



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

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TO: Colorado Water Conservation Board Members

FROM: Carlee Brown
Interstate, Federal, and Water Information Section

DATE: July 20, 2017

AGENDA ITEM: 17. Colorado River Storage Project Act (CRSP) Memorandum of Agreement (MOA) Annual Update

Background

In 2011, the Upper Division Colorado River Basin States (Colorado, Wyoming, Utah, and New Mexico), the United States Bureau of Reclamation (Reclamation), the United States Department of Energy Western Area Power Administration, and the Colorado River Energy Distributors Association signed a Memorandum of Agreement (MOA) that authorizes the use of the Upper Colorado River Basin Fund (Basin Fund) to further the purposes of the 1956 Colorado River Storage Project (CRSP) Act (Public Law 485) through Fiscal Year (FY) 2025. Under the MOA, the UCRB Fund is estimated to make an average of \$11.5 million in revenues available annually through September 30, 2025, in which Colorado projects would potentially receive 46% of those revenues.

In March 2015, the CWCB approved the Upper Colorado River Basin Fund Memorandum of Agreement Criteria and Guidelines for Prioritization of Projects within Colorado. These criteria and guidelines require Staff to report to the Board annually.

Staff Recommendation

This item is informational only. No Board action is requested.

Use of Basin Fund Dollars under MOA

Since 2011, Colorado has recommended that these Basin Fund dollars be directed towards operation, maintenance, and replacement (OM&R) projects on CRSP Act facilities located in Colorado. More than \$73 million has been allocated to projects in Colorado over the five fiscal years that the MOA has been in place.

CWCB Staff is responsible for determining which projects to propose to Reclamation by July 1 of each year, in consultation with the Colorado River Water Conservation District (CRWCD) and the Southwestern Water Conservation District (SWWCD). Following these consultations, CWCB Staff choose not to submit new proposals to Reclamation this year. With almost all of Colorado's portion of the funds already allocated to previously recommended projects, Staff believes that it would be prudent to allow Reclamation to make progress on funding the existing projects before recommending new projects.



Attached is the most recent update from Reclamation on the progress of each of Colorado's previously recommended projects.

Recent Developments

In September 2016, Reclamation sent a letter to the CWCB Director rescinding approval of multiple projects (and components of larger projects) that had been previously approved for MOA funding. Reclamation stated that upon review with its solicitors, it determined that the facilities to receive funds under the MOA needed to be federally owned CRSP facilities and participating projects. Several of the previously approved projects were put forth by small water conservancy districts which connect CRSP participating projects to irrigators using non-federal infrastructure; these projects were rescinded because they were not entirely federally-owned. This was not the prior understanding of the States regarding how to approach projects, but it appears that the Reclamation staff implementing the MOA were not the exact same as those who helped negotiate it. As such, there was a possible disconnect that CWCB and the other parties are trying to correct.

CWCB has worked with the Upper Colorado River Commission (UCRC) and other Basin States to respond to Reclamation's concerns and to work towards a clearer understanding of the project approval process going forward. Currently, the States are coordinating a group response to a Standard Operating Criteria document and proposed eligibility criteria for future MOA projects. The states will respond to Reclamation with specific feedback on those documents. All parties plan to convene on October 11, 2017 for the next in-person meeting.

The States and Reclamation have discussed a case-by-case process for considering projects that have a combination of federal and non-federal ownership, such as those that were rescinded in Reclamation's September letter. CWCB Staff continues to advocate for an approach that will help optimize existing projects for the intended purpose of the CRSP Act.

Attachment

CRSP-MOA Proposals

Updated 05-08-17

Total CRSP-MOA Expenditures through March 13, 2017 on all 4 states' proposals: \$26,214,708

Colorado Projects

2012 Proposals

Florida Ditch/Canal Linings – Florida Project (CRSP Participating) – **Complete** – WCAO has completed the specifications and designs. Proposal from 8A contractor was significantly higher than the engineer's estimate. WCAO negotiated with 8A contractor. Awarded August 9, 2013 for about \$1.7 Million. The Contractor substantially completed the project on April 30, 2014, in time for water to be delivered on May 7, 2014. Reseeding was completed in late October 2014. The projected total cost of the construction is \$1,750,265.88. Kevin Moran

Fairview Pumps – Dolores Project (CRSP Participating) – **Complete** – Replacement of pumps used to pressurize irrigation water for the Dolores Project. Equipment contract awarded September 18, 2013 for \$1.15 M. Equipment shipments are complete. Contract Completed. Final contract value is \$1,149,014.76 . The installation contract was awarded September 17, 2014 to Yellowstone Electric Company. Contract value is \$547,571.94. Commissioning was coordinated with the supply contract and completed at the same time. All equipment is installed and functioning properly. Contract Completed. Final contract value is \$547,571.94 . Vern Harrell

Lemon Dam Upstream Gates – Florida Project (CRSP Participating) – **Complete** – Replacement of gate seals at Lemon Dam, southwestern Colorado. The Value Engineering study was completed on November 21, 2014. The specifications and drawings were completed. The acquisition package for procurement was completed. Anticipated award of Contract in late July 2015, to include manufacture and installation of government designed bulkhead. Service Agreement in place with TSC for bulkhead design, and engineering is complete. AMD is not confident that they can get a contract awarded by mid-July. Currently vetting various 8(a) contractors in order to maintain schedule. 8(a) contractor ESSI identified, using MedVed, Prime Machine, and AMC as major subs. Proposal received July 27, 2015. The proposal was reviewed for technical adequacy and was found to be unacceptable. Pricing was not reviewed, but fell within budget. Discussions are forthcoming to determine if this contractor can adequately revise the technical proposal to satisfy our concerns, or if Reclamation should cancel the RFP and advertise to full and open competition. In either case the work has been re-scheduled to begin in fall of 2016. The specifications are being revised, and should be submitted back to AMD during the week of November 30, 2015. AMD is telling us that we have to stay with 8(a) program. Work still scheduled for fall 2016, with the contract awarded by July 1, 2016. Still awaiting a decision to exit the 8(a) program, but will still likely have to remain small business. AMD is still confident for an award date of July 1st. We are redesigning the bulkhead from a single 4" orifice, to a 4" orifice and a 6" orifice. This will provide redundancy for making releases, and add capability to release more water. Successfully exited the 8(a) program, and moving forward as a small business set aside. Finalized PR package submitted May 8th. Site visit to be scheduled for week of 6/15/16. Proposals due end of June. TPEC identified and scheduled for July 5th. Award of contract has slipped to 7/30/16. The contract was awarded on September 1, 2016, for roughly \$1.4M, to Gracon. Gracon has proposed an accelerated schedule, and plans to be finished with the work in January 2017, in order to avoid dealing with ice. Weather conditions have caused delays. Contractor currently working on completing repair of 4 gates and hydraulic system. Reservoir ice conditions may delay bulkhead removal. Depending on weather, anticipate completion of all contractual work obligations by March 2017. **Contract was extended until April 15. Work has been completed and dam is fully operational.** Tyler Artichoker

Lower Gunnison Basin Selenium Management – Uncompahgre Project – Gunnison Basin PBO. – **Complete**
The System Optimization portion was funded by the State of Colorado. Water Efficiency Improvements are being implemented. Mark Wernke

2013 Proposals

Silver Jack Reservoir Automation – Bostwick Park Project (CRSP Participating) – Automation of Silver Jack Dam outlet works. WCAO worked through the Technical Service Center (TSC) for design. WCAO did discuss with TSC the possibility of TSC also preparing specifications for an award. Site visit with Toby Steves of the TSC conducted July 8, 2015. Met with Arlen Hilton from Provo office July 16, 2015 at Meeks Cabin to see similar installation. Received proposals from both in September 2015. WCAO did a technical analysis of the proposals to determine which to move forward with. Met with Bostwick Park October 15, 2015. Based upon proposals from TSC and the USBR Provo automation group, and discussion with Bostwick Park we decided to proceed with the automation work by the Provo Office. Bostwick Park will do some of the system modification work with their funds. Reclamation will procure, install and program the automation system. Arlen Hilton and Bob Norman conducted a site visit June 21st to evaluate equipment layout. Arlen Hilton and crew started installation of the automation system the week of September 19, 2016. The project is 80% complete and on hold due to winter access. District completed electrical/mechanical work. **Arlen Hilton plans to finish the project May 12, 2017.** Bob Norman

Aspen Canal Lining – Smith Fork Project (CRSP Participating) – Aspen Canal piping. A site visit was conducted on July 16, 2015 with several board members from the Crawford Water Conservancy District along with WCAO engineers for a project assessment. A conceptual plan for piping was presented to the board members from the Crawford Water Conservancy District (CWCD) on October 29, 2015. Reclamation met with CWCD on August 18, 2016 for further right-of-way discussions. CWCD still needs to contact several landowners to see if they are interested in exchanging ROW for several reaches of alignment. Survey data collection began in October 2015 and due to depth of silt deposition in the canal the surveying was completed in May of 2016. **Reclamation met with CWCD on January 31 and March 8, 2017 to further clarify design criteria and project needs. Current schedule has design being completed by December 1, 2017. This should allow for the Acquisition Staff in Salt Lake City to solicit a contractor and allow construction to begin early fall of 2018.** Mark Wernke

Paonia Reservoir Sedimentation Study – Paonia Project (CRSP Participating) – Sedimentation study to develop alternatives to maintain or prolong reservoir capacity. WCAO has entered into a Service Agreement with the TSC for a \$212,000 scope of work. Work includes sediment surveys, sampling, upstream and downstream evaluations, and development of various alternatives. USGS has installed automatic sediment samplers. TSC has completed river survey below Paonia Reservoir. Bathymetric survey of entire reservoir completed week of June 10, 2013. TSC crunching numbers, will develop a new Area Capacity Table. Work is in progress. Received draft Data Collection Technical Memorandum on Paonia Reservoir, Muddy Creek, and North Fork on January 14, 2014. The data collection report should be final once new data is collected from the new agreement with the TSC. The one-dimensional sedimentation transport model should commence the week of March 17, 2015. Awaiting final sedimentation report from Kent Collins of the TSC. New Project Management Plan (PMP) was signed March 12, 2015 with TSC to numerically simulate 2015 flows and dam operations, evaluate model results, and develop recommendations for short term management of reservoir sediment. TSC did supply an updated area-capacity table for dam/reservoir operations on March 11, 2015. USGS completed installation of three new gauges for sediment monitoring on April 9, 2015. These are located on Muddy Creek, Anthracite Creek, and North Fork of the Gunnison below Raven Gulch near Somerset. This was the result of a new request from the State of Colorado. Regular conference calls are occurring. New bathymetric survey conducted June 29-30, 2015. Draft report received August 3, 2015. Reviewed by WCAO and the district. Received the final report for 2015 sediment modeling. **For current updates see Dam Outlet Works Modifications and Inlet Repairs under the 2016 proposals.** Tom Fowlds

2014 Proposals

Basin Creek Gaging Station – Animas-La Plata Project (CRSP Participating) – **Complete** – Agreement with State of Colorado to O&M the instrument is in the acquisitions process. Work is complete, including final construction report. The final expenditures were \$100,596 which is \$149,404 under budget. WCAO included the maintenance (by State of Colorado) with an existing contract. Tyler Artichoker

Pleasant View/Ruin Canyon Pumping Plants – Dolores Project (CRSP Participating) – This was modified by the FY15 Priority 1 proposal for Dolores. See 2015 proposal below for update information. Vern Harrell

Silt Pumping Plant Pump Replacement – Silt Project (CRSP Participating) – Replacement of pumps used to raise water from Colorado River to irrigate supplemental project lands. Project to include other water efficiency improvements. XCEL Energy plans to upgrade power transmission line to a higher voltage sometime between 2015 and 2017. TSC has sent out 90% design and specs for the pumping plant upgrade. Representatives from Silt Water Conservancy District (SWCD) and WCAO traveled to TSC for a 90% review Mar 9-11, 2015. Completed specs and requisition were sent to Salt Lake City in September 2015. The project has been assigned to a contract specialist and the milestone schedule shows an award date of July 20, 2016. However the solicitation was not issued on March 11, 2016 as per the schedule. **The contract was awarded September 16, 2016 to Aslan Construction with construction planned for the winter of 2017/2018. Reclamation had a pre-construction meeting on December 6, 2016 and a partnering meeting on February 17, 2017. Submittals are being received and reviewed by Reclamation. Construction is scheduled for completion May of 2018.** Matt Bryner

2015 Proposals

Pumping Plant Replacements Priority 1 – Dolores Project (CRSP Participating) – This contract will supply electrical equipment for four pumping plants, Pleasant View, Ruin Canyon, Cahone, and Dove Creek. The acquisition initiation meeting (AIM) was completed February 19, 2015. The solicitation went out in July, proposals were received July 21, 2015, TPEC review completed July 27, 2015, contract award September 17, 2015. **For Pleasant View, Ruin Canyon and Dove Creek pumping plants field service commissioning is complete. The only remaining work includes commissioning Cahone Pumping Plant VFD's (2018).** Vern Harrell

Pleasant View/Ruin Canyon Pumping Plants ASD Install Priority 2 – Dolores Project (CRSP Participating) – **Complete** - The Pleasant View/Ruin Canyon Pumping Plant installation contract new milestone dates are: AIM completed July 20, 2015, solicitation out for bid November 24, 2015, site visit December 8, 2015, proposals due December 23, 2015. The Pleasant View/Ruin Canyon Pumping Plant Equipment Installation contract was awarded January 29, 2016 to Yellowstone Electric Co. The contract is complete. The final contract value is \$497,496. Vern Harrell

Vertical Turbine Pump Re-Builds Priority 3 – Dolores Project (CRSP Participating) – The Vertical Turbine Pump Rebuild contract was awarded January 29, 2016 to All American Technical Team, Inc. of Farmington, NM. The contract involved rebuilding two pumps for Pleasant View Pumping Plant, two for Ruin Canyon, two for Dove Creek, and three for Cahone. The contractor completed the rehabilitation and delivery of the Pleasant View and Ruin Canyon 250 hp pumps in 2016. A modification for unanticipated repairs was completed. The result of the modification is a contract increase of \$28,032.73. **Pumps for Dove Creek have been rebuilt. Cahone Pumping Plant pumps will be removed after October 2017 and rebuilt during the winter of 2017/2018. The contract will be completed in 2018.** Vern Harrell

Florida Ditch/Canal Linings – Florida Project (CRSP Participating) – Need clarification of where work to be performed to determine ownership. WCAO working on ownership. **Ownership still being verified; however, federal ownership of the Florida Farmers Ditch West and the Florida Ditch has been verified. Easements will need to be obtained by Reclamation, before construction can occur. WCAO will meet with water users in the next 3 months to determine scope of project and the necessary design data that will need to be collected. Current schedule calls for survey data to be collected in the non-irrigation season of 2017/2018. Construction would tentatively begin fall of 2019 or 2020.** Kevin Moran

Lemon Reservoir Nuisance Species Control – Florida Project (CRSP Participating) – Summer 2015 WCAO plans to meet with Forest Service, Colorado Parks & Wildlife, and Florida Water Conservancy District to discuss design, construction and operation of the inspection and decontamination facilities. This meeting was conducted on June 5, 2015. Follow-up site visit conducted July 22, 2015 with Jay Bytheway for preparation of service agreement with UC Regional Design Group. Service agreement signed July 29, 2015 for preparation of final design, specifications and cost estimate by December 31, 2015. WCAO will complete pre-design survey work, procurement package and provide contract administration and construction inspection. Preliminary design and specifications sent on February 26, 2016 for review and comment by Forest Service, Colorado Parks & Wildlife, and Florida Water Conservancy District, comment deadline March 31, 2016. Comments submitted by the Forest Service led us to consider an alternate location for the inspection and decon facilities along the east side of the boat ramp access road to avoid congestion of the USFS campground/boat ramp parking area and provide more efficient traffic flow for boat inspection, decon and launching. FWCD also submitted comments. BOR took comments into consideration and Jay Bytheway submitted a new 30% design on April 29, 2016. This design was reviewed by Kevin Moran, and discussed on May 10, 2016. As of August 2016, design 70% complete. Percolation tests will be needed. Completion of final design and specifications is expected fall 2016, construction in 2018. Provo force account may be able to perform construction. However, on October 14, 2016, the design work was put on hold because John Ey, with Florida Water Conservancy District, the Forest Service, Colorado Parks and Wildlife, and Reclamation are exploring changing the reservoir designation from motorized to non-motorized boating. If this occurs, the boat inspection facilities may not be needed. John Ey is in the process of scheduling a meeting with previously mentioned agencies so this option can be discussed further. If it is determined that the boating designation will not change, then the design will be completed in spring 2018, and John will work with local entities to provide operation and maintenance funding after construction. **However, recently, the FWCD, with support from Reclamation and the City of Durango, asked the Forest Service to close the reservoir to motorized boats so as to protect against mussel infestation. The Forest Service agreed and implemented a 1–3 year temporary closure effective May 1, 2017. The closure will be reviewed annually. At this time, all design work is on hold.** Melissa Werkmeister

Ridges Basin Mussel Inspection and Decontamination – Animas-La Plata Project (CRSP Participating) – Power Office gave approval via email to accelerate this FY15 funding to immediately begin the design work. AutoCAD drawings of the City of Durango's concept for entry station were received and routed to Environmental Planning group for initial cultural resources assessment. Service Agreement with Regional Office Design Group was signed; area was surveyed week of June 2, 2014 and survey data provided to Regional Office by June 9, 2014. Revised schedule is to have a final design and specification package completed by end of October 2014. Specification completed by UC Regional Design Group and reviewed by WCAO. NEPA sufficiency review completed and consultation letters were mailed to 26 Tribes and SHPO pursuant to Programmatic Agreement. However, upon receipt of comments from Ute Mountain Ute Tribe, the area of potential effect was resurveyed and subsequent consultation with SHPO has been initiated. Anticipate construction beginning in late summer 2015 under 638 contract with Wemenuche Construction Authority (WCA). WCA currently working on proposal for performing the work. Hydrologist assessing potential runoff for 25, 50, 100, and 500-yr return periods. Results will dictate storm water treatment approach. We expect to receive a proposal from the contractor by June 1, 2015. This will be followed by a technical analysis of the proposal, and negotiation of scope and price. Proposal received July 27, 2015, and was significantly higher than budgeted amount and the IGCE. WCAO will complete technical analysis of the proposal, followed by negotiation of scope and price. Contract awarded fall 2015. Negotiations with contractor completed. Awarded task order in November 2015 and ground work to beginning week of June 13, 2016. Two additional modifications were required for utility relocations, and some additional paving, concrete, and communications work. These mods will not be utilizing MOA monies, but will overlap with some of the MOA work, which is currently underway. Expected completion of the mussel and decontamination station is November 2016. **Due to winter shutdown, completion (curb and gutter work and some paving) will occur summer 2017.** Robert Stump

2016 Proposals

Power Line Road Rehabilitation – Animas-La Plata Project (CRSP Participating) – Work is underway to develop scope of work, Independent Government Cost Estimate (IGCE), and contract requirement documents for modification to existing PL 93-638 contract with WCA. Trying to time work subsequent to the mussel station construction for the sake of efficiency, and potential damage from hauling in materials and equipment. Specifications to be complete by end of calendar year. Scope will include installation of aggregate base course, articulated concrete mats, a drainage settling pond, and miscellaneous drainage improvements. Specifications are 90% complete, but concurrently working on a new contract vehicle, since the envisioned contract will expire in September 2016, and thus cannot be further modified with time to complete work before the expiration. . The concept of the settling pond has been removed from the scope of this work. Still awaiting contract vehicle determination, but will likely be a new competitive contract. **Currently working on design and cost estimates; anticipate design completion by fall 2017.** Tyler Artchoker

Great Cut Pumping Plant Replacements Priority 1– Dolores Project (CRSP Participating) – **The contract was awarded July 20, 2016 to PAF Electrical, Inc. Excitation components were delivered and are being installed. The contract is 89% complete with the field service component remaining.** Vern Harrell

Supervisory Control and Data Acquisition SCADA for Canal Automation Priority 2– Dolores Project (CRSP Participating) – **Final design work is complete. Specification drafting is complete. Purchase request package submitted in May. Anticipate award July 2017 with completion early 2018.** Vern Harrell

Pumping Plant Traveling Screen Replacement Priority 3– Dolores Project (CRSP Participating) – No activity yet. Vern Harrell

Installation of Cimarron Ditch Inflow Measurement Equipment – Bostwick Park Project – (CRSP Participating) – **When the District is ready, WCAO will meet with them to discuss equipment details and that ownership of the equipment will remain with the Bureau of Reclamation.** Ryan Christianson

System Optimization and Water Efficiency Study – Bostwick Park Project – (CRSP Participating) – **Complete -** Per Allen Distel President Bostwick Park Water conservancy District, this study was funded by grants from Reclamation (WaterSmart/field service) and CWCB. **WCAO received a copy of the final study.** Ryan Christianson

Aspen Canal Lining – Smith Fork Project (CRSP Participating) – Combined with 2013 proposal. Mark Wernke

Dam Outlet Works Improvements – Smith Fork Project (CRSP Participating) – No activity yet. Mark Wernke

Increase Capacity of Feeder Canal Siphon – Smith Fork Project (CRSP Participating) – WCAO has had initial discussions and a site visit with Crawford Conservancy District. **The siphon capacity will be evaluated along with the Feeder Canal in the winter of 2017/2018 after the Feeder Canal data is collected.** Mark Wernke

Reservoir Inflow Measurement and Telemetry – Smith Fork Project (CRSP Participating) – No activity yet. Mark Wernke

Daisy/Feeder Canal Capacity Increase Study – Smith Fork Project (CRSP Participating) – WCAO has had initial discussions with Crawford Conservancy District and the District is going to collect flow records for Smith Fork. **Current schedule has survey data being collected in the summer of 2017 while the canal is out of operation.** Mark Wernke

Canal Monitoring and Automation – Florida Project (CRSP Participating) – **WCAO will work with the District and limit project scope to federally owned facilities.** Kathleen Ozga

Dam Elevators Repair – Paonia Project (CRSP Participating) – Concrete repair work was done on October 19, 2015 to address condensation problem. TSC will return in summer of 2016 for a follow-up when the reservoir is at a higher elevation. TSC Funding Agreement in place for completing work. In December 2016, TSC completed additional concrete crack repairs. In May 2017, when the reservoir is full, the elevator shaft will be evaluated to see if additional grouting/repair is needed, and a site visit will be scheduled with elevator companies. Tom Fowlds

Dam Outlet Works Modifications and Inlet Repairs – Paonia Project (CRSP Participating) – Worked on a service agreement with Denver TSC for intake design. A kickoff meeting was held August 26, 2015 to establish scope of work and potential team members. Received draft Project Management Plan PMP from TSC November 16, 2015. WCAO reviewed the PMP and provided comments back to TSC. The PMP was approved on January 19, 2016. A kickoff meeting was held on January 25, 2016 highlighting the schedule and budget. The main activities that will happen this year are: 1) Sediment management evaluation for both short and long term operations. Sediment management evaluation for short term is complete and operation recommendations were given to the District. We are waiting for long term operations recommendations. 2) Outlet works intake structure evaluation for short term operation. Outlet works intake structure evaluation for short term operation has been completed. A plan is being developed to remove the existing bulkhead this fall. 3) Sediment sampling, testing, and documentation in areas where construction may result in removal or erosion of deposited sediment. PN drill crew made a site visit on March 29, 2016 to assess the feasibility of getting a barge on the reservoir. Access and cost were problematic and it was decided to use vibracore sampling. Additional sampling may be necessary depending on the results of the vibracore sampling. Sediment sampling and bathymetric survey work was completed in June 2016 and results provided to all interested parties. **Planned work to remove the existing bulkhead starting in September 2017 is moving forward. EA was finalized and, an application will be submitted to the COE for a 404 nationwide permit. Materials for the work platform and temporary trash rack have been ordered and delivered. Preparation work on the delivered material has been completed. WCAO and Fire Mountain Canal employees will be performing the work to remove the bulkhead and construct the temporary trash rack. WCAO employees attended bulkhead removal planning meeting January 19, 2017 in Denver. WCAO employees attended a Paonia alternatives meeting March 23rd and 24th. TSC holding monthly progress meetings.** Tom Fowlds.

Fire Mountain Canal Safety Improvements – Paonia Project (CRSP Participating) – No activity yet. Tom Fowlds

Replace Fire Mountain Canal Diversion Structure – Paonia Project (CRSP Participating) – No activity yet. Tom Fowlds

Planning Study on Long-Term Delivery System Improvements – Paonia Project (CRSP Participating) – No activity yet. Ryan Christianson

Davie Ditch Pipe Installation – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

Silt Pump Canal Pipe Installation – Silt Project (CRSP Participating) – Surveying has been completed and a preliminary alignment has been selected. Design and specs have been completed and were submitted in May 2016 for solicitation of a contractor. The acquisition group in Salt Lake City is preparing the solicitation for advertisement. A contract is planned to be awarded in order for construction to begin in the fall of 2017. Supporting work for the NEPA process has been completed. Right-of-way activities are complete. This work will be included with the GK Lateral Pipeline Project, see East Canal Water Efficiency Improvement Structure - Uncompahgre Project below. Mark Wernke

Inspect Silt Pump Canal Siphons and Rehabilitate – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

Dry Elk Valley Lateral Lining – Silt Project (CRSP Participating) – No activity yet. Kathleen Ozga

Ridgway Reservoir Mussel Control – Dallas Creek Project (CRSP Participating) – Secured the services of UC Regional Design Group for preparation of final design, specifications and cost estimate for the inspection and decontamination station in May 2015. Received a preliminary draft site plan on June 12, 2015 and met onsite June 18, 2015 with regional design engineer and Colorado Parks and Wildlife staff to evaluate proposed site and discuss site plan development. Site surveying was completed July 20, 2015. The environmental analysis was completed July 24, 2015. The 70% drawings with cost estimate, and specs were completed October 20, 2015 and sent out for review. The WCAO Design and Construction Group will assist the project with construction contracting. Site plans have been reviewed and comments sent back to Regional Design Group. A borrow site was determined to be necessary earlier in October and a borrow site was identified and selected adjacent to the project site. The CEC was amended to include the borrow site and was re-issued. The 90% drawings or complete final draft should be ready the end of November or first week of December for final review. Our project team (Reclamation and CPW staff) met at Ridgway State Park in January 2016 to find ways to reduce the costs to stay within budget. Re-sizing and re-positioning the proposed layout/design would significantly reduce the estimated cost of the project. CPW took the first stab at this and provided WCAO with a digital overlay of the design drawing addressing the items discussed. **The final design and specs were submitted in December 2016 to the acquisition group in Salt Lake City, expect a contract will be awarded in June 2017.** Melissa Werkmeister

East Canal Water Efficiency Improvement Structure – Uncompahgre Project – WCAO met with the Uncompahgre Valley Water Users Association (UVWUA) and Cal Poly to begin planning the East Canal water efficiency structure on January 26, 2015. Design and specs have been completed for replacing the first 2 miles of the GK Lateral with pipe and were submitted in May 2016 for solicitation of a contractor. The acquisition group in Salt Lake City is preparing the solicitation for advertisement. A contract is planned to be awarded in order for construction to begin in the fall of 2017. Supporting work for the NEPA process has been completed. Right-of-way activities are complete. Mark Wernke

Dolores Project Pumping Plants – Vertical Turbine Pump Rebuilds (Modification) – Dolores Project – **This project was approved by the State of Colorado and the Bureau of Reclamation. Project funding will come from previously approved projects that were completed under budget. Work involves rebuilding the remaining vertical turbine pumps not included in the present vertical turbine pump contract mentioned above. The specification is in final review with purchase request submission July 2017. Anticipate to award in 2018.** Vern Harrell

New Mexico Projects

2012 Proposals - None Approved

2013 Proposals

Top Water Bank – Navajo Unit (CRSP Mainstem Unit) – Proposal is pursuant to PL 111-11, Section 10401. Discussions continue with the State of New Mexico (Office of State Engineer and Interstate Stream Commission [ISC]). Final product will likely be a form contract with a set of rules and regulations for each water right permit holder that is eligible to participate. It is anticipated that the United States will execute an excess capacity contract with the State of New Mexico to use available storage in the reservoir for the Top Water Bank, which will outline the terms, conditions and obligations of the State. The State will serve as the administrator of the water bank. A pilot program is being considered that can be implemented without the need for active water rights administration by the State. The State has been provided an example of methodology used to quantify water that is eligible to be banked which is acceptable to Reclamation. We are awaiting a new set of rules and regulations that implements this methodology for a pilot program. Obligations will be mostly salary and are underway. On January 13, 2017, a conference call was held with the New Mexico Interstate Stream Commission (NMISC) to discuss the need for an excess capacity contract between the New Mexico and Reclamation. WCAO/Regional Office agreed to provide information regarding the contracting process to the NMISC. **WCAO/Regional Office provided the information requested and are awaiting a response from NMISC.** Ryan Christianson

Hammond Evaluation Study – **Complete** - Hammond Project (CRSP Participating) –Final report received August 4, 2014. This work is complete. Final cost of \$136,416, which is \$13,584 under budget. Cost authority was closed. Tyler Artichoker

San Juan Diversion Metering – Navajo Unit Operations (CRSP Mainstem Unit) – This project replaced aging ditch diversion metering equipment and added equipment to allow for telemetry and public dissemination of collected data at diversions along the San Juan River below Navajo Dam. The New Mexico OSE evaluated sites, and developed a list of needed equipment which was provided to Reclamation. The contract has been awarded and all equipment received. The OSE will be responsible for the installation and maintenance. **The OSE would like to purchase additional items against the remaining balance, Reclamation is awaiting further details from OSE.** Marc Miller

Navajo Reservoir Mussel Control – Navajo Unit (CRSP Mainstem Unit) – WCAO had a Service Agreement with TSC for design of temporary boat inspection and decontamination facilities at the Pine River Recreation Area, Navajo Lake State Park, New Mexico. As a result New Mexico State Parks (NM Parks) completed asphalt repair, underground utility conduits, and paint striping for the temporary inspection facility under an existing grant agreement between Reclamation and NM Parks (separate funding, not CRSP MOA). New service agreement with UC Regional Design Group was signed July 29, 2015 for preparation of final design, specifications and cost estimate by January 29, 2016. WCAO will complete procurement package and provide contract administration and construction inspection. New Mexico Department of Game and Fish (NMDGF) inspection staff was onsite to conduct boat inspections for the summer of 2015. In 2016 WCAO hired a private contractor Rocky Mountain Recreation to conduct inspections and decontaminations. Preliminary design and specifications sent on February 26, 2016 for review and comment by NM Parks and NM Game & Fish, comment deadline March 31, 2016. Completion of final design and specifications is expected late spring 2017. WCAO is researching separate procurement for portable office and using Provo force account for construction. Anticipate construction in winter 2018. The need for a second boat inspection and decontamination facility was identified for the second boat ramp located at Simms Mesa, and this area has been inspected and surveyed, and SHPO concurrence received. A new service agreement with the UC Regional Design Group for designing the second facility will be executed in spring 2017. **The boat inspection facility at Simms Mesa is on hold pending a new site selection at the Pine River Recreation Area. Because of additional expenses associated with a traffic study and subsequent construction of acceleration/deceleration lanes on NM State Highway 511, Reclamation and its partners are evaluating whether or not to locate the decontamination area within the state park.** Melissa Werkmeister

2014 Proposals

Navajo Reservoir Inflow Augmentation – Navajo Unit (CRSP Mainstem Unit) – Weather Modification – Reclamation is analyzing the state of the science of weather modification and evaluating its position in support of weather modification.

Installation, O&M of Snotel Snowpack Measurement Stations – Application withdrawn July 7, 2013.

Hammond Improvements – Hammond Project (CRSP Participating) – Kevin Flanigan sent priority list on September 2, 2014 identifying priorities and responsibilities. IGCE valued the cultural resource (CR) work at \$72,000. Task order awarded to HDR for \$67,046. Field surveys by the contracted archaeologists are ongoing. Inspection of the drain system is complete, and a final report with recommendations was transmitted in October 2015. Planning is underway to inspect and rehabilitate the project drainage crossings (undershots), which are all currently 100% plugged. Planning is underway for siphon inspections and cleaning. Quote received for new pump at Armenta of roughly \$300k; however, awaiting analysis by TSC engineers to determine if any changes should be made for more efficient pumping to the laterals, possibly eliminating the need for the auxiliary pumping plant entirely. Service Agreement in place, but likely need another for engineering work. TSC witnessed pump rebuild by All-American Technical Team. TSC site visit was completed with recommendations for canal modernization and rehab efforts. Received approval for some minor building energy improvements, but no action yet. New flow meter and approach vanes installed for West Highline Canal. New flow meter and approach vanes installed for East Highline Canal. Approximately 95% complete with comprehensive assessment of Main, East and West Highlines, and Gravity canals, including the diversion dam. Temporary canal lining repair was performed at location where concrete lining was previously terminated and being undermined by eddy. Received new priority list from NM on July 13, 2015. Received quotes for power service to auxiliary pumping plant on July 23, 2015. Reilly Industrial rehabilitated one undershot. Cultural resources report completed, letter sent to SHPO recommending that no HCD features should be considered eligible for the national register. Will await SHPO concurrence. Point of contact for NM ISC is no longer Flanigan, rather Kristin Green. Specifications complete and AMD processes underway for upgrading 3.5 miles of power line, and demolition/reconstruction of auxiliary pumping plant. These two items need to be complete prior to the next irrigation season, and are highest priority. TSC working on two Service Agreements; one for canal modernization (telemetry, automated gates, SCADA, etc.) and one for canal lining or piping investigations. Anticipate multi-year Agreements to be executed December 2015. Quotes received for overhead doors at shop and Armenta pumping plant, as well as for EIFS insulation systems. Specifications being prepared for Armenta pumping plant roof replacement. Overhead doors were replaced at the shop and Armenta pumping plant. Service Agreement approved for canal modernization. Specifications underway for fencing and security features at diversion dam. Specifications underway for replacing the trash rake. Service Agreement executed for piping/lining investigations. Site visit conducted for piping/lining with TSC. Canal automation design and procurement are underway, at TSC. Radio pathways checks conducted the week of May 30, 2016. Specifications have been completed for new automated trashrake. Natural gas service has been extended into July 2016, possibly avoiding temporary power for aux. pumping plant. Received SHPO concurrence for the aux. pumping plant and the power line work. Site visit with RMEC conducted May 23, 2016, for aux. pumping plant replacement design-build. Reviewing the submitted proposal. Security system at diversion dam installed week of May 16, 2016. Electrical panel replacement completed the week of May 23, 2016. Contract for power line extension and upgrade executed, work started June 6, 2016. **Power line work is complete. Aux. pumping plant contract awarded to RMEC, design work and submittals are underway. Started onsite work October 17, 2016. As of January 2017, most of the work is completed. Waiting on water district contract before BOR can finish installation of electrical in the building. Automated trash rake PR package completed and submitted last November 2016. Currently going through the acquisition process; anticipate contract award fall/winter 2017. Equipment for telemetry received, radio checks completed, and anticipate installation completion in April 2017.** TSC is working on a FER for investigations into canal lining versus piping in two reaches, under existing Funding Agreement. **FER investigations completed; TSC working on design and cost estimate completion by summer 2017. The Aux. pumping plan contract has been completed. Installation of the electrical in the building has also been completed.** Tyler Artichoker

2015 Proposals

Hammond Conservancy District Proposals – Hammond Project (CRSP Participating) – This will be combined with the FY14 approved funds. See above for update. Tyler Artichoker

2016 Proposals

Hammond Conservancy District Proposals – Hammond Project (CRSP Participating) – This will be combined with the FY14 approved funds. See above for update. Tyler Artichoker

Comprehensive Evaluation of Infrastructure in the San Juan Basin of New Mexico – Held a kick-off meeting on December 1, 2015 to discuss the scope of this study. A PMP and Service Agreement for the study was signed March 11, 2016. Patricia Cronin and Matt Gemperline from Denver TSC conducted four site visits from May – August 2016 to the study area. Monthly progress conference calls are being conducted with project participants. Project completion date extended to August 1, 2017. New PMP signed November 9, 2016 showing new schedule and cost. Copy of PMP sent to Kristin Green NMISC. **Draft report scheduled for June 1, 2017.** Ted Dunn