(115,313)	(219,094)
w. Net Add/Reduction - Util Operating Reserve	-	-	1,378,744	1,109,513	42,970	41,992	40,789	43,626	37,904	33,509
x. Net Add/Reduction - Util Retirement/Reclamation Reserve	-	-	-	-	-	-	-	-	-	-
y. Net Add/Reduction - Util Rate Stabilization Reserve	-	-	-	622,696	2,366,365	(153,698)	(89,857)	1,343,216	3,950,716	2,642,872
z. Net Add/Reduction - Util Contingency Reserve	-	-	-	-	-	-	-	-	-	615,878
w-z Move unrestricted cash to restricted cash to fund Other Utilities Reserves	A -	-	(1,378,744)	(1,732,209)	(2,409,335)	111,706	49,067	(1,386,842)	(3,988,620)	(3,292,260)
Total Projected Cash Use (excluding transfers from Unrestricted to Restricted - items 3a. and w through x.)	(14,926,336)	(20,782,400)	(25,559,286)	(19,086,828)	(18,970,669)	(19,743,222)	(20,238,943)	(19,582,622)	(23,269,877)	(17,001,970)
Net Cash Budgeted Sources and Uses (Operating Profit)	\$ 609,786	\$ 2,297,345	\$ 2,786,954	\$ 4,262,083	\$ 3,355,615	\$ 863,086	\$ 962,263	\$ 2,446,592	\$ 4,998,077	\$ 5,087,659
6a. Budgeted Profit Transfer (5% ED & GA Retail Sales excluding County/Schools)	(654,033)	(704,366)	(752,631)	(790,564)	(830,408)	(863,873)	(889,962)	(926,008)	(935,176)	(923,141)
6b. All Remaining Operating Profits (after initial 5% profit transfer) prior to funding reserve targets. See unfunded reserves balances below.	\$ (44,248)	\$ 1,592,980	\$ 2,034,323	\$ 3,471,520	\$ 2,525,207	\$ (787)	\$ 72,301	\$ 1,520,584	\$ 4,062,901	\$ 4,164,518
Projected Ending Cash - Unrestricted	\$ (2,079,215)	\$ (652,993)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 653,247
Projected Ending Cash - Restricted	\$ 1,325,949	\$ 1,492,706	\$ 2,874,035	\$ 6,345,555	\$ 8,870,763	\$ 8,869,975	\$ 8,942,276	\$ 10,462,860	\$ 14,525,760	\$ 18,037,032
Total Projected Ending Cash	\$ (753,267)	\$ 839,713	\$ 2,874,035	\$ 6,345,555	\$ 8,870,763	\$ 8,869,975	\$ 8,942,276	\$ 10,462,860	\$ 14,525,760	\$ 18,690,279
Funded Reserve Balances	\$ 1,338,576	\$ 1,492,706	\$ 2,874,035	\$ 6,345,555	\$ 8,870,763	\$ 8,869,975	\$ 8,942,276	\$ 10,462,860	\$ 14,525,760	\$ 18,037,032
Reserve Targets	\$ 13,581,317	\$ 13,941,989	\$ 14,038,687	\$ 13,486,816	\$ 13,788,304	\$ 14,967,589	\$ 16,934,142	\$ 16,969,562	\$ 16,804,963	\$ 18,008,209
Total Reserves Over<Under> Target	\$ (12,242,741)	\$ (12,449,284)	\$ (11,164,651)	\$ (7,141,261)	\$ (4,917,541)	\$ (6,097,614)	\$ (7,991,866)	\$ (6,506,702)	\$ (2,279,202)	\$ 28,823

A - Transfer and recording in the G/L moving cash from unrestricted to restricted for established Reserves

B - One year (FY20 budget) of capital plan expense located in the 10-Year Capital Plan Schedule

Schedule of Funds
FY2022 to FY2032

ELECTRIC DISTRIBUTION

	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Operations Reserve (180 days of bud operations and maint, excluding commodities)											
Beginning Balance	-	-	-	-	1,378,744	2,488,257	2,531,226	2,573,218	2,614,008	2,657,633	2,695,537
Budgeted Additions to the Reserve	-	-	-	1,378,744	1,109,513	42,970	41,992	40,789	43,626	37,904	33,509
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	1,378,744	2,488,257	2,531,226	2,573,218	2,614,008	2,657,633	2,695,537	2,729,047
TARGET	3,346,672	2,559,348	2,474,892	2,446,230	2,488,257	2,531,226	2,573,218	2,614,008	2,657,633	2,695,537	2,729,047
Debt Service Reserve (as required by loan docs)											
Beginning Balance	1,349,044	1,338,576	1,338,576	1,492,706	1,495,292	1,508,834	1,507,472	1,506,922	1,505,290	1,504,501	1,463,469
Budgeted Additions to the Reserve	1,133,909	982,377	2,637,584	2,668,623	2,831,118	2,814,777	2,808,179	2,788,592	2,779,121	2,286,743	2,285,760
Budgeted Reductions to the Reserve	(1,144,377)	(995,004)	(2,483,454)	(2,666,037)	(2,817,576)	(2,816,139)	(2,808,729)	(2,790,224)	(2,779,910)	(2,327,775)	(2,285,842)
Budgeted Balance	1,338,576	1,325,949	1,492,706	1,495,292	1,508,834	1,507,472	1,506,922	1,505,290	1,504,501	1,463,469	1,463,387
TARGET	1,338,576	1,325,949	1,463,883	1,466,469	1,480,011	1,478,649	1,478,099	1,476,467	1,475,677	1,434,646	1,434,564
Retirement/Reclamation Reserve (per agreements)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures Reserve											
Beginning Balance	-	-	-	-	-	1,725,769	1,843,003	1,954,472	2,077,472	2,212,003	2,327,316
Budgeted Additions to the Reserve	-	-	-	-	1,725,769	117,234	111,469	123,000	134,531	115,313	219,094
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	1,725,769	1,843,003	1,954,472	2,077,472	2,212,003	2,327,316	2,546,410
TARGET (annual deprec + 2.5%)	1,267,081	1,202,161	1,283,738	1,447,097	1,725,769	1,843,003	1,954,472	2,077,472	2,212,003	2,327,316	2,546,410
Rate Stabilization Reserve (where pass-through rate for commodities not in place)											
Beginning Balance	-	-	-	-	-	622,696	2,989,061	2,835,363	2,745,506	4,088,722	8,039,439
Budgeted Additions to the Reserve	-	-	-	-	622,696	2,366,365	-	-	1,343,216	3,950,716	2,642,872
Budgeted Reductions to the Reserve	-	-	-	-	-	-	(153,698)	(89,857)	-	-	-
Budgeted Balance	-	-	-	-	622,696	2,989,061	2,835,363	2,745,506	4,088,722	8,039,439	10,682,311
TARGET	7,098,305	8,217,306	8,172,755	8,123,968	7,229,534	7,363,730	8,381,529	10,177,221	10,026,438	9,740,687	10,682,311

Schedule of Funds
FY2022 to FY2032

ELECTRIC DISTRIBUTION	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Contingency Reserve (single largest equipment with potential for failure DPU Asset Team)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	615,878
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	615,878
TARGET	530,682	538,642	546,722	554,922	563,246	571,695	580,270	588,974	597,809	606,776	615,878
Bond Proceeds Restricted (no outstanding bond proceeds at this time)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
TOTAL RESERVES/RESTRICTED CASH											
Beginning Balance	1,349,044	1,338,576	1,338,576	1,492,706	2,874,035	6,345,555	8,870,763	8,869,975	8,942,276	10,462,860	14,525,760
Budgeted Additions to the Reserve	1,133,909	982,377	2,637,584	4,047,367	6,289,096	5,341,347	2,961,639	2,952,381	4,300,493	6,390,675	5,797,114
Budgeted Reductions to the Reserve	(1,144,377)	(995,004)	(2,483,454)	(2,666,037)	(2,817,576)	(2,816,139)	(2,962,427)	(2,880,081)	(2,779,910)	(2,327,775)	(2,285,842)
Budgeted Balance	1,338,576	1,325,949	1,492,706	2,874,035	6,345,555	8,870,763	8,869,975	8,942,276	10,462,860	14,525,760	18,037,032
TARGET	13,581,317	13,843,406	13,941,989	14,038,687	13,486,816	13,788,304	14,967,589	16,934,142	16,969,562	16,804,963	18,008,209
Total Reserves Over<Under> Target	(12,242,741)	(12,517,457)	(12,449,284)	(11,164,651)	(7,141,261)	(4,917,541)	(6,097,614)	(7,991,866)	(6,506,702)	(2,279,202)	28,823

**Capital Plan with Funding Sources Schedule
FY2023 to FY2032**

See 10-Year Capital Plan for Detailed Listing of Projects

ELECTRIC DISTRIBUTION	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Capital Projects Funded through Reserve or Unrestricted Cash	\$ 650,000	\$ -	\$ 375,000	\$ -	\$ 1,800,000	\$ 4,800,000	\$ 5,250,000	\$ 4,500,000	\$ 2,550,000	\$ 2,200,000
Capital Projects Funded through Debt	-	6,375,000	10,500,000	4,575,000	2,550,000	-	-	-	6,000,000	-
Capital Projects Funded through Grants	-	-	-	-	-	-	-	-	-	-
Capital Projects Funded through Other Sources	-	-	-	-	-	-	-	-	-	-
Total Capital Projects	\$ 650,000	\$ 6,375,000	\$ 10,875,000	\$ 4,575,000	\$ 4,350,000	\$ 4,800,000	\$ 5,250,000	\$ 4,500,000	\$ 8,550,000	\$ 2,200,000

**Cash Projection by Priority of Budgeted Expenditures Schedule
FY2023 to FY2032**

GAS DISTRIBUTION	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Beginning Cash - Unrestricted per FY21 ACFR	\$ 1,492,789									
Beginning Cash - Restricted Including Reserves per FY21 ACFR	\$ 2,032,932									
Total Cash	\$ 3,525,721									
Beginning Cash - Unrestricted per Current FY Projected	\$ 1,077,622	\$ 162,948	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Beginning Cash - Restricted Including Reserves per Current FY Projected	\$ 2,032,932	\$ 2,272,446	\$ 2,124,361	\$ 2,004,501	\$ 1,961,712	\$ 2,041,204	\$ 2,130,443	\$ 2,251,722	\$ 2,370,104	\$ 2,494,757
Total Cash Current FY Projected	\$ 3,110,554	\$ 2,435,395	\$ 2,124,361	\$ 2,004,501	\$ 1,961,712	\$ 2,041,204	\$ 2,130,443	\$ 2,251,722	\$ 2,370,104	\$ 2,494,757
Total Budgeted Revenue (including transfers-in/grants/loans)	7,558,252	6,868,814	7,079,361	6,866,516	6,960,587	7,114,047	7,269,743	7,405,816	7,574,026	7,759,073
Intrafund Charges/Commodities	(4,310,400)	(3,556,800)	(3,600,000)	(3,203,200)	(3,203,200)	(3,296,800)	(3,369,600)	(3,458,000)	(3,567,200)	(3,692,000)
<i>Budgeted Expenditures by Priority per Charter or Utilities Financial Policies</i>										
1. Current Operations Budget (Including Normal Maintenance) Expense	(2,692,850)	(2,742,548)	(2,783,686)	(2,825,442)	(2,867,823)	(2,910,840)	(2,954,503)	(2,998,821)	(3,043,803)	(3,089,460)
2. Bond & Other Debt Service Expense	-	-	-	-	-	-	-	-	-	-
3b. Capital Plan for FY2023 - Replacement Expense	B (460,000)	(150,000)	(75,000)	(150,000)	(75,000)	(75,000)	(75,000)	(75,000)	(75,000)	(75,000)
4a. Franchise Fee (paid to the General Fund) Expense	(148,114)	(136,221)	(140,519)	(136,292)	(138,179)	(141,218)	(144,298)	(146,977)	(150,298)	(153,955)
4b. In Lieu Taxes (paid to the General Fund) Expense	(276,202)	(276,202)	(271,904)	(276,132)	(274,244)	(271,205)	(268,125)	(265,447)	(262,125)	(258,468)
5a. Capital Additions and Improvements for FY2023 - Capital Expense										
Cash Projection for Other Utilities Reserves per Schedule of Funds										
3a. Replacement Reserve (Capital Expenditures Reserve) Net Addition/Reduction	A -	-	-	41,414	-	64,732	1,922	1,922	1,922	1,922
3a. Move unrestricted cash to restricted cash to fund Replacement Reserve	-	-	-	(41,414)	-	(64,732)	(1,922)	(1,922)	(1,922)	(1,922)
w. Net Add/Reduction - Util Operating Reserve	-	-	-	-	79,492	23,557	21,831	22,159	22,491	22,829
x. Net Add/Reduction - Util Retirement/Reclamation Reserve	-	-	-	-	-	-	-	-	-	-
y. Net Add/Reduction - Util Rate Stabilization Reserve	-	-	-	-	-	-	-	-	-	-
z. Net Add/Reduction - Util Contingency Reserve	-	(148,085)	(119,860)	(1,376)	-	950	97,526	94,301	100,240	14,922
w-z Move unrestricted cash to restricted cash to fund Other Utilities Reserves	A -	148,085	119,860	1,376	(79,492)	(24,507)	(119,358)	(116,460)	(122,731)	(37,751)
Total Projected Cash Use (excluding transfers from Unrestricted to Restricted - items 3a. and w through x.)	(7,887,566)	(6,861,771)	(6,871,109)	(6,591,065)	(6,558,446)	(6,695,064)	(6,811,526)	(6,944,244)	(7,098,426)	(7,268,883)
Net Cash Budgeted Sources and Uses (Operating Profit)	\$ (329,314)	\$ 7,043	\$ 208,252	\$ 275,451	\$ 402,141	\$ 418,983	\$ 458,216	\$ 461,572	\$ 475,599	\$ 490,189
6a. Budgeted Profit Transfer (5% ED & GA Retail Sales excluding County/Schools)	(345,845)	(318,076)	(328,112)	(318,241)	(322,649)	(329,744)	(336,937)	(343,190)	(350,947)	(359,484)
6b. All Remaining Operating Profits (after initial 5% profit transfer) prior to funding reserve targets. See unfunded reserves balances below.	\$ (675,159)	\$ (311,033)	\$ (119,860)	\$ (42,790)	\$ 79,492	\$ 89,239	\$ 121,280	\$ 118,381	\$ 124,653	\$ 130,705
Projected Ending Cash - Unrestricted	\$ 162,948	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 91,032
Projected Ending Cash - Restricted	\$ 2,272,446	\$ 2,124,361	\$ 2,004,501	\$ 1,961,712	\$ 2,041,204	\$ 2,130,443	\$ 2,251,722	\$ 2,370,104	\$ 2,494,757	\$ 2,534,429
Total Projected Ending Cash	\$ 2,435,395	\$ 2,124,361	\$ 2,004,501	\$ 1,961,712	\$ 2,041,204	\$ 2,130,443	\$ 2,251,722	\$ 2,370,104	\$ 2,494,757	\$ 2,625,462
Funded Reserve Balances	\$ 2,032,932	\$ 2,124,361	\$ 2,004,501	\$ 1,961,712	\$ 2,041,204	\$ 2,130,443	\$ 2,251,722	\$ 2,370,104	\$ 2,494,757	\$ 2,534,429
Reserve Targets	\$ 2,032,931	\$ 2,307,176	\$ 2,335,690	\$ 2,362,651	\$ 2,391,910	\$ 2,419,628	\$ 2,447,733	\$ 2,476,231	\$ 2,505,128	\$ 2,534,429
Total Reserves Over<Under> Target	\$ 1	\$ (182,815)	\$ (331,188)	\$ (400,939)	\$ (350,706)	\$ (289,186)	\$ (196,011)	\$ (106,128)	\$ (10,371)	\$ -

A - Transfer and recording in the G/L moving cash from unrestricted to restricted for established Reserves

B - One year (FY20 budget) of capital plan expense located in the 10-Year Capital Plan Schedule

Schedule of Funds
FY2022 to FY2032

GAS DISTRIBUTION	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Operations Reserve (180 days of bud operations and maint, excluding commodities)											
Beginning Balance	1,341,644	1,341,644	1,558,583	1,558,583	1,558,583	1,558,583	1,638,075	1,661,632	1,683,463	1,705,622	1,728,113
Budgeted Additions to the Reserve	-	216,939				79,492	23,557	21,831	22,159	22,491	22,829
Budgeted Reductions to the Reserve											
Budgeted Balance	1,341,644	1,558,583	1,558,583	1,558,583	1,558,583	1,638,075	1,661,632	1,683,463	1,705,622	1,728,113	1,750,942
TARGET	1,341,644	1,558,583	1,577,486	1,598,055	1,618,932	1,640,123	1,661,632	1,683,463	1,705,622	1,728,113	1,750,942
Debt Service Reserve (as required by loan docs)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve											
Budgeted Reductions to the Reserve											
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET											
Retirement/Reclamation Reserve (per agreements)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve											
Budgeted Reductions to the Reserve											
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET											
Capital Expenditures Reserve											
Beginning Balance	425,947	425,947	444,542	444,542	444,542	403,129	403,129	467,861	469,783	471,705	473,627
Budgeted Additions to the Reserve		18,595					64,732	1,922	1,922	1,922	1,922
Budgeted Reductions to the Reserve						(41,414)					
Budgeted Balance	425,947	444,542	444,542	444,542	403,129	403,129	467,861	469,783	471,705	473,627	475,549
TARGET (annual deprec + 2.5%)	425,947	444,542	456,330	460,174	462,096	465,939	467,861	469,783	471,705	473,627	475,549
Rate Stabilization Reserve (where pass-through rate for commodities not in place)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve											
Budgeted Reductions to the Reserve											
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET											

Schedule of Funds
FY2022 to FY2032

GAS DISTRIBUTION	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Contingency Reserve (single largest equipment with potential for failure DPU Asset Team)											
Beginning Balance	265,341	265,341	269,321	121,236	1,376	(0)	(0)	950	98,476	192,777	293,017
Budgeted Additions to the Reserve		3,980					950	97,526	94,301	100,240	14,922
Budgeted Reductions to the Reserve			(148,085)	(119,860)	(1,376)						
Budgeted Balance	265,341	269,321	121,236	1,376	(0)	(0)	950	98,476	192,777	293,017	307,939
TARGET	265,341	269,321	273,361	277,461	281,623	285,847	290,135	294,487	298,905	303,388	307,939
Bond Proceeds Restricted (no outstanding bond proceeds at this time)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
TOTAL RESERVES/RESTRICTED CASH											
Beginning Balance	2,032,932	2,032,932	2,272,446	2,124,361	2,004,501	1,961,712	2,041,204	2,130,443	2,251,722	2,370,104	2,494,757
Budgeted Additions to the Reserve	-	239,514	-	-	-	79,492	89,239	121,280	118,381	124,653	39,673
Budgeted Reductions to the Reserve	-	-	(148,085)	(119,860)	(42,790)	-	-	-	-	-	-
Budgeted Balance	2,032,932	2,272,446	2,124,361	2,004,501	1,961,712	2,041,204	2,130,443	2,251,722	2,370,104	2,494,757	2,534,429
TARGET	2,032,931	2,272,446	2,307,176	2,335,690	2,362,651	2,391,910	2,419,628	2,447,733	2,476,231	2,505,128	2,534,429
Total Reserves Over<Under> Target	1	-	(182,815)	(331,188)	(400,939)	(350,706)	(289,186)	(196,011)	(106,128)	(10,371)	-

**Capital Plan with Funding Sources Schedule
FY2023 to FY2032**

See 10-Year Capital Plan for Detailed Listing of Projects

GAS DISTRIBUTION	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Capital Projects Funded through Reserve or Unrestricted Cash	375,000	150,000	75,000	150,000	75,000	75,000	75,000	75,000	75,000	75,000
Capital Projects Funded through Debt	-	-	-	-	-	-	-	-	-	-
Capital Projects Funded through Grants	-	-	-	-	-	-	-	-	-	-
Capital Projects Funded through Other Sources	85,000	-	-	-	-	-	-	-	-	-
Total Capital Projects	460,000	150,000	75,000	150,000	75,000	75,000	75,000	75,000	75,000	75,000

**Cash Projection by Priority of Budgeted Expenditures Schedule
FY2023 to FY2032**

WATER PRODUCTION

	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Beginning Cash - Unrestricted per FY21 ACFR	\$ 9,433,091									
Beginning Cash - Restricted Including Reserves per FY21 ACFR	\$ 2,083,888									
Total Cash	\$ 11,516,979									
Beginning Cash - Unrestricted per Current FY Projected	\$ 3,323,596	\$ -	\$ -	\$ -	\$ -	\$ (0)	\$ -	\$ -	\$ -	\$ 179,547
Beginning Cash - Restricted Including Reserves per Current FY Projected	\$ 2,097,635	\$ 2,751,557	\$ 2,998,574	\$ 3,166,658	\$ 3,194,162	\$ 3,676,057	\$ 4,312,765	\$ 4,783,263	\$ 5,701,346	\$ 6,358,527
Total Cash Current FY Projected	\$ 5,421,231	\$ 2,751,557	\$ 2,998,574	\$ 3,166,658	\$ 3,194,162	\$ 3,676,057	\$ 4,312,765	\$ 4,783,263	\$ 5,701,346	\$ 6,538,074
Total Budgeted Revenue (including transfers-in/grants/loans)	9,676,165	10,770,199	5,995,750	5,286,714	4,927,622	8,515,962	6,446,978	7,780,134	10,371,252	6,610,910
Intrafund Charges/Commodities	3,363,500	3,534,000	3,712,250	3,898,250	4,092,000	4,293,500	4,510,500	4,735,250	4,874,750	4,975,500
<i>Budgeted Expenditures by Priority per Charter or Utilities Financial Policies</i>										
1. Current Operations Budget (Including Normal Maintenance) Expense	(4,314,206)	(4,269,370)	(4,333,411)	(4,398,412)	(4,464,388)	(4,531,354)	(4,599,324)	(4,668,314)	(4,738,339)	(4,809,414)
2. Bond & Other Debt Service Expense	(654,788)	(687,812)	(1,006,506)	(1,084,048)	(1,253,339)	(1,441,399)	(1,787,656)	(1,928,988)	(2,170,935)	(2,695,563)
3b. Capital Plan for FY2023 - Replacement Expense	B (3,222,980)	(600,000)	(480,000)	(675,000)	(288,000)	(200,000)	(300,000)	-	-	(134,000)
4a. Franchise Fee (paid to the General Fund) Expense	-	-	-	-	-	-	-	-	-	-
4b. In Lieu Taxes (paid to the General Fund) Expense	-	-	-	-	-	-	-	-	-	-
5a. Capital Additions and Improvements for FY2023 - Capital Expense	(7,517,365)	(8,500,000)	(3,720,000)	(3,000,000)	(2,532,000)	(6,000,000)	(3,800,000)	(5,000,000)	(7,500,000)	(3,670,000)
Cash Projection for Other Utilities Reserves per Schedule of Funds										
3a. Replacement Reserve (Capital Expenditures Reserve) Net Addition/Reduction	A 358,997	321,248	54,940	-	423,341	587,554	407,658	838,771	128,125	192,188
3a. Move unrestricted cash to restricted cash to fund Replacement Reserve	(358,997)	(321,248)	(54,940)	-	(423,341)	(587,554)	(407,658)	(838,771)	(128,125)	(192,188)
w. Net Add/Reduction - Util Operating Reserve	240,360	(22,418)	32,020	27,504	37,984	33,483	33,985	34,495	35,012	35,538
x. Net Add/Reduction - Util Retirement/Reclamation Reserve	-	-	-	-	-	-	-	-	-	-
y. Net Add/Reduction - Util Rate Stabilization Reserve	-	-	-	-	-	-	-	-	-	-
z. Net Add/Reduction - Util Contingency Reserve	-	-	-	-	-	-	-	33,040	473,882	7,604
w-z Move unrestricted cash to restricted cash to fund Other Utilities Reserves	A (240,360)	22,418	(32,020)	(27,504)	(37,984)	(33,483)	(33,985)	(67,535)	(508,894)	(43,141)
Total Projected Cash Use (excluding transfers from Unrestricted to Restricted - items 3a. and w through x.)	(15,709,339)	(14,057,182)	(9,539,916)	(9,157,460)	(8,537,727)	(12,172,753)	(10,486,980)	(11,597,301)	(14,409,274)	(11,308,977)
Net Cash Budgeted Sources and Uses (Operating Profit)	\$ (2,669,674)	\$ 247,016	\$ 168,084	\$ 27,504	\$ 481,894	\$ 636,709	\$ 470,498	\$ 918,083	\$ 836,728	\$ 277,433
6a. Budgeted Profit Transfer (5% ED & GA Retail Sales excluding County/Schools)	-	-	-	-	-	-	-	-	-	-
6b. All Remaining Operating Profits (after intial 5% profit transfer) prior to funding reserve targets. See unfunded reserves balances below.	\$ (2,669,674)	\$ 247,016	\$ 168,084	\$ 27,504	\$ 481,894	\$ 636,709	\$ 470,498	\$ 918,083	\$ 836,728	\$ 277,433
Projected Ending Cash - Unrestricted	\$ -	\$ -	\$ -	\$ -	\$ (0)	\$ -	\$ -	\$ -	\$ 179,547	\$ 177,931
Projected Ending Cash - Restricted	\$ 2,751,557	\$ 2,998,574	\$ 3,166,658	\$ 3,194,162	\$ 3,676,057	\$ 4,312,765	\$ 4,783,263	\$ 5,701,346	\$ 6,358,527	\$ 6,637,575
Total Projected Ending Cash	\$ 2,751,557	\$ 2,998,574	\$ 3,166,658	\$ 3,194,162	\$ 3,676,057	\$ 4,312,765	\$ 4,783,263	\$ 5,701,346	\$ 6,538,074	\$ 6,815,507
Funded Reserve Balances	\$ 2,097,635	\$ 2,998,574	\$ 3,166,658	\$ 3,194,162	\$ 3,676,057	\$ 4,312,765	\$ 4,783,263	\$ 5,701,346	\$ 6,358,527	\$ 6,637,575
Reserve Targets	\$ 4,824,214	\$ 5,050,969	\$ 5,349,586	\$ 5,503,127	\$ 5,651,453	\$ 5,780,034	\$ 6,009,021	\$ 6,167,737	\$ 6,358,528	\$ 6,637,576
Total Reserves Over<Under> Target	\$ (2,726,579)	\$ (2,052,395)	\$ (2,182,928)	\$ (2,308,965)	\$ (1,975,397)	\$ (1,467,269)	\$ (1,225,758)	\$ (466,391)	\$ (0)	\$ (0)

A - Transfer and recording in the G/L moving cash from unrestricted to restricted for established Reserves

B - One year (FY20 budget) of capital plan expense located in the 10-Year Capital Plan Schedule

**Schedule of Funds
FY2022 to FY2032**

WATER PRODUCTION	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Operations Reserve (180 days of bud operations and maint, excluding commodities)											
Beginning Balance	1,916,743	1,916,743	2,157,103	2,134,685	2,166,705	2,194,210	2,232,194	2,265,677	2,299,662	2,334,157	2,369,169
Budgeted Additions to the Reserve	-	240,360		32,020	27,504	37,984	33,483	33,985	34,495	35,012	35,538
Budgeted Reductions to the Reserve		-	(22,418)					-	-	-	-
Budgeted Balance	1,916,743	2,157,103	2,134,685	2,166,705	2,194,210	2,232,194	2,265,677	2,299,662	2,334,157	2,369,169	2,404,707
TARGET	1,957,065	2,157,103	2,134,685	2,166,705	2,199,206	2,232,194	2,265,677	2,299,662	2,334,157	2,369,169	2,404,707
Debt Service Reserve (as required by loan docs)											
Beginning Balance	167,145	180,892	180,892	183,644	264,768	264,768	285,337	301,009	329,864	341,641	361,803
Budgeted Additions to the Reserve	334,388	709,354	690,564	1,087,630	1,084,048	1,273,908	1,457,071	1,816,511	1,940,765	2,191,097	2,739,282
Budgeted Reductions to the Reserve	(320,641)	(654,788)	(687,812)	(1,006,506)	(1,084,048)	(1,253,339)	(1,441,399)	(1,787,656)	(1,928,988)	(2,170,935)	(2,695,563)
Budgeted Balance	180,892	235,458	183,644	264,768	264,768	285,337	301,009	329,864	341,641	361,803	405,522
TARGET	207,612	235,458	238,210	264,767	271,229	285,337	301,009	329,863	341,641	361,803	405,522
Retirement/Reclamation Reserve (per agreements)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures Reserve											
Beginning Balance	-	-	358,997	680,245	735,185	735,185	1,158,526	1,746,080	2,153,738	2,992,509	3,120,634
Budgeted Additions to the Reserve	-	358,997	321,248	54,940		423,341	587,554	407,658	838,771	128,125	192,188
Budgeted Reductions to the Reserve	-	-									
Budgeted Balance	-	358,997	680,245	735,185	735,185	1,158,526	1,746,080	2,153,738	2,992,509	3,120,634	3,312,821
TARGET (annual deprec + 2.5%)	1,863,514	1,946,103	2,221,324	2,454,512	2,562,137	2,656,309	2,728,571	2,887,446	2,992,509	3,120,634	3,312,821
Rate Stabilization Reserve (where pass-through rate for commodities not in place)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-

Schedule of Funds
FY2022 to FY2032

WATER PRODUCTION	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Contingency Reserve (single largest equipment with potential for failure DPU Asset Team)											
Beginning Balance	-	-	-	-	-	-	-	-	-	33,040	506,922
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	33,040	473,882	7,604
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	33,040	506,922	514,525
TARGET	796,023	450,000	456,750	463,601	470,555	477,614	484,778	492,049	499,430	506,922	514,525
Bond Proceeds Restricted (no outstanding bond proceeds at this time)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
TOTAL RESERVES/RESTRICTED CASH											
Beginning Balance	2,083,888	2,097,635	2,696,991	2,998,574	3,166,658	3,194,162	3,676,057	4,312,765	4,783,263	5,701,346	6,358,527
Budgeted Additions to the Reserve	334,388	1,308,711	1,011,813	1,174,590	1,111,553	1,735,234	2,078,108	2,258,154	2,847,070	2,828,116	2,974,611
Budgeted Reductions to the Reserve	(320,641)	(654,788)	(710,230)	(1,006,506)	(1,084,048)	(1,253,339)	(1,441,399)	(1,787,656)	(1,928,988)	(2,170,935)	(2,695,563)
Budgeted Balance	2,097,635	2,751,557	2,998,574	3,166,658	3,194,162	3,676,057	4,312,765	4,783,263	5,701,346	6,358,527	6,637,575
TARGET	4,824,214	4,788,663	5,050,969	5,349,586	5,503,127	5,651,453	5,780,034	6,009,021	6,167,737	6,358,528	6,637,576
Total Reserves Over<Under> Target	(2,726,579)	(2,037,106)	(2,052,395)	(2,182,928)	(2,308,965)	(1,975,397)	(1,467,269)	(1,225,758)	(466,391)	(0)	(0)

**Capital Plan with Funding Sources Schedule
FY2023 to FY2032**

See 10-Year Capital Plan for Detailed Listing of Projects

WATER PRODUCTION	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Capital Projects Funded through Reserve or Unrestricted Cash	3,222,980	600,000	480,000	675,000	288,000	200,000	300,000	-	-	134,000
Capital Projects Funded through Debt	6,088,705	7,100,000	3,000,000	2,100,000	1,812,000	5,400,000	3,120,000	5,000,000	7,500,000	3,268,000
Capital Projects Funded through Grants	1,428,660	1,400,000	720,000	900,000	720,000	600,000	680,000			402,000
Capital Projects Funded through Other Sources										
Total Capital Projects	10,740,345	9,100,000	4,200,000	3,675,000	2,820,000	6,200,000	4,100,000	5,000,000	7,500,000	3,804,000

**Cash Projection by Priority of Budgeted Expenditures Schedule
FY2023 to FY2032**

WATER DISTRIBUTION	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Beginning Cash - Unrestricted per FY21 ACFR	\$ (1,652,714)									
Beginning Cash - Restricted Including Reserves per FY21 ACFR	\$ -									
Total Cash	\$ (1,652,714)									
Beginning Cash - Unrestricted per Current FY Projected	\$ (4,273,711)	\$ (4,093,605)	\$ (3,874,643)	\$ (3,550,940)	\$ (3,189,668)	\$ (2,632,196)	\$ (1,944,052)	\$ (1,122,634)	\$ (156,659)	\$ 69,750
Beginning Cash - Restricted Including Reserves per Current FY Projected	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 989,379
Total Cash Current FY Projected	\$ (4,273,711)	\$ (4,093,605)	\$ (3,874,643)	\$ (3,550,940)	\$ (3,189,668)	\$ (2,632,196)	\$ (1,944,052)	\$ (1,122,634)	\$ (156,659)	\$ 1,059,129
Total Budgeted Revenue (including transfers-in/grants/loans)	7,284,336	7,380,462	7,683,197	8,373,726	8,431,264	7,906,662	11,800,812	8,714,652	9,149,166	9,621,274
Intrafund Charges/Commodities	(3,363,500)	(3,534,000)	(3,712,250)	(3,898,250)	(4,092,000)	(4,293,500)	(4,510,500)	(4,735,250)	(4,874,750)	(4,975,500)
Budgeted Expenditures by Priority per Charter or Utilities Financial Policies										
1. Current Operations Budget (Including Normal Maintenance) Expense	(2,656,361)	(2,755,906)	(2,797,245)	(2,839,203)	(2,881,791)	(2,925,018)	(2,968,893)	(3,013,427)	(3,058,628)	(3,104,508)
2. Bond & Other Debt Service Expense	-	-	-	-	-	-	-	-	-	-
3b. Capital Plan for FY2023 - Replacement Expense	B (1,084,369)	(871,594)	(850,000)	(1,275,000)	(900,000)	-	(3,500,000)	-	-	-
4a. Franchise Fee (paid to the General Fund) Expense	-	-	-	-	-	-	-	-	-	-
4b. In Lieu Taxes (paid to the General Fund) Expense	-	-	-	-	-	-	-	-	-	-
5a. Capital Additions and Improvements for FY2023 - Capital Expense	-	-	-	-	-	-	-	-	-	-
Cash Projection for Other Utilities Reserves per Schedule of Funds										
3a. Replacement Reserve (Capital Expenditures Reserve) Net Addition/Reduction	A -	-	-	-	-	-	-	-	-	-
3a. Move unrestricted cash to restricted cash to fund Replacement Reserve	-	-	-	-	-	-	-	-	-	-
w. Net Add/Reduction - Util Operating Reserve	-	-	-	-	-	-	-	-	-	989,379
x. Net Add/Reduction - Util Retirement/Reclamation Reserve	-	-	-	-	-	-	-	-	-	-
y. Net Add/Reduction - Util Rate Stabilization Reserve	-	-	-	-	-	-	-	-	-	-
z. Net Add/Reduction - Util Contingency Reserve	-	-	-	-	-	-	-	-	-	-
w-z Move unrestricted cash to restricted cash to fund Other Utilities Reserves	A -	-	-	-	-	-	-	-	-	(989,379)
Total Projected Cash Use (excluding transfers from Unrestricted to Restricted - items 3a. and w through x.)	(7,104,230)	(7,161,500)	(7,359,495)	(8,012,453)	(7,873,791)	(7,218,518)	(10,979,393)	(7,748,677)	(7,933,378)	(8,080,008)
Net Cash Budgeted Sources and Uses (Operating Profit)	\$ 180,106	\$ 218,962	\$ 323,702	\$ 361,272	\$ 557,472	\$ 688,143	\$ 821,418	\$ 965,975	\$ 1,215,788	\$ 1,541,267
6a. Budgeted Profit Transfer (5% ED & GA Retail Sales excluding County/Schools)	-	-	-	-	-	-	-	-	-	-
6b. All Remaining Operating Profits (after initial 5% profit transfer) prior to funding reserve targets. See unfunded reserves balances below.	\$ 180,106	\$ 218,962	\$ 323,702	\$ 361,272	\$ 557,472	\$ 688,143	\$ 821,418	\$ 965,975	\$ 1,215,788	\$ 1,541,267
Projected Ending Cash - Unrestricted	\$ (4,093,605)	\$ (3,874,643)	\$ (3,550,940)	\$ (3,189,668)	\$ (2,632,196)	\$ (1,944,052)	\$ (1,122,634)	\$ (156,659)	\$ 69,750	\$ 264,546
Projected Ending Cash - Restricted	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 989,379	\$ 2,335,850
Total Projected Ending Cash	\$ (4,093,605)	\$ (3,874,643)	\$ (3,550,940)	\$ (3,189,668)	\$ (2,632,196)	\$ (1,944,052)	\$ (1,122,634)	\$ (156,659)	\$ 1,059,129	\$ 2,600,396
Funded Reserve Balances	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 989,379
Reserve Targets	\$ 1,795,825	\$ 2,362,886	\$ 2,441,743	\$ 2,491,045	\$ 2,556,411	\$ 2,614,548	\$ 2,648,367	\$ 2,767,263	\$ 2,796,911	\$ 2,827,003
Total Reserves Over<Under> Target	\$ (1,795,825)	\$ (2,362,886)	\$ (2,441,743)	\$ (2,491,045)	\$ (2,556,411)	\$ (2,614,548)	\$ (2,648,367)	\$ (2,767,263)	\$ (2,796,911)	\$ (1,837,624)

A - Transfer and recording in the G/L moving cash from unrestricted to restricted for established Reserves
B - One year (FY20 budget) of capital plan expense located in the 10-Year Capital Plan Schedule

Schedule of Funds
FY2022 to FY2032

WATER DISTRIBUTION	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Operations Reserve (180 days of bud operations and maint, excluding commodities)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	989,379
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	989,379	562,875
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	989,379	1,552,254
TARGET	1,238,906	1,328,181	1,377,953	1,398,622	1,419,602	1,440,896	1,462,509	1,484,447	1,506,713	1,529,314	1,552,254
Debt Service Reserve (as required by loan docs)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	16,524
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	16,524
TARGET	-	-	-	-	4,761	11,483	16,524	16,524	16,524	16,524	16,524
Retirement/Reclamation Reserve (per agreements)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures Reserve											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	767,072
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	767,072
TARGET (annual deprec + 2.5%)	556,919	584,706	607,040	628,822	661,493	684,556	684,556	774,243	774,243	774,243	774,243
Rate Stabilization Reserve (where pass-through rate for commodities not in place)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-

Schedule of Funds
FY2022 to FY2032

WATER DISTRIBUTION	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Contingency Reserve (single largest equipment with potential for failure DPU Asset Team)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	450,000	456,750	463,601	470,555	477,614	484,778	492,049	499,430	506,922	514,525
Bond Proceeds Restricted (no outstanding bond proceeds at this time)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
TOTAL RESERVES/RESTRICTED CASH											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	989,379
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	989,379	1,346,470
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	989,379	2,335,850
TARGET	1,795,825	2,362,886	2,441,743	2,491,045	2,556,411	2,614,548	2,648,367	2,767,263	2,796,911	2,827,003	2,857,547
Total Reserves Over<Under> Target	(1,795,825)	(2,362,886)	(2,441,743)	(2,491,045)	(2,556,411)	(2,614,548)	(2,648,367)	(2,767,263)	(2,796,911)	(1,837,624)	(521,697)

**Capital Plan with Funding Sources Schedule
FY2023 to FY2032**

See 10-Year Capital Plan for Detailed Listing of Projects

WATER DISTRIBUTION	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Capital Projects Funded through Reserve or Unrestricted Cash	-	-	-	75,000	-	-	-	-	-	-
Capital Projects Funded through Debt	-	-	850,000	1,200,000	900,000	-	3,500,000	-	-	-
Capital Projects Funded through Grants	-	-	-	-	-	-	-	-	-	-
Capital Projects Funded through Other Sources	1,084,369	871,594	-	-	-	-	-	-	-	-
Total Capital Projects	1,084,369	871,594	850,000	1,275,000	900,000	-	3,500,000	-	-	-

**Cash Projection by Priority of Budgeted Expenditures Schedule
FY2023 to FY2032**

WASTEWATER (COLLECTION & TREATMENT)	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Beginning Cash - Unrestricted per FY21 ACFR	\$ 2,923,778									
Beginning Cash - Restricted Including Reserves per FY21 ACFR	\$ 4,363,479									
Total Cash	\$ 7,287,257									
Beginning Cash - Unrestricted per Current FY Projected	\$ 1,433,231	\$ 675,277	\$ 88,354	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Beginning Cash - Restricted Including Reserves per Current FY Projected	\$ 4,363,479	\$ 5,081,335	\$ 4,790,386	\$ 4,669,787	\$ 4,484,641	\$ 3,787,622	\$ 4,397,535	\$ 3,712,310	\$ 3,808,013	\$ 4,283,539
Total Cash Current FY Projected	\$ 5,796,710	\$ 5,756,612	\$ 4,878,740	\$ 4,669,787	\$ 4,484,641	\$ 3,787,622	\$ 4,397,535	\$ 3,712,310	\$ 3,808,013	\$ 4,283,539
Total Budgeted Revenue (including transfers-in/grants/loans)	8,280,036	8,038,430	6,897,826	7,026,151	7,295,633	7,706,650	8,176,025	8,640,567	18,653,125	9,705,349
Intrafund Charges/Commodities	-	-	-	-	-	-	-	-	-	-
<i>Budgeted Expenditures by Priority per Charter or Utilities Financial Policies</i>										
1. Current Operations Budget (Including Normal Maintenance) Expense	(4,691,134)	(4,617,493)	(4,686,755)	(4,757,057)	(4,828,413)	(4,900,839)	(4,974,351)	(5,048,967)	(5,124,701)	(5,201,572)
2. Bond & Other Debt Service Expense	(698,314)	(2,108,809)	(2,015,024)	(1,921,240)	(1,921,239)	(1,917,898)	(1,917,898)	(1,917,898)	(1,917,898)	(1,917,898)
3b. Capital Plan for FY2023 - Replacement Expense	(2,930,686)	(2,190,000)	(405,000)	(533,000)	(1,243,000)	(278,000)	(1,969,000)	(1,578,000)	(11,135,000)	(1,700,000)
4a. Franchise Fee (paid to the General Fund) Expense										
4b. In Lieu Taxes (paid to the General Fund) Expense										
5a. Capital Additions and Improvements for FY2023 - Capital Expense	-	-	-	-	-	-	-	-	-	-
Cash Projection for Other Utilities Reserves per Schedule of Funds										
3a. Replacement Reserve (Capital Expenditures Reserve) Net Addition/Reduction	-	75,099	-	-	625,631	138,930	685,225	21,639	437,659	847,444
3a. Move unrestricted cash to restricted cash to fund Replacement Reserve	-	(75,099)	-	-	(625,631)	(138,930)	(685,225)	(21,639)	(437,659)	(847,444)
w. Net Add/Reduction - Util Operating Reserve	-	(36,821)	-	-	-	470,983	-	74,064	37,867	38,435
x. Net Add/Reduction - Util Retirement/Reclamation Reserve	-	-	-	-	-	-	-	-	-	-
y. Net Add/Reduction - Util Rate Stabilization Reserve	-	-	-	-	-	-	-	-	-	-
z. Net Add/Reduction - Util Contingency Reserve	-	5,656	(120,599)	(185,145)	(71,388)	-	-	-	-	-
w-z Move unrestricted cash to restricted cash to fund Other Utilities Reserves	-	31,165	120,599	185,145	71,388	(470,983)	-	(74,064)	(37,867)	(38,435)
Total Projected Cash Use (excluding transfers from Unrestricted to Restricted - items 3a. and w through x.)	(8,320,134)	(8,916,302)	(7,106,780)	(7,211,296)	(7,992,652)	(7,096,737)	(8,861,249)	(8,544,865)	(18,177,599)	(8,819,470)
Net Cash Budgeted Sources and Uses (Operating Profit)	\$ (40,098)	\$ (877,872)	\$ (208,953)	\$ (185,145)	\$ (697,019)	\$ 609,913	\$ (685,225)	\$ 95,703	\$ 475,526	\$ 885,879
6a. Budgeted Profit Transfer (5% ED & GA Retail Sales excluding County/Schools)	-	-	-	-	-	-	-	-	-	-
6b. All Remaining Operating Profits (after initial 5% profit transfer) prior to funding reserve targets. See unfunded reserves balances below.	\$ (40,098)	\$ (877,872)	\$ (208,953)	\$ (185,145)	\$ (697,019)	\$ 609,913	\$ (685,225)	\$ 95,703	\$ 475,526	\$ 885,879
Projected Ending Cash - Unrestricted	\$ 675,277	\$ 88,354	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Projected Ending Cash - Restricted	\$ 5,081,335	\$ 4,790,386	\$ 4,669,787	\$ 4,484,641	\$ 3,787,622	\$ 4,397,535	\$ 3,712,310	\$ 3,808,013	\$ 4,283,539	\$ 5,169,418
Total Projected Ending Cash	\$ 5,756,612	\$ 4,878,740	\$ 4,669,787	\$ 4,484,641	\$ 3,787,622	\$ 4,397,535	\$ 3,712,310	\$ 3,808,013	\$ 4,283,539	\$ 5,169,418
Funded Reserve Balances	\$ 4,363,479	\$ 4,790,386	\$ 4,669,787	\$ 4,484,641	\$ 3,787,622	\$ 4,397,535	\$ 3,712,310	\$ 3,808,013	\$ 4,283,539	\$ 5,169,418
Reserve Targets	\$ 4,363,479	\$ 5,125,268	\$ 5,221,759	\$ 5,273,114	\$ 5,328,364	\$ 5,402,432	\$ 5,452,405	\$ 5,546,353	\$ 5,630,933	\$ 5,961,074
Total Reserves Over<Under> Target	\$ 1	\$ (334,882)	\$ (551,972)	\$ (788,473)	\$ (1,540,742)	\$ (1,004,897)	\$ (1,740,095)	\$ (1,738,339)	\$ (1,347,394)	\$ (791,655)

A - Transfer and recording in the G/L moving cash from unrestricted to restricted for established Reserves

B - One year (FY20 budget) of capital plan expense located in the 10-Year Capital Plan Schedule

Schedule of Funds
FY2022 to FY2032

WASTEWATER (COLLECTION & TREATMENT)	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Operations Reserve (180 days of bud operations and maint, excluding commodities)											
Beginning Balance	2,016,257	2,016,257	2,016,257	1,979,436	1,979,436	1,979,436	1,979,436	2,450,419	2,450,419	2,524,483	2,562,351
Budgeted Additions to the Reserve	-	329,310					470,983		74,064	37,867	38,435
Budgeted Reductions to the Reserve			(36,821)								
Budgeted Balance	2,016,257	2,345,567	1,979,436	1,979,436	1,979,436	1,979,436	2,450,419	2,450,419	2,524,483	2,562,351	2,600,786
TARGET	2,016,257	2,345,567	2,308,747	2,343,378	2,378,528	2,414,206	2,450,419	2,487,176	2,524,483	2,562,351	2,600,786
Debt Service Reserve (as required by loan docs)											
Beginning Balance	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755
TARGET	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755	717,755
Retirement/Reclamation Reserve (per agreements)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures Reserve											
Beginning Balance	1,257,990	1,257,990	1,640,963	1,716,062	1,716,062	1,716,062	1,090,431	1,229,360	544,136	565,775	1,003,434
Budgeted Additions to the Reserve	-	382,973	75,099				138,930		21,639	437,659	847,444
Budgeted Reductions to the Reserve						(625,631)		(685,225)			
Budgeted Balance	1,257,990	1,640,963	1,716,062	1,716,062	1,716,062	1,090,431	1,229,360	544,136	565,775	1,003,434	1,850,877
TARGET (annual deprec + 2.5%)	1,257,990	1,640,963	1,716,062	1,772,181	1,782,559	1,796,217	1,828,069	1,835,193	1,885,648	1,926,084	2,211,419
Rate Stabilization Reserve (where pass-through rate for commodities not in place)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-

Schedule of Funds
FY2022 to FY2032

WASTEWATER (COLLECTION & TREATMENT)	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Contingency Reserve (single largest equipment with potential for failure DPU Asset Team)											
Beginning Balance	371,477	371,477	371,477	377,133	256,533	71,388	0	0	0	0	0
Budgeted Additions to the Reserve	-	5,572	5,656								
Budgeted Reductions to the Reserve				(120,599)	(185,145)	(71,388)					
Budgeted Balance	371,477	377,049	377,133	256,533	71,388	0	0	0	0	0	0
TARGET	371,477	377,049	382,705	388,445	394,272	400,186	406,189	412,282	418,466	424,743	431,114
Bond Proceeds Restricted (no outstanding bond proceeds at this time)											
Beginning Balance	-	-	-	-	-	-	-	-	-	-	-
Budgeted Additions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Reductions to the Reserve	-	-	-	-	-	-	-	-	-	-	-
Budgeted Balance	-	-	-	-	-	-	-	-	-	-	-
TARGET	-	-	-	-	-	-	-	-	-	-	-
TOTAL RESERVES/RESTRICTED CASH											
Beginning Balance	4,363,479	4,363,479	4,746,452	4,790,386	4,669,787	4,484,641	3,787,622	4,397,535	3,712,310	3,808,013	4,283,539
Budgeted Additions to the Reserve	-	717,855	80,755	-	-	-	609,913	-	95,703	475,526	885,879
Budgeted Reductions to the Reserve	-	-	(36,821)	(120,599)	(185,145)	(697,019)	-	(685,225)	-	-	-
Budgeted Balance	4,363,479	5,081,335	4,790,386	4,669,787	4,484,641	3,787,622	4,397,535	3,712,310	3,808,013	4,283,539	5,169,418
TARGET	4,363,479	5,081,334	5,125,268	5,221,759	5,273,114	5,328,364	5,402,432	5,452,405	5,546,353	5,630,933	5,961,074
Total Reserves Over<Under> Target	1	0	(334,882)	(551,972)	(788,473)	(1,540,742)	(1,004,897)	(1,740,095)	(1,738,339)	(1,347,394)	(791,655)

**Capital Plan with Funding Sources Schedule
FY2023 to FY2032**

See 10-Year Capital Plan for Detailed Listing of Projects

WASTEWATER (COLLECTION & TREATMENT)	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032
Capital Projects Funded through Reserve or Unrestricted Cash	1,312,000	940,000	405,000	533,000	1,243,000	278,000	1,969,000	1,578,000	1,635,000	1,700,000
Capital Projects Funded through Debt	1,200,000	-	-	-	-	-	-	-	9,500,000	-
Capital Projects Funded through Grants	-	-	-	-	-	-	-	-	-	-
Capital Projects Funded through Other Sources	418,686	1,250,000	-	-	-	-	-	-	-	-
Total Capital Projects	2,930,686	2,190,000	405,000	533,000	1,243,000	278,000	1,969,000	1,578,000	11,135,000	1,700,000

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Profit Transfer Budget Option Cash Analysis

	FORECAST 2023	FORECAST 2024	FORECAST 2025	FORECAST 2026	FORECAST 2027
Utilities Profit Transfer Reserves					
Electric Distribution	594,979	582,224	594,979	654,033	704,366
Gas	504,487	201,959	504,487	345,845	318,076
Total Profit Transfer	1,099,466	784,183	1,099,466	999,879	1,022,442
Total Budget Options	844,172	1,280,404	1,098,000	1,275,000	4,057,000
Annual Net Cash Flow	255,294	(496,221)	1,466	(275,121)	(3,034,558)
Cumulative Cash Flow	650,205	153,984	155,451	(119,670)	(3,154,228)
Utility Budget Option Expenditures					
Electric Production Projects					
Electric Distribution Projects	75,000	225,000		1,275,000	1,275,000
Gas Projects	115,376	111,509			
Water Distribution Projects	330,816	943,895	829,500		2,542,000
Water Production Projects	322,980				
Wastewater Projects			268,500		240,000

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Profit Transfer Budget Options

FY23 (1 July 2022 - 30 June 2023)		Budget
ELECTRIC DISTRIBUTION		75,000
Arkansas (Public Works Road Project)		75,000
WATER DISTRIBUTION		330,816
Rose Street (Public Works Road Project)		330,816
GAS DISTRIBUTION		115,376
Rose Street (Public Works Road Project)		115,376
WATER PRODUCTION		322,980
Rose Street (Public Works Road Project)		322,980
TOTAL		844,172
FY24 (1 July 2023 - 30 June 2024)		Budget
ELECTRIC DISTRIBUTION		225,000
Rim/Quartz/Pine/6th St (Public Works Road Project)		225,000
WATER DISTRIBUTION		943,895
Central Avenue (Public Works Road Project)		351,252
Bathtub Row/Nectar/Peach (Public Works Road Project)		592,643
GAS DISTRIBUTION		111,509
Central Avenue (Public Works Road Project)		111,509
Total		1,280,404

Los Alamos County Department of Public Utilities
Fiscal Years 2023-2032
10-Year Profit Transfer Budget Options

FY25 (1 July 2024 - 30 June 2025)		Budget
WATER DISTRIBUTION		829,500
Aspen School Area Pipeline Phase 2		829,500
SEWER COLLECTION		268,500
Aspen School Area Phase 2 Sewer Line R&R		268,500
TOTAL		1,098,000
FY26 (1 July 2025 - 30 June 2026)		Budget
ELECTRIC DISTRIBUTION		1,275,000
Navajo (Public Works Road Project)		375,000
Los Pueblos (Public Works Road Project)		900,000
TOTAL		1,275,000
FY27 (1 July 2026 - 30 June 2027)		Budget
ELECTRIC DISTRIBUTION		1,275,000
Los Pueblos (Public Works Road Project)		1,275,000
WATER DISTRIBUTION		2,542,000
Denver Steels Phase 3 (Public Works Road Project)		900,000
Orange Street & Nickel (Public Works Road Project)		1,642,000
SEWER COLLECTION		240,000
Denver Steels Phase 3 (Public Works Road Project)		90,000
Orange Street & Nickel (Public Works Road Project)		150,000
TOTAL		4,057,000

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 16, 2022

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	7.B.
Index (Council Goals):	DPU FY2021 - 1.0 Provide Safe and Reliable Utility Services
Presenters:	Steve Cummins, Deputy Utilities Manager - Electric Distribution and Jordan Garcia
Legislative File:	15547-22

Title

Approval of Amendment No. 1 to New Exit Date Amendment Amending and Restating the Amended and Restated San Juan Project Participation Agreement and the Extended Operations Agreement

..Recommended Action

I move that the Board approve Amendment No. 1 to the New Exit Date Amendment, Amending and Restating the Amended and Restated San Juan Project Participation Agreement, as drafted and attached, but may be subject to minor modifications, only if the final form is approved by the County Attorney

I further move that the Board approve the Extended Operations Agreement, as drafted and attached, but may be subject to minor modifications, only if the final form is approved by the County Attorney

I further move that the Board authorize the Utilities Manager to execute the final drafts of Amendment No. 1 to New Exit Date Amendment Amending and Restating the Amended and Restated San Juan Project Participation Agreement and the Extended Operations Agreement

I further move that the Board forward these documents to County Council for final approval.

Staff Recommendation

Staff recommends that the Board approve as presented.

Body

Power Operations is attempting to manage a large gap in generation with the impending San Juan Closure. The market is forecasted to behave much like the prior two years during the third quarter of 2022 (July, August, and September). On-peak futures are trading above \$230.00/MWh of Energy for this time period. In addition to market pricing, supply chain issues are plaguing the energy sector by delaying new generation resources throughout the west. These factors have led the current ownership of San Juan Generating Station to request an extension of operations for this three-month period.

A San Juan extension allows Los Alamos County to meet the Power Pool's energy needs in the

most economic fashion. Current projections place a conservative savings value to the Power Pool in the amount of \$7,000,000.00. Without this extension LAC can only fill this energy gap in one manor, a short-term market-based energy product that is most likely generated by coal or natural gas. Los Alamos County has entered in a Purchase Power Agreement (PPA) with UNIPER Global for delivery of 25MW around the clock from October 1, 2022 - June 30, 2025, to fill the gap left by San Juan's retirement. This extension of San Juan Generating Station to shut down on September 30 will match up well with the Uniper PPA beginning on October 1st.

For an extension to occur, all of the remaining participants must agree and seek approval from their respective governing bodies. The approvals must be unanimous for the extension to occur. Tucson Electric Power (TEP) does not wish to take any of the energy output during this time frame. They have agreed to allow an extension, however San Juan Unit 1 will not operate during this three-month period. TEP ownership share is reserved to Unit 1 only. While the continued operation of Unit 4 is not guaranteed, the line of questions from the Public Regulation Commission (PRC) of PNM appear to support three months of continued operations of SJGS. The PRC's consideration is due to PNM's replacement resources being delayed due to supply chain issues resulting in these projects not achieving their original commercial operation date. These delays leave PNM short on capacity during the peak summer months when market power is scarce and most expensive. Extending the operation of the SJGS will save PNM native customers tens of millions of dollars and provide more stability to the western interconnect during this high demand period.

Alternatives

Replace this capacity with a short-term market power purchase at an estimated additional cost of \$7,000,000 during this period based on the energy futures.

Fiscal and Staff Impact

An estimated \$7,000,000 savings to the Los Alamos Power Pool. This effort is considered a normal part of operations for Electric Production staff.

Attachments

A - Amendment No. 1 To New Exit Date Amendment

B - Extended Operations Agreement

**AMENDMENT NO. 1
TO NEW EXIT DATE AMENDMENT AMENDING AND RESTATING THE
AMENDED AND RESTATED SAN JUAN PROJECT PARTICIPATION AGREEMENT**

THIS AMENDMENT NO. 1 TO NEW EXIT DATE AMENDMENT AMENDING AND RESTATING THE AMENDED AND RESTATED SAN JUAN PROJECT PARTICIPATION AGREEMENT (this “Amendment”) is entered into this [●] day of February, 2022 (“Execution Date”), by and among Public Service Company of New Mexico (“PNM”), Tucson Electric Power Company (“TEP”), The City of Farmington, New Mexico (“Farmington”), The Incorporated County of Los Alamos, New Mexico (“LAC”), and Utah Associated Municipal Power Systems (“UAMPS”). PNM, TEP, Farmington, LAC and UAMPS are referred to herein individually as a “Party” and collectively as the “Parties.”

RECITALS

A. The Parties entered into that certain New Exit Date Amendment Amending and Restating the Amended and Restated San Juan Project Participation Agreement (“NEDA”) effective as of September 1, 2017 (“NEDA”) providing for, among other things, the operation of the San Juan Generating Station (“SJGS”) through the term of the NEDA, which will terminate on July 1, 2022, unless otherwise agreed by the Parties.

B. PNM, Farmington, LAC and UAMPS hold varying ownership interest percentages in Unit 4 at SJGS and desire to maintain SJGS as a baseload generating resource on a short-term basis through on or about September 30, 2022, to help minimize the anticipated shortfall in generating resources during the 2022 summer peak period.

C. PNM and TEP each hold a fifty percent (50%) ownership interest in Unit 1 at SJGS and desire to cease operating Unit 1 under their ownership as of June 30, 2022. Cessation of operations of the unit will help reduce emissions and is consistent with the Unit 1 owners’ regulatory obligations and corporate commitments, including TEP’s obligation to cease participation in SJGS operations and procurement of electricity from coal-fired power plants after June 30, 2022.

D. PNM and Westmoreland San Juan Mining, LLC (“WSJM”) are parties to a Coal Supply Agreement effective as of January 31, 2016 (“Original CSA”) for the supply of all the coal requirements for the SJGS. The term of the Original CSA was set to expire on June 30, 2022. PNM and WSJM have agreed to extend the term of the Original CSA through the Extension Period, as hereinafter defined, to ensure coal supply to the SJGS through the end of the Extension Period.

E. The Parties wish to amend the NEDA to reflect the extension of its term, cessation of operations of Unit 1, and other related matters as set forth in this Amendment.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the sufficiency and adequacy of which are hereby acknowledged, the Parties agree to the following:

1. Amendments. The NEDA is amended as follows:
 - a. Section 4.4 [relates to the term of the NEDA] is hereby amended by deleting Section 4.4 in its entirety and substituting the following:

“This Agreement shall continue in force and effect until the end of the Extension Period, unless otherwise agreed in writing by the Participants or as provided for in Sections 40A or 40B.”
 - b. Section 5.0, Definitions, is hereby amended by:
 - i. Adding the following definition:

“5.17(c) “EXTENSION PERIOD”: The period of time commencing on July 1, 2022 and ending on the earlier of the date commercial production of electrical power at SJGS ceases under current ownership or September 30, 2022.”
 - ii. Deleting the definition of UNIT 1 in its entirety and substituting the following:

“5.49 UNIT 1: The second operating unit of the San Juan Project, which was placed in commercial service on December 31, 1976, presently has a net capacity rating of 340 MW, and will cease to be operated by TEP and PNM on June 30, 2022, regardless of whether the term of this Agreement is extended.”
 - c. Section 14.1 [relates to entitlement to capacity and energy], is hereby amended by deleting “each of Unit 1 and” and adding the following sentence to the end of the section:

“For the avoidance of doubt, TEP owns no Participation Shares in Unit 4 and is not entitled to any Energy generated by Unit 4.”
 - d. Section 19.3 [list of E&O Committee duties] is hereby amended by adding the following new Section 19.3.6:

“19.3.6 Plan for an orderly closure of the San Juan Project as set forth in Section 40B.3.”
 - e. Section 22.1 [relates to O&M expense allocations] is hereby amended by adding Subsection 22.1.8.1, as follows:

“22.1.8.1 Except as otherwise provided in the Restructuring Agreement, the Decommissioning Agreement, the Mine Reclamation Agreement, or other arrangements agreed to in writing by the affected Parties, the Unit 4 owners will be responsible for any Unit 4 and associated plant site costs solely caused by the extension of Unit 4 operations during the Extension Period, including fuel costs under the CSA, based on their respective ownership interests in Unit 4. It is recognized that some events giving rise to costs may potentially begin on or after January 1, 2018 but prior to July 1, 2022 and continue after July 1, 2022, including but not limited to costs arising under the CCRDA. In such event, responsibility will be apportioned among all Parties based on the relative time periods before and after July 1, 2022 during which such costs were incurred and pursuant to the provisions of this Agreement.”

- f. Section 22.1.7 [relates to O&M expense allocations] is hereby amended by deleting the second paragraph in its entirety and substituting the following:

“If the term of this Agreement is extended beyond June 30, 2022, then the percentages shown in Section 6.2.6 (as modified by any transfers pursuant to Sections 40A or 40B) shall apply after June 30, 2022 in lieu of the percentages set forth in this Section 22.1.7. Notwithstanding anything to the contrary in this section, TEP shall have no liability for any O&M Expenses, Capital Improvement costs, or A&G expenses incurred under this Agreement during the Extension Period, except to the extent such liability arises under the Restructuring Agreement, the Decommissioning Agreement or the Mine Reclamation Agreement.”

- g. Section 23.0, Fuel Costs, is hereby amended by adding Subsection 23.20, as follows:

“23.20 Except as otherwise provided in the Restructuring Agreement, the Decommissioning Agreement, or other arrangements agreed to in writing by the affected Parties, the Unit 4 owners will be responsible for all Unit 4 and associated plant site fuel-related costs described in this Section 23 solely caused by the extension of Unit 4 operations during the Extension Period. The Unit 4 owners’ responsibility for such costs will be determined by the allocation methods set forth in Section 23. It is recognized that some events giving rise to fuel-related costs may potentially begin on or after January 1, 2018 but prior to July 1, 2022 and continue after July 1, 2022. In such event, responsibility will be apportioned among the Parties based on the relative time periods before and after July 1, 2022 during which such fuel-related costs were incurred and pursuant to the provisions of this Agreement.”

- h. Section 36, Liability, is hereby amended by adding Subsection 36.10, as follows:

“36.10 Except as otherwise provided in the Restructuring Agreement, the Decommissioning Agreement, the Mine Reclamation Agreement, or other arrangements agreed to in writing by the affected Parties, the Unit 4 owners will be

responsible for all Unit 4 and associated plant site liabilities solely caused by the extension of Unit 4 operations during the Extension Period, including liabilities under the CSA, based on their respective ownership interests in Unit 4. It is recognized that some events giving rise to liabilities may potentially begin on or after January 1, 2018 but prior to July 1, 2022 and continue after July 1, 2022, including but not limited to liabilities arising under the CCRDA. In such event, responsibility will be apportioned among the Parties based on the relative time periods before and after July 1, 2022 during which such liabilities were incurred and pursuant to the provisions of this Agreement.”

- i. Section 36.2 [relates to liability] is hereby amended by adding a comma after “36.5”, deleting “and”, and adding “and 36.10” after “36.6”.
2. Purposes. The purposes underlying this Amendment are that (i) Unit 1 owners will cease operation of Unit 1 on June 30, 2022; (ii) Unit 4 owners will continue operation of Unit 4 on a short-term, temporary basis to cover the 2022 summer peak; (iii) the Parties who benefit from the availability of MWs generated by Unit 4 during the Extension Period will be solely responsible for costs and liabilities caused by those operations; (iv) TEP, which does not own an interest in or benefit from continued Unit 4 operations, should be held harmless for those specific costs and liabilities; and (v) TEP will retain all rights, obligations and liabilities relating to ownership in SJGS except as expressly modified by this Amendment. The Parties agree to use good faith efforts to promptly negotiate an agreement and related procedures as necessary to reflect those purposes for the operation of SJGS during the Extension Period. The Parties further agree that any conflict or ambiguity arising from the interpretation of the NEDA or this Amendment during the Extension Period shall be resolved such that it is consistent with these purposes.
3. Defined Terms. Capitalized terms used in this Amendment but not otherwise defined herein shall have the meanings ascribed to them in the NEDA.
4. No Other Changes; Conflict. Except as expressly modified hereby, all the terms and provisions of the NEDA shall remain in full force and effect. In the event of a conflict between the terms of the NEDA and this Amendment, the terms of this Amendment shall prevail to the extent of the conflict.
5. Approvals. The Parties will use good faith efforts to obtain, on a timely basis, any required board and regulatory approvals relating to this Amendment. Each Party agrees that it will promptly notify all other Parties that it has obtained its necessary approvals. Each Party further agrees that it will support or not oppose any required regulatory filings of any other Party by either promptly filing statements or letters of concurrence, by intervening in support of the filings, or by not taking any action to oppose the filings.
6. Counterparts; Delivery. This Amendment may be executed in two or more counterpart copies of the entire document or of signature pages to the document, each of which may have been executed by one or more of the signatories hereto and delivered by mail, courier, telecopy or other electronic means, but all of which taken together shall constitute a single agreement, and each executed counterpart shall have the same force and effect as an original instrument.

7. Governing Law. The interpretation and enforcement of this Amendment and each of its provisions shall be governed and construed in accordance with the laws of the State of New Mexico notwithstanding its conflicts of laws rules or any principles that would trigger the application of any other law.

8. Effective Date; Conditions Precedent. This Amendment shall become effective on June 30, 2022 at 12:00 midnight; provided, however, the rights, liabilities and obligations of the Parties under this Amendment are subject to satisfaction of the following conditions precedent: (1) approval by the New Mexico Public Regulation Commission of PNM's application for waiver of its compliance obligations in [Case No. 19-00018-UT; (2) acceptance by FERC of this Amendment for filing with no subsequent order for hearing; and (3) approval of the relevant governing body for each Party (collectively, "Conditions Precedent"). This Amendment will be null and void if the Conditions Precedent are not satisfied by June 30, 2022.

[Signature page(s) follow]

IN WITNESS WHEREOF, the undersigned Parties, by their duly authorized representatives, have caused this Amendment to be executed as of the Execution Date.

**PUBLIC SERVICE COMPANY
OF NEW MEXICO**

By _____
Its _____

TUCSON ELECTRIC POWER COMPANY

By _____
Its _____

THE CITY OF FARMINGTON, NEW MEXICO

By _____
Its _____

**THE INCORPORATED COUNTY OF LOS ALAMOS,
NEW MEXICO**

By _____
Its _____

UTAH ASSOCIATED MUNICIPAL POWER SYSTEMS

By _____
Its _____

Notary Public

STATE OF ARIZONA)
) ss.
COUNTY OF PIMA)

Notary Public

Notary Public

STATE OF NEW MEXICO)
COUNTY OF LOS ALAMOS) ss.



Notary Public

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

The foregoing instrument was acknowledged before me on this ____ day of _____, 2022, by _____, _____ of Utah Associated Municipal Power Systems, a political subdivision of the State of Utah, on behalf of said entity.

Notary Public

My commission expires:

SAN JUAN GENERATING STATION EXTENDED OPERATIONS AGREEMENT

THIS SAN JUAN GENERATING STATION EXTENDED OPERATIONS AGREEMENT (“Agreement”) is entered into this [●] day of February 2022 (“Execution Date”) by and among Public Service Company of New Mexico (“PNM”), Tucson Electric Power Company (“TEP”), The City of Farmington, New Mexico (“Farmington”), The Incorporated County of Los Alamos, New Mexico (“LAC”), and Utah Associated Municipal Power Systems (“UAMPS”). PNM, TEP, Farmington, LAC and UAMPS are referred to herein individually as a “Party” and collectively as the “Parties.”

RECITALS

A. The Parties entered into that certain New Exit Date Amendment Amending and Restating the Amended and Restated San Juan Project Participation Agreement (“NEDA”) effective as of September 1, 2017 (“NEDA”) providing for, among other things, the operation of the San Juan Generating Station (“SJGS”) through the term of the NEDA, which will terminate on July 1, 2022, unless otherwise agreed by the Parties.

B. PNM, Farmington, LAC and UAMPS hold varying ownership interest percentages in Unit 4 at SJGS and desire to maintain SJGS as a baseload generating resource on a short-term basis through on or about September 30, 2022 to help minimize the anticipated shortfall in generating resources during the 2022 summer peak period.

C. PNM and TEP each hold a fifty percent (50%) ownership interest in Unit 1 at SJGS and desire to cease operating Unit 1 under their ownership as of June 30, 2022. Cessation of operations of Unit 1 will help reduce emissions and is consistent with the Unit 1 owners’ regulatory obligations and corporate commitments, including TEP’s obligation to cease participation in SJGS operations and procurement of electricity from coal-fired power plants after June 30, 2022.

D. The Parties entered into that certain Amendment No. 1 to New Exit Date Amendment Amending and Restating the Amended and Restated San Juan Project Participation Agreement entered into on February [●], 2022 (the “Amendment”) to provide for the continued operation of Unit 4 at SJGS and cessation of operations of Unit 1 as of June 30, 2022.

E. PNM and Westmoreland San Juan Mining, LLC (“WSJM”) are parties to a Coal Supply Agreement effective as of January 31, 2016 (“Original CSA”) for the supply of all the coal requirements for the SJGS. The term of the Original CSA was set to expire on June 30, 2022. PNM and WSJM have agreed to extend the term of the Original CSA through the Extension Period, as hereinafter defined, to ensure coal supply to the SJGS through the end of the Extension Period.

F. Pursuant to Section ____ of the Amendment, the Parties agreed to negotiate and execute an agreement that contains certain terms regarding the rights, responsibilities, and obligations of the Parties associated with the operation of Unit 4 and associated SJGS facilities on or after July 1, 2022.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the sufficiency and adequacy of which are hereby acknowledged, the Parties agree to the following:

1. Effective Date. This Agreement shall become effective on the effective date of the Amendment.

2. Definitions. Capitalized terms used in this Agreement but not otherwise defined herein shall have the meanings ascribed to them in the Amendment or NEDA.

3. Cessation of Operations of Unit 1 and Unit 1 and 2 Common Facilities. Unit 1 and the common facilities associated with Unit 1 will cease all operations beginning on July 1, 2022, subject to (i) any liabilities and obligations arising under the Restructuring Agreement, the Decommissioning Agreement or the Mine Reclamation Agreement or as otherwise may be agreed to by the Parties in writing, or (ii) any requirements contained in an agreement related to the sale of Unit 1 to a third-party.

4. Indemnification of TEP From Liabilities and Costs

(a) Liabilities Arising Prior to July 1, 2022. All Parties will be responsible for liabilities arising from SJGS plant operations and ownership prior to July 1, 2022, pursuant to the terms and conditions of the NEDA.

(b) Liabilities Arising on or After July 1, 2022. Except as otherwise provided in the Restructuring Agreement, the Decommissioning Agreement, the Mine Reclamation Agreement, , or other arrangements agreed to in writing by the affected Parties, only the non-TEP Parties will be responsible, in accordance with their respective ownership interests in Unit 4 as set forth in the NEDA, for all Unit 4 and associated plant site liabilities solely caused by the extension of Unit 4 operations during the Extension Period, including liabilities under the CSA. The non-TEP Parties will defend, indemnify and hold harmless TEP and its agents, affiliates, members, officers, directors, commissioners, Boards, employees, successors and assigns from and against liabilities to the extent solely caused by the extension of Unit 4 operations during the Extension Period. It is recognized that some events giving rise to liabilities may potentially begin on or after January 1, 2018 but prior to July 1, 2022 and continue after July 1, 2022, including but not limited to liabilities arising under the CCRDA. In such event, responsibility will be apportioned among the Parties based on the relative time periods before and after July 1, 2022 during which such liabilities were incurred and pursuant to the provisions of the NEDA.

(c) Costs Caused Prior to July 1, 2022. All Parties will be responsible for costs caused prior to July 1, 2022, pursuant to the terms and conditions of the NEDA.

(d) Costs Caused on or After July 1, 2022. Except as otherwise provided in the Restructuring Agreement, the Decommissioning Agreement, the Mine Reclamation Agreement, or other arrangements agreed to in writing by the affected Parties, only the non-TEP Parties will be responsible, in accordance with their respective ownership interests in Unit 4 as set forth in the

NEDA, for any Unit 4 and associated plant site costs solely caused by the extended operation of Unit 4 during the Extension Period. The non-TEP Parties will defend, indemnify and hold harmless TEP and its agents, affiliates, members, officers, directors, commissioners, Boards, employees, successors and assigns from and against costs solely caused by the extension of Unit 4 operations during the Extension Period. It is recognized that some events giving rise to costs may potentially begin on or after January 1, 2018 but prior to July 1, 2022 and continue after July 1, 2022, including but not limited to costs arising under the CCRDA. In such event, responsibility will be apportioned among all Parties based on the relative time periods before and after July 1, 2022 during which such costs were incurred and pursuant to the provisions of the NEDA.

(e) Anti-Indemnity Provisions. The Parties acknowledge the potential applicability of NMSA 1978, §§ 56-7-1 and 56-7-2. Any agreement to indemnify contained herein will be enforced only to the extent it is consistent with such statutes.

(f) Farmington and Los Alamos. Farmington (and the Farmington Electric Utility System) and Los Alamos are governmental entities whose liability is limited by the New Mexico Tort Claims Act, NMSA 1978, §§ 41-4-1 through 41-4-27, and any liability or indemnity assumed by Farmington and the Farmington Electric Utility System or Los Alamos in this Agreement will be limited by the provisions of the New Mexico Tort Claims Act. Notwithstanding any other provisions of this Agreement, the payment for all purchases, fees or charges made by Farmington and Los Alamos under this Agreement will be made from the legally available revenues of Farmington's and/or Los Alamos's Electric Utility System. In no event will the obligation to pay under this Agreement be considered an obligation against the general faith and credit or general taxing power of Farmington or Los Alamos.

(g) Utah Associated Municipal Power Systems. UAMPS is a joint action agency organized under the laws of the State of Utah, created to acquire, construct, finance, operate and maintain generation and transmission projects on behalf of its members. In no event will the obligation to pay under this Restructuring Agreement be considered an obligation against the general faith and credit of taxing power of any member of UAMPS.

5. No Other Amendments. Except as otherwise modified herein, all the terms and provisions of the NEDA shall remain in full force and effect, and TEP shall retain all rights, liabilities and obligations under the NEDA, including those relating to the shutdown or cessation of operations of Unit 1 and the SJGS.

6. Purposes. The purposes underlying this Agreement are that (i) Unit 1 owners will cease operation of Unit 1 on June 30, 2022; (ii) Unit 4 owners will continue operation of Unit 4 on a short-term, temporary basis to cover the 2022 summer peak; (iii) the Parties who benefit from the availability of MWs generated by Unit 4 during the Extension Period will be solely responsible for costs and liabilities resulting from those operations; (iv) TEP, which does not own an interest in or benefit from continued Unit 4 operations, should be held harmless for those specific costs and liabilities; and (v) TEP will retain all rights, obligations and liabilities relating to ownership in SJGS except as expressly modified by this Agreement. The Parties further agree that any conflict or ambiguity arising from the interpretation of the NEDA or this Agreement during the Extension Period shall be resolved such that it is consistent with these purposes.

7. Approvals. The Parties will use good faith efforts to obtain, on a timely basis, any required board and regulatory approvals relating to this Agreement. Each Party agrees that it will promptly notify all other Parties that it has obtained its necessary approvals. Each Party further agrees that it will support or not oppose any required regulatory filings of any other Party by either promptly filing of statements or letters of concurrence, by intervening in support of the filings, or by not taking any action to oppose the filings.

8. Counterparts; Delivery. This Agreement may be executed in two or more counterpart copies of the entire document or of signature pages to the document, each of which may have been executed by one or more of the signatories hereto and delivered by mail, courier, telecopy or other electronic means, but all of which taken together shall constitute a single agreement, and each executed counterpart shall have the same force and effect as an original instrument.

9. Governing Law. The interpretation and enforcement of this Agreement and each of its provisions shall be governed and construed in accordance with the laws of the State of New Mexico notwithstanding its conflicts of laws rules or any principles that would trigger the application of any other law.

[Signature page(s) follow]

IN WITNESS WHEREOF, the undersigned Parties, by their duly authorized representatives, have caused this Agreement to be executed as of the Execution Date.

**PUBLIC SERVICE COMPANY
OF NEW MEXICO**

By _____
Its _____

TUCSON ELECTRIC POWER COMPANY

By _____
Its _____

THE CITY OF FARMINGTON, NEW MEXICO

By _____
Its _____

**THE INCORPORATED COUNTY OF LOS ALAMOS,
NEW MEXICO**

By _____
Its _____

UTAH ASSOCIATED MUNICIPAL POWER SYSTEMS

By _____
Its _____

Notary Public

STATE OF ARIZONA)
) ss.
COUNTY OF PIMA)

Notary Public

Notary Public

Notary Public

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

The foregoing instrument was acknowledged before me on this ____ day of _____, 2022, by _____, _____ of Utah Associated Municipal Power Systems, a political subdivision of the State of Utah, on behalf of said entity.

Notary Public

My commission expires:



County of Los Alamos

Staff Report

February 16, 2022

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.: 7.C.

Index (Council Goals): * 2021 Council Goal - Investing in Infrastructure; DPU FY2021 - 1.0 Provide Safe and Reliable Utility Services

Presenters: James Alarid, Deputy Utilities Manager - Engineering

Legislative File: 15528-22

Title

Approval of Task Order No. 4 to AGR20-48b with CDM Smith for Engineering and Construction Oversight Services for the Pajarito Road / TA-50 Waterline Replacement Project, and Approval of Budget Revision 2022-46.

Recommended Action

I move that the Board of Public Utilities Approve Task Order No. 4 to AGR20-48b with CDM Smith for Engineering and Construction Oversight Services for the Pajarito Road / TA-50 Waterline Replacement Project in the Amount of \$321,631.47, which includes Gross Receipts Tax, and a Contingency in the amount of \$58,322.53, for a Total Project Budget of \$379,954, and forward to Council for approval.

I further move that the Board of Public Utilities Approve Budget Revision 2022-46 and forward to Council for approval, and that Budget Revision 2022-46 be included in the meeting minutes for the record.

Staff Recommendation

Staff recommends that the Board approve as presented.

Body

The Department of Energy (DOE) has requested DPU relocate an existing County owned 16" water transmission line to facilitate construction of planned facilities. The waterline is located along Pajarito Road in Tech Area 50. Approximately 2,000 feet of existing 16" waterline will be relocated into the Pajarito Road corridor and the existing waterline will be abandoned in place. The design and construction costs to relocate the waterline will be paid for by the DOE, per the provisions in the current water sales agreement between the County and DOE. Consistent with the agreement, these costs for design and construction oversight have been reviewed and accepted by the DOE. The work will be designed in the spring of 2022 and constructed over the fall and winter of 2022. CDM Smith will provide full-time construction inspection on the project to facilitate permitting, traffic control, access coordination and LANL utility coordination since the work will take place in a busy mission critical area of LANL. Construction is scheduled to begin in September 2022 and take 6 months to complete.

Alternatives

If the Task Order is not approved, the project will be delayed past DOE's requested time frame. DPU will coordinate the delayed schedule with DOE and evaluate options to complete the work.

Fiscal and Staff Impact/Planned Item

This project was not planned or budgeted. The cost for these engineering services and construction of the project will be paid by the DOE. We are seeking approval of Budget Revision 2022-46 to establish spending authority for the Task Order.

Attachments

A - Task Order No. 4 AGR20-48b

B - Budget Revision 2022-46

**Task Order
CDM Smith
AGR20-48b**

Task Order No.: 4

Date Prepared: February 2, 2022

Project Title: TA-50 Transmission Water Main Relocation

Job Cost #: WP 7941 – \$298,152.00 (Services)
WP 7941 – \$23,479.47 (NMGRT)
\$321,631.47 (Total)

Task Order Project Manager: James Martinez

Phone: (505)927-1518

Department: Department of Public Utilities - Engineering

Vendor Contact: Robert Fowlie

Scope of Work: See Exhibit 1 – Fee Proposal dated February 2, 2022

Start Work Date: 2/22/2022

Complete Work By: 04/28/2022

Estimated Total Cost: (not to exceed amount): \$ 298,152.00
GRT Bernalillo County – ABQ (7.875%): \$ 23,479.47
Final Estimate: \$ 321,631.47

Current Task Order Value	\$ 298,152.00	Less GRT
Estimated Value of all task orders to date, including this task order:	\$ 385,777.00	Less GRT
Remaining Contract Value:	\$ 652,348.00	Less GRT

SIGNATURE PAGE

Project Manager

Date

CDM Smith

Date

Utility Manager

Date



EXHIBIT 1

6001 Indian School Road NE, Suite 310
Albuquerque, New Mexico 87110
tel: 505-243-3200
fax: 505-243-2700

February 2, 2022

James Martinez, PE, PMP
Engineering Project Manager
Los Alamos Department of Public Utilities
1000 Central Avenue, Suite 130
Los Alamos, NM 87544

Subject: Task Order Proposal for TA-50 Transmission Main Relocation

Dear Mr. Martinez:

CDM Smith is pleased to present this scope of work and fee proposal to Los Alamos County (County) for design, bidding, and construction phase services for the relocation of the TA-50 Water Transmission Main. The project consists of relocating approximately 0.4 miles (2,100 LF) of 16-inch CCP transmission main from the Los Alamos National Laboratories (LANL) TA-50 parking lot on the south side of Pajarito Road between Pecos Road and Puye Road. The transmission main conveys water from County wells up to the Pajarito Tank. The transmission main is in a 40-foot water main easement in Pajarito Road and the TA-50 parking lot. The transmission main needs to be relocated so LANL can construct new buildings in the parking lot area. Based on our December 8, 2021, meeting with LANL, construction of the transmission main relocation will start after August 2022.

CDM Smith met with County and representatives from LANL on December 8, 2021, to discuss the project and walk the proposed alignment of the relocated transmission main. During that meeting, CDM Smith, the County, and LANL agreed on the following items that will need to be incorporated into the design of the relocated transmission main:

- LANL provided a GIS drawing showing their utilities in the area of the existing transmission main. There are numerous electrical lines in the Pajarito Road right-of-way. The relocated transmission main pipeline will most likely need to be installed in the shoulder or in one of the lanes of Pajarito Road.
- The relocated transmission main needs to be located on the south side of Pajarito Road to avoid the MDAC site behind the fence on the north side of Pajarito Road. Also, spotted owl nests are in that area too.
- The relocated transmission main will need to cross from the south to the north side of Pajarito Road to connect to the existing main. This crossing will need to be open cut as there isn't adequate room for a jacking pit





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- Pajarito Road is LANL right-of-way. The relocated main will need to be installed in an easement obtained from LANL.
- LANL stated that they require traffic flow in both directions on Pajarito Road with a minimum lane width of 11-feet. Provisions for nighttime or weekend work will be needed in the specifications.
- LANL is planning to construct a pedestrian overpass in the vicinity of Pecos Road. The connection to the existing transmission main should be located west of the proposed overpass location.
- CDM Smith will work with the County and LANL to identify a staging area for the construction contractor. The location of the staging area will be identified for the environmental review and included in the construction drawings.
- LANL will conduct all environmental studies and reviews for the project.

The scope of services for this project has been broken down into the following tasks:

- **Task 1 Project Management and Kickoff Meeting**
- **Task 2 Surveying and Geotechnical Services**
- **Task 3 Design**
- **Task 4 Bidding Phase Service**
- **Task 5 Construction Phase Services**
- **Task 6 Construction Observation**

Scope of Work

Task 1 Project Management and Kickoff Meeting

This task consists of communications, coordination, meetings, project administration, and management during the project.

As part of this task, CDM Smith will conduct a Project Kickoff Meeting/Design Workshop with the County to obtain additional project information, develop critical success factors for the design and implementation of the Project. The kick-off meeting will be held by Teleconference (Microsoft Teams) and cover the following items:

- Introduction of the project team and the respective roles/responsibilities.
- Discussion of project communication plan.



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- Review of project objectives and Owner expectations.
- Review of the project execution plan (project scope of work, deliverables, and baseline schedule).
- Identification and preliminary coordination of immediate project activities and information needs.
- Additionally, the Kickoff Meeting will be utilized as a pre-design workshop to facilitate the initiation and coordination of project design elements.

CDM Smith will also meet with the County and LANL in bi-weekly project progress meetings to discuss progress on the project and coordination issues with LANL. Bi-weekly progress meetings will be held virtually.

Other project management activities that will be performed under this task are management of subcontracts, project accounting, scheduling and budget tracking, and maintenance of project files. The project management efforts are included and budgeted within each task.

Assumptions:

- The duration of project management includes 4.5 months for design; 2 months for bidding phase services (one month for advertisement and bid opening and one month for contract negotiations) and 6 months of construction management services.
- The Project Kickoff Meeting will be held in-person with County staff, LANL staff assigned to the project, and CDM Smith's team including subconsultants for the survey and geotechnical exploration.
- Bi-weekly progress meetings will be held with County, LANL staff, and CDM Smith's team during the design of the transmission main relocation. All bi-weekly progress meetings will be held virtually.
- Monthly Progress Reports will be provided with monthly invoices.
- Additional meetings (including construction progress meetings) are included in other tasks.

Deliverables:

- Kick-off meeting agenda and meeting minutes
- Monthly progress reports – delivered via e-mail
- Monthly invoices

Task 2 Surveying and Geotechnical Services

Surveying Services

Subconsultant CobbFendley will perform surveying services for the TA-50 Transmission Main Relocation. Survey services will establish three (3) project control points based utilizing GPS static/RTK techniques along the project corridor. The survey will map existing planimetric features within the project area, including curb and gutter, lip of gutter, edge of pavement, fences, walls, breaklines along with visible utilities with invert and pipe sizes, designated utilities to be marked by LANL, and other pertinent features within the project area to generate mapping at a 1-foot contour interval.

CobbFendley will perform a Pothole Survey along the proposed alignment of the relocated transmission main. The Pothole Survey will document the location and depth of the existing utilities after potholes are completed by LANL. The Pothole Survey information will be collected and incorporated into the survey for the project.

CobbFendley will prepare one new easement document for placing the relocated transmission main in the right-of-way of Pajarito Road. Easement document preparation will include research of plat and deed information at the Los Alamos County Assessors and Clerks offices and to obtain current vesting documents, plats and/or deeds. Field crews will obtain field data for the easement including establishing property corners and evidence of occupancy. Field data will then be analyzed to determine the boundary of the easement and an easement exhibit and legal descriptions will be developed.

Assumptions:

- LANL will provide GIS files for their utilities in the area of the transmission main relocation.
- LANL will locate all their utilities in the area of the project prior to the survey.
- LANL will pothole all utility crossings identified by CDM Smith.

Deliverables:

- ASCII point files in Local Project Surface Coordinates (NAD83/NAVD88).
- AutoCAD Civil 3D topographic drawing.
- AutoCAD Civil 3D Pothole Survey Data.
- Easement document for the relocated transmission main in Pajarito Road.

Geotechnical Investigation

Subconsultant Wood Environmental and Infrastructure will perform a geotechnical investigation to obtain soil samples along the alignment of the relocated TA-50 Transmission Main. The geotechnical investigation will include drilling of 3 exploratory borings along the alignment of the Relocated TA-50 Transmission Main to collect samples for soil characterization and analysis. Borings will be drilled to depths of 15 feet below existing site grade or auger refusal.

Wood will prepare Draft and Final Geotechnical Reports for the project. The Reports will contain results of the geotechnical exploration, testing, and geotechnical recommendations for design and construction of the relocated transmission main.

Also included in the geotechnical investigation is training, badging, and preparing an Integrated Work Document (IWD) to meet LANL requirements.

Deliverables:

- Geotechnical Engineering Report including graphical boring logs, laboratory test results, and recommendations regarding existing soils, bedding materials, and backfill.

Task 3 Design

CDM Smith will complete the design of the TA-50 Transmission Main Relocation. Design will include submittal milestones of 60-percent, 90-percent, and 100-percent (Final) review submittals to the County and LANL. Design review meetings will be held with the County and LANL at the 60-percent and 90-percent deliverable milestones. Each deliverable will be submitted approximately 2 weeks prior to design review meetings for review and all review comments shall be provided prior to or during the design review meetings, which will be held virtually via Teams. An Engineer's Opinion of Probable Construction Cost (OPCC) will be provided at each design milestone submittal. The design scope of work is based on the following assumptions based on information provided by the County:

- The pipeline material will be ductile iron.
- Working pressure in the pipeline is 180 psi.
- Restoration of pavement will be in accordance with LANL standards.
- Two-way traffic needs to be always maintained in Pajarito Road.
- Minimum lane width for traffic control is 11 feet.
- Traffic control plans will not be developed for the project. CDM Smith will provide traffic flow and lane closure requirements in the plans and specifications.



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- Transmission main crossing of Pajarito Road will be open cut. There is not enough room for a jack and bore.
- Valves will only be installed at the connections to the existing transmission main. No line valves will be installed on the transmission main.
- Cathodic protection is not included in the scope of services. The relocated transmission main will be ductile iron pipe in accordance with Los Alamos County Construction Standard 601.
- Profile for the pipeline will be based on standard depth of installation for a transmission pipeline (3.5-4 feet).
- CDM Smith will work with the County and LANL to identify a staging area for the construction contractor. This area will be shown on the construction plans.
- LANL will perform all environmental studies and clearances.
- CDM Smith will use the County's Standard Specifications and Standard Front-End Documents. Standard Specifications will be supplemented if needed.

60-Percent Design

CDM Smith will prepare 60-Percent Design Drawings for the TA-50 Transmission Main Relocation. Supply Pipeline. 60-percent design drawings will show the alignment of the relocated transmission main in plan and profile view and will be used to obtain County and LANL approval on the proposed alignment of the relocated transmission main. The 60-percent design will also include an Engineer's Opinion of Probable Construction Cost (EOPCC) based on the 60-percent design.

CDM Smith will also hold a workshop with the County and LANL via teleconference to review the 60-Percent Design submittal. Comments from the workshop will be addressed and incorporated into the 90-Percent Design submittal.

Assumptions:

- Drawings will be prepared at a scale of 1 in. = 40 ft horizontal scale and 1 in. = 5 ft vertical scale.
- Drawings will be developed using CDM Smith AutoCAD standard conventions.
- Plans will consist of ten drawings: Cover sheet, General Notes, Key Plan, three Plan and Profile Sheets, two detail sheets, and traffic control plan.
- 60-percent specifications including front end and technical specification sections.
- 60-percent EOPCC
- 60-percent design review meeting will be virtual.



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Deliverables:

- Electronic drawing files in Adobe Portable Document Format (.pdf) format.
- Virtual review meeting agenda and summary notes.
- 60-percent EOPCC.

90-Percent Design Package

CDM Smith will prepare a 90-percent design package based on the 60-percent design, CDM Smith's internal quality review, and County and LANL review comments. The 90-percent design submittal will include:

- Plan and Profile of the relocated transmission main
- Details
- 90-percent specifications including front end and technical specification sections.
- 90-percent EOPCC

CDM Smith will also hold a workshop with the County and LANL via teleconference to review the 90-Percent Design submittal. Comments from the workshop will be addressed and incorporated into the Final Design submittal.

Deliverables:

- Review meeting agendas and summary notes.
- Electronic drawing and specification files in Adobe Portable Document Format (.pdf) format.
- 90-percent engineer's opinion of probable construction cost.

Final Design Package

CDM Smith will address County, LANL and internal review comments on the 90% design package and generate the 100-percent Final Design Plans and Specifications and the Final Engineer's Opinion of Probable Construction Cost. The 100-percent Plans and Specifications will be ready for bid.

Deliverables:

- Final electronic drawing and specification files in Adobe Portable Document Format (.pdf).
- 100-percent (final) engineer's opinion of probable construction cost.



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Task 4 Bidding Phase Services

CDM Smith will provide bidding phase services for the project. Bidding phase services will include:

- Provide Advertisement for Bid for the County to publish.
- Attend Pre-bid conference and provide meeting minutes.
- Answer bidder's questions.
- Provide up to three addenda based upon potential changes and/or clarifications in the bidding documents.
- Attend Bid Opening, evaluate bids received, and provide letter of evaluation and recommendations for award of contract.

Assumptions:

- Pre-Bid Conference and site tour.
- CDM Smith will prepare up to three addenda during the bid phase and distribute to the County.
- The County will distribute plans and specifications to prospective bidders.

Deliverables:

- Pre-bid Conference meeting minutes.
- Addenda.
- Letter of evaluation and recommendation for award of contract.
- Conformed documents.

Task 5 Construction Phase Services

CDM Smith will provide construction phase services during construction. Services will include:

- Project management and construction administration during construction phase services.
- Attend Pre-Construction Conference and provide agenda and meeting minutes.
- Weekly construction progress meetings for this project will be held virtually and in person. Attendance by the Engineer will be virtual. . Agenda and meeting minutes will be provided by the construction contractor.
- Respond to Requests for Information (RFI) issued by the construction contractor.



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- Provide interpretations of Construction Documents and as appropriate issue Work Directive Changes, Field Orders, and Change Orders.
- Receive, review, and respond to Shop Drawing submittals, including Operations and Maintenance Manuals, issued by the construction contractor.
- Review, and recommend for approval Partial Payment Requests by the construction contractor.
- Site visits to inspect work. CDM Smith assumes two site visits per month during construction.
- Conduct Final Completion Inspection of the Work when advised by the construction contractor.
- Prepare Record Drawings and Project Closeout documents

Assumptions:

- Assumed construction duration of 6 months.
- County will issue Notice of Award and Notice to Proceed to the construction contractor.
- County will prepare contract documents for the construction contractor.
- Contract documents will be managed using commercially available software provided by the construction contractor.
- Up to 11 submittals will be reviewed.
- Up to 4 RFIs will be received and responded to.
- Up to 2 Change Orders will be prepared.
- Record drawings will be completed in accordance with County Standards.

Deliverables:

- Electronic copies of RFI's, written responses, and supporting information to be cataloged with the project files and turned over to the County after project closeout.
- Electronic copies of construction contractor submittals will be maintained in the construction project files to be turned over to the County upon completion of construction.
- Final Change Orders ready for approval, accompanied by costs, specifications, sketches, and schedule documentation will be transmitted to the County for approval.
- Record documents and specifications will be submitted electronically (PDF).



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Task 6 Construction Observation Services

CDM Smith will provide an on-site resident project representative (RPR) for observation of construction and coordination of the Project for compliance with the County's construction contract. Responsibilities of the RPR include:

- Monitor construction contractor's work and coordinate activities with County and LANL personnel.
- Weekly construction progress meetings for this project will be held virtually and in person. Attendance by the RPR will be in person with the construction contractor, County, and LANL.
- Review and approve construction contractor Partial Payment Requests and submit to Consultant for payment by the County.
- Monitor schedule of construction contractor progress monthly and address areas of non-compliance with the Contract requirements.
- Perform close-out activities, which will include preparation of the final Punch List, retrieval of Record Drawing information, conduction substantial and final inspections, processing final payment application, and archiving of the project records.

Assumptions:

- RPR will provide observation services based on 40-hours per week for a duration of 6 months.
- Materials testing and specialty inspections (such as soil testing and compaction testing,) are not included in this scope of services.

Deliverables:

- Recommendations of Partial Payment Requests by the construction contractor.
- Preparation of final deficiency list ("Punch List").
- Selected photographs chronologically sequencing the progress of construction.

Schedule

Final Design of the TA-50 Transmission Main Relocation will be completed within 4.5 months of Notice to Proceed. Bidding Phase services will be completed 2 months after completion of the Final Design. Construction Phase Services and Construction Observation will be completed 6 months after construction on the project begins.



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Compensation for Services

The total fee for these services is **\$298,152**, excluding NMGR. The fee is broken out as follows:

- Design Phase Services (includes Survey and Geotechnical Services) –Lump Sum Fee of \$117,617.
- Bidding Phase Services – Lump Sum Fee of \$8,670.
- Construction Phase Services– Lump Sum Fee of \$38,790.
- Construction Observation (RPR) – Time and Materials not to Exceed \$133,075.

The attached spreadsheet provides a detailed breakdown of the manhours, direct costs, and subcontracted services associated with each task. We have also provided the cost proposals from our subconsultants for this project.

If you have any questions or comments regarding this scope of work and fee, please call me at 505-353-3709. We look forward to working with Los Alamos County on this project.

Sincerely,

A handwritten signature in blue ink that reads "Robert A. Fowlie".

Robert A. Fowlie, PE, BCEE
Associate/Client Service Leader
CDM Smith Inc.

Los Alamos County
TA-50 Transmission Main Relocation

Tasks	Hours										Labor Totals		Other Direct Costs	Subconsultants		Total	
	Engineer in Charge	Senior Technical Specialist	Prof VI (PM)	Prof VI (PTL)	Prof II	Sr. Designer Drafter	Prof I	Cost Estimator VI	Contract Admin	Admin Assistant				Firm	Cost		
	\$255.00	\$275.00	\$165.00	\$165.00	\$110.00	\$160.00	\$95.00	\$165.00	\$110.00	\$85.00							
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	\$					
Task 1 - Project Management	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0		\$0	\$0	
Project Management	included under each task as a subtask										0	\$-					\$0
Task 2 - Survey and Geotechnical	0	0	0	0	0	20	0	0	0	0	20	\$3,200	\$0		\$35,497	\$38,697	
Topographic Survey and SUE						10					10	\$1,600		CobbFendley	\$16,927	\$18,527	
Geotechnical Exploration						10					10	\$1,600		Wood	\$18,570	\$20,170	
Task 3 - Design Phase	30	20	80	4	136	168	0	44	10	16	508	\$78,570	\$350		\$0	\$78,920	
Project Management	2		10	4					10		26	\$3,920				\$3,920	
Monthly Progress Reports/Invoicing			10								10	\$1,650				\$1,650	
Kickoff Meeting (virtual)	4		6		4						14	\$2,450				\$2,450	
Bi-Weekly Progress Meetings	4		10		20						34	\$4,870				\$4,870	
60% Design	12	12	22	0	66	90	0	25	0	8	235	\$36,455	\$350		\$0	\$36,805	
Civil			4		40	70					114	\$16,260	\$350			\$16,610	
60% Cost Estimate			4		16			25			45	\$6,545				\$6,545	
60% Specifications			2		4					8	14	\$1,450				\$1,450	
60% Design Review Workshop	4		4		6						14	\$2,340				\$2,340	
QA/QC	8	12	8			20					48	\$9,860				\$9,860	
90% Design	8	6	16	0	38	70	0	15	0	2	155	\$24,355	\$0		\$0	\$24,355	
Civil			4		22	60					86	\$12,680				\$12,680	
90% Cost Estimate			2		10			15			27	\$3,905				\$3,905	
90% Specifications			2							2	4	\$500				\$500	
90% Design Review Workshop	4		4		6						14	\$2,340				\$2,340	
QA/QC	4	6	4		10						24	\$4,930				\$4,930	
Final Design Package	0	2	6	0	8	8	0	4	0	6	34	\$4,870	\$0		\$0	\$4,870	
Prepare Bid Documents		2	2		4					4	12	\$1,660				\$1,660	
Final Design Package			2		2	8				2	14	\$2,000				\$2,000	
100% Cost Estimate			2		2			4			8	\$1,210				\$1,210	
Task 4 - Bidding Phase Services	0	2	20	2	12	16	0	0	4	2	58	\$8,670	\$0		\$0	\$8,670	
PM/Invoicing/Coordination			8	2					4		14	\$2,090				\$2,090	
Pre-Bid Meeting			4								4	\$660				\$660	
Questions, Addenda		2	2		4						8	\$1,320				\$1,320	
Bid Opening and Award			4		4						8	\$1,100				\$1,100	
Conformed Documents			2		4	16				2	24	\$3,500				\$3,500	
Task 5 - Construction Services	8	4	102	6	107	0	40	0	12	4	283	\$38,190	\$600		\$0	\$38,790	
PM/Invoicing/Coordination			24	6					12		42	\$6,270				\$6,270	
Preconstruction Meeting			3		6						9	\$1,155				\$1,155	
Progress Meetings Weekly (24)			36		24						60	\$8,580	\$300			\$8,880	
RFI's		2	4		12						18	\$2,530				\$2,530	
Change Orders			4		12						16	\$1,980				\$1,980	
Submittal Reviews		2	11		33						46	\$5,995				\$5,995	
Pay Request Reviews			4		6						10	\$1,320				\$1,320	
Site Visit	8		8		8						24	\$4,240	\$300			\$4,540	
Substantial/Final Inspections			6								6	\$990				\$990	
Record Drawings			2		6		40			4	52	\$5,130				\$5,130	
Task 6 - Construction Observation Ser	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0		\$133,075	\$133,075	
Construction Observation (6 months)											0	\$0		Spinello- DCS	\$133,075	\$133,075	
Totals	38	26	202	12	255	204	40	44	26	22	869	\$128,630	\$950		\$168,572	\$298,152	

January 10, 2022

Robert A Fowlie PE, BCEE
Associate/Client Service Leader
CDM Smith
Suite 310
6001 Indian School Road, Suite 310, Albuquerque, NM 87110

VIA E-MAIL

Re: Los Alamos County TA-50 Transmission Main Relocation

Dear Mr. Fowlie:

Cobb, Fendley & Associates, Inc. (CobbFendley) is pleased to provide this proposal for the professional services associated with the project referenced above. The proposed Scope of Services and Basis of Compensation are outlined below.

SCOPE OF SERVICES

SURVEY

CobbFendley will establish project control utilizing "Trimble Now" VRS network or survey control provided by CDM Smith. Following validation and field verification of the control network, CobbFendley will collect topographic survey information on approximately 2,500' of Pajarito Road.

GPS Control Surveys:

- Set and survey a minimum of 3 permanent control points utilizing GPS static techniques along the project corridor. The new control points will be tied to Los Alamos County Geodetic Control and/or existing N.G.S. geodetic control monuments. All surveyed points will be field checked for quality assurance prior to commencing subsequent surveying activities.

Deliverables will consist of a detailed survey report PDF and certified PDF's and hard copies of the Survey Control Map.

Topographic Survey:

Location and topographic surveys will be conducted in which all pertinent features will be surveyed as described by CDM Smith. Features to be surveyed will include existing planimetrics within the project area and will include curb and gutter, lip of gutter, edge of pavement, fences, walls, breaklines along with visible utilities with invert and pipe sizes, designated utilities to be marked by LANL, and any other pertinent features within the project area. The data will be collected sufficiently to generate mapping at a 1-foot contour interval.

Fee for these services = \$8,789.20 Plus Applicable Taxes

Deliverables will consist of the following:

- Ascii point files in Local Project Surface Coordinates (NAD 83/NAVD 88)
- Copies of all field sketches and digital photographs
- AutoCAD Civil 3D 2018 drawing

Easement Exhibit and Legal Description

CobbFendley will research plat and deed information at the Los Alamos County Assessors and Clerks offices and obtain current vesting documents, plats and/or deeds. Field crews will commence to the site to search for property corners and evidence of occupancy. Field data will then be analyzed to determine the boundary of the parcel. Easement exhibits and legal descriptions will then be developed. CobbFendley will prepare one (1) new easement.

Deliverables will consist of the following:

one (1) Certified legal exhibit and legal description adhering to the Minimum Standards for surveying in New Mexico.

Lump Sum fee per easement = \$3,554.80 plus NMGR

Pothole Survey

Once potholes are complete (by others) CobbFendley will mobilize and survey pothole information. Our assumption is two mobilization and two days of field work.

Lump Sum fee per pothole survey= \$3,057.36 plus NMGR

TOTAL ESTIMATED VALUE OF THIS PROPOSAL (before NMGR) IS \$16,927.04

If this summary is acceptable, please forward an authorization to proceed. If you have any questions or comments, please do not hesitate to contact me.

Sincerely,

COBB, FENDLEY & ASSOCIATES, INC.

A handwritten signature in blue ink that reads "Bobby Ontey".

Survey Department Manager
Principal



8519 Jefferson Street N.E.
Albuquerque, New Mexico 87113
T: 505-821-1801
www.woodplc.com

January 20, 2022
Wood Proposal No. PF22-0102

CDM Smith
6001 Indian School Road NE
Suite 310
Albuquerque, NM 87110

Attention: Mr. Robert Fowlie, PE, BCEE,

**RE: GEOTECHNICAL INVESTIGATION AND REPORTING SERVICES
TA-50 WATER TRANSMISSION MAIN RELOCATION
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO**

Mr. Fowlie,

Wood is pleased to submit this proposal and cost estimate for the Water Transmission Main Relocation project at TA-50 in Los Alamos National Laboratory (LANL), Los Alamos, New Mexico. We have reviewed the solicitation including the documents provided. We understand the overall project is to complete a geotechnical investigation to determine site design parameters required to support design and relocation of the water main through TA-50.

Based on our experience with LANL, the subcontractor submittal requirements consist of training and badging for Wood and our subcontractors and submittal of an Integrated Work Document (IWD). We assume that a site-specific ES&H Plan will not be required, and that Wood's corporate ES&H Plan will be acceptable for this project. We also assume that Wood's Quality Management Program, dated January 2015 (revision 1) and the LANL audit and our IESL listing will be acceptable.

We have provided a detailed cost estimate that is broken down at the task level. For this project, the scope of work has been broken down into five separate Tasks for the purpose of estimating costs. Details related to the scope for each Task are provided below. Based on our communications regarding the project, we understand that the planned depth for the transmission line is between 4 to 10 feet below existing grade.

Task 1: Training, Badging, and IWD

Wood will liaise with the project Subcontractor Technical Representative (STR) to obtain the training for project personnel, badges for subcontractors, and badges for one Wood staff that will be required to be on site to support this project. Wood staff and subcontractors will be required to be present at the LANL facility to obtain badges and required training. Facility specific training will be conducted by Wood and subcontract personnel supporting this Task Order.

In summary, we have assumed project does not include the following:

- Project-specific ES&H Plan
- Project-specific QA Plan
- Project-specific Operations Security Plan



- Project permitting
- Geotechnical Investigation Plan (GIP)

Task 2 and 3: Geotechnical Field Exploration

Wood will drill three (3) exploratory borings by hollow-stem auger methods to approximate depths of fifteen (15) feet. We understand that if auger refusal material is encountered, drilling will be terminated. A truck-mounted drill will be used to advance each boring.

Wood will sample and perform standard penetration tests at depths of 0.5 feet, 2.5 feet, 5.0 feet, 7.5 feet, 10.0 feet, and 15 feet, in each boring. If soft or loose soils are encountered, we will obtain relatively undisturbed samples. Penetration resistance and samples will be obtained by the Standard Penetration Test (ASTM 01586) or 3-inch outer diameter (O.D.) drive samplers. Wood will perform laboratory tests as necessary to verify visual classifications made in the field and to evaluate engineering properties that may influence project performance. The laboratory testing will be performed at the Wood Albuquerque Materials testing facility. The Albuquerque laboratory is Nuclear Quality Assurance-1 (NQA-1) qualified and has been audited by LANL to support this contract. Actual types and quantities of tests performed depend upon subsurface conditions encountered and specific design requirements.

Enviro-Drill (EDI) will provide a CME-75 High Torque (HT) drill rig and a two-man crew. The drill rig will be equipped with 7-5/8" O.D. continuous flight, hollow stem auger and an HQ-3 Wireline Coring System. Auger cuttings will be used to backfill each boring upon completion. Cement/bentonite grout, concrete, bentonite chips, etc. are not included, but can be provided as an additional scope of work if required for boring abandonment. No surface depression will be visible, and all borings will be backfilled and compacted.

Based on the scope of services, we estimate one working day for utility locate and staking/marketing boring locations. We also estimate that drilling operations will take a total of one (1) working day including mobilization/demobilization to complete the three (3) borings. Reasonable allowance will be made for working with LANL personnel, but we have assumed that our drilling subcontractor will be able to conduct their work unhindered.

Wood will request escort services when drilling is to be conducted in secured areas. Cost of escort services is not included in the proposal.

Task 4: Laboratory Testing and Sample Logistics

Laboratory testing will be conducted at the Wood laboratory in Albuquerque on selected soil and rock core samples to obtain engineering properties to help characterize the subsurface. Moisture content analysis will be performed on all recovered soil samples. Sieve analysis, Atterberg limits test, unit weight tests, direct shear tests, and unconfined compression tests will be performed on selected samples. The table below presents our proposed testing schedule.

Laboratory Tests	ASTM Standard
Moisture Content	D2216
Density	D2937
Sieve Analysis	C136 & C117
Atterberg Limits	D4318
Modified Proctor	D1557
Soil Corrosivity Testing	n/a

This task does not include efforts of returning all soil and rock samples to the site. Upon request, Wood will charge an additional 8 man-hours to return samples after testing. Otherwise, Wood will store soil samples at our facility for 30 days then discard them.

Task 5: Geotechnical Investigation Report

Wood will prepare a Geotechnical Investigation Report presenting the results of exploratory drilling, laboratory testing, and engineering analyses.

The final report will include the following:

- Logs of the test borings, a site plan showing their locations, and a description of procedures and equipment used during subsurface exploration.
- Notes on pavement thicknesses, if applicable.
- Results of laboratory tests and a description of test methods.
- A description of the geotechnical profile and depth to groundwater, if encountered, beneath the site.
- Recommendations for subgrade preparation, fill construction and special site treatments.
- Description of groundwater and bedrock depths, if encountered
- Recommendations for utility installation by open-cut excavation techniques
- Recommendations for bedding and backfilling utilities
- Site preparation/earthwork recommendations
- Lateral earth pressures
- Drainage recommendations

Should subsurface exploration or laboratory testing reveal unexpected conditions, recommendations for additional work will be provided, upon review of the data by our project engineer.

PROJECT MANAGEMENT

Wood has allocated a total of 16 hours of effort for project management including procurement of subcontractors, tracking project man-hours and fees, responding to LANL requests, management of labor, and invoicing.

MILESTONE SCHEDULE

The table below presents estimated durations and project milestones. Please note duration is in terms of working days.

Subcontract Milestones	Calendar Days from NTP
Notice to Proceed	0
Submit IWD/Utility locate	7
Complete Field Exploration	1
Complete Laboratory Testing	28
Submit Geotechnical Investigation Reports	14
Total Duration	Fifty days

NOTE: The Milestone Schedule is tied to Notice to Proceed.

FEES

Wood understands that this project will be billed on a firm fixed fee, as detailed in this proposal, and cost estimate. The rates used to develop the fee are in accordance with the unit rates detailed in our MTOA contract. New Mexico Gross Receipts Tax is not included and will not be added if a NTCC is provided. Wood has developed the cost estimate for this project using the MTOA contract rates for non-NQA projects. We have estimated the follow fees for each task:

Task	Description	Lump Sum Price
1	Training, Badging, and IWD	\$ 2,600.00
2	Borehole Drilling	\$ 3,830.00
3	Site Investigations	\$ 2,610.00
4	Laboratory Testing	\$ 3,010.00
5	Geotechnical Investigation Report and	\$ 3,920.00
	Project Management	\$ 2,600.00
	Total Cost for TA-50	\$ 18,570.00

WARRANTY

Our professional services will be performed, our findings obtained, and our recommendations prepared in accordance with generally accepted engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied.

ACCEPTANCE

Acceptance of this proposal can be indicated by providing Wood with a Notice to Proceed as per our MTOA contract terms and conditions. Please be advised that this proposal will remain valid for the period of ninety (90) days from the date of this offer.

Should you have questions concerning this proposal, we would appreciate the opportunity to discuss them with you. We greatly appreciate your consideration of our firm for the geotechnical services required for this project.

Respectfully submitted,

**Wood Environment &
Infrastructure Solutions, Inc.**



Azupuri Kaba, Ph.D., P.E., P.M.P.
Geotechnical Engineer

Reviewed by:



Eric Pease, Ph.D., P.E.
Associate Geotechnical Engineer

AK:EP

c: Addressee (2)

January 12, 2022

PAGE 1 OF 2

CDM SMITH/RAY DE LA VEGA, PE,
6001 Indian School Rd NE – Suite 310
Albuquerque, NM. 87110

PROJECT: LOS ALAMOS COUNTY-LANL (TA-50) – 16" TRANSMISSION MAIN
CONSTRUCTION ADMIN-OBSERVATION SERVICES

ONSITE FULL TIME 154 CAL DAYS (SUBST. COMPLETION) – 180 CAL DAYS (FINAL COMPLETION)

Mr. De La Vega,

SPINELLO-DCS, LLC, (S-DCS) **is pleased to provide CDM SMITH** with this Proposal on this Project, providing construction admin & observation services. Thank you for the opportunity to be of services.

SCOPE OF BASIC SERVICES:

(S-DCS) anticipated Scope of Services as follows: (Not limited too)

- + Provide Construction Observation Services **FULL TIME: 6 Mo's BASIS**, coordinating with the Project Team.
- + Review Construction Documents and Contractor Schedules.
- + Attendance @ the Pre-Construction Conference.
- + Conduct Weekly Progress Meetings.
- + Prepare 'Real-Time' Daily Field Reports w/Photos (DFRs) & distributed via e-mail to the Project Team daily – powered by NOTE-VAULT.
- + Verify that field Material Testing (by others) is per construction documents and specifications.
- + Review Change Orders prepared by Contractor, make recommendation to Project Engineer/Owner.
- + Review and make recommendation of Contractor Pay Applications.
- + Project coordination with Owner, Design Engineer & Contractor; as necessary throughout project completion.
- + Setup all Final Inspections with the Project Team.
- + Prepare Punch List.
- + Verify Punch List Items have been completed.
- + Prepare & submit any required Close-out Packages.

PROFESSIONAL TEAM:

- + Jim Spinello has over 40 years of Diversified Construction Services; working with several large and small Agencies within the region, providing these services. Onsite as much as needed to assure continuity & Field Tech Management. Attend Pre-Const. Conf. & Progress Meetings.
- + (S-DCS) also has several diversified Field Technicians to assign on awarded projects pending on timing, complexity of projects.
- + (S-DCS) shall introduce the assigned Project Team at the Pre-Construction Conference.

We **THANK YOU** for this opportunity to serve **CDM SMITH** and will strive to protect the Owner's Investment. Should there be any questions regarding (S-DCS) Project Team or this proposal, please do not hesitate to contact me.

PO BOX 21956
ALBUQUERQUE, NM 87154-1956

www.spinellodcs.com

CELL 505.252.3292
spinellopartnership@gmail.com

SPINELLO-DCS, LLC

DIVERSIFIED CONSTRUCTION SERVICES...

Respectfully,
SPINELLO-DCS, LLC
Jim Spinello
Jim Spinello, CET- President

PAGE 2 OF 2

COMPENSATION:

An Agreement for the Provision of Professional Services

Professional Firm:

SPINELLO – DCS, LLC (S-DCS)
PO Box 21956
Albuquerque, NM 87154-1956

Client:

CDM SMITH
6001 Indian School Rd NE – Suite 310
Albuquerque, NM 87110

(S-DCS) is basing this **Time & Material - Not to Exceed (T&M-NTE) Fee** on the Infrastructure Improvements **FT: 5 Mo's @ 40hrs-Wk / PT: 1 Mo's @ 20hrs-Wk** (5 Mo's Const. Duration – 30 Cal Days Close-out) which includes: Close-out Packages-Incidentals and Mileage. Does not include NMGR (Unless NTTC), as follows:

SPINELLO-DCS, LLC– COST (PLEASE REFER TO SCHEDULE OF SERVICES):	\$ 110,100.00
CLOSE-OUT PACKAGES:	\$ 4,125.00
<u>MILEAGE / REPRODUCTION:</u>	<u>\$ 18,850.00</u>
TOTAL TEAM SPINELLO-DCS, LLC:	\$133,075.00

T&M-NTE FEE: Using the procedures set forth, Owner shall pay **SPINELLO-DCS, LLC a Grand Total Estimated T&M-NTE Fee amount of:** ONE Hundred THIRTY-THREE Thousand, SEVENTY-FIVE Dollars. Not including NMGR). Unless issued an NTTC.

(S-DCS) proposes to invoice this project monthly, on a (T&M-NTE) basis for these services. We are basing our fee on construction duration of (26-weeks), starting from the issued Notice to Proceed (NTP).

Should the contractor exceed 26 weeks from the NTP – if approved (S-DCS) shall propose additional fees and continue providing listed Services.

Should there be any questions regarding (S-DCS) Project Team or this proposal, please do not hesitate to contact me.

Accepted this ____ day of 2022.

For:

SPINELLO-DCS, LLC

For:

CDM SMITH

Signature

JIM SPINELLO
Name

PRESIDENT
Title

Signature

Name

Title

PO BOX 21956
ALBUQUERQUE, NM 87154-1956

www.spinellodcs.com

CELL 505.252.3292
spinellopartnership@gmail.com

SPINELLO - DCS, LLC**DIVERSIFIED CONSTRUCTION SERVICES...****SCHEDULE OF SERVICES****LA COUNTY-LANL (TA-50) - 16" TRANSMISSION MAIN****CONST ADMIN-OBSERVATION SERVICES**

1.12.2022

ONSITE FULL-TIME SERVICES:**154 CAL DAYS (SUBSTANTIAL COMPLETION) - 180 CAL DAYS (FINAL COMPLETION)****Pre Construction Services (REVIEW PLANS/SPECS & PRE-CONST CONFERENCE)**

	Hrly Rate	Est. Hours	Estimated Amount
Const Serv. Mgr.	\$135.00	8	\$1,080.00
Field Technician	\$95.00	8	\$760.00
Administrative	\$45.00	0	\$0.00
			\$1,840.00

Time Spent During Construction (5 Mo's./22 Wk's Construction Duration)

	Hrly Rate	Est Hours	Estimated Amount
Const Services Manager (8 HRS-WK)	\$135.00	176	\$23,760.00
Field Technician (40 HRS WK)	\$95.00	880	\$83,600.00
Administrative	\$45.00	20	\$900.00
			\$108,260.00

Record Drawings/Final Inspections/Closeout

	Hrly Rate	Est. Hours	Estimated Amount
Const Services Manager	\$135.00	15	\$2,025.00
Field Technician	\$95.00	15	\$1,425.00
Administrative	\$45.00	15	\$675.00
			\$4,125.00

Incidentals/Mileage **

	Per Diem	Est. Weeks	Estimated Amount
Const Services Manager	\$125.00	26	\$3,250.00
Field Technician	\$600.00	26	\$15,600.00
Administrative	\$0.00	26	\$0.00
			\$18,850.00

TEAM SPINELLO - DCS, LLC.**\$133,075.00****OVERTIME RATES**

	Hrly Rate
Const Services Manager	\$200.00
Field Technician	\$140.00
Administrative	\$65.00

** Assuming 200 miles /per day @ a rate of:
\$.55cents/per mi. = \$110/day.
Actual current rate is \$.58.5cents /per mi.

Meals (lunch for FieldTech) assumed
\$10.00/per day & only \$15.00/per wk for
Const Mgr & Client.

Budget Revision 2022-46

BPU Meeting date: 02/16/2022

Council Meeting Date: 02/22/2022

	Fund & Department	Org	Object	Revenue (decrease)	Expenditures (decrease)	Transfers In(Out)	Fund Balance (decrease)
	Joint Utilities Fund - Water Production	54285695	4389	\$ 379,954			\$ 379,954
	Joint Utilities Fund - Water Production	54285699	8369		\$ 379,954		\$ (379,954)
	Net impact on the Joint Utilities Fund						\$ -
Description: The purpose of this budget revision is to recognize revenue and spending authority for the TA-50 16" Waterline Re-Route under the Pajarito Road project							
Fiscal Impact: The net impact the Joint Utilities Fund is zero							

Monther Jubran

2/7/2022

Preparer

Date

Monther Jubran

Budget & Performance Manager



County of Los Alamos

Staff Report

February 16, 2022

Los Alamos, NM 87544
www.losalamosnm.us

Agenda No.:	8.
Index (Council Goals):	DPU FY2021 - 3.0 Be a Customer Service Oriented Organization that is Communicative, Efficient, and Transparent
Presenters:	Philo Shelton, Utilities Manager
Legislative File:	15209-21

Title

Monthly 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 Receivable Report
- C - Safety Report

STATUS REPORTS

ELECTRIC RELIABILITY

PREPARED BY

Stephen Marez
Electrical Engineering Manager

Twelve Month History	JANUARY 2022	
Total # Accounts	9045	
Total # Interruptions	42	
Sum Customer Interruption Durations	26564:00	hours:min
# Customers Interrupted	19844	
SAIFI (APPA AVG. = 1.0)	2.19	int./cust.
SAIDI (APPA AVG. = 1:00)	2:56	hours:min
CAIDI	1.20	hours:min/INT
ASAI	99.9986%	% 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)

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

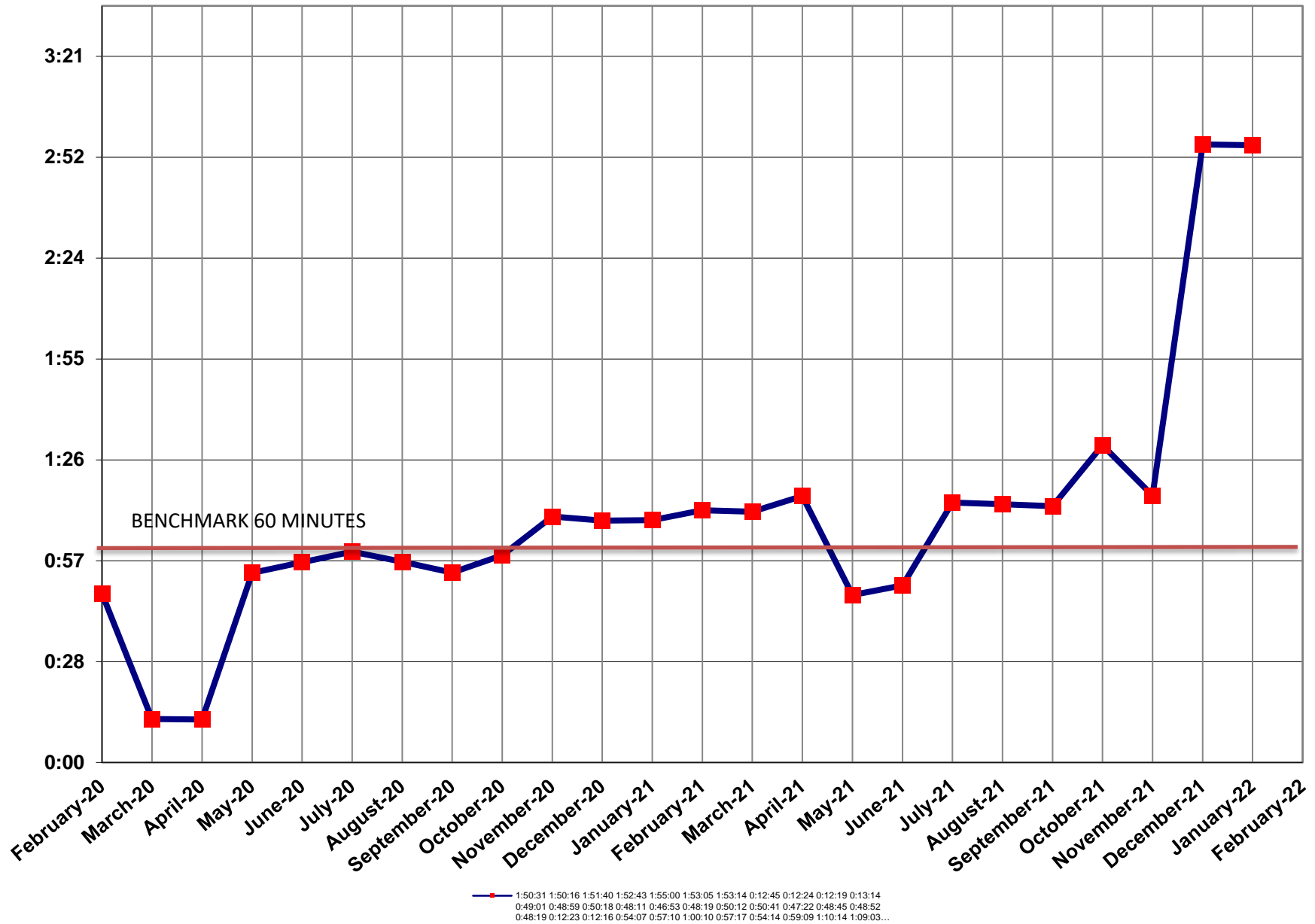
**Electric Distribution Reliability Study
Twelve Month Outage History**

<u>Date</u>	<u>Call Rcd.</u>	<u>Circuit</u>	<u>Cause</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration</u>	<u>Customers Affected (Meters)</u>	<u>Combined Customer Outage Durations</u>	<u>Total Outage H:M:S</u>	<u>Running SAIDI</u>
2/2/2021	Utilities	15	ANIMAL	6:30	7:15	0:45	200	150:00:00	150:00:00	0:01:00
2/4/2021	Utilities	16	URD Failure	0:00	5:00	5:00	69	345:00:00	495:00:00	0:03:17
2/5/2021	Utilites	EA-4	OH Failure	21:45	22:30	0:45	10	7:30:00	502:30:00	0:03:20
2/25/2021	Utilites	14	URD Failure	8:30	11:30	3:00	1	3:00:00	505:30:00	0:03:21
4/21/2021	Utilites	14	ANIMAL	21:23	22:38	1:15	539	673:45:00	1179:15:00	0:07:49
5/16/2021	Utilites	WR1	UNKNOWN	10:30	12:00	1:30	5	7:30:00	1186:45:00	0:07:52
5/18/2021	Utilites	14	URD Failure	16:00	19:00	3:00	2	6:00:00	1192:45:00	0:07:55
5/22/2021	Utilites	EA-4	Weather	19:30	20:30	1:00	30	30:00:00	1222:45:00	0:08:07
5/26/2021	Utilites	16	URD Failure	16:45	22:20	5:35	100	558:20:00	1781:05:00	0:11:49
5/27/2021	Utilites	WR1	Weather	14:15	15:38	1:23	1586	2193:58:00	3975:03:00	0:26:22
6/5/2021	Utilites	15	ANIMAL	23:30	0:00	0:30	270	135:00:00	4110:03:00	0:27:16
6/5/2021	Utilites	15	ANIMAL	0:00	0:30	0:30	270	135:00:00	4245:03:00	0:28:10
6/17/2021	Utilites	16	URD Failure	18:35	21:30	2:55	3	8:45:00	4253:48:00	0:28:13
6/17/2021	Utilites	WR1	URD Failure	23:45	0:00	0:15	50	12:30:00	4266:18:00	0:28:18
6/17/2021	Utilites	WR1	URD Failure	0:00	2:30	2:30	50	125:00:00	4391:18:00	0:29:08
7/6/2021	Utilites	WR2	Unknown	10:45	11:45	1:00	25	25:00:00	4416:18:00	0:29:18
7/10/2021	Utilites	WR1	TREE	22:30	0:00	1:30	10	15:00:00	4431:18:00	0:29:24
7/10/2021	Utilites	14	Unknown	11:30	15:00	14:30	3	43:30:00	4474:48:00	0:29:41
7/17/2021	Utilites	WR2	Unknown	12:30	14:30	2:00	16	32:00:00	4506:48:00	0:29:54
7/18/2021	Utilites	13	URD Failure	22:30	0:00	1:30	13	19:30:00	4526:18:00	0:30:02
7/19/2021	Utilites	13	URD Failure	0:00	5:00	5:00	13	65:00:00	4591:18:00	0:30:27
7/22/2021	Utilites	13	URD Failure	18:30	19:10	0:40	5	3:20:00	4594:38:00	0:30:29
7/30/2021	Utilites	WR1	OH Failure	16:50	19:15	2:25	1586	3832:50:00	8427:28:00	0:55:54
8/25/2021	Utilites	WR1	URD Failure	16:30	18:30	2:00	20	40:00:00	8467:28:00	0:56:10
9/26/2021	Utilites	14	URD Failure	4:45	11:00	6:15	5	31:15:00	8498:43:00	0:56:23
9/29/2021	Utilites	16	TREE	19:45	23:40	3:55	5	19:35:00	8518:18:00	0:56:30
10/2/2021	Utilites	14	UNKNOWN	23:30	0:00	0:30	539	269:30:00	8787:48:00	0:58:18
10/2/2021	Utilities	14	UNKNOWN	0:00	1:00	1:00	539	539:00:00	9326:48:00	1:01:52
10/6/2021	Utilites	16	URD Failure	9:00	12:30	3:30	41	143:30:00	9470:18:00	1:02:49
10/13/2021	Utilites	16	URD Failure	17:00	21:00	4:00	50	200:00:00	9670:18:00	1:04:09
10/18/2021	Utilites	16	URD Failure	10:20	11:20	1:00	55	55:00:00	9725:18:00	1:04:31
10/19/2021	Utilites	14	URD Failure	2:23	6:00	3:37	19	68:43:00	9794:01:00	1:04:58
10/25/2021	Utilites	15	URD Failure	2:50	3:50	1:00	1564	1564:00:00	11358:01:00	1:15:21
10/25/2021	Utilites	15	URD Failure	2:50	3:50	1:00	47	47:00:00	11405:01:00	1:15:39
11/29/2021	Utilites	16	OH Failure	3:59	4:55	0:56	17	15:52:00	11420:53:00	1:15:46
12/15/2021	Utilites	14, 17, 18	WEATHER	6:30	8:30	2:00	2594	5188:00:00	16608:53:00	1:50:11
12/15/2021	Utilites	13	WEATHER	6:30	9:20	2:50	1655	4689:10:00	21298:03:00	2:21:17
12/15/2021	Utilites	TOWNSITE	WEATHER	15:23	15:32	0:09	4249	637:21:00	21935:24:00	2:25:31
12/15/2021	Utilites	13, SKI HILL	WEATHER	6:30	16:43	10:13	35	357:35:00	22292:59:00	2:27:53
12/22/2021	Utilites	13	URD Failure	6:30	8:40	2:10	1655	3585:50:00	25878:49:00	2:51:40
12/28/2021	Utilites	17	URD Failure	1:30	2:45	1:15	57	71:15:00	25950:04:00	2:52:08
1/1/2022	Utilites	16	WEATHER	16:50	17:10	0:20	1842	614:00:00	26564:04:00	2:56:13

CIRCUIT SAIDI IS CALCULATED ACCORDING TO THE NUMBER OF CUSTOMERS IN EACH CIRCUIT RESPECTIVELY

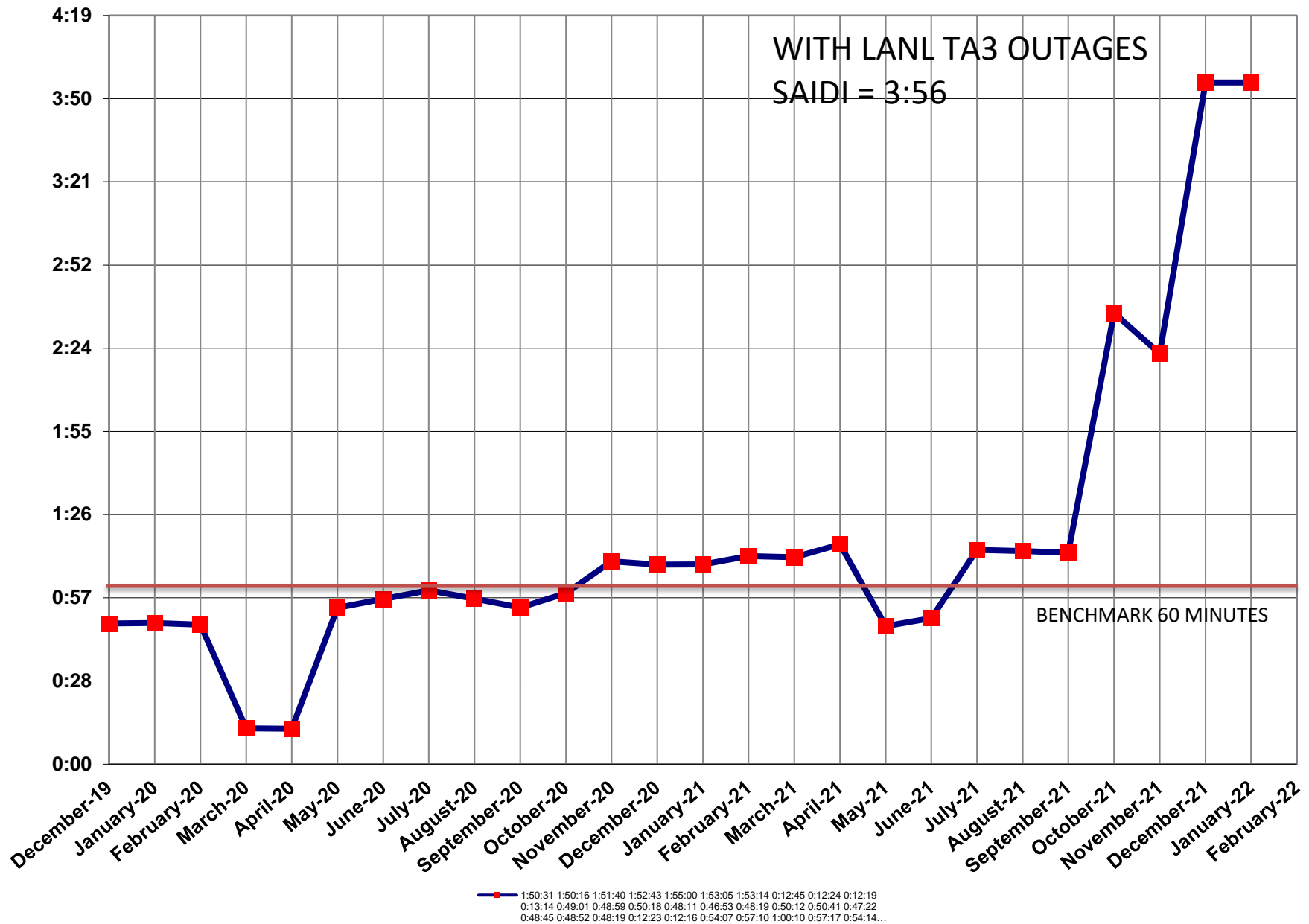
<u>Running SAIDI Circuit 13</u>	<u>Running SAIDI Circuit 14</u>	<u>Running SAIDI Circuit 15</u>	<u>Running SAIDI Circuit 16</u>	<u>Running SAIDI Circuit 17</u>	<u>Running SAIDI Circuit 18</u>	<u>Running SAIDI Circuit EA4 & Royal Crest</u>	<u>Running SAIDI Circuit WR1</u>	<u>Running SAIDI Circuit WR2</u>	<u>Monthly SAIDI</u>		<u>Monthly Customer Minutes out of service</u>	<u>WEATHER SAIDI</u>
		0:04:48										
			0:11:14			0:02:44						
	0:00:20								FEB	0:03:21	505:30:00	
	1:15:00								APR	0:04:28	673:45:00	
							0:00:17					
	0:00:40					0:10:55						0:00:12
			0:18:11				1:23:00		MAY	0:18:33	2795:48:00	0:14:33
		0:04:19										
		0:04:19										
			0:00:17									
							0:00:28					
							0:04:44		JUN	0:02:46	416:15:00	
								0:01:34				
							0:00:34					
	0:04:51						0:02:00					
0:00:42												
0:02:21												
0:00:07												
							3:59:18		JUL	0:26:46	4036:10:00	
							0:02:30		AUG	0:00:16	40:00:00	
	0:03:29								SEP	0:00:20	50:50:00	
			0:00:38									
	0:30:00											
	1:00:00											
			0:04:40									
			0:06:31									
	0:07:39											
		0:50:03										
		0:01:30							OCT	0:19:09	2886:43:00	
			0:00:31						NOV	0:00:06	2633:05:00	
	9:37:31			24:49:23	24:21:25					0:34:25		
2:50:00										0:31:06		
0:23:06	1:10:57	0:20:24	0:20:46	3:02:58	2:59:32					0:04:14		
0:12:58										0:02:22		
2:10:00										0:23:47		
					0:20:27					0:00:28		
			0:20:00						DEC	0:04:04	15143:11:00	
												1:16:12
5:39:15	13:50:26	1:25:23	1:22:49	3:52:21	3:41:24	0:13:38	5:32:51	0:01:34	Total	2:56:13		1:30:57
1655	539	1875	1842	209	213	165	1586	961	9045			

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

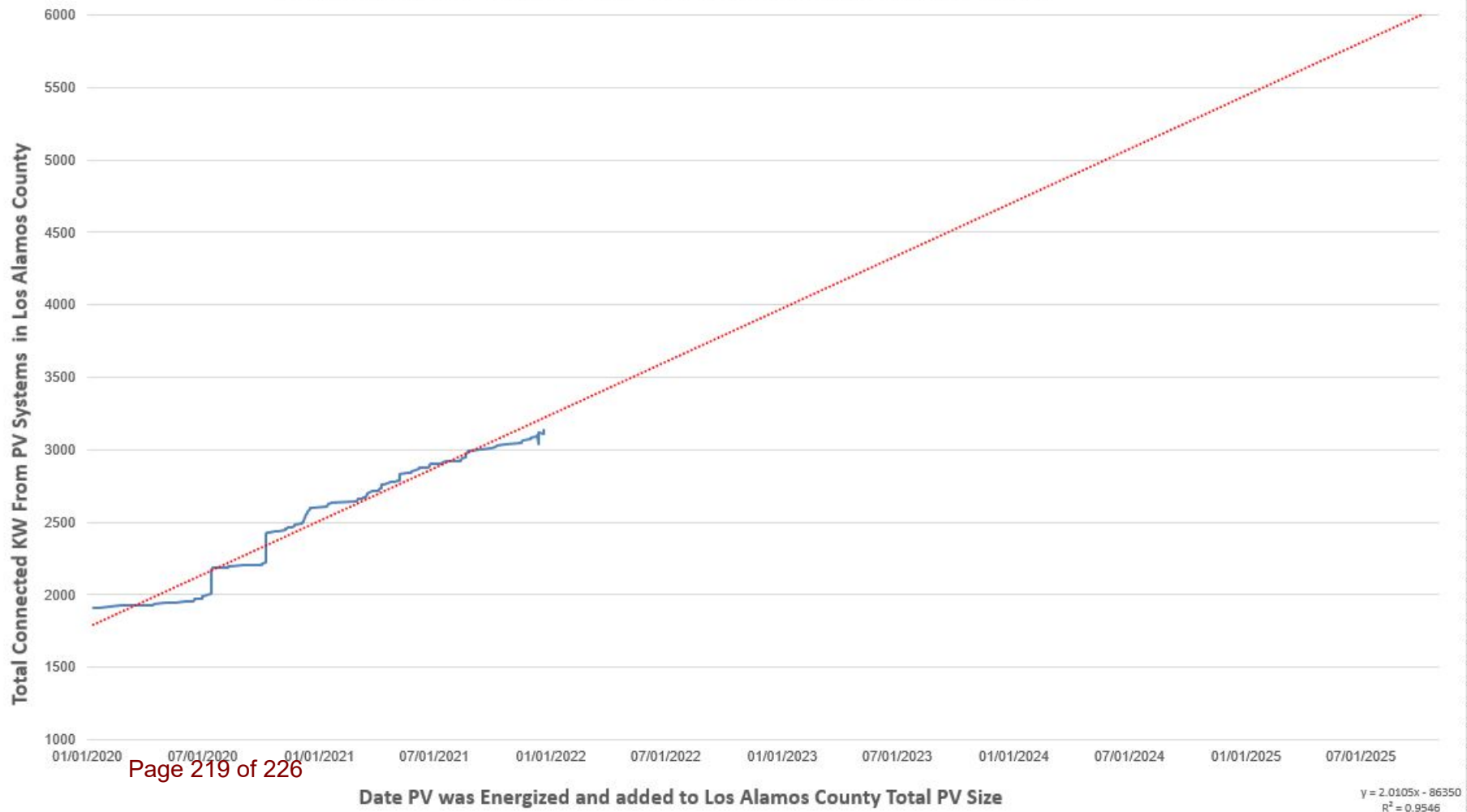


EACH POINT IS A 12 MONTH SAIDI HISTORY
1:00 = APPA BENCHMARK SAIDI

WITH LANL TA3 OUTAGES
SAIDI = 3:56



Projected Date for 6 MW of Connected Solar Power In Los Alamos County



STATUS REPORTS

ACCOUNTS RECEIVABLES

PREPARED BY

Joann Gentry
Senior Management Analyst

Los Alamos County Utilities Department
Active Receivables Over 90 Days Past Due
February 1, 2022

Account	Customer ID	Acct Type	Comments	90 - 119	120 +
3004769	2015209	RS	Inactive Transfer in January 2022	\$ 102.41	\$ -
3003818	2066808	RS	Letter mailed 2/7/2022	\$ 122.44	\$ -
3000068	2113668	RS	Letter mailed 2/7/2022	\$ 129.30	\$ -
3004773	2201749	RS	Letter mailed 2/7/2022	\$ 130.62	\$ -
3002406	2050708	RS	Letter mailed 2/7/2022	\$ 133.05	\$ -
3008877	2099918	RS	Letter mailed 2/7/2022	\$ 144.28	\$ -
3001123	2087798	RS	Letter mailed 2/7/2022	\$ 165.43	\$ -
3001762	2214966	CM	Letter mailed 2/7/2022	\$ 171.86	\$ -
3004109	2216012	RS	Letter mailed 2/7/2022	\$ 181.18	\$ -
3002627	2216243	RS	Letter mailed 2/7/2022	\$ 194.08	\$ -
3006092	2062068	RS	Letter mailed 2/7/2022	\$ 197.52	\$ -
3003836	2214881	RS	Letter mailed 2/7/2022	\$ 211.60	\$ -
3000529	2215648	RS	Letter mailed 2/7/2022	\$ 223.76	\$ -
3005233	2112888	RS	Letter mailed 2/7/2022	\$ 227.57	\$ -
3003029	2132038	RS	Inactive Transfer in January 2022	\$ 273.26	\$ -
3002375	2127058	RS	Letter mailed 2/7/2022	\$ 310.79	\$ -
3002054	2111168	RS	Inactive Transfer in January 2022	\$ 429.07	\$ -
3007360	2015299	RS	Letter mailed 2/7/2022	\$ 350.83	\$ 22.41
3004918	2214789	RS	Inactive Transfer in January 2022	\$ 185.39	\$ 28.83
3005470	2017719	RS	Letter mailed 2/7/2022	\$ -	\$ 100.06
3008001	2130388	RS	Inactive Transfer in January 2022	\$ -	\$ 111.52
3007816	2077078	RS	Inactive Transfer in January 2022	\$ -	\$ 148.20
3000204	2135978	RS	Inactive Transfer in January 2022	\$ -	\$ 156.02
3007167	2072008	RS	Inactive Transfer in January 2022	\$ -	\$ 171.82
3009113	2095778	RS	Inactive Transfer in January 2022	\$ -	\$ 177.15
3003969	2012357	RS	Letter mailed 2/7/2022	\$ 133.17	\$ 195.23
3005129	2122668	RS	Inactive Transfer in January 2022	\$ -	\$ 236.79
3003262	2108328	RS	Inactive Transfer in January 2022	\$ -	\$ 263.38
3005363	2209480	RS	Letter mailed 2/7/2022	\$ -	\$ 292.44
3004068	2089788	RS	Letter mailed 2/7/2022	\$ -	\$ 310.39
3007256	2022141	RS	Letter mailed 2/7/2022	\$ -	\$ 330.75
3007572	2202074	RS	Inactive Transfer in January 2022	\$ -	\$ 362.63
3004329	2069558	RS	Letter mailed 2/7/2022	\$ 172.63	\$ 378.22
3002813	2008249	RS	Inactive Transfer in January 2022	\$ 304.88	\$ 381.89
3005245	2200028	RS	Inactive Transfer in January 2022	\$ -	\$ 407.87
3007149	2216022	RS	Inactive Transfer in January 2022	\$ -	\$ 462.05
3007012	2029108	CM	Letter mailed 2/7/2022	\$ -	\$ 500.77
3003824	2200179	RS	Inactive Transfer in January 2022	\$ -	\$ 515.38
3004798	2215921	RS	Inactive Transfer in January 2022	\$ -	\$ 622.74
3005737	2028518	RS	Letter mailed 2/7/2022	\$ 279.19	\$ 660.38
3006285	2215406	RS	Inactive Transfer in January 2022	\$ -	\$ 674.70
3006513	2036208	RS	Letter mailed 2/7/2022	\$ 284.74	\$ 1,386.22
3002801	2112548	RS	Letter mailed 2/7/2022	\$ -	\$ 1,609.62
3004060	2085918	RS	Letter mailed 2/7/2022	\$ 135.04	\$ 1,700.89
				\$ 5,194.09	\$ 12,208.35
44 Accounts					\$ 17,402.44

Los Alamos County Utilities Department
Receivables More than 60 Days Inactive Accounts
February 1, 2022

YEAR	OUTSTANDING 2/1	# OF ACCOUNTS	OUTSTANDING 1/3	# OF ACCOUNTS
FY18	\$ 17,115.20	86	\$ 17,115.20	86
FY19	\$ 48,807.53	170	\$ 51,234.60	185
FY20	\$ 41,122.20	155	\$ 45,385.37	181
FY21	\$ 48,358.47	277	\$ 54,536.52	317
FY22	\$ 11,191.27	171	\$ 13,368.53	159
TOTAL	\$ 166,594.67	859	\$ 181,640.22	928

YEAR	Account Type	OUTSTANDING 2/1	# OF ACCOUNTS	OUTSTANDING 1/3	# OF ACCOUNTS
FY18	Residential	\$ 11,967.46	79	\$ 11,967.46	79
	Commercial	\$ 5,147.74	7	\$ 5,147.74	7
FY19	Residential	\$ 46,227.19	152	\$ 48,654.26	167
	Commercial	\$ 2,580.34	18	\$ 2,580.34	18
FY20	Residential	\$ 33,406.16	146	\$ 37,580.35	170
	Commercial	\$ 7,716.04	9	\$ 7,805.02	10
FY21	Residential	\$ 38,608.71	260	\$ 44,239.70	300
	Commercial	\$ 9,749.76	17	\$ 10,296.82	18
FY22	Residential	\$ 10,934.57	168	\$ 13,439.49	155
	Commercial	\$ 256.70	3	\$ 1,741.12	2
TOTAL		\$ 166,594.67	859	\$ 183,452.30	926

STATUS REPORTS

Risk & Safety

PREPARED BY

Steve Klepeis
Risk Manager

DEPARTMENT OF PUBLIC UTILITIES CLAIMS

Information Provided by the County Risk Manager

YEAR	REPORT MONTH	BPU MTG DATE	TORT CLAIMS	WORKERS COMP	PROPERTY DAMAGE
2022	JAN	2/16/2022	There were no Utilities related tort claims filed with regard to any January incidents.	An Electrical Distribution employee slipped and fell on parking lot ice; currently working with restrictions.	A GWS employee backing into space lost control of his personal vehicle, struck NE corner of Bldg. 5, causing significant damage. Employee provided insurance information. Risk will recover damages for the County.
2021	DEC	1/19/2022	NONE	NONE	NONE
2021	NOV	12/15/2021	NONE	NONE	NONE
2021	OCT	11/17/21	Claimant alleges furnace dame as result of replacement of gas meter.	NONE	NONE
2021	SEP	10/20/21	1. Claimant states damage to various fixtures in building new filtration system was installed 2. Claimant states gas leak to regulator caused damage to GLR-04	NONE	NONE
2021	AUG	09/15/21	NONE	NONE	NONE
2021	JUL	08/18/21	NONE	NONE	NONE
2021	JUN	07/21/21	NONE	NONE	NONE
2021	MAY	06/16/21	NONE	NONE	NONE
2021	APR	05/19/21	NONE	NONE	NONE
2021	MAR	04/21/21	NONE	NONE	NONE
2021	FEB	03/17/21	1. GWS employee backed into parked unoccupied motorist's vehicle. 2. GWS snowplow slid into motorist under icy conditions.	An ED employee slipped and fell on ice; injured right wrist/hand; able to return to work with no lost days.	A GWS employee backed into a shed at the Aquatic Center. GWS is repairing damage.
2021	JAN	02/24/21	NONE	NONE	1. A GWS employee misjudged backing clearance and backed vehicle 1113 into 1202, with minor damage. 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
2020	DEC	01/20/21	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

DEPARTMENT OF PUBLIC UTILITIES CLAIMS

Information Provided by the County Risk Manager

YEAR	REPORT MONTH	BPU MTG DATE	TORT CLAIMS	WORKERS COMP	PROPERTY DAMAGE
2020	NOV	12/16/20	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	OCT	11/18/20	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	SEP	10/21/20	NONE	A lineman fractured/lacerated his right middle finger when removing a heavy manhole cover; returned to duty same day.	NONE
2020	AUG	09/16/20	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
2020	JUL	08/19/20	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	JUN	07/15/20	A claimant experienced water damage to his residence due to a County water line leak.	Lineman lacerated his hand using a knife to splice cable (6/8/2020)	NONE
2020	MAY	06/17/20	NONE	NONE	NONE
2020	APR	05/20/20	NONE	NONE	NONE
2020	MAR	04/15/20	NONE	NONE	NONE
2020	FEB	03/18/20	NONE	NONE	NONE
2020	JAN	02/19/20	Resident incurred plumber bill; didn't know outage was due to main break.	NONE	NONE

LOS ALAMOS COUNTY - RISK MANAGEMENT

MONTH	ADMIN	EL DIST	EL PROD	GWS	WA PROD	WWTP
	Hours Worked	Hours Worked	Hours Worked	Hours Worked	Hours Worked	Hours Worked
Jan - 2022	2832.0	1385.0	1957.0	3124.0	966.0	1242.0
Feb - 2021	3492.0	1828.0	1954.0	3813.0	1181.0	1333.0
Mar - 2021	3716.0	1907.0	1961.0	3987.0	1277.0	1265.0
Apr - 2021	3722.0	1886.0	1922.0	4009.0	1313.0	1380.0
May - 2021	3653.0	1914.0	1944.0	4286.0	1268.0	1326.0
June - 2021	3638.0	1732.0	1823.0	3818.0	1299.0	1378.0
July - 2021	5803.0	2757.0	2901.0	5429.0	1924.0	2039.0
Aug - 2021	3801.0	1938.0	1850.0	4033.0	1351.0	1346.0
Sept - 2021	3474.0	1714.0	1784.0	3766.0	1281.0	1368.0
Oct - 2021	3502.0	1846.0	1896.0	3996.0	1322.0	1394.0
Nov - 2021	3220.0	1612.0	1764.0	3704.0	1192.0	1333.0
Dec - 2021	4336.0	2131.0	2935.0	5393.0	1630.0	1862.0
Total Hrs Worked ->	45189.0	22650.0	24691.0	49358.0	16004.0	17266.0
Number of Recordable Injury and Illness Cases*	0	2	0	0	0	0
OSHA Recordable Injury & Illness Incidence Rate	0.00	17.66	0.00	0.00	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

*BOTH ELECTRICAL DISTRIBUTION INJUIES SLIP AND FALL.

ONE INJURY ON 2/18/21 WAS MINOR, AND RECORD WILL BE REMOVED NEXT MONTH . SECOND HAS RESULTED IN EMPLOYEE WORKING WITH RESTRICTIONS.

INJURIES REQUIRING MEDICAL ATTENTION BEYOND FIRST AID ARE REQUIRED TO BE CONSIDERED OSHA RECORDABLE INJURIES , RETAINED IN THIS RECORD FOR 1 YEAR, REGARDLESS OF HOW MINOR THEY MAY BE.