



Twitchell Dam Project Update

***California Severe Winter Storms,
Flooding, Landslides, and Mudslides
(DR-4683 & DR-4699)***

September 21, 2023

Financial Summary

The below tables outline the current financial landscape of the Twitchell Dam emergency efforts in response to DR-4683 and DR-4699.

Vegetative Debris Removal

Contractor	Invoice #	Invoice Period	Scope	Amount	Disaster
MSL	CAT A - Vegetative Debris - 6	04.11.23 - 04.13.23	Debris Removal & Disposal Costs	\$17,324.50	4699
MSL	CAT A - Vegetative Debris - 7	04.17.23 - 04.25.23	Debris Removal & Disposal Costs	\$33,613.41	4699
Total				\$50,937.91	

Reservoir Pumping Efforts

Contractor	Invoice #	Invoice Period	Scope	Amount	Disaster
MSL	1001	01.16.23 - 02.25.23	Mobilization, Temporary Storage Facility	\$14,858,798.35	4683
MSL	1001S	01.16.23 - 02.25.23	Mobilization, Equipment, Per Diem, Labor	\$379,512.89	4683
MSL	1002	2.26.23 - 5.26.23	Mobilization, Equipment, Per Diem, Labor	\$10,534,785.06	4699
Total				\$25,773,096.30	

Administrative

Contractor	Invoice #	Invoice Period	Scope	Amount	Disaster
Synergy	1516	01.19.23 - 02.25.23	Planning	\$183,405.12	
Synergy	1517	01.19.23 - 02.25.23	Mobilization	\$110,975.83	
Synergy	1549	02.26.23 - 03.31.23	Field Oversight	\$217,606.31	4699
Total				\$511,987.26	

Other Costs

Contractor	Invoice #	Invoice Period	Scope	Amount	Disaster
ROC Sciences*	TBD	TBD	TBD	\$3,800,000.00	
HORNE	001 2023.07	07.01.23 - 07.31.23	Grant Assistance	\$27,625.00	
HORNE*	TBD	08.01.23 - 08.30.23	Grant Assistance, LIDAR	\$37,406.20	
HORNE*	TBD	09.01.23 - 09.21.23	Grant Assistance	\$4,250.00	
Total				\$3,869,281.20	

Total Costs Incurred \$30,205,302.67

* Costs have not yet been billed to SMVWCD.

Key Dates

DR-4683 INCIDENT PERIOD: Dec 27, 2022 - Jan 31, 2023

DR-4683 DECLARATION DATE: Jan 14, 2023

DR-4699 INCIDENT PERIOD: Feb 21, 2023 - Continuing

DR-4699 DECLARATION DATE: Feb 21, 2023 - Continuing

DR-4683 END OF 100% REIMBURSEMENT PERIOD: Feb 25, 2023

DR-4699 DECLARATION DATE: Apr 3, 2023

DR-4683 EMERGENCY WORK ACTIVITY COMPLETION DEADLINE: Jul 14, 2023

DR-4683 PERMANENT WORK ACTIVITY COMPLETION DEADLINE: Jul 14, 2024

DR-4699 FEMA SITE VISIT: Sept 21, 2023



DR-4683



DR-4699

Grants Portal Status

- **CATEGORY A – DEBRIS REMOVAL**

- Invoices were resubmitted by BSC to silo costs under each category and disaster and preliminarily reviewed.
- The Category A Project Application for DR-4699 has been completed and submitted in GrantsPortal.
 - Received verbal approval from FEMA Representative on 9/15/23. The project can be signed by the applicant to be sent to the next FEMA approval step (CRC).
 - Pending Client Review & Signature.

- **CATEGORY B – EMERGENCY PROTECTIVE MEASURES**

- Invoices were resubmitted by BSC to silo costs under each category and disaster and preliminarily reviewed.
- The Category B Project Application for DR-4699 has been completed and submitted in GrantsPortal.
 - Received verbal approval from FEMA Representative on 9/15/23. The Category B project for DR4699 can be signed by the applicant to be sent to the next FEMA approval step (CRC).
 - Pending Client Review & Signature.
- The Category B Project Application for DR-4683 is still under review by FEMA.

- **CATEGORY D – SEDIMENT REMOVAL**

- Received finalized LIDAR Report outlining the estimate of 506,716.07 total cubic yards (CYS) of sediment within an area of 53 acres, due to the DR-4683 and DR-4699 events.
 - Assuming a cubic yard of saturated sediment weighs 1.55 tons, this equates to approximately 785,410 tons of sediment.
- Scope of Work document including a calculation that outlines volume of sediment pre- and post-disaster for each declaration is complete.
 - Pending FEMA creation of project in GrantsPortal to allow for submission of package. Discussed with FEMA Representative on 9/21/23 at Site Visit.

- **On Site FEMA/CALOES Visit – 9/21/2023**

- Representatives from FEMA, CalOES, SMVWCD, and HORNE attended a site visit on 9/21 to discuss the history of emergency protective projects and permanent work projects that were a result of DR 4683 and DR 4699.

- Discussed with FEMA/CalOES the activities that were performed at Twitchell Dam to ensure the district minimized any loss of property and lives due to uncontrolled release of flood waters.
- Escorted FEMA/CalOES to the reservoir to assist with any questions regarding the size and scope of recovery and restoration efforts.
- Requested from FEMA a new Category D project be created for sediment removal.
 - FEMA stated this project would be created on 9/22.
 - Upon project creation, HORNE will upload all supporting documentation to support sediment removal operations for FEMA consideration.
- **NEXT STEPS SUMMARY**
 - Once Sediment Removal project Scope of Work document is approved, we will create similar packages for the additional Category D projects (Keyhole, Gate House, Intake Structure, etc.).
 - For items such as the Intake Structure that are obstructed by current sediment levels, the scope document will be finalized once sediment is removed to a level in which we can fully assess the damage.
 - FEMA committed to schedule another site visit specific to Category D activities.



HORNE