



Encampment Impacts on Waterways: Mitigation Pilot



Encampment Impacts on Waterways

- Inhibits right of way & access
- Excavation of banks & levees
- Trash and biohazards
- Riparian vegetation impacts
- Threat of wildfire

Encampment Cleanup & Litter Removal Efforts

Encampment Impacts on Waterways

Valley Water Encampment/Trash and Debris Cleanup Efforts

Budget Year	Encampment Cleanup (CY)	Encampment Cleanup Cost	Litter Removal (CY) Encampments, illegal dumping, trail use, storm drains & culverts	Litter Removal Cost	Trash Booms, Hot Spots, Volunteer Cleanup Efforts (CY)
FY 2013-14	9,982	\$ 786,085	1,174	\$ 130,881	450
FY 2014-15	17,024	\$ 1,341,166	1,793	\$ 189,675	419.5
FY 2015-16	11,746	\$ 929,727	1,589	\$ 198,269	614.5
FY 2016-17	12,698	\$ 1,018,873	1,148	\$ 144,733	478
FY 2017-18	16,923	\$ 1,485,693	1,704	\$ 219,078	731.25
FY 2018-19	11,480	\$ 968,819	1,045	\$ 512,487	636.78
FY 2019-20	9,536	\$ 845,455	1,219	\$ 639,570	295
Estimated Totals	89,389	\$ 7,375,818	9,672	\$ 2,034,693	3,625

Benefits of Encampment Cleanup & Rehabilitation of Encampment related Bank Excavation



Reduces pollutants (trash, pathogens, sediment) in waterways which benefits the recovery of benthic communities & riparian vegetation.



Prevents transport of trash and hazardous materials to San Francisco Bay, this prevents reduction of oxygen in water from breakdown of trash.



Protects wildlife who may confuse broken down items for food.



Protects riparian and wetland habitats by removing hazardous items that emit chemicals. Reduction in chemical emissions from breakdown of plastics directly into waterways is beneficiary to human health locally & globally and the bay & oceanic systems.



Reduces impacts to fish & wildlife by removing passage barriers and sediment input from encampment excavation.

Mitigation Credit: Encampment Cleanup

Encampment cleanup mitigation will include removal of human-caused, inorganic trash that is in, or positioned to enter, aquatic and riparian habitats.

Valley Water will use encampment cleanup as mitigation credit for watershed specific temporary impacts.

The methodology for calculating mitigation credit for encampment cleanups is based on an estimated area cleaned (square feet).

Methods for this calculation must be approved by all relevant regulatory agencies prior to requesting mitigation credit for encampment cleanup.

Rehabilitation of Encampment-related Bank Excavation



Sites impacted by encampment-related bank excavation activities may be repaired and rehabilitated following stream maintenance program guidelines and requirements for bank stabilization work.

Stabilizing eroding stream banks or preventing anticipated bank failure provides the benefits of:

- Reduces instream sedimentation
- Protects water quality
- Facilitates recovery of riparian habitat

Mitigation Credit: Excavated Bank Repairs

If the encampment-related repair activity is to rehabilitate an excavated bank that is not considered necessary for flood protection, then mitigation credit would be applied at a 1:1 ratio.

The compensatory mitigation plan process allows leeway for proposal of ratios for USACE mitigation based on site specific functions and values.

If the encampment-related earth repair activity is required for flood protection purposes, the repair would be considered a mitigation neutral activity (i.e., repair of encampment-related bank excavation areas would not require mitigation).

QUESTIONS

