

**NAVAJO-GALLUP WATER SUPPLY PROJECT
PROJECT CONSTRUCTION COMMITTEE MEETING NO. 63
THURSDAY, May 23, 2024, 9:00 AM
In-Person and via MS-Teams
SUMMARY**

- 1) Review and approve agenda (Reclamation)
- 2) Review February 1, 2024 PCC Meeting Summary (Reclamation)
- 3) Review of PCC Action Item List (Reclamation)
- 4) Other Related Navajo-San Juan NM Settlement Issues (BIA/Navajo Nation) – see slides
 - a. Conjunctive Groundwater Use Plan
 - b. San Juan River Navajo Irrigation Projects

CONSTRUCTION UPDATE – see slides

- 5) Pumping Plants No. 4 and 7 (Reclamation)
 - a. Pumps will be left flooded following construction and exercised monthly
- 6) Navajo Code Talkers Sublateral (Reaches 12.1/12.2) (Reclamation)
 - a. Reclamation: send to Gallup foundation preparation process/techniques and design for Black Hat Tank – over excavation, mixing, post-tensioned floor, etc.
 - b. Foundation and piping installed for future 2nd tank site at Black Hat
- 7) Pumping Plants No. 2 and 3 (Reclamation)
- 8) Block 4A/4B (Reclamation)
- 9) Reach 27.7B (Gallup)

SAN JUAN LATERAL- ISSUES / DESIGN UPDATE

- 10) S. 1898/ H.R. 3977 - Navajo-Gallup Amendments
 - a. No movement since last November
 - b. Been through Senate Committee on Indian Affairs
 - c. Still awaiting for House hearing
- 11) San Juan Lateral Intake (aka Reach 1) – Status/Schedule (Reclamation)
 - a. Temporary Pumping System
 - i. Site visit with contractors scheduled for July 15, 2024
 - ii. Award Fall 2024; Construction Fall 2024-Winter 2025
 - b. R1 Pipeline
 - i. Work to be completed after reservoir is filled with temp pumps
 - ii. Review C now planned for Aug 2024
 - iii. Award Spring 2025; Construction Summer 2025 - Summer 2026
 - c. Frank Chee Willetto Reservoir/Dam
 - i. VE Study Summer 2025
 - ii. Review C Spring 2026
 - iii. Award early 2026; Construction 2027 (approx. 1 year)
 - d. Intake Pumping Plant – see slides for additional updates
 - i. Design overview and modeling update from TSC
 - ii. Review C November 2024
 - iii. Award early 2026, Construction mid-2026-Fall 2028
 - iv. Questions from presentation:
 1. Sediment removal
 - a. Q: Are spray nozzles going to be included in case sluicing does not work?
 - b. A: Yes, there will be a pressurized water line with tie in locations for spraying down the gate and channel as necessary
 2. Power
 - a. Q: Who will provide power?
 - b. A: NTUA
 3. Risks to not modeling smaller sediments

- a. Q: What are the risks of not modeling full gradation of sedimentation
- b. A: Silts and clays will be transported and won't be seen in physical model. Most of that will likely go through the system anyway. It's unlikely there will be much silt deposition downstream of the weir. There are some smaller particles that will be transported over the weir and it will be relatively lite and easily transported. The larger material is what will likely settle out in the channel and need to be sluiced. There is also a location to sluice behind the fish weir.
- 4. Modeling effect on final design
 - a. Q: Will the modeling affect final design?
 - b. A: It could. We have a good sense of how this will work but without a physical model, you do not know for sure. There could be minor tweaks to geometry or design. The hope is those are minimal.
- 5. Design
 - a. Q: This was mostly existing, correct? How do we want to modify for our needs?
 - b. A: Yes, this was mostly existing. The existing only ever pumped at 56 cfs and we are planning on operating at 71 cfs (max the R1 pipeline can handle). Most of the changes being made are to incorporate the fish barrier weir and plan for unknown future San Juan River flows while providing for sediment reduction/and fish protection.
- 6. River modification:
 - a. Q: Any modification in the river itself?
 - b. A: No. We'll remove and replace the existing trash racks with a finer mesh than currently exists. There will also be a sluiceway gate at the entrance of the project that will be replaced. It will be fairly minor.
- 7. Trash rack:
 - a. Q: What was the final decision on the trash rack? And how is the debris going to be handled?
 - b. A: The existing one will be replaced with one with finer bar spacing (3" by 4"). There will be an additional trash rack in front of the pumping plant to protect those from debris that may end up in the sluicing channel. No proposed changes to the way PNM operated. A log boom will be installed in front of the gate and both trash racks will need to be manually raked.
- 8. Model schedule:
 - a. Q: When is the model going to be done?
 - b. A: Construction will begin soon and begin operating Dec 2024 for initial information. Sediment modeling is scheduled to be complete in Apr 2025. This is near the end of the planned design and we are looking at ways to expedite the information.
- 9. Manual raking?
 - a. Q: Will that require staff to monitor the racks all the time?
 - b. A: That was not information we received from PNM. Unlikely to be cleaned weekly...but less debris on the primary trash rack will be better. The inner-trash rack cleaning will be required less frequently.
- 10. Operations
 - a. Q: How are our operations different than PNM?
 - b. A: Water will be continuing to flow through the channel so sluicing requirements may be required less frequently.

12) Block 2-3 – Status/Schedule (Reclamation)

- a. HDD - 90% design June 2024
- b. Pipeline- 90% design August 2024
- c. ROW Final private property plat was received, and the information was sent for appraisals. ESA Phase I to be updated expected June 2024

13) SJL Pumping Plants – Status/Schedule (Reclamation)

- a. Pumping Plant #1
 - i. PIN 032 to be modified for pump number
 - ii. Design Update 90% design July 2024

iii. ROW application expected June 2024, ESA Phase I to be updated expected June 2024

14) Reach 27/Pumping Plant #8 – Status/Schedule (City of Gallup)

- a. 27.12 - 60% coming out end of June, lots of easements
- b. PP8 – 10% coming out end of June, will show how groundwater and surface water will be blended, there will be room for microturbine and any chemicals needed with the blending, total site size is 9 ac.
 - i. 150 ft of head to burn before PP8 that will be taken care of by the microturbine
 - ii. SJLWTP also considering an inline microturbine until NGWSP is fully operational

15) Tohlokai Pumping Plant

- a. Interim Groundwater Delivery from Twin Lakes Well (Navajo Nation/USBR/City of Gallup)
 - i. Backflow preventer installed at Twin Lakes
 - ii. Additional backflow prevention to be installed for Code Talker Construction
 - iii. Water to be made available to the City beginning June/July

16) Reach 14 (Indian Health Service)

- a. Reaches 14.1 and 14.2 – Status/Schedule
 - i. Potential upsizing (IHS/SMA)
 - 1. Plan on scheduling meeting with IHS, the Nation, NTUA, and SMA for early to mid-June to discuss
 - 2. IHS nearly complete addressing USBR comments
 - 3. SMA: the upsizing seems to be the preferred option. The Nation is purchasing larger pipe. SMA moving forward with PER and design work. Rerouting some of the pipeline downstream of R14.2 to get water to Thoreau.
 - ii. Reaches 14.6a, 14.7a, 14.8a – Status/Schedule
 - 1. Meeting to discuss process for Reclamation taking over design and construction scheduled for 10 am on June 21, 2024

17) BBN9 – Status/Schedule (Navajo Nation/SMA)

- a. 10.1.1 – contract w/ the Nation for approval, construction to be completed by NECA, once contract is executed then construction will be scheduled
- b. 10.2.1 – will be next design to be completed
- c. Other reaches: design work is ongoing (after pause to discuss upsizing of 14.2)
- d. There may be several BBN9 sections that will be under construction concurrently.
- e. Completion date is targeted for 2027
- f. 12.3 – not expected to be completed until 2028-2029

18) San Juan Lateral Community Connections

- a. Turnout Buildings (Reclamation)
 - i. Reclamation to build turnout buildings
 - ii. Design process will begin in 2025
- b. Community Transmission and Treatment (Navajo Nation/SMA)
 - i. Naschitti (Navajo Nation/SMA)
 - 1. SMA working on all the connection plan projects
 - 2. Navajo Nation has issued a notice of award for the Naschitti connection on May 22, 2024
 - 3. Naschitti connection is being funded by ARPA
 - ii. NTUA is making use of report by Kerry Howe outlining tasks for distribution systems to be ready for surface water blending with groundwater

CUTTER LATERAL

19) Construction and OM&R Update (Reclamation/NTUA/Navajo Nation)

- a. Operations – General
 - i. WTP production averaged 415 KGAL/DAY during the previous quarter; 2023 consumer confidence reports were issued; Liaison FAA amended to provide Reclamation assistance with IT security upgrades at Cutter and NTUA issued the Notice to Proceed for supporting IT consultants and Jacobs.
- b. Water Regulatory/Quality
 - i. Aluminum Chlorohydrate (ACH) Coagulant proposal: Jacobs received comments and final report to be delivered in approx 2 months

- ii. Recent DBP results are showing rising trend in Torreon. The running annual average is close to the MCL. In response, the GAC filters were brought on line. No blending is occurring presently. Chlorine total and free residual testing is being conducted at the turnouts for review and quarterly DBP testing is scheduled for mid-May. Early chlorine results are indicating several hundredths of a drop from the WTP to Torreon turnout.
- iii. As requested, NMED was provided DBP sampling data and locations in Cutter distribution system.
- iv. Reclamation's Technical Service Center pipe corrosion flow study design is underway to focus on SJL consecutive distribution systems. Startup is expected in early fall 2024.
- v. An invoice for the OM&R advance was issued to Reclamation for waiver period 07-Jun-2023 thru 06-Jun-2024.
- vi. NTUA – Sanitary survey due this year for the CJLWTP
- c. **Area Wide Optimization Program (AWOP) - (NTUA)**
 - i. Last quarterly meeting was postponed and rescheduling is expected.
- d. **Water Treatment & Conveyance Contract (Jicarilla/NTUA)**
 - i. Parties continue closing in on agreement. Current version was shared with Reclamation's negotiations team on 06-May-2024. JAN is currently receiving water through the project to support their construction efforts.
- e. **Jicarilla Connection Update (Jicarilla)**
 - i. Construction closeout anticipated in August.
 - ii. A service connection has been placed online to a home from the Jicarilla line
- f. **24.1 Lybrook**
 - i. Moving on to 60% design
 - ii. Draft EA submitted to USBR
- g. **Reach 21 Booster Plant (Reclamation)**
 - i. 60% Design: Delivered April 8th: 90% Design expected Oct 2024
 - ii. Tank Outflow Channel - Will depend on the operations of the drainage pipe
 - iii. Proposed New tank Drainage Outlet Channel - Need to discuss with the Design Team to determine how this will impact other aspects of the project
 - iv. Steel Wash Channel - Multiple alternatives but will try to keep solution within ROW

WATER TREATMENT

- 20) **Regulatory Coordination (Reclamation)**
 - a. **Disinfection Byproducts**
 - i. **San Juan Water System**
 1. DBP Formation vs. time curve bench-scale lab testing ongoing
 2. DBP Formation modeling by community Public Water System ongoing
 3. Coordination with NTUA and IHS underway to determine potential changes to distribution systems before SJL startup which could impact DBP formation and compliance
 - b. **Blending & Corrosion Control**
 - i. **San Juan & Cutter Water Systems**
 1. Flow through pipe testing planned at CLWTP to inform San Juan and Cutter Systems. Testing starting Sep 2024.
 2. Ongoing bench testing to evaluate scale stability changes with changing water sources.
 3. Monthly meetings to facilitate communication between Navajo Nation/NTUA, Gallup, Reclamation on blending and corrosion topics.
- 21) **San Juan Lateral Water Treatment Plant (Reclamation)**
 - a. **Procurement Update**
 - i. Still in the Procurement date
 - ii. Award date and been slipped to complete review process
 - iii. Award expected Aug/Sep

PROJECT WIDE

- 22) **Upcoming PINs / Modified PINs (Reclamation)**
 - a. PIN 022.4 – Add Startup Flows for SJLWTP
 - b. PIN 027.1 – Cutter Turnout Flows – finalized and being prepared for signature
 - c. PIN 034 – SJ Lateral Storage

- d. PIN 038.1 – In-Tank Chlorination Systems, Water Quality Sampling, Pre-use Monitoring, and Tank Penetrations
- e. PIN 047.1 – Pumping Plant #1 Location – to be modified to include the location of PP1
- f. PIN 050 – San Juan River Pumping Plant
- g. PIN 051 – San Juan Lateral Water Treatment Process Decision

23) Cultural Resources Compliance – Project-Wide (Reclamation)

- a. Survey: Working on a contract now for the changes in Reaches 2 & 3 APE to be surveyed.
- b. Next CRCs: 10.1 and 10.2 are being finished now - projected to be complete at end of May.
- c. Tribal Construction Monitoring: active on Non-Navajo lands on Codetalkers and City of Gallup reaches currently.
- d. Further Mitigation Program: going to start awarding contracts and grants to tribes this year.
- e. Next Workgroup Consultation Meeting: June 12 & 13 in Santa Fe

24) Environmental Compliance – Project-Wide (Reclamation)

- a. NEPA in progress for Temporary Pumping System in Reach 1. Categorical Exclusion has been drafted.
- b. Section 7 Consultation memo is being prepared.
- c. Mesa Verde Cactus surveys are currently being done by BRIC in Block 2-3 and Shiprock Connection.
- d. Waiting on BIA signature on NEPA Sufficiency Review for northern expansion ROW at the SJLWTP.
- e. BIA indicated Reclamation would receive a response early the week of May 20th.
- f. 24.1 Lybrook EA has been prepared by McIntyre Environmental and Reclamation is waiting to receive it.
- g. Nashitti Connection Categorical Exclusion is anticipated to be complete by June 30, 2024.
- h. Revegetation:
 - i. Reaches 9-11 reseeded work is planned to begin July 15, 2024
 - ii. A reseeded contract for Codetalkers and 4a/4b is anticipated to be put in place so reseeded is initiated immediately following construction. It is currently planned to include segments of 4C-8 as options in these reseeded contracts to begin that reseeded effort, as seed and straw supplies in the region will not support reseeded 4C-8 and Codetalkers/4a/4b simultaneously.
 - iii. Project Wide Revegetation Plan – Still needs to be signed – any update? WCAO submitted to BIA (Rudy Keedah) and Navajo Nation (Jason John) on September 16, 2021 for signature. Is Rudy still working to get that signed?

25) Power Transmission (NTUA)

- a. San Juan Lateral Status (NTUA)
 - i. Power to Pumping Plants #4 and #7
 - 1. PP#4: Currently awaiting quote for bushing replacement on the switchgear that failed. As of now, NTUA will look to make repairs in-house. NTUA will ensure spare equipment is available for future sites. NTUA to follow-up with a timeline for switchgear component procurement and putting back into service. NTUA NOC/BOR to follow up with fiber route entirety for all projects.
 - 2. PP#7: Pending road crossing permit for fiber. NTUA NOC/BOR to follow up with fiber route entirety for all projects.
 - ii. Power to 4C-11 Rectifiers
 - 1. Finalizing the RFP for electrician contractor’s scope of work. Submit scope of work document for contracted electrician to complete secondary services for rectifier sites.
 - 2. Finalize service pole designs for district construction scheduling and installation.
 - 3. NTUA, BOR, and the awarded electrician shall coordinate on-site for clear scope of work prior to bid proposal. Also, the awarded electrician shall coordinate with BOR on final termination within rectifier box.
 - iii. Power to Pumping Plants #1, #2 and #3
 - 1. PP#1: We received Chapter resolution for electric to the plant. Pending cultural and environmental clearances.
 - 2. PP#2: Construction still in progress as we expected an additional 1 month for completion.

- 3. PP#3: Pending a response from NN-HPD office. For the permanent power route, Pending cultural and environmental clearances and a road crossing permit.
 - iv. **SJ River Intake – Fiber River Crossing**
 - 1. NTUA shall handle the ROW south of the river. ROW submittal shall be submitted before the end of this month (April).
 - 2. NTUA shall coordinate with Army Corp. of Engineers on San Juan River crossing.
 - 3. NTUA shall coordinate with BOR on access to power pole installation within BOR’s Intake Facility.
 - v. **Frank Chee Willetto Reservoir** - shall submit loads over to Cindy at PNM for their system impact study.
 - vi. **115kV Powerline Construction –**
 - 1. New design engineer was needed and has been procured
 - 2. Beginning to work on final design
 - vii. Next meeting June 6, 2024, from 10am – 12pm at Four Corners Construction Office – Bureau of Reclamation
 - b. **Power Supply Agreements**
 - i. Interim in place for groundwater
 - ii. Will be revisiting permanent power supply agreement
 - iii. Currently working on amendment for the construction agreement
 - 1. Includes updated budget and schedule
 - 2. Completion of major power components expected end of 2027
 - c. **Renewable Energy Feasibility Study w/NREL (Navajo Nation/WCAO)**
 - i. Second meeting w/NREL and information gathering has begun
 - ii. Meetings will occur monthly
 - iii. USBR/FCCO will participate in calls and will provide additional support as needed
- 26) **SCADA/Cybersecurity (Reclamation)**
- a. **Cutter Lateral (FISMA compliance)**
 - i. USBR issued mod on the CLWTP O&M contract to complete the FISMA process
 - b. **San Juan Lateral (Reach 14 Radio Communications)**
 - i. USBR to revisit and set up meeting on design for communications on R14
- 27) **Budget (Reclamation)**
- a. **FY2024 Construction Budget:**
 - i. Mandatory - \$164,000,000
 - ii. Discretionary - \$0
 - b. **City of Gallup Credit Request Status**
 - c. **2nd Quarter FY2024 Bills**
- 28) **Information Sharing / Public Outreach (Reclamation)**
- a. **Quarterly Newsletter**
 - b. **Construction Outreach**
- 29) **Action items and assignments (Reclamation)**
- a. **NMED would like to hold regulatory meeting in-person before next PCC meeting (July 24)**
- 30) **Schedule next PCC meeting – July 25, 2024 – in-person with virtual option**