

NAVAJO-GALLUP WATER SUPPLY PROJECT
PROJECT CONSTRUCTION COMMITTEE MEETING NO. 42
THURSDAY, FEBRUARY 8, 2018 9:00 AM El Moro Events Center – Gallup NM
Conference line number: (866) 784-6450, Passcode: 9982265#

SUMMARY

- 1) Review and approve agenda (Pat Page) - Approved
- 2) Review and approve October 19, 2017 PCC Meeting Summary *Handout* (Page) – Approved
- 3) Review of PCC Action Item List – *Handout* (Page)
 - a. Once the WCE is updated and discussions on water treatment plant initial capacity have occurred, the Deferred Construction Agreement can be worked on. Reclamation will schedule a meeting with JAN for updates/information about the NGWSP in mid-February. Also want to discuss timing of connections.
- 4) Review Agreements Status
 - a. Project Modification MOU Review –(Reclamation) *Handout w/ consolidated comments*
 - i. Comments have been consolidated into one document
 1. In general, suggested revisions included:
 - a. consider O&M costs
 - b. maintaining pipeline capacity
 - c. allocation of non-contract costs to those requesting specific actions
 - d. allocate capital costs associated with modifications to increase system reliability based on participants’ % of reliability requirements
 - ii. Review MOU comments by 2/23/18
 - iii. Reclamation will set up Focus Call on MOU
- 5) Other Related Navajo-San Juan NM Settlement Issues (BIA/Navajo Nation)
 - a. Conjunctive Groundwater Use Plan – See Slides
 - b. San Juan River Navajo Irrigation Projects – See Slides
Question: Could some of the Hogback Canal Rehab funds be used for Intake Structure Repairs? BIA – That would be up to the Navajo Nation to prioritize funds. Repairs would have to be within the authorization of PL 111-11

CONSTRUCTION UPDATE – See Slides

- 6) Tohlakai Pumping Plant (Reclamation)
- Reclamation: Create a project contingency spreadsheet to share with the PCC
- 7) Reach 12B (Reclamation)
- 8) Block 9-11 (Reclamation)
- 9) Reach 22A (Reclamation)
- 10) Reach 22B (Reclamation)
- 11) Reach 21 (Reclamation)
- 12) Reach 27.6 (Gallup)

SAN JUAN LATERAL- ISSUES / DESIGN UPDATE

- 13) San Juan Lateral
 - a. PIN 038 – In-Tank Chlorine Residual Boosting System (*Handout*)
 - i. **All comments on PIN 038 are due 2/23/18**
 - b. Connection Plans – PERs updates (Navajo Nation)
 - i. Sanostee PER: 75% complete – Pre-draft 90% complete
 - ii. Newcomb & Two Gray Hills PER: 75% complete – Pre-draft 90% complete

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- iii. Sheep Springs PER: 75% complete – Pre-draft submitted to NTUA for review
 - iv. Naschitti PER: 95% complete – Draft submitted to Reclamation 5/17
 - v. Tohatchi/Mexican Sprgs/Buffalo Sprgs PER: 95% complete – Draft submitted to Reclamation 12/17
 - vi. Mariano Lake PER and Water Age Study: 2% complete – Internal kickoff conducted
 - vii. Pinedale PER and Water Age Study: 2% complete – Internal kickoff conducted
 - viii. Tsayatoh/Rock Springs PER: 10% complete – Internal kickoff conducted
 - ix. Twin Lakes PER: 0% complete – Internal KO end of January 2018
 - x. Red Rock/Baahaali/Chichiltah Water Age Study: 2% complete – Internal kickoff conducted
- c. Reach 10.1, 10.2, and 10.3 (Navajo Nation)
- i. Crownpoint Lateral Proposal (Presentation by Navajo Nation) – See Slides
 - 1. Proposal connects to supply points of the distribution systems
 - 2. Goals
 - a. Serve all 6 chapters
 - b. Stay w/in funding limitations
 - c. O&M friendly
 - 3. Tradeoffs
 - a. Less storage
 - b. Reduced capacity (supplement with groundwater to still meet demands)
 - i. Not proposing to carry reduced capacity to the main transmission line (i.e., main line will still be capable of diverting full project water right)
 - 4. Proposal includes:
 - a. Realign to connect to supply points of distributions systems
 - b. Delegate design/construction to Navajo Nation via Financial Assistance Agmnt
 - c. Move up in construction sequencing
 - 5. No cultural surveys yet on CP lateral; high density of sites expected. Extended pipeline length means more potential sites.
 - ii. **AI: Reclamation to draft PIN and have ready for discussion/signature by next PCC.**
- 14) Reaches 12.1/12.2 – Status/Schedule
- a. Design Update
 - i. SpecB (100% Design) is scheduled for March 16th; design will include a revised alignment to bypass BLM land and customary land use area for approximately 1-mile on Reach 12.2 in Highway 264 ROW.
 - ii. Solicitation: Being re-evaluated; will likely be in August/September timeframe; dependent on completing ROW acquisition across private parcels on Reach 12.1
 - iii. Contract Award: January 2019
 - iv. 2 NTPs will be issued:
 - 1. 1) Reach 12.1
 - 2. 2) Reach 12.2 and Black Hat Tank
 - v. Construction could begin in February/March 2019 (subject to Contractor schedule)
 - b. ROW Update
 - i. Reach 12.1 – All ROW packages submitted and in various stages of review or appraisal/negotiation. Plan to have ROW in place by time of contract award.
 - 1. Tribal Trust – ROW granted 3/30/17
 - 2. Tribal Fee – ROW granted 3/9/17
 - 3. Allotted – All allotted ROW granted, #1539 ROW granted 9/29/17.
 - 4. Private – 1 parcel acquired; negotiating on 6 others.

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- ii. Reach 12.2 – Nearing completion of ROW packages for submittal in next month or two.
 - 1. Tribal Trust – ROW application submitted to NN 8/30/17
 - 2. Tribal Fee – ROW application submitted to NN 8/30/17
 - 3. Allotted – 2 parcels granted by BIA on 6/12/17; Reclamation will submit ROW application to BIA for small crossing on remaining allotment 1625 in March.
 - 4. Private – Working on final plats; plan to have ready to submit to appraiser by May.
 - 5. NMDOT – A meeting will be held with the NMDOT lawyers on February 21st to discuss the Legal Requirements of the current NMDOT application for use of ROW. Further technical discussions on acquiring of the ROW will follow this meeting.
 - 6. State Trust – ROE received and will conduct additional geological investigation in the next few months. Plan to submit ROW application to State Lands Office in May.
 - c. Reach 12.3 – Feasibility Study Status / Schedule for Completion (IHS)
 - i. A focus call to discuss the updated feasibility plan was held 8/9/17
 - ii. IHS will have feasibility edits for internal IHS review by 2/23/18
 - iii. The modified report will be NTUA and Navajo Nation Water Management by 2/28/18
 - iv. IHS will not be able to design/construct. The plan is to have the Navajo Nation design/construct via an FAA
 - 1. Navajo Nation will finalize letter to Reclamation and include Feasibility Study
- 15) Block 4C-8 – Status/Schedule
- a. Design & Procurement Update
 - i. A focus call to discuss the VE Accountability and resolution of VE proposals was held on December 18th.
 - ii. 60% Design (Design C) milestone to be complete on 2/20/18. Drawings will be shared with Project Participants thereafter for review.
 - iii. 90% Design (Spec D) milestone is planned for July 9th and the Review C will be in Farmington the week of August 20th.
 - iv. Solicitation is planned for January 2019
 - b. ROW Update
 - i. All ROW is across Navajo Tribal Trust land; Plats are undergoing final revisions for submittal to NN, which is expected in March.
 - ii. Reclamation is evaluating six locations where the alignment would need to fall in the Hwy 491 ROW to avoid residential areas and significant cultural resources. A meeting will be held with the NMDOT staff on February 21st to discuss the Legal Requirements of the current NMDOT application for use of ROW.
- 16) Pumping Plants #4 and #7
- a. Design & Procurement Update
 - i. Spec D (90%) set for March 12th and the Review C is scheduled for the week of April 23rd at FCCO. Chico to send out calendar invitations.
 - ii. Solicitation will be in 2020.
 - b. ROW Update
 - i. All ROW is across Navajo Tribal Trust land.
 - ii. ROW granted by BIA 1/16/2018 for PP #7, which also acts as a staging area for the Block 9-11 construction.
 - iii. Reclamation is working with BIA Roads on the driveway permit for PP #7.
 - iv. The plat for PP #4 will be developed after the Review C is held
 - c. Nomenclature

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- i. 4 pumping plants and 1 water treatment plant on the San Juan Lateral
 - ii. Navajo Nation Heritage and Historic Preservation Department will develop suggested names and submit to Reclamation by 3/8/18. Reclamation will bring to the PCC for discussion.
- 17) Reach 27 (City of Gallup) – Status/Schedule
- a. 27.9 90% design with Reclamation, going to bid in Jun/Jul, construct start in Sep
 - b. 27.10 at 30% design – archeological site that cannot be avoided
 - c. 27.11 not at 30% design yet – archeological site that cannot be avoided
 - d. 27.12 30% submitted – archeological site that cannot be avoided
 - e. 27.7B waiting for ROW, ROW with BIA and needs to be discussed further
- 18) Reach 14 (Indian Health Service)
- a. Reaches 14.1 and 14.2 – Status/Schedule
 - i. 14.1/2 ROW needs additional documentation per BIA
 - ii. working on 90% design, schedule moved follow transient analysis results
 - b. Reaches 14.6a, 14.7a, 14.8a – Status/Schedule
 - i. alignment expected end of May

CUTTER LATERAL

- 19) Reaches 26.1/26.2 and 26.3 Status/Schedule (Navajo Nation) – See slides

WATER TREATMENT

- 20) Regulatory Issues
- a. Next Meeting scheduled for 3/21/2018 at BIA Office/POC at El Morro following day
 - b. Comments on List of Service Communities
ALL: Comments due by 2/28/18 – will include recommended definition of a “turnout”
- 21) San Juan Lateral Water Treatment Plant and Intake Structure
- a. Design Data Status Update
 - i. Facility Condition Assessment
Final Report sent to Project Participants on October 6.
 - 1. Reclamation working on additional investigations recommended in Report. Non-destructive GPR was conducted in November of Hogback Headworks and Bridges concrete. The results are being used to plan concrete coring of those areas next week. The cores will be patched then as well. Also working on cost estimates of trash rack retrofits, as well as replacing and/or rehabilitating the radial gates at the headworks.
 - 2. Reclamation is finalizing the planning of the physical model of the SJR upstream of the Hogback Diversion Dam, which will be used to evaluate options for minimizing debris on the right side of the river at the trashrack. Construction should start in March timeframe and modeling to begin by May.
 - 3. Block 1-3 Design Status
Final Concept Design is ongoing; 30% milestone at the end of March and VE Study planned for week of June 11th.
 - 4. The physical model for the settling basins and sluicing from the Diversion Channel to the River will take place in 2018 as well.
 - 5. Reach 3 (NAPI Turn-out to WTP)
 - 6. Alternatives are currently being investigated east of N36.
 - 7. Hogback Irrigation Canal Sediment Flushing Testing (& Bathymetry)
 - 8. Additional survey of existing channel was performed 1/30/2018—data compilation in process and will be incorporated into revised sediment numbers.
 - ii. San Juan Lateral WTP SPR comments
 - 1. SPR Draft was distributed on 11/22/17 for review and comment

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2. SPR Meeting on 12/1/17 for SPR Overview
 3. Comments Received from DePauli/Gallup on 1/22/18
 4. Comments Received from NTUA on 1/30/18
 5. Reclamation is currently assessing SPR Comments received and will provide responses to COG and NTUA in 2 weeks for final resolution.
- iii. SJL WTP Performance Specs being started with 30% milestone in late March 2018; RFI will be issued in April; 90% in late July; Industry Day around Labor Day 2018; Solicitation of a traditional design-build contract is scheduled in January 2019
- b. 404(b)(1) Status
- i. Reclamation held an update meeting with USACE, USFWS, and NNDFW on 1/30/18. The environmental contractor, EMI provided a status of the draft Biological Evaluation and a tiered Environmental Assessment. The BE will be used to draft a Biological Assessment that will be submitted to the USFWS, who will then complete the Biological Opinion. All of this must be complete before the 404b1 application can be submitted to the USACE.
 - ii. Planning to have permit by Spring of 2019 (includes NEPA/BA/BO)
- c. Water Quality Monitoring/Analysis Update
- i. Update on Hach Meter. Both low-range and high-range probes are now in service at USGS stream gage at Fruitland Bridge. USGS still working on plan to make high-range probe turbidity/TSS data available real-time on website.
 - ii. Weekly grab sample monitoring continues at Hogback Diversion headworks.
 - iii. We are continuing to investigate the relationship between turbidity and heavy metals, especially during flash-type monsoon events using separate Research Science and Technology funds and the new sampling gage at the Fruitland Bridge. Reclamation is currently analyzing data collected during the 2017 monsoon.
- d. Hogback Coordination / MOU Update
- i. Revised draft MOU distributed
 1. May need to wait for assessment to be completed before filling in holes in MOU (i.e., details)
 - ii. FWS not signatory; waiting for BIA's decision
 - iii. Next mtg – 2/28/18
 - iv. Feasibility of using PNM diversion now that SJGS shutting down? PCC response is to continue moving forward with current preferable intake location

PROJECT WIDE

- 22) Identification of Design Issues to Consider for Issue-Specific Design Focus Calls (PCC)
- a. List of Focus Calls (*Handout*)
 - Added Hogback Sediment Flushing Data Collection; San Juan Lateral Water Treatment Plant SPR Rollout; and Block 4C-8 VE Accountability focus calls
- 23) Cultural Resources Compliance – Project-Wide
- a. Programmatic Agreement update
 - i. Next PA workgroup meeting 3/15 – 3/16
 - ii. Final Analysis report on Cutter Lateral being reviewed
 - iii. SJ Lat – overall sampling strategy completed. As alignments are finalized, incremental amendments to appendices of that document to address affects.
 - iv. 9-11 mitigation plan completed – mitigation ongoing
 - v. 4c-8 mitigation plan will be developed next
 - vi. PA/PM contract up this year. New contract to be awarded this year.
 - vii. End of February – new IDIQ contract for CR work
 - viii. 7-10 tribes have been actively participating in PA workgroup. Notices are sent out to larger group (appx 13).
 - ix. Tribal Cultural Monitoring Plan – award by end of March. Applies to only non-Navajo lands.

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- 24) Environmental Compliance – Project-Wide
 - a. Project-Wide Revegetation Plan
 - i. Reclamation reviewing final draft reveg plan; will distribute 2/9; will schedule meeting following distribution.
 - ii. SW Conservation Corps cooperative agreement for pre-vegetation surveys in place

- 25) Power Transmission (Reclamation)
 - a. San Juan Lateral Status
 - i. NTUA working on environmental compliance. NTUA needs to coordinate with BIA on environmental compliance work.
 - ii. Gallup to provide updated power needs
 - iii. Reclamation to Schedule power meeting in March/April to provide updates
 - b. Cutter Lateral (Reaches 22 and 21) Status
 - i. FEUS: construction currently underway. Should be complete in 6-8 weeks
 - ii. JMEC: design/row with BLM and is impacting schedule. Need power by June.

- 26) SCADA
 - a. Action items from SCADA Summit 12/20/2017 (*Handout*)
 - i. **Reclamation will schedule meeting on Reach 14 SCADA**
 - ii. R14.1/2 Communication has been tasked to NTUA

- 27) Budget / Schedule Discussion
 - a. FY2017 Budget = \$87 Million
 - b. FY2018 President's Request = \$67,797,000 (inc. \$118,000 of non-construction (O&M) funding)
 - c. FY2019 President's Request forthcoming
 - d. Funding History Handout?
 - e. Updating WCE - Updates forthcoming. Will schedule meetings following update.
 - f. NM Cost-Share Update/Status
 - i. Reclamation provided questions to NM concerning 27.4 and 27.5 credit requests and is providing indexed estimates for both features.
 - g. FY2018 2nd Quarter Billing – Payment Due February 10, 2018
 - h. Design and Procurement Schedule - *Handout*

- 28) Information Sharing / Public Outreach – Page
 - a. Reclamation participating in the Gallup/McKinnley County Children's Water Fair in March
 - b. NGWSP informational meeting in Shiprock 2/10/18

- 29) Action items and assignments – Page

- 30) Schedule next PCC meeting – May 10, 2018 at 9am at El Morro

Announcements:

- 491 Group Meeting – 2/13/18 Naschitti Chapter
- Cutter BBN9 Group Meeting – 3/21/18 Coyote Canyon Chapter
- Regulatory Group Meeting – 3/21 10am at BIA building
- POC meeting – 3/22 9am at El Morro

BIA-Navajo Regional Office-Settlement Project Update for NGWSP PCC Meeting

Conjunctive Groundwater Use Wells Project (BIA/Navajo Nation) (Continue)

A. Feasibility Study

Three projects consists of existing Water System Evaluation, Archaeology Clearance, Environmental Clearance, Right-Of-Ways, Survey/drafting, and Engineering design. These projects are contracted to the Navajo Area Indian Health Service:

1. Naschitti to Sheep Springs South Tank Waterline Ext. - \$100,000

❖ **Status: Project complete, working on Final Deliverables**

2. Buffalo Spring Intertie to Tohatchi - \$50,000

❖ **Status: 1. Land User Consent Signatures were gathered for the ROW application. 2 Resource reassignment caused delay and requested extension of deadline to April, 2018. 3. Upon completion of topo survey, it was found that survey data was not collected at a major crossing for an expanded ROW – As-Built would be include the expanded ROW for utility maintenance.**

3. Twin Lakes System Upgrades - \$25,000

❖ **Status: Land User Consent Signatures were gathered for Permission to Construct application 2. NECA submitted topo survey and was reviewed. 3. The survey skeletal were used to initiate the start of a Hydraulic Analysis.**

BIA-Navajo Regional Office-Settlement Project Update for NGWSP PCC Meeting

Conjunctive Groundwater Use Wells Project (BIA/Navajo Nation) (Continue)

B. Interagency Agreement with Navajo Area Indian Health Service

Sanostee Water Well Replacement Project, \$255,000.00.

- ❖ **Status: Plans to determine new location of new well. Once location is determine, the start of an Archaeological clearance and Endangered Species survey.**

C. One project has been funded through the current Model 108 Contract to purchase Advance Metering Infrastructure material for 43 Navajo Nation Chapters as part of the NGWSP service area that serves the Navajo Nation,

1. Advance Meter Infrastructure (AMI) Project – Phase I, \$750,000

- ❖ **Status: Awaiting Final Deliverables for Phase I**

BIA-Navajo Regional Office-Settlement Project Update for NGWSP PCC Meeting

San Juan River Navajo Irrigation Projects (BIA/Navajo Nation)

A. Fruitland to Cambridge Irrigation Rehabilitation Project:

Subpart J Construction Contract activities for four projects:

1. Fruitland Diversion: Budget: \$3,873,000.00 Paid to date: \$2,139,062.00. The NN awarded Final Design contract to Rock Gap Engineering, currently in the 30% Final Design process.
2. Fruitland Canal Seepage: Budget: \$271,000.00 Paid to date. \$149,770.00. The NN awarded Design/Build contract to Clawson Excavating, currently in the 30% Final Design process.
3. Yellowman Siphon: Budget: \$883,000.00 Paid to date: \$487,779.00. The NN awarded Final Design contract to Keller Bliesner-Walkoma, currently in the 60% Final Design process.
4. Bitsui Siphon: Budget: \$290,000.00 Paid to date: \$160,048.00. The NN awarding Design/Build contract to San Juan River Dineh Water Users Assoc., contract currently in the NN 164 Review Process.

BIA-Navajo Regional Office-Settlement Project Update for NGWSP PCC Meeting

B. Hogback to Cudei Irrigation Rehabilitation Project:

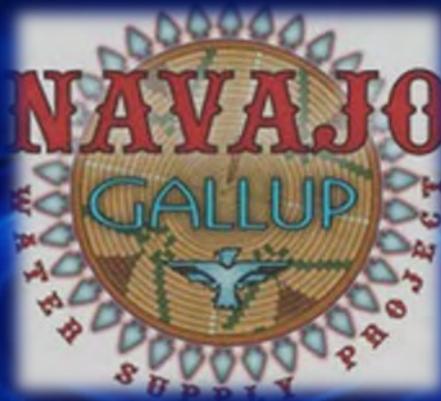
Subpart J Construction Contract awarded for five projects. The projects are as follows:

1. Helium Lateral Siphon: Budget: \$1,348,000.00 The Nation is in the process of developing a Request For Proposal for Engineering Services for Design Build project.
2. Hogback Canal Steel Siphons: Budget: \$1,911,000.00 The Nation on track to start procurement for Engineering Services for Final Design and Construction Management Services.
3. Eagle Nest Siphon Cleaning and Inlet Safety: Budget: \$36,000.00 NNDWR/TCOB project. The Nation will design and build this project.
4. Canal Lining Rehabilitation-Baker Wash Phase: Budget: \$1,177,000.00 The Nation on track to start procurement for Engineering Services for Final Design and Construction Management Services.
5. Lateral Conversion Project: A US Bureau of Reclamation (Reclamation) funded (Colorado River Salinity Program) project in partnership with the San Juan River Dineh Water Users. Inc.(SJRDWUI)

Status: First segment in the pipe purchase has been purchased and will be deliver on February 9, 2018. Inspection of the purchase will be conducted by Reclamation.

RECLAMATION

Managing Water in the West

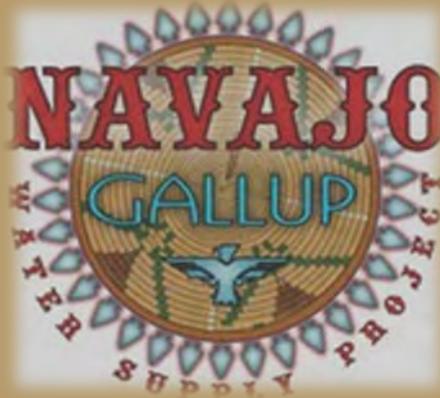


Project Construction Committee Meeting #42

February 8, 2018



U.S. Department of the Interior
Bureau of Reclamation



STATUS OF PRIMARY CONSTRUCTION CONTRACTS

RECLAMATION

Navajo-Gallup Water Supply Project Tohlakai Pumping Plant

Construction Contract Status (January 31, 2018)

- NGWSP – Tohlakai Pumping Plant Contract No. R14PC00018
 - Awarded April 1, 2014; Net award amount: \$19,573,563
 - Current net contract value: \$21,579,468
 - Earned to date: \$21,579,468
 - Performance time: 1,434 calendars days
 - Original Completion date: August 31, 2016
 - Modified Completion date: March 16, 2018
 - Value of modifications issued this period: \$1,233,278
 - Total value of modifications issued to date: \$2,005,905

NGWSP – Tohlakai Pumping Plant

as of January 31, 2018

		CONTRACT NO. R14PC00018 Tohlakai Pumping Plant	
		CONTRACT AMOUNT	CCE BREAKOUT 3
CONTRACT VALUE - AT AWARD		\$ 19,573,563	\$ 14,336,000
CONTINGENCY - AT AWARD		\$ 1,957,000	\$ 1,957,000
FIELD COST - AT AWARD		\$ 21,530,563	\$ 16,293,000
CONTRACT VALUE - PREVIOUS UPDATE		\$ 20,344,164	\$ 14,336,000
CONTINGENCY - PREVIOUS UPDATE		\$ 1,186,399	\$ 1,957,000
FIELD COST - PREVIOUS UPDATE		\$ 21,530,563	\$ 16,293,000
PREVIOUS MODIFICATION VALUE		\$ 772,628	\$ -
CURRENT PERIOD:			
<i>Modification No. 17</i>		\$ 1,233,276	\$ -
VALUE OF MODIFICATIONS - PERIOD		\$ 1,233,276	\$ -
VALUE OF MODIFICATIONS - TOTAL TO DATE		\$ 2,005,905	\$ -
CHANGE IN CONTINGENCY - PERIOD 1/		\$ -	\$ -
NET CHANGE IN CONTINGENCY – PERIOD		\$ (1,233,276)	
NET CHANGE IN CONTINGENCY – TOTAL		\$ (2,005,905)	
TRANSFER OF CONTINGENCY – PREVIOUS		\$ -	\$ -
TRANSFER OF CONTINGENCY – PERIOD		\$ -	\$ -
TRANSFER OF CONTINGENCY – TOTAL		\$ -	\$ -
CONTRACT VALUE – CURRENT		\$ 21,579,468	\$ 14,336,000
CONTINGENCY – CURRENT		\$ (48,905)	\$ 1,957,000
FIELD COST – CURRENT		\$ 21,530,563	\$ 16,293,000

NGWSP – Tohlakai Pumping Plant

Modifications – as of January 31, 2018

- **Modifications Issued During This Period:**

- End of Contract Settlement Agreement: Modification No. 17 has been issued which settles all outstanding items on the contract and provides a settled amount and a contract completion date of March 16, 2018.

Completed: \$1,233,278

- **Upcoming Modifications:**

RECLAMATION

Navajo-Gallup Water Supply Project Reach 12B

Construction Contract Status (January 31, 2018)

- NGWSP – Reach 12B Contract No. R16PC00039
 - Awarded April 8, 2016; Net award amount: \$3,662,037
 - Current net contract value: \$3,680,230
 - Earned to date: \$3,199,534
 - Notice to Proceed date: May 25, 2016
 - Performance time: **752** calendars days
 - Original Completion Date: February 7, 2017
 - Substantial Completion date: August 7, 2017
 - **Modified Completion date: June 16, 2018**
 - Value of modifications issued this period: \$0
 - Total value of modifications issued to date: \$18,193

NGWSP – Reach 12B

as of January 31, 2018

		CONTRACT NO. R16PC00039 Reach 12B	
		CONTRACT AMOUNT	WCE BREAKOUT
CONTRACT VALUE - AT AWARD		\$ 3,662,037	\$ 4,782,540
CONTINGENCY - AT AWARD		\$ 382,600	\$ 382,600
FIELD COST - AT AWARD		\$ 4,044,637	\$ 5,165,140
CONTRACT VALUE - PREVIOUS UPDATE		\$ 3,680,230	\$ 4,782,540
CONTINGENCY - PREVIOUS UPDATE		\$ 364,407	\$ 382,600
FIELD COST - PREVIOUS UPDATE		\$ 4,044,637	\$ 5,165,140
PREVIOUS MODIFICATION VALUE		\$ 18,193	\$ -
CURRENT PERIOD:			
<i>Modification No. 6</i>		\$ -	\$ -
VALUE OF MODIFICATIONS - PERIOD		\$ -	\$ -
VALUE OF MODIFICATIONS - TOTAL TO DATE		\$ 18,193	\$ -
CHANGE IN CONTINGENCY - PERIOD 1/		\$ -	\$ -
NET CHANGE IN CONTINGENCY – PERIOD		\$ -	
NET CHANGE IN CONTINGENCY – TOTAL		\$ (18,193)	
TRANSFER OF CONTINGENCY – PREVIOUS		\$ -	\$ -
TRANSFER OF CONTINGENCY – PERIOD		\$ -	\$ -
TRANSFER OF CONTINGENCY – TOTAL		\$ -	\$ -
CONTRACT VALUE – CURRENT		\$ 3,680,230	\$ 4,782,540
CONTINGENCY – CURRENT		\$ 364,407	\$ 382,600
FIELD COST – CURRENT		\$ 4,044,637	\$ 5,165,140

NGWSP – Reach 12B

Potential Modifications – as of January 31, 2018

- **Modifications Issued During This Period:**
 - Modification No. 6: Administrative Time Extension
- **Upcoming Modifications:**

Navajo-Gallup Water Supply Project

Block 9-11

Construction Contract Status (January 31, 2018)

- NGWSP – Block 9-11 Contract No. R17PC00115
 - Awarded September 15, 2017; Net award amount: \$61,687,875
 - Current net contract value: \$61,687,875
 - Earned to date: \$0
 - Notice to Proceed #1, Non-site date: September 27, 2017
 - Notice to Proceed #2, On-site date: January 29, 2018
 - Performance time: 910 calendars days
 - Original completion date: March 23, 2020
 - Previous value of modifications issued: \$0
 - Total value of modifications issued to date: \$0

NGWSP – Block 9-11

as of January 31, 2018

		CONTRACT NO. R17PC00115 Block 9-11	
		CONTRACT AMOUNT	WCE BREAKOUT
CONTRACT VALUE - AT AWARD		\$ 61,687,875	\$ 75,597,468
CONTINGENCY - AT AWARD		\$ 14,977,370	\$ 14,977,370
FIELD COST - AT AWARD		\$ 76,665,245	\$ 90,574,838
CONTRACT VALUE - PREVIOUS UPDATE		\$ 61,687,875	\$ 75,597,468
CONTINGENCY - PREVIOUS UPDATE		\$ 14,977,370	\$ 14,977,370
FIELD COST - PREVIOUS UPDATE		\$ 76,665,245	\$ 90,574,838
PREVIOUS MODIFICATION VALUE		\$ -	\$ -
CURRENT PERIOD:			
<i>Modification No.</i>		\$ -	\$ -
VALUE OF MODIFICATIONS - PERIOD		\$ -	\$ -
VALUE OF MODIFICATIONS - TOTAL TO DATE		\$ -	\$ -
CHANGE IN CONTINGENCY - PERIOD 1/		\$ -	\$ -
NET CHANGE IN CONTINGENCY – PERIOD			
NET CHANGE IN CONTINGENCY – TOTAL			
TRANSFER OF CONTINGENCY – PREVIOUS		\$ -	\$ -
TRANSFER OF CONTINGENCY – PERIOD		\$ -	\$ -
TRANSFER OF CONTINGENCY – TOTAL		\$ -	\$ -
CONTRACT VALUE – CURRENT		\$ 61,687,875	\$ 75,597,468
CONTINGENCY – CURRENT		\$ 14,977,370	\$ 14,977,370
FIELD COST – CURRENT		\$ 76,665,245	\$ 90,574,838

NGWSP – Block 9-11

Potential Modifications – as of January 31, 2018

- Modifications Issued During This Period:
- Upcoming Modifications:

Navajo-Gallup Water Supply Project Reach 22A

Construction Contract Status (January 31, 2018)

- NGWSP – Reach 22A Contract No. R15PC00118
 - Awarded September 3, 2015; Net award amount: \$11,869,909
 - Current net contract value: \$12,166,348
 - Earned to date: \$12,166,202
 - Performance time: 638 calendars days
 - Modified completion date: November 26, 2017
 - Substantial completion date: November 26, 2017
 - Value of modifications issued this period: \$25,023
 - Total value of modifications issued to date: \$296,438

NGWSP – Reach 22A

as of January 31, 2018

	CONTRACT NO. R15PC00118 Reach 22A	
	CONTRACT AMOUNT	WCE BREAKOUT
CONTRACT VALUE - AT AWARD	\$ 11,869,909	\$ 13,523,500
CONTINGENCY - AT AWARD	\$ 1,352,350	\$ 2,704,700
FIELD COST - AT AWARD	\$ 13,222,259	\$ 16,228,200
CONTRACT VALUE - PREVIOUS UPDATE	\$ 12,141,323	\$ 13,523,500
CONTINGENCY - PREVIOUS UPDATE	\$ 1,080,936	\$ 2,704,700
FIELD COST - PREVIOUS UPDATE	\$ 13,222,259	\$ 16,228,200
PREVIOUS MODIFICATION VALUE	\$ 271,414	\$ -
CURRENT PERIOD:		
<i>Modification No. 5 and 8</i>	\$ 25,023	\$ -
VALUE OF MODIFICATIONS - PERIOD	\$ 25,023	\$ -
VALUE OF MODIFICATIONS - TOTAL TO DATE	\$ 296,438	\$ -
CHANGE IN CONTINGENCY - PERIOD	\$ -	\$ -
NET CHANGE IN CONTINGENCY – PERIOD	\$ (25,023)	
NET CHANGE IN CONTINGENCY – TOTAL	\$ (296,438)	
TRANSFER OF CONTINGENCY – PREVIOUS	\$ -	\$ -
TRANSFER OF CONTINGENCY – PERIOD	\$ -	\$ -
TRANSFER OF CONTINGENCY – TOTAL	\$ -	\$ -
CONTRACT VALUE – CURRENT	\$ 12,166,347	\$ 13,523,500
CONTINGENCY – CURRENT	\$ 1,055,912	\$ 2,704,700
FIELD COST – CURRENT	\$ 13,222,259	\$ 16,228,200

NGWSP – Reach 22A

Potential Modifications – as of January 31, 2018

- **Modifications Issued During This Period:**

- Modifications 5 and 8: Definitized Mods 1 and 2 for changes to filter and toe drains at Cutter Dam to adjust to actual conditions
- Administrative Modifications #9 and #10, Change of Contracting Officers

- **Upcoming Modifications:**

- Delete Altitude Valve. RFP Issued

Navajo-Gallup Water Supply Project Reach 22B

Construction Contract Status (January 31, 2018)

- NGWSP – Reach 22B Contract No. R16PC00118
 - Awarded September 8, 2016; Net award amount: \$29,308,204
 - Current net contract value: \$29,528,021
 - Earned to date: \$8,733,318
 - Notice to Proceed date: October 7, 2016
 - Performance time: 667 calendars days
 - Original completion date: July 24, 2018
 - Value of modifications issued this period: \$44,756
 - Total value of modifications issued to date: \$219,817

NGWSP – Reach 22B

as of January 31, 2018

		CONTRACT NO. R16PC00118 Reach 22B	
		CONTRACT AMOUNT	WCE BREAKOUT
CONTRACT VALUE - AT AWARD		\$ 29,308,204	\$ 25,643,873
CONTINGENCY - AT AWARD		\$ 2,564,387	\$ 2,564,387
FIELD COST - AT AWARD		\$ 31,872,591	\$ 28,208,260
CONTRACT VALUE - PREVIOUS UPDATE		\$ 29,483,264	\$ 25,643,873
CONTINGENCY - PREVIOUS UPDATE		\$ 2,389,326	\$ 2,564,387
FIELD COST - PREVIOUS UPDATE		\$ 31,872,591	\$ 28,208,260
PREVIOUS MODIFICATION VALUE		\$ 175,061	\$ -
CURRENT PERIOD:			
<i>Modification No. 8 & 11</i>		<i>\$ 15,736</i>	<i>\$ -</i>
<i>Modification No. 6</i>		<i>\$ 29,020</i>	
VALUE OF MODIFICATIONS - PERIOD		<i>\$ 44,756</i>	<i>\$ -</i>
VALUE OF MODIFICATIONS - TOTAL TO DATE		\$ 219,817	\$ -
CHANGE IN CONTINGENCY - PERIOD 1/		<i>\$ -</i>	<i>\$ -</i>
NET CHANGE IN CONTINGENCY – PERIOD		<i>\$ (44,756)</i>	
NET CHANGE IN CONTINGENCY – TOTAL		\$ (219,817)	
TRANSFER OF CONTINGENCY – PREVIOUS		\$ -	\$ -
TRANSFER OF CONTINGENCY – PERIOD		\$ -	\$ -
TRANSFER OF CONTINGENCY – TOTAL		\$ -	\$ -
CONTRACT VALUE – CURRENT		\$ 29,528,021	\$ 25,643,873
CONTINGENCY – CURRENT		\$ 2,344,570	\$ 2,564,387
FIELD COST – CURRENT		\$ 31,872,591	\$ 28,208,260

RECLAMATION

NGWSP – Reach 22B

Potential Modifications – as of January 31, 2018

- **Modifications Issued During This Period:**

- No. 8 and No. 11 to Pumping Plant 1 Additional Isolation Kits. Completed: \$15,736
- No. 10 Administrative modifications to change Contracting Officers
- No. 6 Pumping Plant 1 Gas Line Relocation. Completed: \$29,020

- **Upcoming Modifications:**

- Changes to SCADA and Radios requirements. In process
- Installation of Altitude Valve for Reach 22a contract. In process
- Pumping Plant 1 Water Line Relocation. In process

Navajo-Gallup Water Supply Project

Reach 21, Cutter Water Treatment Plant (CWTP)

Construction Contract Status (January 31, 2018)

- NGWSP – Reach 21 Contract No. R16PC00112
 - Awarded September 7, 2016; Net award amount: \$37,000,000
 - Current net contract value: \$37,000,000
 - Earned to date: **\$2,803,171**
 - Notice to Proceed date: September 7, 2016
 - Performance time: 1098 calendars days
 - Original completion date: September 9, 2019
 - Previous value of modifications issued: \$0
 - Total value of modifications issued to date: \$0

NGWSP – Reach 21

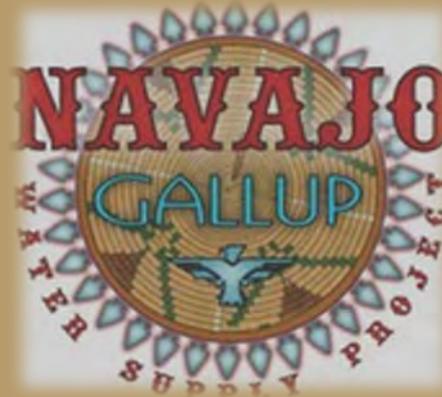
as of January 31, 2018

		CONTRACT NO. R16PC00112 Reach 21	
		CONTRACT AMOUNT	WCE BREAKOUT
CONTRACT VALUE - AT AWARD		\$ 37,000,000	\$ 37,000,000
CONTINGENCY - AT AWARD		\$ 3,700,000	\$ 3,700,000
FIELD COST - AT AWARD		\$ 40,700,000	\$ 40,700,000
CONTRACT VALUE - PREVIOUS UPDATE		\$ 37,000,000	\$ 37,000,000
CONTINGENCY - PREVIOUS UPDATE		\$ 3,700,000	\$ 3,700,000
FIELD COST - PREVIOUS UPDATE		\$ 40,700,000	\$ 40,700,000
PREVIOUS MODIFICATION VALUE		\$ -	\$ -
CURRENT PERIOD:			
<i>Modification No.</i>		\$ -	\$ -
VALUE OF MODIFICATIONS - PERIOD		\$ -	\$ -
VALUE OF MODIFICATIONS - TOTAL TO DATE		\$ -	\$ -
CHANGE IN CONTINGENCY - PERIOD 1/		\$ -	\$ -
NET CHANGE IN CONTINGENCY – PERIOD			
NET CHANGE IN CONTINGENCY – TOTAL			
TRANSFER OF CONTINGENCY – PREVIOUS		\$ -	\$ -
TRANSFER OF CONTINGENCY – PERIOD		\$ -	\$ -
TRANSFER OF CONTINGENCY – TOTAL		\$ -	\$ -
CONTRACT VALUE – CURRENT		\$ 37,000,000	\$ 37,000,000
CONTINGENCY – CURRENT		\$ 3,700,000	\$ 3,700,000
FIELD COST – CURRENT		\$ 40,700,000	\$ 40,700,000

NGWSP – Reach 21

Potential Modifications – as of January 31, 2018

- Modifications Issued During This Period:
- Upcoming Modifications



CONSTRUCTION PROGRESS PHOTOS

RECLAMATION

Reach 12B

RECLAMATION



Removing the joint sleeve for welding the joint due to a leak. By Rick Gillespie. 12/18/17

RECLAMATION



View of the gasket rolled at the bottom of the joint. By Rick Gillespie.

12/18/17

RECLAMATION



Contractor welding the pipe joint. By Rick Gillespie. 12/18/17

RECLAMATION



Welded pipe joint. By Rick Gillespie. 12/18/17

RECLAMATION



Re-sleeved pipe joint. By Rick Gillespie. 12/18/17

Block 9-11

RECLAMATION



An excavated pithouse along block 9-11. By Jimmie McKenzie. 1/8/18



An excavated pithouse along block 9-11. By Jimmie McKenzie. 1/8/18



An excavated pithouse along block 9-11. By Jimmie McKenzie. 1/8/18

Reach 22A

RECLAMATION



The access road leading up to the vault at Cutter Dam. By Ryan Gladden.
1/4/18



The covered pipeline just upstream of the HDD across Largo Wash. By Sterling Acree. 2/5/18

Reach 22B

RECLAMATION



Rebar at pumping plant #1 for the foundation of the air chamber. By John Weddle. 11/20/17



16" discharge pipe at pumping plant #1. By John Weddle. 12/7/17



Pipe being installed in a miter along Reach 22B. By Ryan Gladden. 1/19/18

RECLAMATION



Progress continues on Reach 22B. By Ryan Gladden. 1/19/18

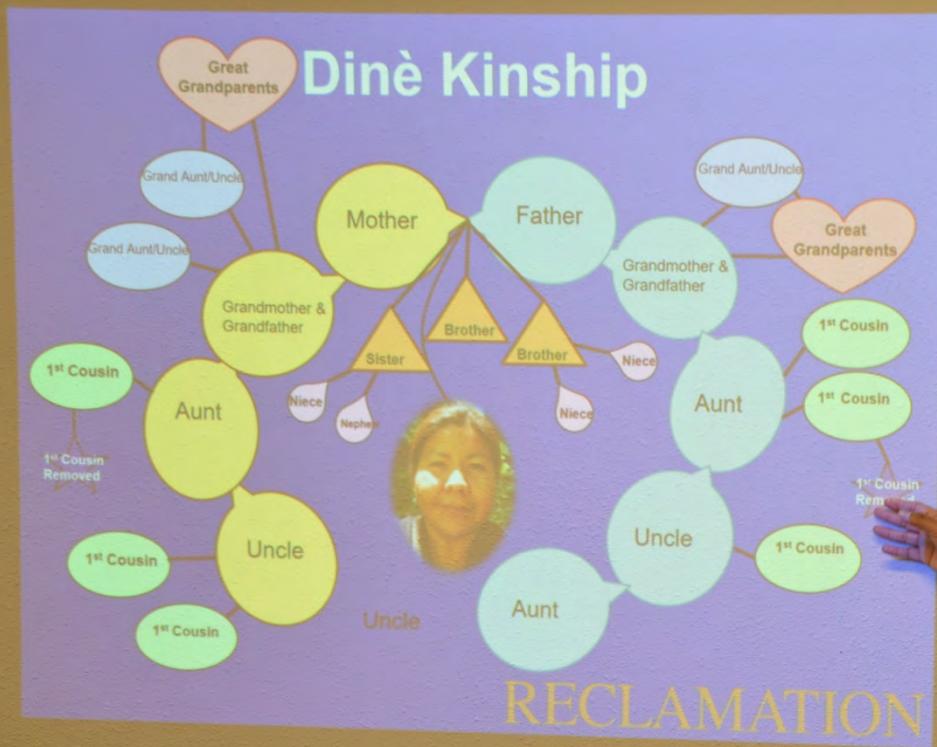
RECLAMATION



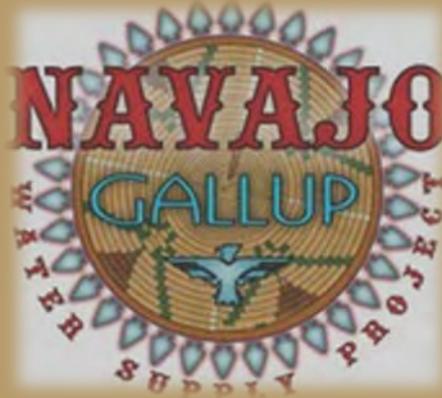
Pumping plant #2 – Rebar in place prior for the air chamber foundation slab.
By Ryan Gladden. 10/31/17

Public Outreach

RECLAMATION

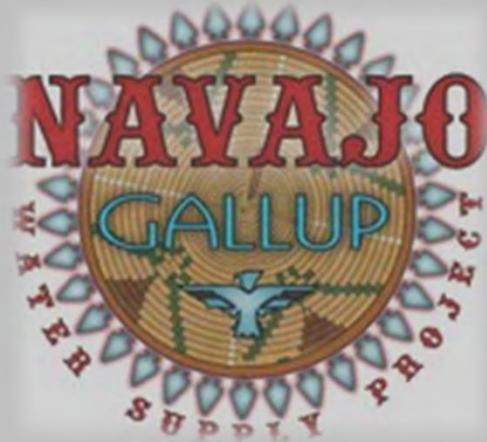


“Learn to Speak Navajo” presentation by Becky Begay. By Sterling Acree. 1/26/18



**END OF
CONSTRUCTION PROGRESS
UPDATE**

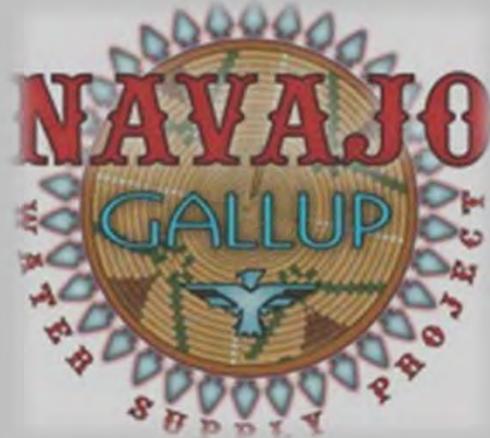
RECLAMATION



Gallup Regional System Completed Projects

Reach	Award Date	Final Field Cost	2011 FAA Field Cost
27.1	January 2008	\$3,128,207	\$3,128,207
27.3	January 2010	\$2,262,237	\$2,262,237
27.5	September 2013	\$6,872,399	\$6,858,839
13	July 2014	\$5,836,694	\$6,807,048
Totals		\$18,099,537	\$19,056,331

Navajo-Gallup Water Supply Project Reach 27.6



Project Construction Committee Meeting #42

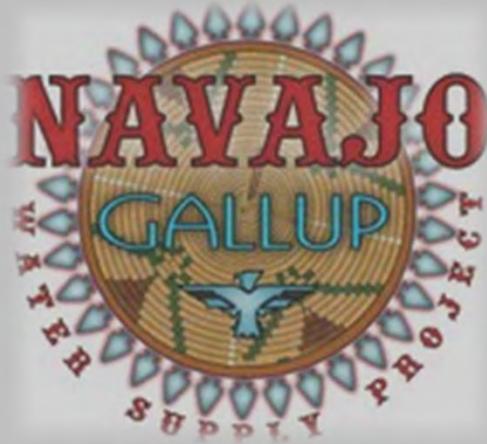
February 8, 2018



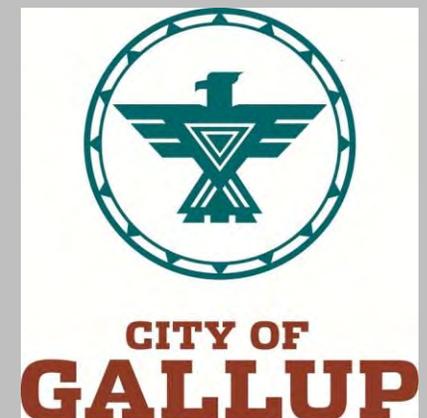
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**CITY OF
GALLUP**



STATUS OF NGWSP REACH 27.6 CONSTRUCTION CONTRACT



Navajo–Gallup Water Supply Project Reach 27.6 Construction Contract Status (January 2018)

▶ NGWSP – Reach 27.6 City of Gallup Formal Bid No. 1608

- Funded by:
 - Water Trust Board through the New Mexico Finance Authority, Grant No. WTB #283
 - U.S. Bureau of Reclamation Cooperative Agreement No. R11AC40002
- Awarded on June 29, 2016 to TLC Plumbing & Utility
- Notice to Proceed August 15, 2016
- Original Contract Amount: \$7,678,224.97
- Current Contract Value: \$7,919,715.82
- Earned to date: \$7,593,945.26 (99% complete)
- Estimated Completion Date February 9, 2018
- Previous value of modifications issued: \$76,887.34
- Total value of modifications issued to date: 241,490.85 (3.1%)

NGWSP - Reach 27.6

Comparison of CCE to Contract Amount – as of January, 2018

	FORMAL BID NO. 1608 REACH 27.6	
	CONTRACT AMOUNT	FAA R11AC40002 Budget (Oct. 2011)
CONTRACT VALUE - AT AWARD	\$ 7,678,225	\$ 6,808,556
CONTINGENCY - AT AWARD	\$ -	\$ 0
FIELD COST - AT AWARD	\$ 7,678,225	\$ 6,808,556
CONTRACT VALUE - PREVIOUS UPDATE	\$ 7,755,112	\$ 6,808,556
CONTINGENCY - PREVIOUS UPDATE	\$ 0	\$ 0
FIELD COST - PREVIOUS UPDATE	\$ 7,755,112	\$ 6,808,556
PREVIOUS MODIFICATION VALUE	\$ 76,887.34	\$ 0
CURRENT PERIOD: <i>CHANGE ORDER 3</i>	\$ 151,970.93	
VALUE OF MODIFICATIONS - PERIOD	\$ 151,970.93	\$ -
VALUE OF MODIFICATIONS - TOTAL TO DATE	\$ 241,490.85	\$ 0
CHANGE IN CONTINGENCY - PERIOD	\$ 0	
NET CHANGE IN CONTINGENCY - PERIOD	\$ 0	
NET CHANGE IN CONTINGENCY - TOTAL	\$ 0	
TRANSFER OF CONTINGENCY - PREVIOUS	\$ -	\$ -
TRANSFER OF CONTINGENCY - PERIOD	\$ -	\$ -
TRANSFER OF CONTINGENCY - TOTAL	\$ -	\$ -
CONTRACT VALUE - CURRENT	\$ 7,919,715.82	\$ 6,808,556
CONTINGENCY - CURRENT	\$ 0	\$ 0
FIELD COST - CURRENT	\$ 7,919,715.82	\$ 6,808,556



Heaton Pump Station



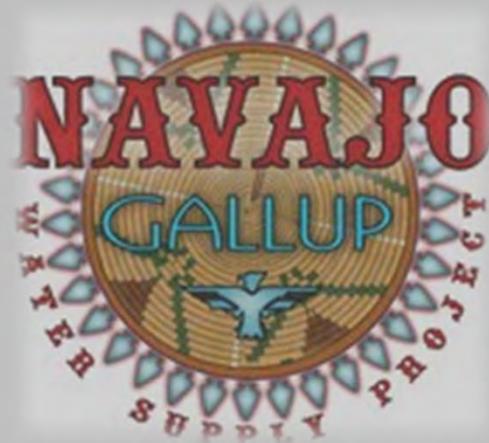
Interior of Heaton Pump Station



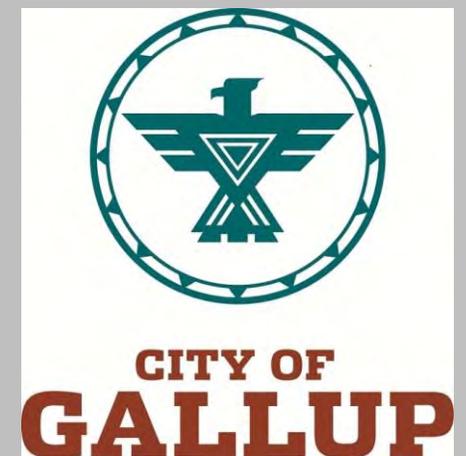
Hogback PRV Station



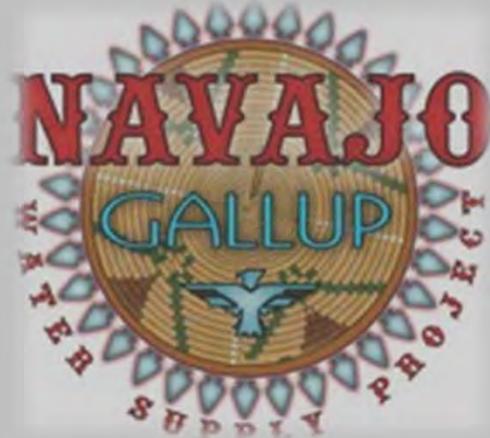
Outlet Structure with RipRap
Bank Stabilization



END OF REACH 27.6 CONSTRUCTION PROGRESS UPDATE



Navajo-Gallup Water Supply Project Reach 27.7A



Project Construction Committee Meeting #42

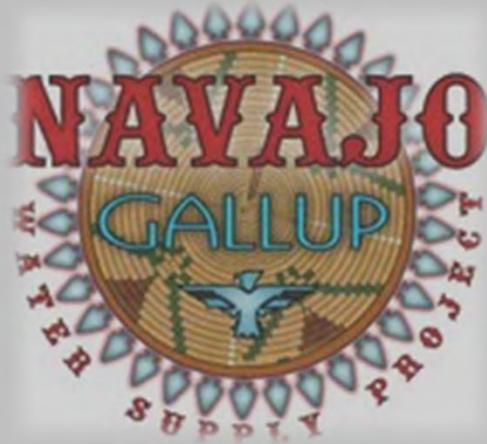
February 8, 2018



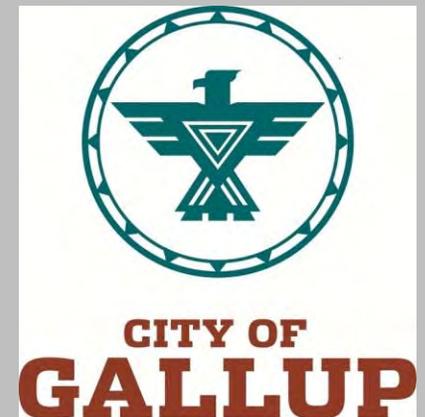
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**CITY OF
GALLUP**



STATUS OF NGWSP REACH 27.7A CONSTRUCTION CONTRACT



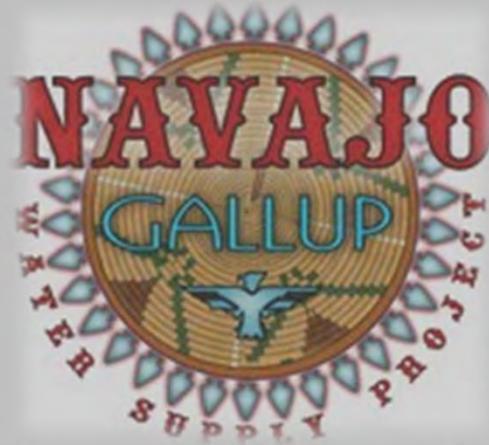
Navajo–Gallup Water Supply Project Reach 27.7A Construction Contract Status (January 2018)

- ▶ NGWSP – Reach 27.7A City of Gallup Formal Bid No. 1710
 - Funded by:
 - Water Trust Board through the New Mexico Finance Authority, Grant No. WTB #334
 - U.S. Bureau of Reclamation Cooperative Agreement No. R11AC40002
 - Awarded on September 15, 2017 to Smithco Construction, Inc.
 - Notice to Proceed November 6, 2017
 - Original Contract Amount: \$3,220,285.65
 - Current Contract Value: \$3,220,285.65
 - Earned to date: \$97,388.24 (3% complete)
 - Completed Work: \$0
 - Stored Materials: \$97,388.24
 - Estimated Completion Date November 6, 2018
 - Previous value of modifications issued: \$0
 - Total value of modifications issued to date: \$0

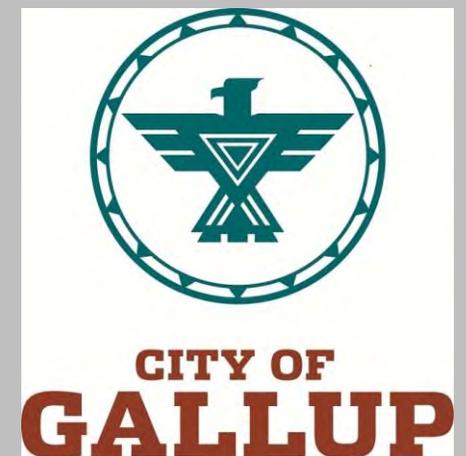
NGWSP - Reach 27.7A

Comparison of CCE to Contract Amount – as of January, 2018

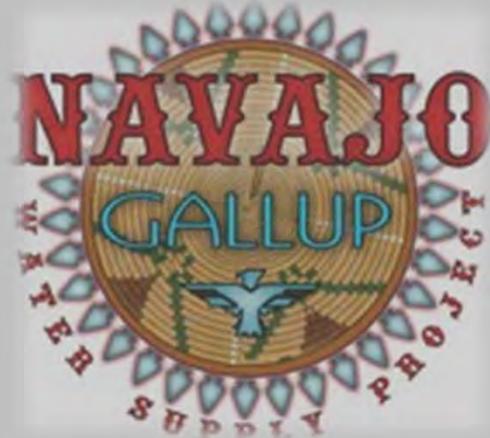
	FORMAL BID NO. 1710 REACH 27.7A	
	CONTRACT AMOUNT	FAA R11AC40002 Budget (Oct. 2011)
CONTRACT VALUE - AT AWARD	\$ 3,220,285.65	\$ 3,111,350
CONTINGENCY - AT AWARD	\$ -	\$ 0
FIELD COST - AT AWARD	\$ 3,220,285.65	\$ 3,111,350
CONTRACT VALUE - PREVIOUS UPDATE	\$ 3,220,285.65	\$ 3,111,350
CONTINGENCY - PREVIOUS UPDATE	\$ 0	\$ 0
FIELD COST - PREVIOUS UPDATE	\$ 3,220,285.65	\$ 3,111,350
PREVIOUS MODIFICATION VALUE	\$	\$ 0
CURRENT PERIOD:	\$	
	\$	
VALUE OF MODIFICATIONS - PERIOD	\$	\$ -
VALUE OF MODIFICATIONS - TOTAL TO DATE	\$	\$ 0
CHANGE IN CONTINGENCY - PERIOD	\$ 0	
NET CHANGE IN CONTINGENCY - PERIOD	\$ 0	
NET CHANGE IN CONTINGENCY - TOTAL	\$ 0	
TRANSFER OF CONTINGENCY - PREVIOUS	\$ -	\$ -
TRANSFER OF CONTINGENCY - PERIOD	\$ -	\$ -
TRANSFER OF CONTINGENCY - TOTAL	\$ -	\$ -
CONTRACT VALUE - CURRENT	\$ 3,220,285.65	\$ 3,111,350
CONTINGENCY - CURRENT	\$ 0	\$ 0
FIELD COST - CURRENT	\$ 3,220,285.65	\$ 3,111,350



END OF REACH 27.7A CONSTRUCTION PROGRESS UPDATE



Navajo-Gallup Water Supply Project Reach 27.13



Project Construction Committee Meeting #42

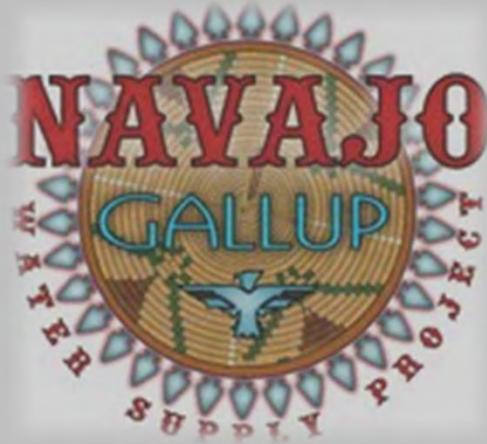
February 8, 2017



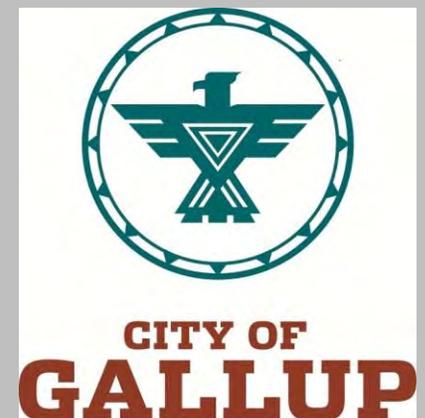
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**CITY OF
GALLUP**



STATUS OF NGWSP REACH 27.13 CONSTRUCTION CONTRACT



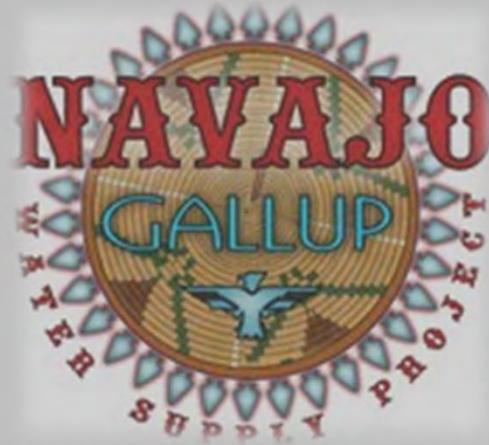
Navajo–Gallup Water Supply Project Reach 27.13 Construction Contract Status (January 2018)

- ▶ NGWSP – Reach 27.13 City of Gallup Formal Bid No. 1710
 - Funded by:
 - Water Trust Board through the New Mexico Finance Authority, Grant No. WTB #334
 - U.S. Bureau of Reclamation Cooperative Agreement No. R11AC40002
 - Awarded on September 15, 2017 to Smithco Construction, Inc.
 - Notice to Proceed November 6, 2017
 - Original Contract Amount: \$3,238,991.39
 - Current Contract Value: \$3,238,991.39
 - Earned to date: \$256,974.24 (8% complete)
 - Completed Work: \$176,278.59
 - Stored Materials: \$80,695.65
 - Estimated Completion Date November 6, 2018
 - Previous value of modifications issued: \$0
 - Total value of modifications issued to date: \$0

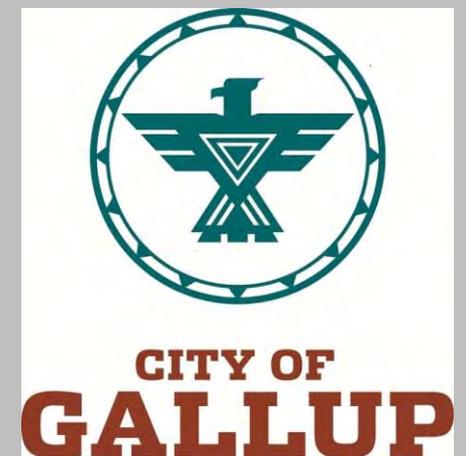
NGWSP - Reach 27.13

Comparison of CCE to Contract Amount – as of January, 2018

	FORMAL BID NO. 1608 REACH 27.6	
	CONTRACT AMOUNT	FAA R11AC40002 Budget (Oct. 2011)
CONTRACT VALUE - AT AWARD	\$ 3,238,991.39	\$ 2,888,670
CONTINGENCY - AT AWARD	\$ -	\$ 0
FIELD COST - AT AWARD	\$ 3,238,991.39	\$ 2,888,670
CONTRACT VALUE - PREVIOUS UPDATE	\$ 3,238,991.39	\$ 2,888,670
CONTINGENCY - PREVIOUS UPDATE	\$ 0	\$ 0
FIELD COST - PREVIOUS UPDATE	\$ 3,238,991.39	\$ 2,888,670
PREVIOUS MODIFICATION VALUE	\$	\$ 0
CURRENT PERIOD:	\$	
	\$	
VALUE OF MODIFICATIONS - PERIOD	\$	\$ -
VALUE OF MODIFICATIONS - TOTAL TO DATE	\$	\$ 0
CHANGE IN CONTINGENCY - PERIOD	\$ 0	
NET CHANGE IN CONTINGENCY - PERIOD	\$ 0	
NET CHANGE IN CONTINGENCY - TOTAL	\$ 0	
TRANSFER OF CONTINGENCY - PREVIOUS	\$ -	\$ -
TRANSFER OF CONTINGENCY - PERIOD	\$ -	\$ -
TRANSFER OF CONTINGENCY - TOTAL	\$ -	\$ -
CONTRACT VALUE - CURRENT	\$ 3,238,991.39	\$ 2,888,670
CONTINGENCY - CURRENT	\$ 0	\$ 0
FIELD COST - CURRENT	\$ 3,238,991.39	\$ 2,888,670



END OF REACH 27.13 CONSTRUCTION PROGRESS UPDATE



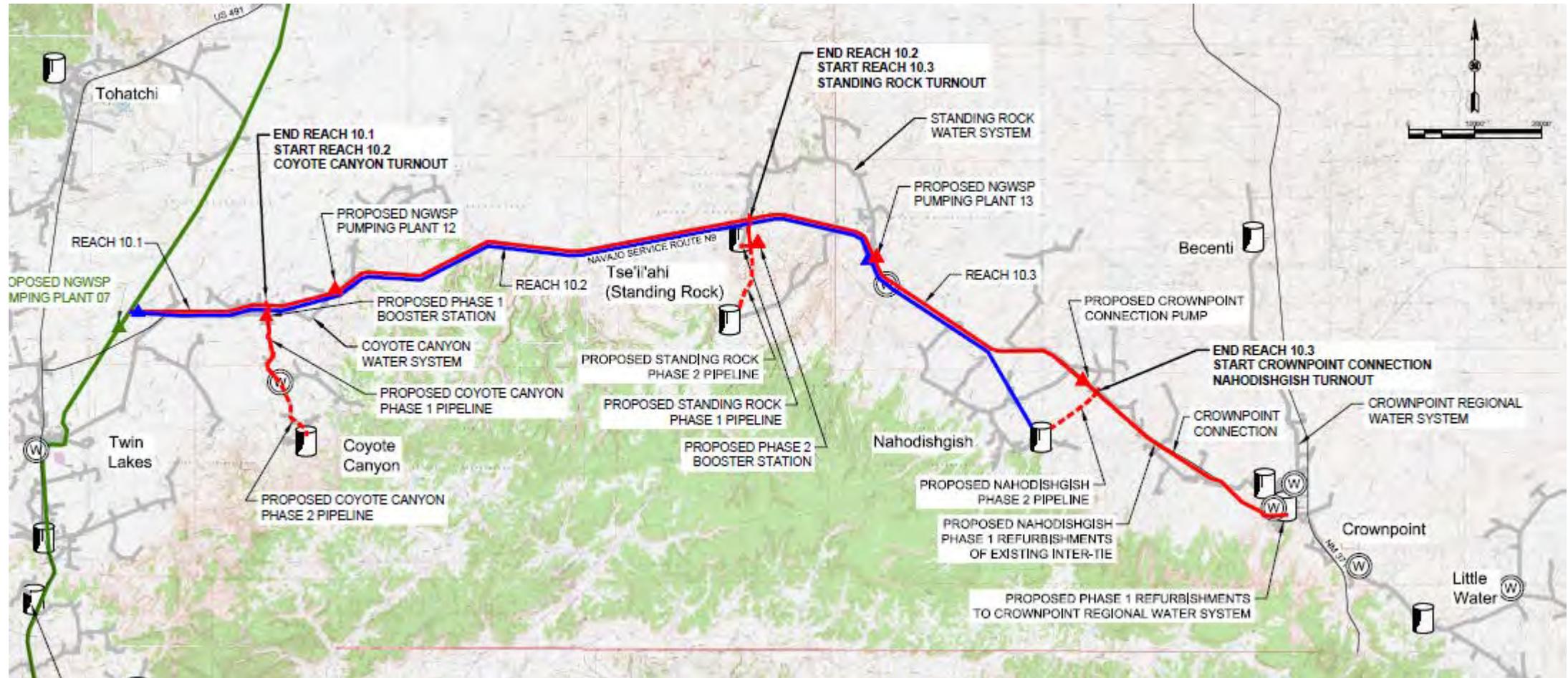
Draft

Beacon Bisti / N9 Lateral Regional Water Plan and Capital Improvement Plan

Coyote Canyon, Standing
Rock, Nahodishgish,
Becenti, Littlewater, and
Crownpoint Chapters



Original FEIS Design & Proposed Reconfiguration

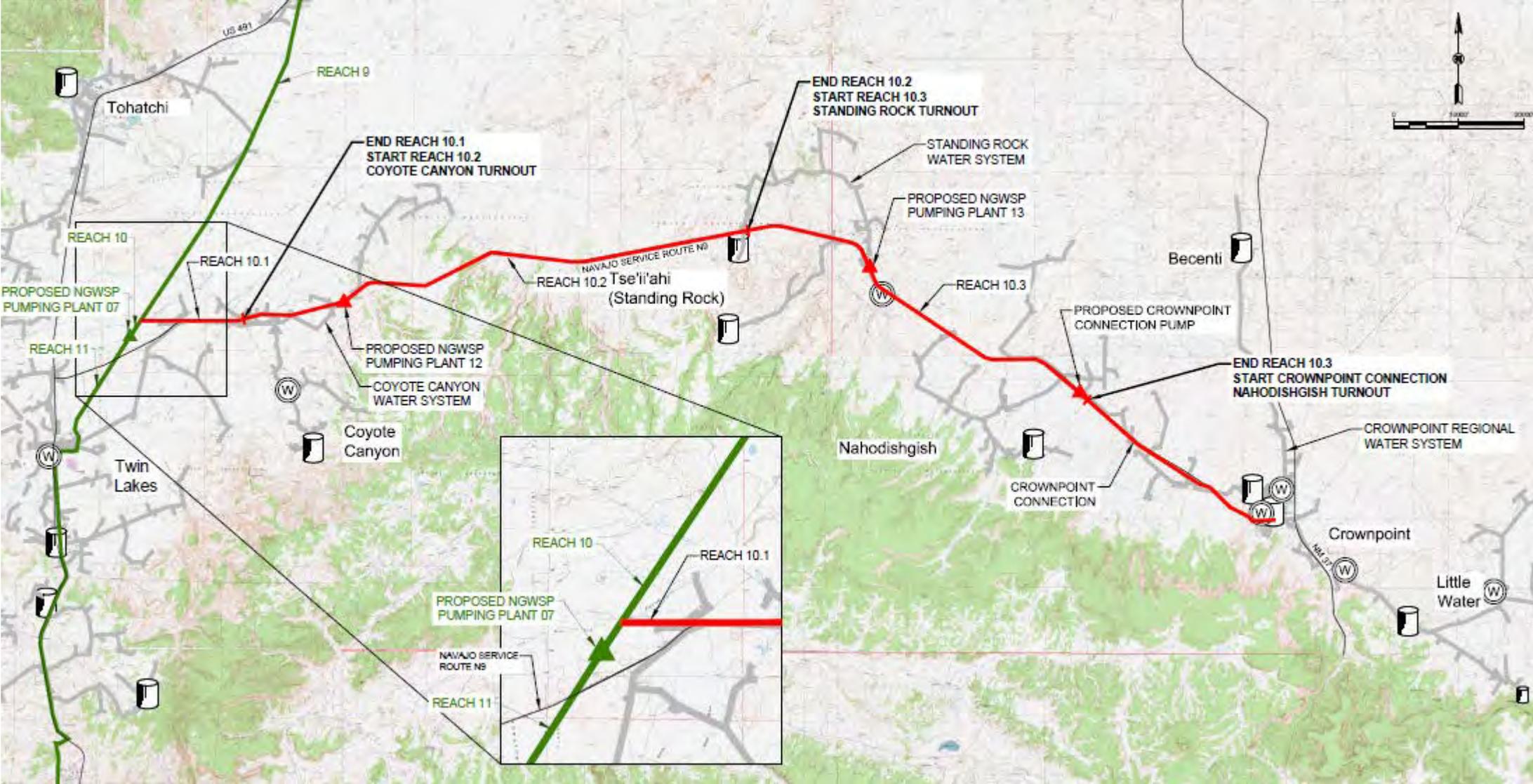


Into the Weeds: Key design updates

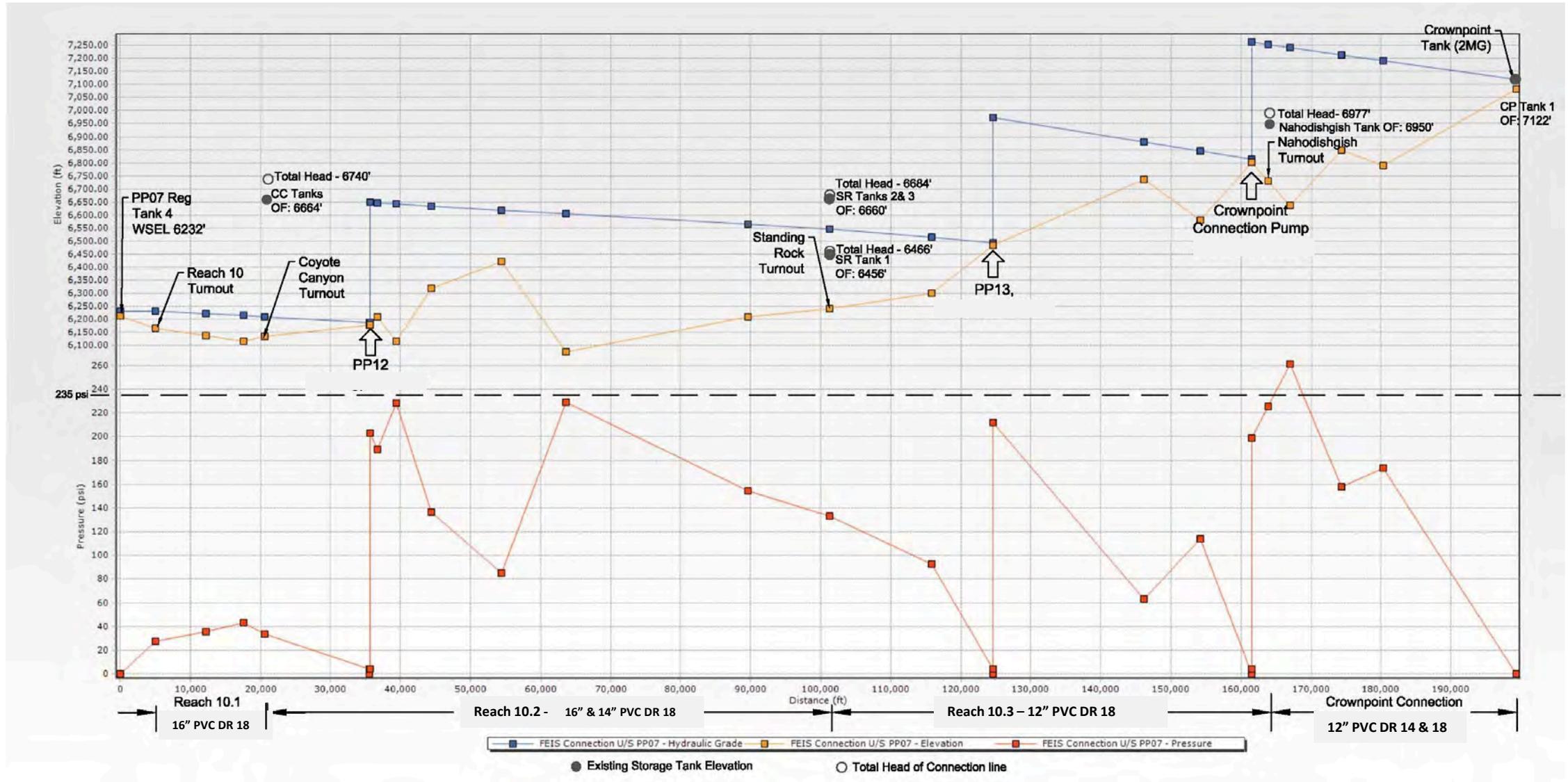
- Pipeline, Tank & Pump Optimization
 - Aligned and sized to balance long-term capacity with short-term water age and OM&R considerations
- Water Source
 - Conjunctive GW wells in back-up status
- SJL Tie-in
 - Upstream of PP07



Pump Configurations Upstream of SJL PP07:



Connect Upstream PP07 Typical Hydraulic Profile



Design Alternatives – Mainline (incl. Crownpoint Connection)

Alternative	FEIS Design	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8
Conjunctive GW	Yes	No	No	Yes	Yes	No	No	Yes	Yes
Connection Relative to NGWSP PP07	Upstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream
Number of Pumping Plants	2	3	2	3	2	3	2	3	2
Reach 10.1 Diameter (in)	24" & 18"	20"	20"	18"	18"	16"	16"	14"	14"
Reach 10.2 Diameter (in)	20" & 18"	18"	20"	18" & 16"	18"	16" & 14"	16"	14" & 12"	14"
Reach 10.3 Diameter (in)	20" & 16"	16" & 14"	16" & 14"	14"	14"	12"	16" & 12"	12" & 10"	12" & 10"
Pipeline to Crownpoint Diameter (in)	N/A	14"	14"	14"	14"	12"	12"	10"	10"
Total Capital Cost*	\$67,644,772**	\$65,745,515	\$66,227,520	\$64,377,456	\$63,156,635	\$58,705,758	\$58,823,409	\$52,595,834	\$51,750,186

* Costs include 10% construction contingency.

** Indexed CCE Cost as of Oct. 2016 (7% internal BOR cost not deducted)

*** BBN9 Lateral revised designs do not require an additional Crownpoint Storage Tank by the end of the planning period per IHS Criteria storage capacity calculations.

Design Alternatives – Mainline (incl. Crownpoint Connection)

Alternative	FEIS Design	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8
Conjunctive GW	Yes	No	No	Yes	Yes	No	No	Yes	Yes
Connection Relative to NGWSP PP07	Upstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream
Number of Pumping Plants	2	3	2	3	2	3	2	3	2
Reach 10.1 Diameter (in)	24" & 18"	20"	20"	18"	18"	16"	16"	14"	14"
Reach 10.2 Diameter (in)	20" & 18"	18"	20"	18" & 16"	18"	16" & 14"	16"	14" & 12"	14"
Reach 10.3 Diameter (in)	20" & 16"	16" & 14"	16" & 14"	14"	14"	12"	16" & 12"	12" & 10"	12" & 10"
Pipeline to Crownpoint Diameter (in)	N/A	14"	14"	14"	14"	12"	12"	10"	10"
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Water Age

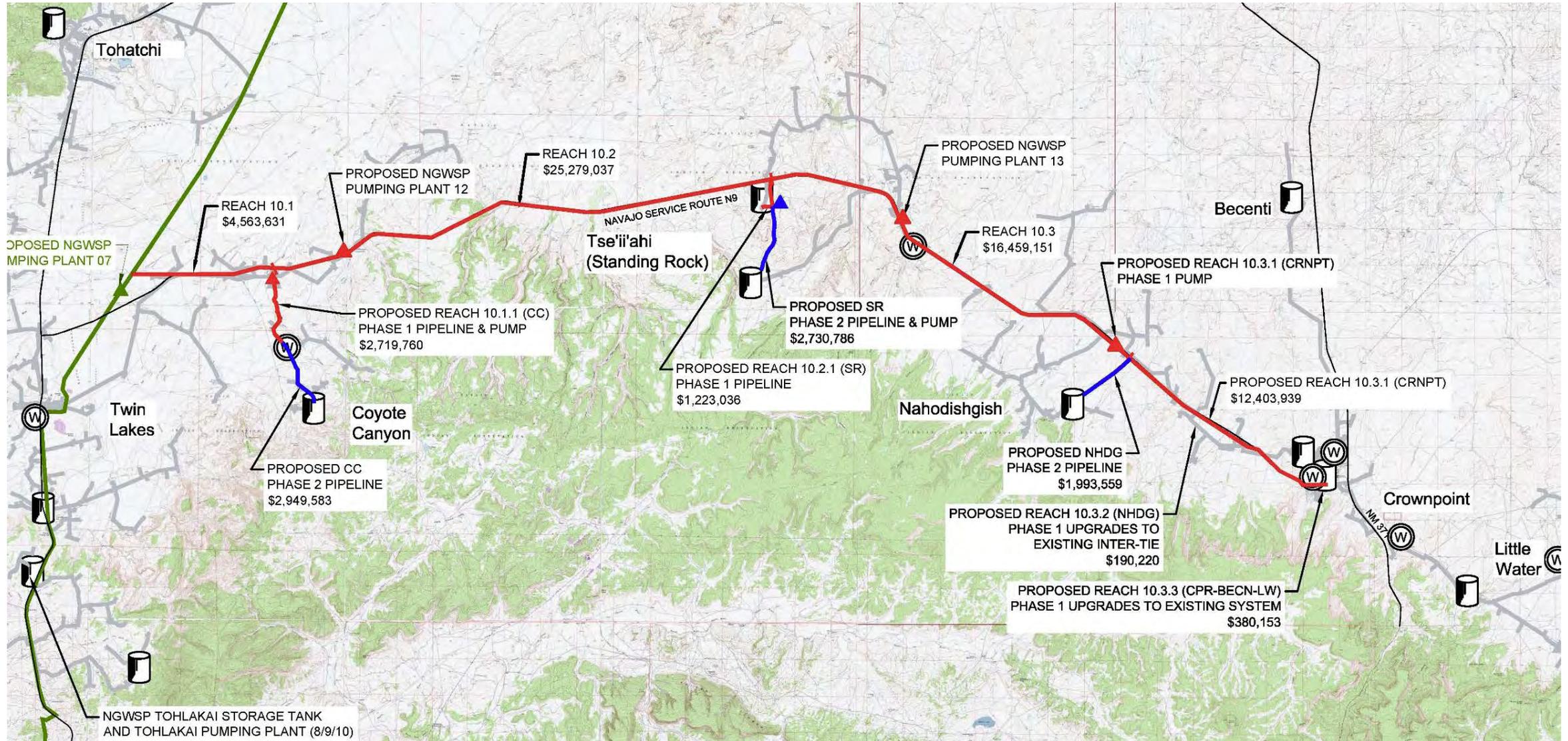
FEIS Design	Water Age (days) at Crownpoint #1 Tank Inlet		
	2020	2040	-
From Beginning of Reach 10.1 to Crownpoint	2.0 days	1.2 days	-
Revised Design	2026	2040	2066
From Beginning of Reach 10.1 to Crownpoint	2.9 days	1.9 days	1.3 days

Potential future refinements during final design process:

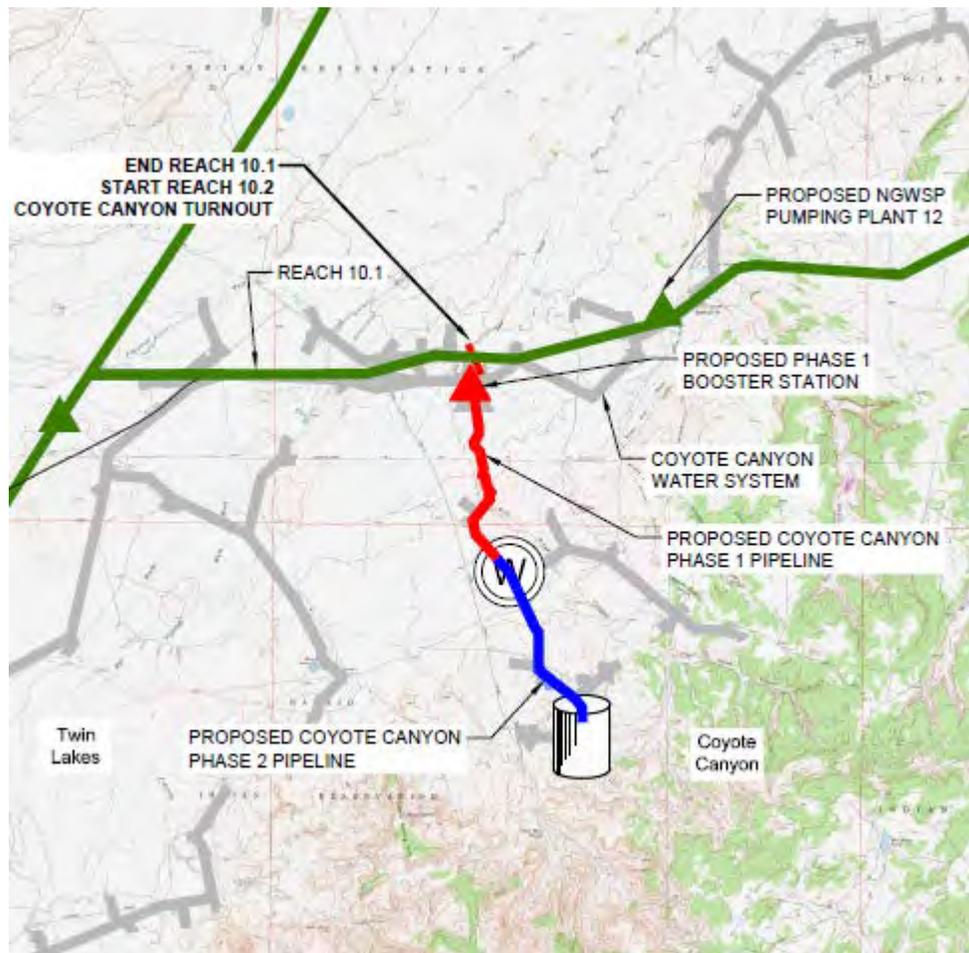
- Depending on actual topographic survey of final field alignment, it may be possible to reduce Reaches 10.1 and/or 10.2 pipe diameter by one nominal size.
- Depending on actual topographic survey of final field alignment, it may be possible to move PP 12 to eliminate Coyote Canyon turn-out booster pump.

These and other potential refinements would be evaluated for feasibility and cost savings during final design.

Connections to NTUA Systems

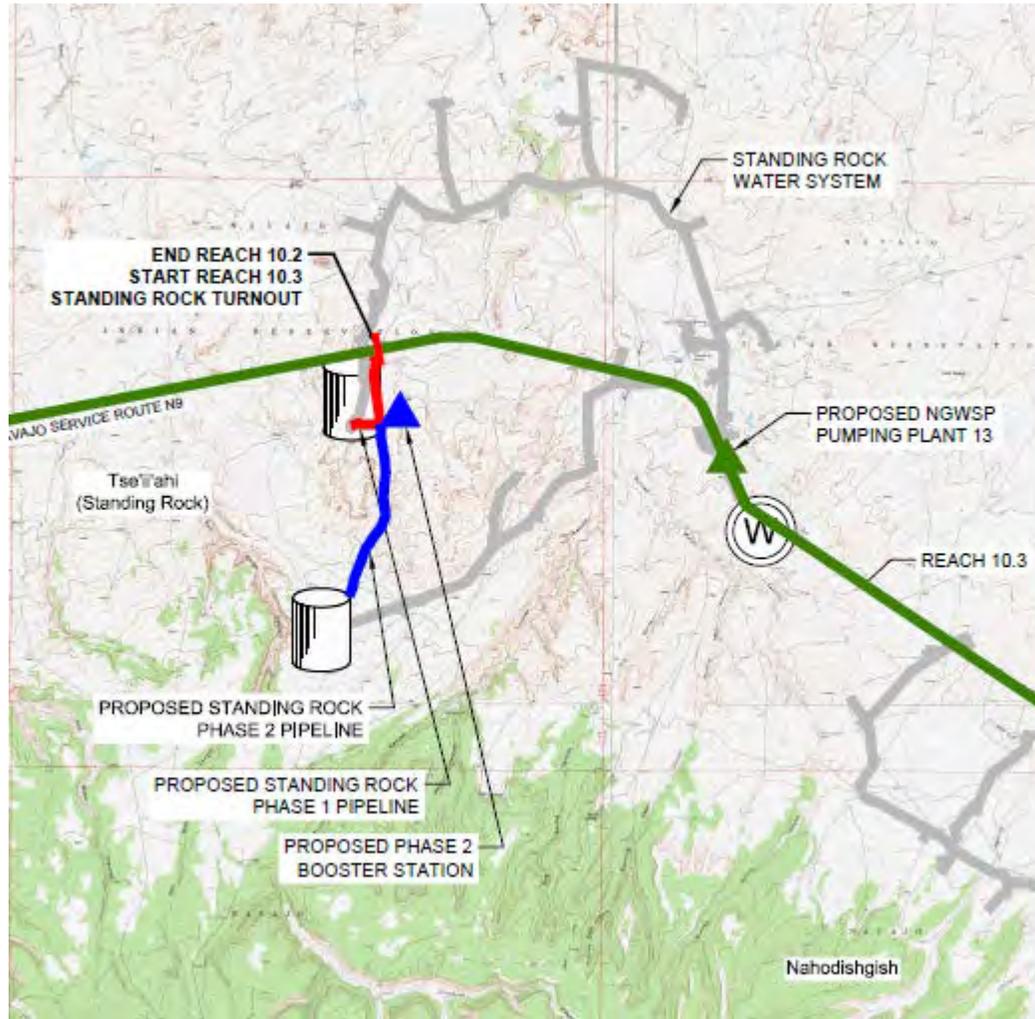


Connection to Coyote Canyon System



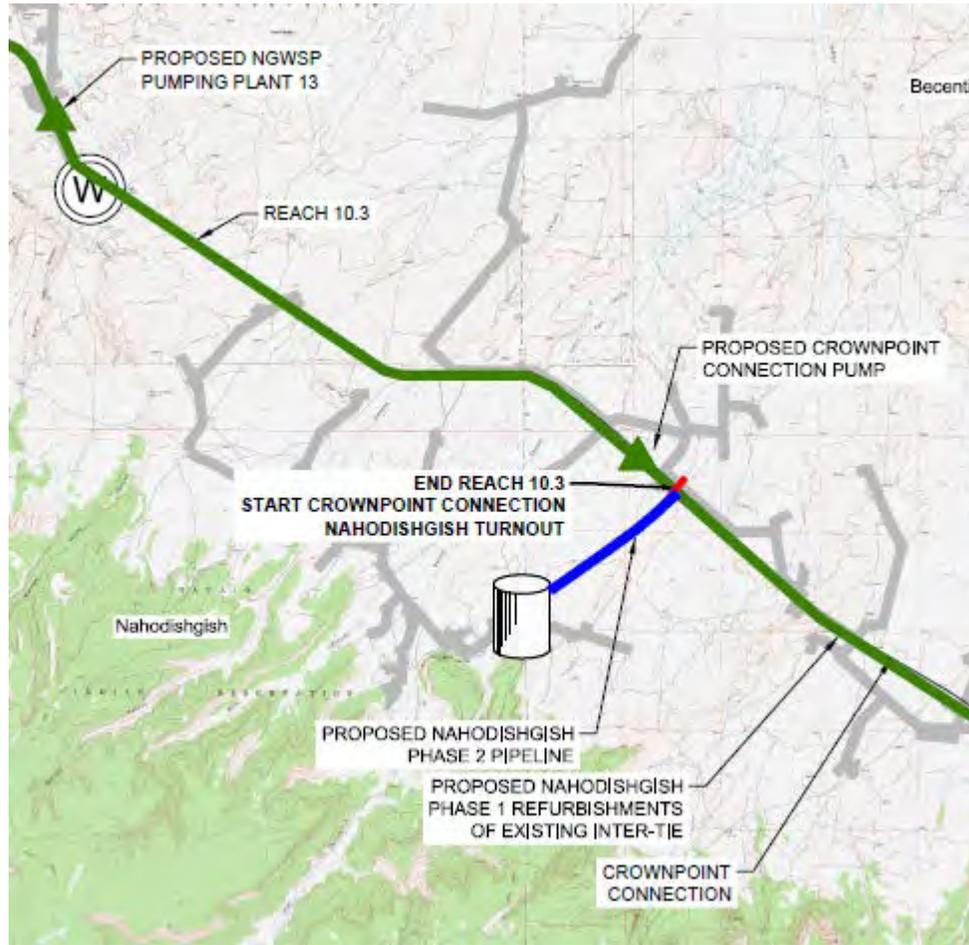
- Phase 1: New pump station, and replace 50% of existing CC tank fill-line
 - 2.2 miles of 8" DR 14 & DR 18 pipe (tie-in to existing tank fill line), new pump station, PRVs for existing branches off of fill line, SCADA
 - Pumped flow
 - Capital Cost: \$2,719,760
- Phase 2: Replace rest of existing CC tank fill-line
 - 2.3 miles of 8" pipe (tie-in to Phase 1 pipeline), Chlorinator, SCADA, tie-in to existing tanks
 - Additional storage: 255,000 gal
 - Pumped flow
 - Capital Cost:
 - Without additional storage: \$2,949,583
 - With additional storage: \$3,673,474
- Capital Cost of both phases of Connection:
 - Without additional storage: \$5,669,343
 - With additional storage: \$6,393,234

Connection to Standing Rock System



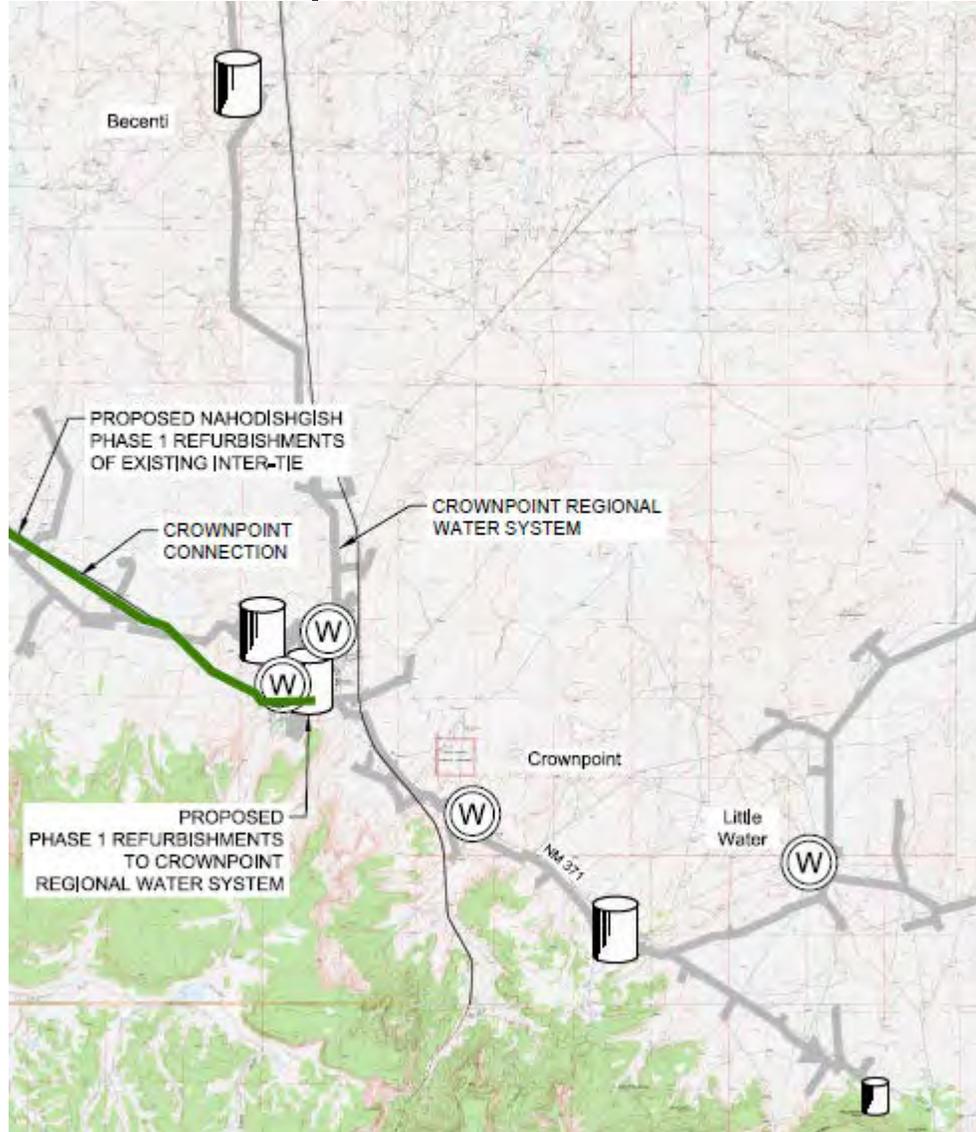
- Phase 1: Connection to Tank #1
 - 1.2 miles of 6" DR18 pipe, Chlorinator, SCADA, new altitude valve on existing Tank #1
 - No additional storage required
 - Gravity flow
 - Tank #1 can serve ~40% of system
 - Capital Cost: \$1,223,036
- Phase 2: Connection to Tanks #2 & #3
 - Construct 3.1 miles of 6" DR18 pipe, booster pump station, SCADA
 - No additional storage required
 - Pumped flow
 - Tanks #2 & #3 serve rest of the system
 - Capital Cost: \$2,730,786
- Capital Cost of both phases of Connection: \$3,953,822

Connection to Nahodishgish System



- Phase 1: Utilize existing inter-tie to the Crownpoint system
 - Use existing inter-tie with Crownpoint regional system to convey water by gravity to Nahodishgish
 - Gravity flow
 - Capital Cost: \$190,220
- Phase 2: Connection to Nahodishgish Tank
 - 2.4 miles of 6" DR18 pipe, Chlorinator, SCADA
 - Additional storage: 140,000 gal
 - Gravity flow
 - Capital Cost:
 - Without additional storage: \$1,993,559
 - With additional storage: \$2,478,720
- Capital Cost of both phases of Connection:
 - Without additional storage: \$2,183,779
 - With additional storage: \$2,668,940

Crownpoint-Becenti-Littlewater System



Crownpoint Regional System (Crownpoint, Becenti, Littlewater)

- Crownpoint Regional System connection is included in updated design for the BBN9 Lateral mainline. No further connections are required. However, improvements with existing regional system are recommended to make sustainable.
- Crownpoint Connection Cost: \$12,403,939
- Becenti will receive SJR water by gravity via existing connection.
- Littlewater will receive SJL water by gravity via existing connection.
- Phase 1 : Crownpoint Regional System improvements
 - Crownpoint #1 Tank altitude valve
 - Crownpoint elevated tank improvements
 - Becenti tanks altitude valve
 - Extend 3-phase power to Littlewater booster pump
 - Capital Cost: \$380,153
- No Phase 2 required

Chapter Connections Costs

Phase 1 Connection Total Capital Costs	
Coyote Canyon Phase 1	\$2,719,760
Standing Rock Phase 1	\$1,223,036
Nahodishgish Phase 1	\$190,220
Crownpoint Regional System Phase 1	\$12,784,092
Total - Phase 1 Connections	\$16,917,108

Summary

Capital Costs*									
Alternative	CCE Cost Ceiling	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8
BBN9 Lateral**	\$63,219,419***	\$65,745,515	\$66,227,520	\$64,377,456	\$63,156,635	\$58,497,086	\$58,823,409	\$52,595,834	\$51,750,186
BBN9 & Phase 1 Connections (CC & SR1 & N & CPR)**	N/A	\$74,300,482	\$74,762,487	\$73,205,033	\$71,984,213	\$63,218,927	\$63,013,145	\$57,971,518	\$57,125,870
BBN9 & All Connections**	N/A	\$79,024,828	\$79,506,833	\$77,929,379	\$76,708,558	\$70,360,750	\$70,687,073	\$66,061,299	\$65,115,651

* Costs include 10% construction contingency

** All costs exclude additional storage tanks, but include pertinent NTUA recommended upgrades

*** Indexed CCE Cost as of Oct. 2016, less 7% BOR Internal Cost

Summary

Capital Costs*									
Alternative	CCE Cost Ceiling	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8
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** All costs exclude additional storage tanks, but include pertinent NTUA recommended upgrades

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Challenges

- Indian Allotment (IA) Rights of Way required (up to 12 parcels)
- Align project with the Chapters' Community Land Use Plans (CLUP)
- High cultural site density
- Rock for a major portion of the alignment

Questions?

