

# RECLAMATION

*Managing Water in the West*

**MID-PACIFIC CONSTRUCTION OFFICE**  
Willows, California

## **Construction Progress Report L-29**



U.S. Department of the Interior  
Bureau of Reclamation  
Mid-Pacific Region  
Mid-Pacific Construction Office

October 2017

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# CONSTRUCTION PROGRESS REPORT (L-29)

## MID-PACIFIC CONSTRUCTION OFFICE

### MID-PACIFIC REGION

### OCTOBER 2017

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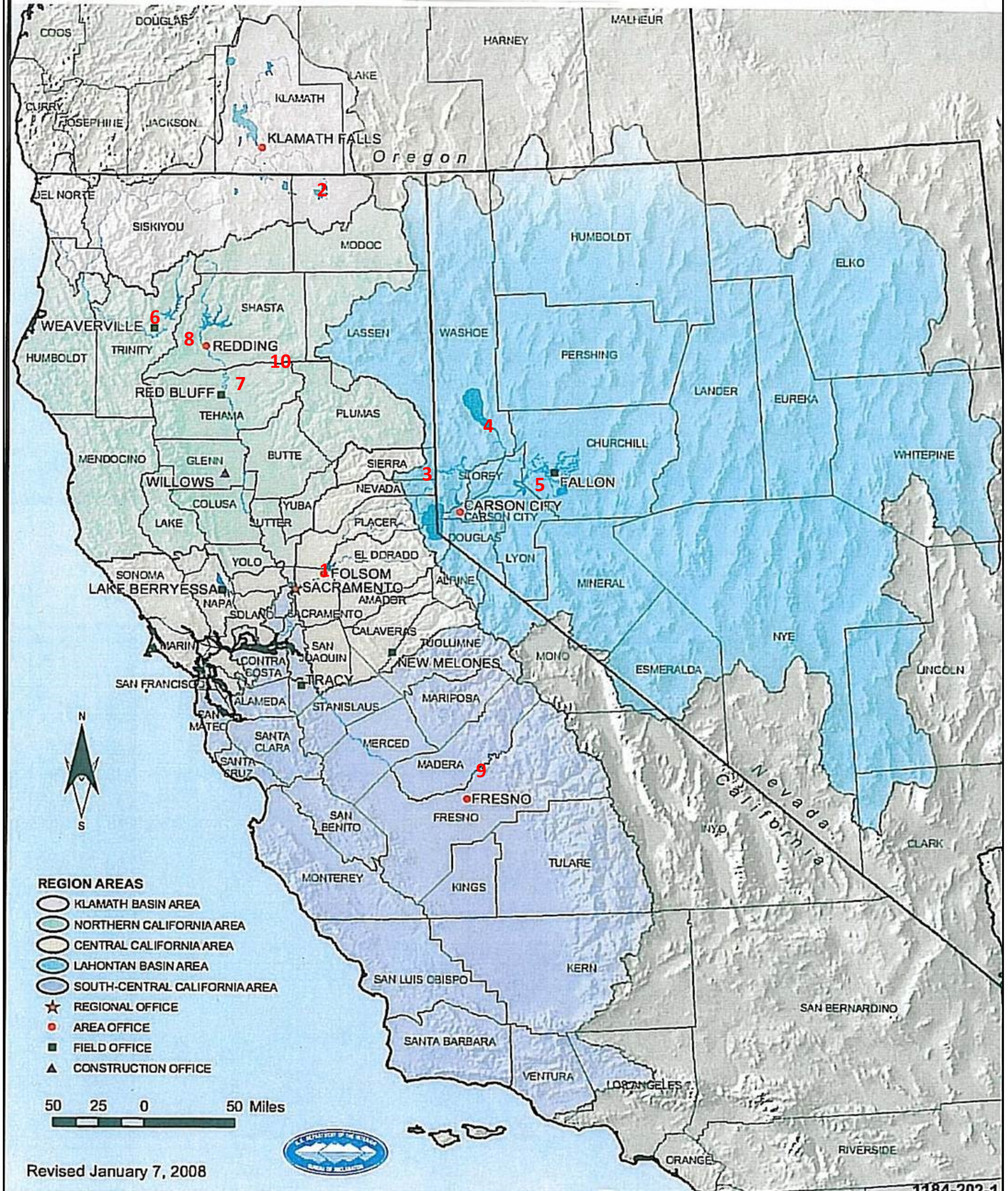
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# Areas in the Mid-Pacific Region Where Work was Performed

## Mid-Pacific Region

**RECLAMATION**  
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# **STAFFING**

## **MID-PACIFIC CONSTRUCTION OFFICE**

The Mid-Pacific Construction Office had 34 construction and administrative employees at the close of this month as follows:

Construction Engineer's Office.....	1
Preaward and Project Management Group.....	3
Administrative Management.....	6
Division of Field Engineering.....	17
Division of Office Engineering.....	4
Materials Lab Branch.....	3

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# GLOSSARY

## ACRONYMS AND ABBREVIATIONS

ACRONYM	MEANING
CCAO	Central California Area Office
CVP	Central Valley Project
KBAO	Klamath Basin Area Office
LBAO	Lahontan Basin Area Office
MP	Mid-Pacific Regional Office
MPCO	Mid-Pacific Construction Office
NCAO	Northern California Area Office
SCCAO	South Central California Area Office
SJRRP	San Joaquin River Restoration Program
TO	Tracy Office

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# **Central California Area Office**

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**Contract No. R10PC20019**  
**Specification No. 20-C0689**  
**Folsom Power Plant Generators U1, U2, and U3 Rewind and**  
**Excitation System Replacement - Folsom Unit, American River**  
**Division, Central Valley Project, California**  
**Andritz Hydro, Charlotte, NC**

Work Performed	October	0.0%
	Time Elapsed	100.0%
	Work Completed	100.0%
Contractor Earnings	October	\$0.00
	Previous	\$20,610,792.74
	Total to Date	\$20,610,792.74

**Area Office Project Management**

Project Manager: Jonathan Rogado, MP-250

**Office Engineering**

Contract Administrator: Larry Bowman, MPCO-240

Before contract completion the following work will be performed:

Acceptance testing for Unit 3.

Remaining warranty inspections for Units 1, 2, and 3.

Final submittals (including As-built Drawings and O&M Manuals).

**Field Engineering**

Construction Manager: Reynaldo Garcia, MPCO-310

Construction Representative: Todd Dooley, MPCO-314.

Number of Contractor Employees: 0

**Work Performed**

No onsite work was performed during this period.

**Contract No. R14PC00096**  
**Specification No. 20-C0816**  
**Nimbus Dam Radial Gate Repairs, Phase III – Nimbus Dam,**  
**American River Division, Central Valley Project, California**  
**Alltech Engineering Corporation, Mendota Heights, MN**

Work Performed	October	3.3%
	Time Elapsed	100%
	Work Completed	56.3%

Contractor Earnings	October	\$564,363.06
	Previous	\$9,722,615.61
	Total to Date	\$10,286,978.67

**Area Office Project Management**

Project Manager: Jonathan Rogado, MP-250

**Office Engineering**

Contract Administrator: Larry Bowman, MPCO-240

Invoice No. 27, in the amount of \$564,363.06 for work performed from September 1, 2017 to September 30, 2017, was received this reporting period.

**Field Engineering**

Construction Manager: Reynaldo Garcia, MPCO-310

Construction Representative: Michael Manlick, MPCO-313

Number of Contractor Employees: 14

**Work Performed**

Scaffolding was erected across the upstream and downstream sides of Gate 5 and around each of the trunnion arm assemblies. Deck planks were then put in place near Gate 5. Access ladders and self-closing safety doors were then installed on Gate 5. The heat-shrink poly-wrap containment was installed around the scaffolding on the upstream and downstream sides of the gate and around each of the trunnion arm assemblies. Then hoses and ducting was installed for blasting and dust collection. New bottom and side seal bars were fabricated and then used to transfer the bolt patterns to the new seal. Abrasive blasting work was performed on the gate, trunnion arms, new seal clamp bars, and gate shoes, achieving a near white finish that achieved an angular profile in accordance with specifications. Samples of the spent blast medium were lab tested and verified to be non-hazardous. The containment area was cleaned and vacuumed after the blasting operation. Weld pit repairs were performed and two deteriorated gate bolts were replaced. The expanded metal lath for the cable wear pads was tack-welded to the upstream face of Gate 5. Reblasting was performed on the gate in order to blend in weld repairs and to remove all of the surface rust that had accumulated during the weld pit repairs.

A soluble salt test was performed, with the results being negative. An initial coat of the two-part epoxy was applied to all near-white steel in order to prevent surface rusting. Following that, the first full coat of epoxy was applied to both the upstream and downstream sides of the gate and the trunnion arm assemblies. Stripe coating was applied to all joints, crevices, nut/bolt heads, and seams of the gate and trunnion assemblies. Caulking was applied where the stripe coating did not bridge the gaps. Wearing compound was applied over the expanded metal lath at the cable wear pads.

Workers cleaned, prepped, primed, and top coated handrails along the upstream side of the dam's bridge deck, as well as along the upstream side of the power plant.

Painters cleaned, sanded, prepped, primed, and top coated operator drive shafts and small sections of hand railing at each of the stairways between gates, from Gate #18 to Gate #7. The coatings at these areas had been chipped and scraped during installation and removal of scaffolding used for this contract's gate repairs.

**Contract No. R16PC00075**  
**Specification No. 20-C0838**  
**Folsom UHA Switchgear Replacement – Folsom Unit, American**  
**River Division, Central Valley Project, California**  
**Cal Electro, Inc., Redding, CA**

Work Performed	October	9.1%
	Time Elapsed	89.2%
	Work Completed	84.5%
Contractor Earnings	October	\$322,852.00
	Previous	\$2,674,087.22
	Total to Date	\$2,996,939.22

**Area Office Project Management**

Project Manager: Vanhue Ly, CC-614

**Office Engineering**

Contract Administrator: Larry Bowman, MPCO-240

Invoice No. 06, in the amount of \$322,852.00 for work performed from August 2, 2017 to September 19, 2017, was received this reporting period.

**Field Engineering**

Construction Manager: Reynaldo Garcia, MPCO-310

Construction Representative: Sean Frische, MPCO-317

Number of Contractor Employees: 3

**Work Performed**

The temporary switchgear is staged in the switchyard parking lot awaiting relocation by Reclamation.

The Contractor began work on Modification 04 Power Cable Replacement, which includes removal and replacement of existing power cables for circuits 512, 812, and 912. Removal and replacement of power cable for circuits 512 and 912 was completed this month. The Contractor also began installing the underground conduits for the new pad-mounted transformer that will replace two existing pole mounted transformers.

**Contract No. R16PC00113**  
**Specification No. 20-C0858**  
**Folsom Dam Municipal and Industrial Temperature Control**  
**Device Safety Measures, Folsom Unit, American River Division,**  
**Central Valley Project, California**  
**Sapper West, Inc., Sacramento, CA**

Work Performed	October	0%
	Time Elapsed	88%
	Work Completed	21%
Contractor Earnings	October	\$0.00
	Previous	\$63,021.24
	Total to Date	\$63,021.24

**Area Office Project Management**

Project Manager: Brian Zewe, CC-612

**Office Engineering**

Contract Manager: Kent Perkes, MPCO-225

**Field Engineering**

Construction Manager: Reynaldo Garcia, MPCO-310

Construction Representative: Todd Dooley, MPCO-314

Number of Contractor Employees: 0

**Work Performed**

No onsite work was performed during this period.

**Contract No. R17PC00100**

**Specification No. None**

**Folsom Dam Auxiliary Spillway American River Phase V – Right Bank Stabilization, Folsom Unit, American River Division, Central Valley Project, California**

**Harrison Western Construction Corporation, Lakewood, CO**

Work Performed	October	0%
	Time Elapsed	36%
	Work Completed	0%
Contractor Earnings	October	\$0.00
	Previous	\$0.00
	Total to Date	\$0.00

#### **Area Office Project Management**

Project Manager: Kyle Keer, CC-108

#### **Office Engineering**

Contract Manager: Kent Perkes, MPCO-225

Request for Change 001 - Use of “Boneyard” as a Temporary Staging Area, was approved with conditions October 6, 2017.

Request for Change 002 - Road Closure at Powerhouse Road, was approved October 6, 2017.

Request for Change 004 - Delay in Issuance of NTP, was denied October 24, 2017.

#### **Field Engineering**

Construction Manager: Reynaldo Garcia, MPCO-310

Construction Representative: Ben Richburg, MPCO-318

Number of Contractor Employees: 9

#### **Work Performed**

The Contractor mobilized onsite bringing project equipment and materials from Colorado. The contractor’s main staging area along with the auxiliary staging area was developed. The 330 Ton Liebherr Crane was assembled. Environmental and Hazardous Energy Control Program familiarizations were conducted during this reporting period. All onsite contract personnel conducted required security briefings and were issued badges upon completion. The Contractor completed installation of the contract required pre-production rock bolting to ensure the proposed process for installation is sound. The contractor installed an eight foot long rock bolt with the required bond length, couplers, and bond free length in a location similar to project conditions. The bolt was grouted using epoxy resin grout and then strength tested.

The pre-production testing was observed and documented by the United States Army Corps of Engineers (USACE) and the Mid-Pacific Construction Office (MPCO) staff onsite.

The Contractor addressed the Critical Lift requirements associated with hoisting personnel in the man basket. Project personnel (HWCC, USACE, and MPCO) flew the basket and inspected the previous marked rock bolt locations. The contractor drilled several rock bolts during October. .

Contractor safety personnel began installing concrete reinforcement in concrete entrants.



**Folsom Dam Auxiliary Spillway American River Phase V – Right Bank  
Stabilization**

**A view of the contractor drilling into the rocks in preparation for the rock bolts**

**Contract No. R17PC00139**  
**Specification No. None**  
**Folsom Aggregate Structure Demolition, Removal & Disposal -**  
**Folsom Unit, American River Division, Central Valley Project,**  
**California**  
**Site Work Solutions Inc., Redding, CA**

Work Performed	October	0%
	Time Elapsed	48%
	Work Completed	0%
Contractor Earnings	October	\$0.00
	Previous	\$0.00
	Total to Date	\$0.00

**Area Office Project Management**

Project Manager: Mark Lewis, CC-641

**Office Engineering**

Contract Manager: Madelyn Giles, MPCO-230

This contract was awarded on September 18, 2017, to Site Work Solutions Inc., in the amount of \$403,815.00.

**Field Engineering**

Construction Manager: Reynaldo Garcia, MPCO-310

Construction Representative: Ben Richburg, MPCO-318

Number of Contractor Employees: 1

**Work Performed**

The Contractor mobilized five pieces of equipment, including a bulldozer, excavator, combination backhoe/loader, loader, and water truck.

The Contractor installed k-rail barriers at the toe of the concrete structure to protect the power plant access road below from potential falling objects during excavation and demolition activities. The silt fence was installed in front of the k-rails and around all of the earth material stockpiles for stormwater pollution prevention.

The Contractor used the excavator to begin digging out the aggregate structure sorting bins and spreading the material into small windrows where trash was handpicked and placed into a stockpile. Once the trash was removed, the loader moved the remaining earth material to a stockpile. The Contractor excavated and stockpiled approximately 1,500 cubic yards of earth material and approximately 20 cubic yards of trash this month.



**Folsom Aggregate Structure Demolition, Removal & Disposal**  
**A view of a significant failure along the interior wall of one of the aggregate structure sorting bins.**

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# **Klamath Basin Area Office**

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**Contract No. R17PC00083**

**Specification No. None**

**Tule Lake Road Improvement Phase 2- Klamath Project, Oregon - California**

**Coleman Environmental Engineering, Inc., Upper Lake, CA**

Work Performed	October	0.0%
	Time Elapsed	26.3%
	Work Completed	0%
Contractor Earnings	October	\$0.00
	Previous	\$0.00
	Total to Date	\$ 0.00

**Area Office Project Management**

Project Manager: Mike Green, KO-400

**Office Engineering**

Contract Management: Amber Pierce, MPCO-205

This contract was awarded to Coleman Environmental Engineering Inc. on August 15, 2017, in the amount of \$665,695.69.

**Field Engineering**

Field Engineer: Brian Wagner, MPCO-300

Onsite Government Representative: Russell Davies, MPCO-341.

Number of Contractor Employees: 0

**Work Performed**

No onsite work was performed during this period.

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# **Lahontan Basin Area Office**

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**Contract No. R16PC00062**  
**Specification No. 20-C0850**  
**Stampede Dam, Dam Safety Modifications - Stampede Division,**  
**Washoe Project, Nevada-California**  
**NW Constructors, Inc., Bozeman, MT**

Work Performed	October	14.5%
	Time Elapsed	60.1%
	Work Completed	68.6%

Contractor Earnings	October	\$3,364,429.76
	Previous	\$12,384,378.66
	Total to Date	\$15,748,808.42

**Area Office Project Management**

Project Manager: Todd Hill, MP-240

**Office Engineering**

Contract Manager: Kent Perkes, MPCO-225

Invoice No. 12, in the amount of \$3,364,429.76, for work performed from September 1, 2017 to October 18, 2017, was received this reporting period.

**Field Engineering**

Construction Manager: Kyle Hughes, MPCO-324

Construction Representative: Zahid Wazid, MPCO-349; Sean Hill, MPCO-328,  
Dennis Schuenemann, MPCO-338;

Number of Contractor Employees: 44

**Work Performed**

The remaining activities on the embankment crest structure included riprap on the upstream side, aggregate base, and asphalt road. NW Construction continued staining the MSE wall panels at the dike.

NW Constructors continued installing Mechanically Stabilized Earth (MSE) wall panels for the dam section between stations 38+35 to 53+00, and are almost complete with the panel installation. The fifth, sixth and seventh course of panels were installed this month. The Zone 2A backfill was completed to the top of wall elevation of 5985.08-ft.

NW Constructors completed the Zone 1 and Zone 2A backfill next to the right spillway wall between stations 33+00 to 33+76 to elevation 5985.05-ft. The embankment crest tie-in to the MSE wall backfill at station 33+00 was also completed.

NW Constructors started installing the first and second course of panels for the Zone 2A tie-in from stations 38+35 to 34+09. NW Constructors started backfilling Zone 2A, Zone 2B, and Zone 2C at the dam between stations 37+50 to 34+09. Between stations 34+12 to 34+60, the Zone 2A/2B/2C and was completed to elevation 5970.6-ft. From stations 35+20 to 37+50, the Zone 2A/2B was also completed to elevation 5970.6-ft and between stations 34+60 to 35+20, the area was left at grade (5969.1-ft) to allow the trucks from the cofferdam area to enter the MSE wall.

Subcontractor, Syblon Reid (SRC) finished the formwork for the 2nd spillway wall lift, counterfort walls, headwall, and bridge deck. Subcontractor, Camblin Steel finished installing the reinforcement bars for the bridge deck.

Syblon Reid started and finished placing concrete for the 2<sup>nd</sup> wall lift, headwall and bridge deck. A total of 260-cyds was placed and consolidated for the 2<sup>nd</sup> wall lift and headwall, and a total 75-cyds was placed for the bridge deck.

NW Constructors finished backfilling Zone 1, with backfill material on either side of the spillway from elevation 5963.0-ft to 5969.1-ft. Zone 1 fill was continued within the counterfort wall to elevation 5980-ft.

Subcontractor, Green Vista Landscape, finished installing erosion control blankets and seeding for the wetland slope. Hydro-seeding/hydro-mulching was completed on the short slopes of the wetland and on the downstream side of the embankment crest structure

Subcontractor, Diversified Contractors finished cutting all the fence post blocks on the spillway chute. They also completed concrete placement up to the grade break on the spillway chute.

Al-Pombo re-mobilized and finished processing the remaining Zone 2A material needed for the MSE wall backfill.

Subcontractor, Advanced Asphalt, pulverized the existing pavement from Logger's campground entrance to the right abutment, and replaced it with new asphalt pavement. A total of 1294-tons of new asphalt was placed and compacted.

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**Stampede Dam, Dam Safety Modifications**  
**A view of the Mechanically Stabilized Earth wall being completed.**



**Stampede Dam, Dam Safety Modifications  
An image of the Wetland Mitigation Area.**



**Stampede Dam, Dam Safety Modifications  
The new spillway bridge deck and headwall.**

**Contract No. R17PC00063**  
**Specification No. 20-C0860**  
**Marble Bluff Dam and Fish Passage Facility Radial Gate**  
**Rehabilitation - Washoe Project, Nevada-California**  
**Diana Prince Construction, Inc., Irvine, CA**

Work Performed	October	18.0%
	Time Elapsed	48.0%
	Work Completed	29.4%
Contractor Earnings	October	\$157,648.13
	Previous	\$100,235.64
	Total to Date	\$257,883.77

**Area Office Project Management**

Project Manager: Steven Sprague, LO-470

**Office Engineering**

Contract Administrator: Madelyn Giles, MPCO-230

**Field Engineering**

Construction Engineer: Reynaldo Garcia, MPCO-310

Construction Representative: Todd Dooley, MPCO-314, Michael Manlick, MPCO-313

Number of Contractor Employees: 7

**Work Performed**

Diana Prince Construction (DPC) welded together steel plates as part of fabricating process of the bulkhead gate (for future installation upstream of the radial gate). Subcontractor, Abhe & Svoboda, Inc. (ASI) completed the scaffolding surrounding the fish lock false floor and frame. ASI then installed shrink wrap surrounding the scaffolding. DPC removed slide Gate 10 and its frame from the fish lock. ASI completed the containment for the fish lock drain pipe. They also completed abrasive blasting on both the 24" drain pipe and the adjacent steel plate and confirmed an SSPC SP 5 white metal condition. ASI completed the application of a double spray coat of Zinc Clad 108 primer to the drain pipe and the cover plate. They also completed the application of four coats of V-66E Vinyl topcoat to the drain pipe exterior. They utilized conventional spray equipment with continuous agitation for the application of the vinyl coating system. ASI constructed framing for a containment surrounding the interior of the control cabinet for slide Gate 9.

ASI completed the surface preparation for handrail surfaces. They used a mixture of 60, 80 and 120 grit sandpaper with a damp cloth (to control dust) to prepare handrail surfaces. They also completed applying the Procril Universal Primer to prepared surfaces. They also began application of Pro Industrial Acrylic Topcoat to previously prepared handrail surfaces.

**Contract No. R17PC00067**  
**Specification No. None**  
**Lahontan Dam Rated Vehicle Barrier System - Newlands Project,**  
**Fallon, Nevada**  
**Sentinel Builders LCC, Sparks NV**

Work Performed	October	41.7%
	Time Elapsed	86.0%
	Work Completed	2.5%
Contractor Earnings	October	\$61,101.21
	Previous	\$3,664.00
	Total to Date	\$64,765.21

**Area Office Project Management**

Project Manager: Scott Schoenfeld, LO-410

**Office Engineering**

Contract Administrator: Lawrence Bowman, MPCO-240

Invoice number 02 in the amount of \$61,101.21 was received this reporting period covering the period from September 16, 2017 to September 15, 2017.

**Field Engineering**

Construction Engineer: Reynaldo Garcia, MPCO-310

Construction Representative: Reynaldo Garcia, MPCO-310

Number of Contractor Employees: 3

**Work Performed**

Contractor began and completed installation of the north side security barrier. Contractor began and completed installing road signage and also began working on onsite punch list items.

Contractor began and completed installation of the south side security barrier. Contractor began installing road signage and also began working on onsite punch list items.

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# **Northern California Area Office**

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**Contract No. R15PC00150**  
**Specification No. 20-C0824**  
**Trinity Dam Intake Mechanical Equipment Refurbishment/Gate**  
**Shaft Refurbishing, Phase I - Trinity River Division, Central Valley**  
**Project, California**  
**BCI Construction USA, Inc., Belleville, IL**

Work Performed	October	0.0%
	Time Elapsed	96.1%
	Work Completed	99.0%
Contractor Earnings	October	\$0.00
	Previous	\$2,626,778.50
	Total to Date	\$2,626,778.50

**Area Office Project Management**

Project Manager: Robert Gee, NC-230

**Office Engineering**

Contract Manager: Kent Perkes, MPCO-225

**Field Engineering**

Construction Manager: Brian Wagner, MPCO-300

Construction Representative: Jason Foust, MPCO-325

Number of Contractor Employees: 1

**Work Performed**

Data collection for monthly monitoring report.

**Contract No. R15PC00089**  
**Specification No. 20-C0831**  
**Intake 3 Screen Extension, Coleman National Fish Hatchery,**  
**Shasta Division, Central Valley Project, California**  
**Contractor Services Group, Inc., West Sacramento, CA**

Work Performed	October	0.0%
	Time Elapsed	100%
	Work Completed	90.0%

Contractor Earnings	October	\$0.00
	Previous	\$1,815,088.05
	Total to Date	\$1,815,088.05

**Area Office Project Management**

Project Manager: Hank Harrington, NC-210

**Office Engineering**

Contract Manager: Kent Perkes, MPCO-225

**Field Engineering**

Construction Manager: Brian Wagner, MPCO-300

Construction Representative: Fernando Pavone, MPCO-333

Number of Contractor Employees: 7

**Work Performed**

Contractors Services Group (CSG) installed the new access ladder, installing the fixed section and the extendable section. CSG crew also installed the security shield door right at the front of the new access ladder. Subcontractor Taurus installed the metal slugs at the bottom platform to lift the bottom section of the new metal ladder and installed two metal slugs at the top metal platform for safety hook up. Also worked on modifying the existing screen motor covers to sit better on the frame of the new Fish Screens. CSG crew worked on Fish Screen #1 and #3 fixing the chain guides adjusting them to have equal spacing. The crew disassemble a section of the screen belting to access the guides. Subcontractor Taurus assisted CSG with the installation of the new fish cover plates, the crew drilled five holes of 5/8" diameter on the downstream side of the fish screen frames to install the hinged cover plates. After the holes were drilled, the crew installed the hinge cover plates on each of the screens on bay #1, #2, #3, and #4. CSG crew removed the 2" manual operated globe valves and installed the new 2" manual operated ball valves on each of the screen bays #1, #2, #3, and #4. Also installed the 2" grooved end coupling with 3/4" female. CSG installed the pressure gauges (Wika-Model 213.40 - 4" diameter) on the grooved coupling located right before the 2" ball valve motor actuator. The crew installed the gauges on bay #1, #2, #3, and #4.

CSG crew installed the new 2" motor actuator ball valve with the new piping and quick release adapter. The crew installed the anchor bolts for the new motor actuator supports, four bolts per bay and two bolts per support, the crew used the Hilti-RE-500 two part epoxy to install the bolts. The 2" motor actuator ball valve have the following characteristics: APOLLO - Model - CS600WJZE-115AC. Serial Number - V17080644. Torque - 600 lbs-in. Voltage - 115 VAC-60 Hz. Current-.6A. Stroke Time-90°-30 secs. Duty Cycle-75%. Enclosure Type 4/4x IP66.

Subcontractor Bullert Electric crew worked on mounting the new electrical box Hoffman-enclosure box type 4, 12. The crew also installed the ½" flexible electrical conduits to provide power to the new 2" ball valve motor actuators on each of the bays, #1, #2, #3 and #4.

The crew worked at the existing Motor Control Center (MCC) cabinet installing the new Johnson Controls current transformer type CSD-SA1E0-1. The crew installed the # 14 AWG and #16 AWG conductors. The crew pulled 3 sets of the 16 AWG conductors with the following description: (General Cable WC-Prep 2SPS-EPR/CPE Shielded UL Type TC-ER 90C Wet or Dry 600 V Dir Bur Sun Res 31-1-2017). Also pulled 6 sets of the 14 AWG conductors with the following description: (WC-CVTC 4C FR-XLP/PVC UL Type TC-ER XHHW-2 CDRS Dir Bur Sun Res 90C Wet or Dry 600V 19-8-2016). Four of the conductors (4/C-14 AWG) and one of the conductors (2 STP 16 AWG) are for power, control and position feedback for the new 1" and 2" throttle valves. Two of the conductors (4 STP 16 AWG), and two of the conductor (4/C 14 AWG) are for the spray water pump #1 and #2 high pressure switches and pressure transducer.

The crew also worked at the existing Motor Control Center (MCC) cabinet installing the new conductors for each of the new current transformers. The crew pulled four conductor with the following description: Southwire- 16 AWG 1 shielded pair EPR/CPE Type TC E75755W UL 600V 90C Dry 90C Wet Oil Res I Sunlight Re Dir Bur FT/IEEE 1202 feet#50250218079 1-31-2015. The conductors were properly labeled and the transformer was mounted on its final location.

The crew terminated the conductors for the controls and power for the new throttle valves (1" and 2") to the new electrical panel. The crew also worked on installing the new pressure transducers for the spray water pump #1 and #2, and also terminated the conductors on the new electrical box. The crew also worked on pulling all the wires from the new electrical box into the existing PLC cabinet to be terminated by Coleman Fish Hatchery personnel. The crew tested each of the wires for proper conductivity and they all worked. CSG crew installed the new 1" and 2" throttle valves. The crew also installed the ½" anchor bolts to support the valve, sing the Hilti RE- 500 two part epoxy.

**Contract No. R16PC00006**  
**Specification No. 20-C0841**  
**Trinity Powerplant Generator Rewinds - Trinity River Division,**  
**Central Valley Project, California**  
**Voith Hydro, Inc., York, PA**

Work Performed	October	16.0%
	Time Elapsed	72.6%
	Work Completed	73.3%

Contractor Earnings	October	\$2,133,390.77
	Previous	\$7,635,407.29
	Total to Date	\$9,768,798.06

**Area Office Project Management**

Project Manager: Joe Ascoli, NC-650

**Office Engineering**

Contract Administrator: Madelyn Gyles, MPCO-230

**Field Engineering**

Construction Manager: Brian Wagner, MPCO-300

Construction Representative: Stephen Holmes, MPCO-320

Number of Contractor Employees: 15

**Work Performed**

Non-destructive ultraviolet testing was completed on the rotor rim pole slots and on the back of the 36 rotor pole hammerheads. Issues with the rotor pole amortisseur windings are obvious on each of the 36 poles as all of them have discoloration in the coatings caused by overheating and several have areas of arching resulting in molten steel. The Denver Technical Service Center will visit the refurbishment facility next month. The Voith crew completed removal of the armature winding, the stator core, core key bars and compression plate through bolts this month.

Subcontractor ECI Coatings was on site; using copper slag abrasive blast media to remove the heavy metals coatings from the stator core key bar brackets and turbine end shroud brackets so the brackets could be air arc cut. ECI also abrasive blasted around each of the angle iron vertical supports on the four horizontal support shelves in preparation for the addition of 180, 2 inch x 18 inch pipe supports. The Voith crew completed welding in the pipe supports. At the end of the month all 69 new stator core key bars with four brackets each, were set using the FARO laser. Once the bars were set close the brackets were tack welded to the stator frame horizontal shelving. To verify the position of the key bars the contactor set up two test stacks of stator core laminations and recorded their position. Approval of the positions were accepted by Voith engineering.

A partial crew installed the pre-mounted main and neutral lead current transformers onto the exterior of the stator frame housing inside the airhousing.



**Trinity Powerplant Generator Rewinds**  
**A view of the stator frame after being abrasive blasted.**

**Contract No. R17PC00029**  
**Specification No. 20-C0847**  
**Trinity River Division Powerplants Replacement of Station**  
**Service Transformers and Low Voltage Bus System – Trinity**  
**River Division, Central Valley Project, Trinity and Shasta**  
**Counties, California**  
**Gardner Zemke, Albuquerque, NM**

Work Performed	October	3.4%
	Time Elapsed	29%
	Work Completed	4.0%
Contractor Earnings	October	\$96,026.00
	Previous	\$15,118.00
	Total to Date	\$111,144.00

**Area Office Project Management**

Project Manager: Laurie Larson, NC-211

**Office Engineering**

Contract Administrator: Madelyn Giles, MPCO-230

**Field Engineering**

Construction Engineer: Brian Wagner, MPCO-300

Construction Representative: Stephen Holmes, MPCO-320

Number of Contractor Employees: 0

**Work Performed:**

No onsite work was performed during this reporting period.

**Contract No. R16PC00134**  
**Specification No. 20-C0852**  
**Whiskeytown Lake, Spring Creek Temperature Control Curtain -**  
**Trinity River Division, Central Valley Project, California**  
**BCI Construction USA, Inc., Belleville IL**

Work Performed	October	10.8%
	Time Elapsed	92.2%
	Work Completed	40.0%

Contractor Earnings	October	\$257,249.07
	Previous	\$520,400.55
	Total to Date	\$777,649.62

**Area Office Project Management**

Project Manager: Robert Gee, NC-230

**Office Engineering**

Contract Manager: Amber Pierce, MPCO-205

Invoice No. 03, in the amount of \$257,249.07, was received this reporting period for work performed from September 1, 2017 to September 30, 2017.

**Field Engineering**

Construction Manager: Brian Wagner, MPCO-300

Construction Representative: Stephen M. Holmes, MPCO-320, Russell Davies, MPCO-341

Number of Contractors Employees: 6

**Work performed**

The Ballard Marine Construction crew arrived onsite on October 9, 2017 and began assembling the necessary apparatus's for performance of the underwater work. The dive barge was assembled at the Oak Bottom Marina. Following completion of the underwater work and lowering of the lake surface elevation, demobilization of the barge and contents occurred at the Brandy Creek Marina. The dive crew demobilized on October 30, 2017.

The Contractor continued tank rehabilitation by replacing bushings and chain connections in the upper portion of the upper boom float (UBF) tanks. Foam was injected through nipples welded to each of the tanks that are not submerged or under tension. Application of a zinc repair coating (ZRC) was applied to the welds and the other uncoated areas. The remaining pieces removed from the tanks have been stockpiled in the use area. UBF tanks number 55 and 95 were replaced by Ballard Marine with new tanks supplied by the Contractor. The Contractors crews replaced twenty-two (22) surface stabilizing tanks (SST) and associated buoy anchor chains. The installation process compromised the coating on the SSTs. According to BCI, the coatings are field repairable.

Ballard Marine used the sector-scan sonar unit to locate SST anchors not found during a surveying dive with an ROV in July 2017. All of the anchors were located and identified during Ballard's dives.



**Whiskeytown Lake, Spring Creek Temperature Control Curtain  
A view of the barge sections before assembly**



**Whiskeytown Lake, Spring Creek Temperature Control Curtain**  
**A view of the sector scan sonar unit being used to find the anchor blocks.**

**Contract No. R17PC00103**  
**Specification No. 20-C0866**  
**Keswick & Shasta Powerplant Weldshop Ventilation System**  
**Procurement & Installation - Shasta and Keswick Powerplant -**  
**Central Valley Project - California**  
**Air-O-Service, Redding, CA**

Work Performed	October	0.00%
	Time Elapsed	22.8%
	Work Completed	0.00%
Contractor Earnings	October	\$0.00
	Previous	\$0.00
	Total to Date	\$0.00

**Area Office Project Management**

Project Manager: Thomas Darlington, NC-232

**Office Engineering**

Contract Administrator: Casandra Arthur, MPCO-111

**Field Engineering**

Construction Manager: Steve Holmes, MPCO-320

Construction Representative: David Derk, MPCO-334

Number of Contractor Employees: 2

**Work Performed**

The contractor performed measurement and verification at both sites to assist them in developing their final design.

**Contract No. R17PC00091**  
**Specification No. 20-C0869**  
**Intake 3 Trash Rake, Coleman National Fish Hatchery, Shasta**  
**Division, Central Valley Project, California**  
**Tompco-Triton, Seabeck, WA**

Work Performed	October	0.0%
	Time Elapsed	3.0%
	Work Completed	0.0%
Contractor Earnings	October	\$0.00
	Previous	\$0.00
	Total to Date	\$0.00

**Area Office Project Management**

Project Manager: Hank Harrington, NC-210

**Office Engineering**

Contract Manager: Kent Perkes, MPCO-225

This contract was awarded on September 19, 2017, to Tompco-Triton in the amount of \$1,521,449.00.

Notice to Proceed was issued on October 12, 2017.

**Field Engineering**

Construction Manager: Brian Wagner, MPCO-300

Construction Representative:

Number of Contractor Employees: 0

**Work Performed**

No onsite work was performed during this period.

**Contract No. R17PC00092**

**Specification None**

**Install K12 Rated Vehicle Barriers at Keswick, Shasta and Trinity Power Plants**

**Shasta and Trinity Division, Central Valley Project, California**

**Purgatory Fence Company, Inc., Boise, ID**

Work Performed	October	2.5%
	Time Elapsed	5.9%
	Work Completed	2.5%
Contractor Earnings	October	\$12,000.00
	Previous	\$0.00
	Total to Date	\$12,000.00

**Area Office Project Management**

Project Manager: Robert Gee, NC-230

**Office Engineering**

Contract Manager: Amber Pierce, MPCO-205

Invoice No. 01 was received this reporting period, in the amount of \$12,000.00, for Bonding and Insurance work during the month of September and October.

**Field Engineering**

Field Engineer: Brian Wagner, MPCO-300

Construction Manager: Stephen Holmes, MPCO-320.

Number of Contractor Employees: 0

**Work Performed**

No onsite work was performed during this period.

# **South Central California Area Office**

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**There was no work performed during this period for the South Central California Area Office.**

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# **San Joaquin River Restoration Program**

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**Contract No. R16PC00110**  
**Specification No. 20-C0853**  
**Madera Canal Headworks Low-Flow Valve - Friant Division,**  
**Central Valley Project, California**  
**BCI Construction USA, Inc., Belleville, IL**

Work Performed	October	2.3%
	Time Elapsed	100%
	Work Completed	90.1%

Contractor Earnings	October	\$41,200.73
	Previous	\$1,586,890.05
	Total to Date	\$1,628,090.78

**Area Office Project Management**

Project Manager: Adam Nickels, MP-170

**Office Engineering**

Contract Administrator: Larry Bowman, MPCO-240

Invoice 06, in the amount of \$41,200.73, was received this reporting period for work performed from September 1, 2017 to September 31, 2017, was received this reporting period.

**Field Engineering**

Construction Engineer: Brian Wagner, MPCO-300

Construction Representative: Fernando Pavone, MPCO-333

Number of Contractor Employees: 0

**Work Performed**

There was no onsite work performed during this period.

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# **Mid-Pacific Regional Office**

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**Contract No. R16PC00091**  
**Specification No. 20-C0843**  
**North Fork Screens and Ladder Completion Contract - Battle Creek Salmon and Steelhead Restoration Project, California**  
**TNT Industrial Contractors, Inc., Sacramento, CA**

Work Performed	October	0.0%
	Time Elapsed	71.1%
	Work Completed	47.8%
Contractor Earnings	October	\$0.00
	Previous	\$2,633,786.95
	Total to Date	\$2,633,786.95

**Area Office Project Management**

Project Manager: Mary Marshall, MP-203

**Office Engineering**

Contract Administrator: Casandra Arthur, MPCO-111

**Field Engineering**

Construction Manager: Brian Wagner, MPCO-300

Construction Representative: Jason Foust, MPCO-325

Number of Contractor Employees: 32

**Work Performed**

The following work took place at the North Battle Creek Feeder Diversion Dam (NBCFDD) site; Subcontractor Syblon Reid Company (SRC) formed and placed the fish ladder baffle walls A, B, and C, downstream wing walls, fish ladder orifice gates, fish screen head gate bullnose and the fish screen slide gate. Grinding and dry sacking was used to achieve a F3 finish. Sakcrete non-shrink grout or concrete glue was used to patch the snap tie holes in the walls. Backfill concrete was placed downstream of the fish ladder behind the wing wall. Metalwork installation continued this month. Items installed included guide vanes, galvanized grating, headworks platform and catwalks. The locations for the stainless steel slide gates were prepared for the installation of the slide gates. SRC's electrical subcontractor San Joaquin Electric (SJE) was onsite to install the galvanized conduit for panel FA1. The following work took place at the Eagle Canyon Diversion Dam (ECDD) site; SRC installed the davit crane base and davit crane for the downstream davit crane. The base was mounted to the top of the wall with (4) 5/8" galvanized anchors and Hilti HY-200 two (2) part epoxy. Metalwork installation at this site included installation of the ladder which runs down to the top of the existing dam and the guardrail on the top of the fish ladder wall. The materials were moved with the 90-ton crane. The crew then finished installing the butterfly valves on the 8" galvanized drain pipe. .



**North Fork Screens and Ladder Completion Contract  
Concrete placement of the Fish Ladder Baffle A Walls.**



**North Fork Screens and Ladder Completion Contract  
The new catwalks over the baffle bays.**

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# **Contracts in Warranty Status**

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**R11PC20185 No. 20-C0778 Tracy 13.8kV Switchgear/Breaker Replacement – Tracy Pumping Plant and Substation - Delta Division, Central Valley Project, California**

There was no Office Engineering Administrative activity this period. The warranty work for the B15 DFR will extend the 1-year warranty from June 29, 2017 through June 28, 2018.

**R13PC20159 No. 20-C0819 Lake Berryessa Concessions Areas Improvements – Lake Berryessa, Solano Project, California**

There was no Office Engineering Administrative activity this period. The 1-year warranty period began on March 31, 2017 and will end March 30, 2018.

**R16PC00079 No. 20-C0851 Red Bluff Flap Gate Retrofit - Sacramento Canals Unit, Sacramento River Division, Central Valley Project, California**

There was no Office Engineering Administrative activity this period. The 1-year warranty period began March 16, 2017 and will end March 15, 2018.

**R17PC00022 No. 20-C0857 Western Tracy Switchyard - Chain Link Fence Project Tracy Pumping Plant and Substation - Delta Division, Central Valley Project, California**

There was no Office Engineering Administrative activity this period. The 1-year warranty period began May 11, 2017 and will end May 10, 2018.

**R11PC2023S None Red Bluff Diversion Dam, Fish Passage Improvement Project Terrestrial Mitigation - Sacramento River Division, Central Valley Project, California**

There was no Office Engineering Administrative activity this period. The 1-year warranty period began December 31, 2016 and will end December 30, 2017.

**R16PC00099 None Folsom Dam Resource Building Replacement - Folsom Unit, American River Division, Central Valley Project, California**

There was no Office Engineering Administrative activity this period. The 1-year warranty period began February 14, 2017 and will end February 13, 2018.

**R16PC00100 None Lake Woollomes Recreation Area Asphalt Replacement - Central Valley Project, California**

There was no Office Engineering Administrative activity this period. The 1-year warranty period began April 26, 2017 and will end April 25, 2018.

**R15PC00080 20-C0836 Klamath Basin Area Office Sewer Lift Station, Klamath Basin Area Office, Klamath Falls, Oregon**

Office Engineering is reviewing required submittals. The 1-year warranty period began January 20, 2017 and will end January 19, 2018.

**R16PC00111 20-C0855 San Joaquin Hatchery Water Supply Pipeline - Friant Division, Central Valley Project, California**

Invoice No. 09 was received this reporting period for work performed in August. The 1-year warranty period began June 29, 2017 and will end June 28, 2018.

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# Lab Reports

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### **Stampede Safety of Dams Project**

**There was no laboratory information provided from the Materials Lab for this project during this period.**

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### **North Fork Screens and Ladders Completion Contract**

**There was no laboratory information provided from the Materials Lab for this project during this period.**

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