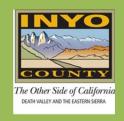
The California Resources Agency California River Parkways Grant September 1, 2015

## Owens River Water Trail





#### Section A. River Parkways Grant Program

Application Form

Project Name		Estimated Date of Completion: May 1, 2019							
OWENS RIVER WATER TRAIL		Grant Amount Requested: \$500,000							
		Estimated Tota	stimated Total Project Cost: \$_500,000						
		(State Grant and	d other funds a	nd In-Kind donations)					
APPLICANT (with mailing address)		County			Nearest City/Town				
Inyo County Check one:		Inyo Lone Pine							
135 South Jackson Street Non-Profit P.O. Box 337		Project Addres	s (or nearest	cross street)					
Independence, CA 93526 Local Public Agency State Agency		Lone Pine N	larrow Gau	ge Road and the O	wens River				
	3	Senate Dist.		Assembly Dist.	US Congressional Dist.				
		8th		26th	8th				
Applicant's Representative Authorized in Resolution (Signature required at bottom of this page)									
Name: Robert Harrington Title: Water Department Director									
Phone: 760-878-0001		Email Address: bharrington@inyocounty.us							
Project Manager - Person with day to day responsibility fo	or project	(if different from	authorized r	epresentative)					
Name: Larry Freilich		Title: Mitiga	tion Manag	or					
Name: Larry Fromore		rille. Williga	tion Manag	ei					
Phone: 760-878-0001 Email Address: Ifreilich@inyocounty.us									
Brief Description of Project			36^37'07 1	Latitude	Longitude 118^02'09 W				
(Summarize major activities to be funded by this RP G Planning, development, and implementation of i		monte	30 37 07 1	· · · · · · · · · · · · · · · · · · ·	110 02 03 44				
supporting a water trail on the Lower Owens Riv									
restoration to excavate blocked, or narrow portions of river channel									
to accommodate passage of paddle craft and to	coordinates Represent: Opper end of trail  Coordinates Determined Using: Google Earth								
quality.		Coordinates Determined Using, Cooglo Editar							
Name of River, Stream or Creek:									
Recreation	3-9-1-33-1-3-30-1	X	Public Acces						
Two (2) statutory  Conditions  Habitat	conditions Habitat			Project Type: Planned recreation in developing ecosystem					
Flood Management			Created:						
Conversion			Restored:						
Conservation & Interpretive Enhancement			Acquired						
I certify that the information contained in this project application, including required attachments, is complete and accurate.									
Signed: Applicant's Authorized Representative as shown in Resolution Date									
Applicant's Authorized Representative as shown in Resolution Date  Designee? Y N									
Dr. Robert Harrington	Inyo County Water Department Director			yes, uttach letter of dealgnation from authorized representative.					
· · · · · · · · · · · · · · · · · · ·	authorized representative.								

#### **SECTION B: ONE-PAGE PROJECT SUMMARY**

site conditions, project activities, community and benefits of the proposed project.		3 3 7 7	1 - 7	
Summarize major components of the project.				
Sample Project Categories Re	quested	Other	<b>Total Cost</b>	
	Grant	Funding		
	Funds			
		Source(s)		
	i dilao	Source(s)		_
Project management/administration	- undo	Source(s)		
Project management/administration Planning, design, & permitting	undo	Source(s)		
Project management/administration Planning, design, & permitting Implementation/construction		Source(s)		
Project management/administration Planning, design, & permitting Implementation/construction Land acquisition		Source(s)		- - -
Project management/administration Planning, design, & permitting Implementation/construction Land acquisition Plant establishment & project assessment		Source(s)		- - - -
Project management/administration Planning, design, & permitting Implementation/construction Land acquisition		Source(s)		- - - -

### APPLICATION SECTION ONE-PAGE PROJECT SUMMARY

The Owens River Water Trail is a signature recreation project—the first dedicated water trail on a river in California. The project creates a 6.3 mile in-water trail on the newly rewatered Lower Owens River in the scenic Owens Valley that is solely dedicated to kayaks, canoes, and other paddlecraft. Recreationists will find well designed parking areas, accessible paths to the river, and formal paddlecraft entry and exit points. The Owens River Water Trail is also improves aquatic habitat; opening up the river and improving transport of organic sediments.

The Lower Owens River is a component of the Lower Owens River Project (LORP) which, in addition to ecosystem recovery promotes sustainable recreation. The area of the proposed water trail has a moderately wide channel characterized by large areas of open water separated by relatively short lengths of channel that are obstructed or bridged by bulrush and cattail (collectively referred to as tules). Tules and coyote willow line the margins of the open water channel; ponds open to salt grass meadow. Tree willow is the dominate overstory. The river has a sustained 40 cfs flow and a yearly seasonal habitat flow of up to 200 cfs.

The project is expected to improve water quality. Years of low flows prior to 2006 allowed tules to colonize the channel. In places, thick beds of tule roots completely cover the river bottom and vegetation blocks the channel. The seasonal habitat flows meant to move muck out the system are diminished in the vegetation and the buildup of organic material, derived from decaying tules, cannot be effectively flushed by the habitat flow. The project improves water quality by opening these blockages. The newly established channel will better fit the river's hydrograph and is expected to improve flushing of organic sediment and protect the fishery.

Inyo County and LADWP jointly manage the LORP. A preferred Recreation use plan for the LORP, which has at its core a river trail, has the support of LADWP and parties to the MOU, and was developed by a diverse range of stakeholders including the LADWP, conservation organizations, ranchers, anglers, students, area Indian Tribes, local, state, and federal agencies, local businesses, and the general public. A water trail on the Lower Owens River has popular support, and now area businesses, local agencies and NGOs are meeting to discuss forming a Lower Owens River stewardship group.

The entire project area is owned by the City of Los Angeles and is open to daytime use by the public. The Owens River Water Trail is 2.5 miles from the center of Lone Pine, easily accessible by bike or car. Lone Pine aspires to be identified as a River Town; this project establishes that connection. The Lone Pine economic plan associated with the project includes a concessionaire running regularly scheduled drop-offs and pick-ups of boaters between the river and the many local hotels.

SECTION C PROJECT EVALUATION

#### C-1: project requirements and statutory conditions

#### A. Habitat

1. Hydrologic and Site Conditions: Fifty-six miles of the Owens River were dried up when the City of Los Angeles diverted the entirety of the river into the Los Angeles Aqueduct in 1913. Prior to diversion, City of Los Angeles Hydrographers recorded flow in the river averaged of 425 cubic feet-second (cfs), and peaked at well over 3,000 cfs. Thereafter, groundwater and a few ditches provided enough inflow to maintain a small stream and a number of small beaver ponds. In December 2006, Los Angeles and Inyo County jointly initiated the Lower Owens River Project (LORP), established a perpetual flow down the dry channel. The LORP guarantees a minimum river base flow of 40 cfs with additional springtime water releases indexed to forecasted snowmelt runoff.

The goal of the LORP is the establishment of a healthy, functioning Lower Owens River riverine-riparian ecosystem, and the establishment of healthy functioning ecosystems in the other elements of the LORP, for the benefit of biodiversity and threatened and endangered species, while providing for the continuation of sustainable uses including recreation, livestock grazing, agriculture, and other activities.

In years when runoff from snow melt is predicted to be normal or higher, a 200 cfs flushing flow is sent down the river in the late spring. This seasonal habitat flow is meant to mimic the dynamic seasonal disturbance of an unregulated river; removing muck from the streambed and maintaining water quality, wetting the floodplain and encouraging recruitment of willow and cottonwood, and controlling cattails and bulrush (collectively referred to as tules).

Physically, the river in the project area is a narrow to moderately wide channel characterized in part by areas of open water separated by relatively short lengths of channel that are completed blocked or bridged by tules. Water depth between these bridged areas is sometimes more than 8 feet in base flow conditions. The bridged sections may be the result of beaver activity.

The 56 mile long river-riparian corridor is almost completely undeveloped. Other than the river intake and flow measuring structures, and three road crossings, the Lower Owens floodplain is without development. Outside of wilderness, there are few accessible rivers in California that are in this open and wild condition.

There are no specific environmental concerns in the 6.3 mile section of the river proposed for the ORWT. No special management of rare, threatened, or endangered species is prescribed for the project area. Annual monitoring for and treatment of invasive vegetation, primarily Saltcedar (Tamarix ramosissima) and Perennial pepperweed (Lepidium latifolium) control invasive species.

2. How the Project will restore water quality and protect the fishery: Water quality standards set by the Lahontan Regional Water Quality Board for the river have been met, however, in this section of the river the warm water fishery (largemouth bass, bluegill, catfish, bullhead, and

carp) is subject to perturbation. The seasonal flushing flows meant to move out muck are attenuated by tules in this area. Buildup of organic material, derived primarily from decaying tules, cannot be effectively flushed by the seasonal flow, so unplanned high flows can stir up sediments. If this occurs when the water is warm then biological oxygen demand can drive down dissolved oxygen levels, which can cause fish kills.

**3. Stream management:** The river will be cleared by mechanical means, both by tracked heavy equipment and by specialized hand tools. About 12% of the 6.3 mile proposed water trail is obstructed by tules. Years of very low flows prior to 2006 allowed tules to colonize the channel resulting in thick beds of roots, which cover the river bottom and cap sediments. These areas will be excavated to remove deep layers of roots and expose sediments down to six feet below the water surface. Once these areas are opened the newly established uninterrupted channel will provide a sediment transport function that better fits the river's hydrograph. This is expected to improve water quality and protect the fishery.

After the river blockages are removed, 1.75 miles of narrow channel will need to be hand cleared by volunteers. The methods and procedures for this work are well established. In 2013, under permit from the California Department of Fish and Wildlife (CDFW) and the LADWP, volunteers organized by the County opened up a 1.30 mile section of the river in seven days. Based on this experience, hundreds of yards of encroaching tules can be cleared and removed from the water by five people, working in the river channel, in one day. The primary cutting tool is an 8 inch rice knife that is attached to a six foot PVC shaft. The design was developed by CDFW and further refined by the county to increase efficiency and safety.

Generally, five people are needed to hand clear the channel. Two "cutters" progress upstream, cutting the tule stalks from the rhizome as deep as possible on both sides of the channel. Two "transporters" float the buoyant tule spoils downriver to a "hauler" who removes the floating debris and piles it on the bank for removal later in the day.

The section of the river selected for the water trail has a good amount of large woody debris (LWD) along the banks and river bottom. The Owens River is a soft bottom river lined with tules. Tules extend from the wetted bank into the channel in water up to four feet deep. There are no boulders or other large rocky debris in the system to redirect water or provide shelter for fish. In the Owens River LWD serves that function. Most of the LWD encountered while clearing tules is left in place if it does not interfere with boat travel, but some is hauled to the water's edge and secured to the bank. Strategic placement of LWD provides physical and biological benefits. It provides habitat for invertebrates and provides cover for fish. Wood placed parallel to the current creates a hard channel edge that provides a local increase in water velocity, which can inhibit tule colonization into the channel. Small debris dams that don't interfere with boating will be left in place to provide protective cover for fish.

**4. Riverine and riparian plan elements:** Parking areas, paths to the water and water entry and exit points will be constructed of gravel and geotextiles, which allow for water infiltration. Boat

launches constructed of gravel and geotextile will be built along the river's edge, but these will have little impact on the river.

- **5. Mosquito management:** The LORP has created hundreds of acres of wetlands in the Owens Valley since 2006. The County and LADWP pay costs associated with monitoring, treatment, and public education arising from components of the LORP. Mosquito abatement is an ongoing effort on the LORP jointly conducted by LADWP and the County. The project area is within the LORP.
- **6. Immediate threats:** No other projects are being implemented, or are planned that would threaten river-riverine habitat in the vicinity of the project area.
- **7. Fate of habitat if no project:** Fish kills will continue to occur in this stretch of the river and may become more frequent if organic material is not suspended and moved out of the system. There is concern that the river is accumulating dissolved organic material. However, now, even large flows that reach this part of the river are attenuated in the tule blockages. Energy from the current dissipates in tule blockages and suspended sediment settles out of the water column leading to channel aggradation and expansion of tule beds.

#### C. Recreation

**1. Recreational components planned:** Clearing the channel of 0.78 miles of blocked river by mechanically harvesting tules and selectively dredging the bottom will open up the river and allow boaters and standup paddle boards an enjoyable and uninterrupted journey down 6.3 miles of an exceptionally scenic section of the Lower Owens River.

There is great demand to open the Lower Owens River for recreation. Presently, there are no extended paddle routes anywhere along the 54 miles of newly rewatered river, and the short lengths of open water that do exist are not easily accessible. Users must park in dirt, negotiate barb wire fences, climb over or around woody debris and desert scrub, and pass through a wall of tules to get to the water. Now, there is no easy access to the river. It is practically impossible for the disabled to reach the water. The ORWT, with its formal parking areas near the river, paths to the water, and accessible launches will allow users an easy approach to the river and simple, safe, entry into the water. These improvements will allow access to users of all abilities and ages to experience the river.

Implementation of the LORP led to the development of many hundreds of acres of tule marsh in the Blackrock Waterfowl Management Area, off-river lakes and ponds, and along the Lower Owens River-Riparian corridor. Marsh habitat is now overrepresented in the LORP and open water is at a premium. The ORWT removes a relatively small area of marsh habitat and increases open water habitat. As mentioned, opening the channel is expected to improve water quality and benefit the warm water fishery.

River kayaking, canoeing, and standup paddle boarding are all very popular sports and the ORWT will be an attractive location for these activities **2. Construction standards:** Improvements will be designed around standards developed by the National Park Service, Rivers, Trails & Conservation Assistance Program. Water trail launches, paths to the water and near river parking areas will be designed with guidance from Iowa Department of Natural Resources, Land and Stream Management Guides. Inyo County code and best management practices will be adhered to.

**3. Trail construction materials:** Water forms the surface of the 6.3 mile trail. The water trail is 100% permeable. Paths to the water and the launches will, to the extent they can accommodate the handicapped, be constructed of permeable materials. When completed, the entire river trail will be accessible to the disabled. Creating an experience where the disabled can enjoy nature in a unique way is one of the primary goals of the project. Kayaking is one of the few sports that offer independent recreational opportunities for the handicapped.

#### C-2: Community, Nonprofit, and Government Agency Support and Collaboration

#### **A. Collaboration with Organizations**

1. Partnerships and partner roles: A preferred Lower Owens River Recreation Use Plan (RUP), which has at its center an Owens River Water Trail (paddle trail), was released in 2013. The RUP provides a framework for future recreation use that helps protect the area from the unintended consequences of continuing area use in the absence of a common, balanced recreation vision and management strategy. LADWP and the County developed a scope of work for the RUP. LADWP identified the section of river planned for an ORWT as suitable for such use. The RUP was developed by a team of recreation planners at M.I.G. incorporated (Berkeley). The Sierra Nevada Conservancy funded the plan. The RUP designed to balance the need to protect the recovering ecosystem, respect traditional values and uses, provide attractive recreational opportunities, not interfere with LADWP's operations, and to be consistent with LORP goals. The draft is the product of broad research, agency consultations, and extensive public outreach including workshops and presentations, stakeholder interviews and surveys. The plan identifies key goals of the recreation plan as strengthening the tourist economy of local communities, enhancing user opportunities, improving access and wayfinding, improving access for fishing, canoeing, and kayaking, and inspiring cultural and environmental education.

#### 2. Incorporation of partners in project planning/design/implementation:

Area Native American tribes are key stakeholders and have been active in the development of the RUP. Employees of the Lone Pine Paiute Shoshone Tribe participated in the experimental clearing of tules in the Lower Owens River and have used tules stems harvested from the activity for traditional crafts. Tribal representatives will be encouraged to comment on CEQA for the ORWT, and will be invited to monitor construction to assure protection of cultural artifacts.

**3. Plans in place that cover the project:** The ORWT is consistent with management goals in LADWP's Owens Valley Land Management Plan; it promotes a key Lower Owens River Project goal

while improving the river; it is recommended in the LORP preferred Recreational Use Plan; and it will be in compliance with the County of Inyo General Management Plan. The County is the land use authority.

#### **B. Community Support and Involvement**

1. Describe community support and involvement: The ORWT is located within the Lower Owens River Project (LORP). The LORP was established through the Inyo/Los Angeles Long-Term Water Agreement, and later modified by a Memorandum of Understanding (MOU) between Inyo County, LADWP, California Department of Fish and Wildlife, Owens Valley Committee, and the Sierra Club. These agencies and citizens' groups' work together to monitor and manage the LORP, and assure the project is meeting goals. Continuation of recreation is one of the LORP goals. All of the parties participated in the planning that brought about the RUP.

Groups assisting in the development of the RUP included the Sierra Club, Owens Valley Committee, Bristlecone Chapter of the California Native Plant Society, and Eastern Sierra Audubon. These conservation groups provided valuable input on how the RUP could tap into growing trend toward eco-tourism in the area. Area tribes, including the Fort Independence Tribal Office, Lone Pine Paiute Shoshone Tribe, and Big Pine Paiute Tribe, voiced a desire that interpretive education about cultural preservation be included in signage, and that historic sites be avoided. A focus group of Owens Valley High School students found that kids wanted better access to the waters of the river for water sports including tubing. Manzanar National Historic Site representatives offered that they would benefit from additional tourists drawn to the area by the LORP, and that they could help promote area recreation. The California Department of Fish and Wildlife areas and the Bureau of Land Management offered guidance on which areas were best to steer recreational use, and which area to avoid. The Advocates for Access of Public Lands promoted multiple use planning. The Lone Pine Chamber of Commerce and Lone Pine Economic Development Corporation provided information on how a RUP would expand the palette of recreational offerings and stimulate the local economy. Individuals meetings were held with area ranchers and fishermen, who currently are most invested in work and recreation in the LORP. Ranchers and fishermen played a key role in shaping the plan, and the County further modified the scope to accommodate their interests. LADWP participated in all of the planning meetings and public workshops.

2. Opposition to the project and efforts to address conflicts: There is no opposition to either the RUP, and to date no opposition to the ORWT. Rancher's had voiced concern about being sued if a gate is left open and a cow wonders onto a road and is hit (solution, install cattle guards, and include "how to behave in cattle country" in interpretive materials and signage). Fishermen were worried that their secret fishing spots would be identified (solution, map areas that are popular and accessible). The Native American tribes were concerned about pot hunting and disturbances of cultural sites (solution, identify sensitive sites and route use elsewhere, and include educational information in interpretive materials and signage).

3. Influence of demographics, social/cultural issues on project design and importance of the project to the community: Native American culture is an important part of the community's identity; as is cowboy culture. Tribal members have been interested in helping organize a "tule festival" to celebrate the river and the plants that had been important as a material for housing, utensils, and crafts. The Lone Pine Paiute Shoshone Tribe sent representatives to all of the river tule clearing work days. They have used some of the collected materials to make traditional crafts. They plan to make full size tule boats to float the river. The Lone Pine Tribe is also very interested in using the ORWT to create jobs and provide economic opportunities. Ranching has been a way of life for 150 years in the valley and celebrations of the river would certainly be influenced by their culture. Lone Pine is identified as a Disadvantaged Community. River recreation is one activity that is available to those with limited resources and may provide recreation-based commercial opportunities.

The river was largely missing to the community from 1913-2006, the period when LADWP diverted the flow of the Owens River into the Los Angeles Aqueduct. When the water returned, river recreation was a potential recreational use of the newly rewatered river. All concerned had expected to boat the river when water was returned, but the channel that developed after years of low flows, didn't cooperate; was limited due to river obstructions and overgrowth of tules. Lone Pine was counting on becoming a River City, but lack of access to the water because of river obstructions and overgrowth of tules, has prevented the town from realizing that goal. The ORWT would be a symbol of pride to the town, and an important economic driver in this tourist oriented town.

**4.** How does the project promote/encourage diverse involvement: The Community is rallying around the river. The Native American Tribes, Ranchers, kids, the business community, area organizations of all stripes, all look to the river as a place to enjoy and recreate and celebrate their culture.

As a means to view wildlife and habitat, or as a destination activity itself, canoeing is a low-impact recreation that can be enjoyed by a large number of people. The activity itself requires little in the way of technical knowledge or strength and is undertaken by people of a variety of ages and physical conditions.

- **5. Organized youth involvement in project**: We expect that the students that participated in the development of the RUP, and got together to help on the channel clearing project will continue their involvement. Kids love water and the ORWT is all about water.
- **6. Plans to keep the community informed and involved**: It would be hard to find a person in the Owens Valley who does not know about the LORP and its recreational opportunities. Recreation is why many residents are in the area. Front page stories in the Inyo Register are frequently about recreational opportunities. We are looking forward to a river-focused Tule Festival, which is sure to be widely advertised and well attended. Every river stewardship day will

be announced in the local media. We've been very successful with generation stories in the LA Times about the LORP. We have a list dedicated to the RUP that has contact information for over 25 organizations that have indicated an interest in helping with any Lower Owens River project. We have an email list of 130 people who want to stay informed about recreational opportunities in the LORP area.

#### C. Project Need

- 1. Compelling reasons to select this project: The community spent considerable time and effort pulling together a RUP for the LORP. The momentum is still there. We have not lost any support, but the groups want to see the results of their contributions. There is tremendous support for implementing components of the plan; particularly developing access for fishing and providing for on-river recreation. The ORWT satisfies both needs and fulfills the core goals of the RUP. However, for the past two years, County and Sierra Nevada Conservancy staffs have been searching for funds to implement the RUP, but have not found a good fit. River Parkways is a perfect fit for this exciting project.
- Need to implement the project this year: Each year the river generates more organic material that is not effectively removed. Water quality in the section of the river proposed for a water trail is not improving. If the biological consultants (Ecosystems Sciences Inc., Boise ID.) are correct, the river in this area is nearing a tipping point, where our ability to clean the river of organic muck using flow alone may not be possible without killing off a most, or the entire fishery.
- *Project site if this project does not occur*: The project site will remain as it is. There is no plan for development or changes in use.
- Future actions beyond the scope of this project to fully address overall project goals: It was expected that the return of water to the river, combined with seasonal variation in flow, would bring about robust woody recruitment. In fact very little recruitment is occurring. Experiments in pole planting to establish groves of cottonwood and tree willow in the floodplain are planned for this winter. Friend of the Inyo, a volunteer service organization, will coordinate the work. If successful, a stewardship program anchored by the ORWT can organize this work in the future.
- **2. Continuation of completed work**: A preferred Recreation Use Plan for the LORP, with water paddle trails at its core, was funded by the Sierra Nevada Conservancy, but was not implemented. The ORWT would be the realization of a primary plan objective.

#### **D. Local and Regional Impacts**

1. Expected benefit to the community: Lone Pine has aspirations to become a River City; however, access to stretches of the Lower Owens River suitable for non-motorized paddlecraft are limited to punctuated stretches of river near town. The ORWT will satisfy the community's desire for a length of channel where residents can spend the better part of a day navigating the river. Community desire to boat the river is strong, and there is disappointment that the rewatering of

the river does not allow this activity. Access to the river for fishing is also limited. The Lower Owens River has an excellent warm water fishery, but much of it is inaccessible. Anglers travel from all over California to fish the Owens River, but find the water hidden behind walls of tules. Fishing by boat, drifting down the ORWT, will offer a completely new experience, an attractive new way to enjoy their sport.

- Contribution to economic stability/development of the community? The eastern sierra economy is driven by tourism focused to the west in the Sierra Nevada. Hundreds of thousands of tourists visit from out of the area to fish, hike, camp, ski, and backpack in the Sierra. They also come for local events: The Owens Lake Bird Festival draws 250 visitors; The Early Opener Trout Derby brings in 400 participants; the Fukuhara Art Workshop attracts 250 visitors from around the state; 200 people come to town to run and support the Death Valley to Whitney Run; 600 people attend the Concert in the Rocks series; and more than 3,000 visitors descend on the town for the Lone Pine Film Festival. Many of these visitors will extend their stay in town a day to experience the unique experience of an ORWT. A fall Tule Festival would fill in the shoulder season.
- Addressing environmental justice concerns? There are no specific EJ concerns that have surfaced in the Owens Valley. However, the Native American Tribes may find new economic opportunities associated with river trail.
- **2. Encouraging tourism:** Tourism fuels the economy of Lone Pine and other towns in the Owens Valley. Behind government services, which largely support recreation on public lands, tourism is the number two source of income in Inyo County. Lone Pine and Independence, the towns closest to the project area, offer a combined 461 hotel rooms. There are 583 public and private campsites available nearby.

The ORWT offers a one of a kind ecotourism experience that is sure to attract new visitors from around the state who are looking for a unique recreational experience. There are no other designated river water trails in California, and the project proponents could not identify another similar project anywhere on the West Coast. Promotion of the project will include media outreach. The ORWT is newsworthy. It can be expected that the water trail will appear in regional and national publications such as Sunset, Outside, Canoe and Kayak. The Lower Owens River has been covered in the news by the Los Angeles Times, and NPR station KPCC, and published stories about the Lower Owens River recreation have appeared in Canoe and Kayak, and Standup Paddleboard magazines.

#### C-3: Public Access, Location, and Transportation

**A. Public access of project site**: LADWP land, which includes the floodplain in the project area, is open to the public from sunrise to sunset without seasonal restrictions. Camping is not allowed.

**B.** Addressing competing interests between public access and ecological protection: The impact of canoeing and kayaking on the river is minimal. The impact of self-propelled water travel on wildlife deserves some consideration during bird breeding and nesting seasons, and even

then, over-use is the principal concern. With moderate levels of user education, canoeing offers a sustainable recreational activity for the Lower Owens River.

The ORWT, considered in a CEQA checklist, is expected to not interfere with LORP goals. It is expected to create opportunities for local residents and visitors to experience recreation, learn more about the ecosystem, and become active stewards of the Lower Owens River.

**C. Location and populations served**: The project is in the southern Owens Valley, east of the Sierra. The project will regularly serve the local community within an hour's drive. The Eastern Sierra is a popular recreation destination, serving visitors from around California, as well as out of state and international travelers.

- **D.** Location of project in relation to populations served: The center of Lone Pine, CA is 1.3 miles directly west of the Owens River and 2.5 road miles to the water trail trailhead. The population centers on the Owens Valley are all within an hour drive of the project. Visitors from Southern California make up 40-45% of area traffic; Lone Pine is three hours and 15 minutes from downtown Los Angeles. Ten to 15% of visitors are from Northern California. About 20% of area visitors come from Las Vegas; these are mostly international guests.
- **E. Project impact on transportation/pollution: Will the project be used as, or contribute to, an alternative transportation mode?** Non-motorized boating is an alternative form of transportation that is promoted by this project. A recreationist spending the day kayaking, canoeing, or standup paddle boarding produces no pollution. Use of the water trail may displace some motorized recreation as a preferred activity, certainly in the short term; those who take up the sport as a regular pursuit will engage in pollution-free on a regular basis.
- F. Is the project a part of an SB 375 Sustainable Communities Strategy or Alternative Planning Scenario developed by a regional Council of Governments? No.
- **G.** Parking, hours of operation, available staffing, user fees, seasonal restrictions or other **ecological considerations**: Parking areas at the entry and exit points will be provided. Operating hours are sunrise to sunset. No staff will be employed on site, the trail will be free of charge. There will be no seasonal restrictions. Restrictions due to environmental considerations are not anticipated.

#### C-4: Organizational Capacity and Project Sustainability

#### A. Organizational capacity

- **A.1** Inyo County's experience performing on projects: The County is experienced in planning, designing, and implementing a wide range of projects.
- **A.2** Availability of expertise: The county has a professional staff with a wide range of expertise.
- **A.3** Steps to be taken in the first year: The project has gone through preliminary design and planning. In the first year CEQA will be completed and the project design will be refined. A land tenure and maintenance agreement will be negotiated between Inyo County and the City of Los

Angeles. Construction bids will be solicited and a contractor hired. All required regulatory permits will be obtained. Signage will be printed. Construction activity will begin within the year.

**A.4 Methods used to estimate costs**: Costs were estimated based on the County's experience performing work and activities similar to those anticipated in this project. County labor and equipment costs were used for estimates. Further, contractors who have performed work for the County were asked for estimates of costs for clearing river channel. The Army Corp of Engineers, Lahontan Regional Water Quality Board, and California Department of Fish and Wildlife were contacted for estimates on permitting fees.

#### **B.** Monitoring Operations and Maintenance

**B.1** Data to be collected to determine effect and success: This section of the Lower Owens undergoes a rapid assessment survey (RAS) annually for a range of impacts including evidence of recreation, presence/absence of invasive species, and woody recruitment. We have continuous RAS data going back to 2007, and plan to continue annual surveys until 2023. We also have good baseline information on the fishery in the area of the project site. Creel censuses have been conducted annually for the past three years, and additional creel surveys will be conducted during project development and implementation. We have the equipment and experience to measure and monitor chemical and physical properties of the water in the project area.

**B.2 Plan for long term maintenance:** The County, by authorizing this application committed County staff and resources to operate and maintain the ORWT based on the terms of a 20-year maintenance agreement with LADWP. The County's Public Works and Parks and Recreation Department would assume this work. The County Parks and Recreation Department has responsibility for operating and maintaining seven County campgrounds and seven regional parks (including maintaining water features); they have the experience and capacity to add the ORWT to their work. Public Works oversees the Roads Department, which provides maintenance to improvements similar to those found in the ORWT; they have the experience and capacity to add the ORWT to their work.

Tasks associated with the ORWT O&M include maintenance and upkeep of improvements including two ½ acre graveled parking areas; two 10 foot by up to 150 foot long foot paths to the river; and two 10 foot by 20 foot graveled water entry and exit pads. Also anticipated is regular trash pickup from barrels in the two parking area on a weekly basis May through September, and monthly between October through April. Also anticipated is grading and repair of the road leading to the river off highway 136 at three year intervals.

County Water Department staff and LADWP watershed staff would monitor biological and water quality in the project area as needed. A RAS is conducted annually in the project area, and a creel census is conducted every year to every few years. The results of these studies are published in an annual report available on the Water Department website (www.inyowater.org). Information obtained in the report would be conveyed in our ORWT project grant reports. The County Water

Department (with a staff of physical and biological scientists) would oversee any monitoring required by CDFW and the State Water Boards.

Once the river is initially cleared, any tules that do emerge or encroach on the waterway will be controlled both passively and actively. Passive tule control requires ongoing recreational use of the ORWT. It is expected that the ORWT will be a popular attraction and the open channel will be maintained largely by user activity. When new shoots are kinked by regular boat and paddle activity, especially early in the growing season, the stem will die back and not reemerge.

After the river blockages are removed, 1.75 miles of narrow channel will need to be hand cleared by volunteers. The methods and procedures for this work are well established. In 2013, under permit from the California Department of Fish and Wildlife and the LADWP, volunteers including staff from California Department of Fish and Wildlife, the Independence and Lone Pine Indian Reservations, as well as volunteers from the Owens Valley Committee, Eastern Sierra Audubon, Lone Pine High School, and the Eastern Sierra Land Trust, opened up 1.30 miles of river in seven work sessions. The work was organized and coordinated by a County AmeriCorps member. Based on this experience, hundreds of yards of encroaching tules can be cleared by five people in one day.

Channel clearing has proven to be quite popular with volunteers. There is community interest in forming a stewardship group to clean and maintain the river. The Eastern Sierra Interpretive Association, Lone Pine Paiute Shoshone Tribe, Owens Valley Committee, and the Sierra Nevada Conservancy have all shown great interest in helping establish and support a river stewardship group. As well, organized recreation groups in southern California have offered to come up and volunteer to maintain the river. The County has a list of 129 individuals and more than a dozen groups in the Owens Valley and in Southern California who have offered to in one way or another to help support the river project. LA River Expeditions and Friends of the Los Angeles River have pledged to help build support in southern California for using and maintaining an Owens River water trail. River stewardship is popular with funders, and it would be expected that this attractive project would attract private, public and corporate support. We have already received a pledge from a private supporter to pay for any number of wetsuits needed to complete channel work.

Operations and maintenance activities, conducted by County staff, will require an annual budget allocation of \$5,048 in the first year of operation. This allocation takes into consideration the schedule of activities; that some years will require more effort and outlay than others. The budget approved by the Inyo County Supervisors, when they approved submission of this grant application, includes an inflation adjusted annual allocation for the project from year 1 through year 20.

**B.3 Unanticipated external events:** The Lower Owens River is a highly regulated river system. In the project area flow varies between 40 and 105 cfs. A hydrological study of the river was completed recently. Northwest Hydrological Consultants modeled flows between 40 cfs and

200 cfs. This study and associated maps will be used to inform the design and location of project improvements to assure improvements can accommodate change in river stage within this range.

Fires have swept through this section of the river as recently as February 2013, burning off tules and tree willow. Within four months the tules had all regrown, the salt grass meadow had come back, and within 6 months most of the willow was coming back through basal sprouting. Improvement will largely be constructed of non-flammable materials. Geotextile materials destroyed in a fire would need to be replaced to better accommodate the disabled, but even without the mats the river would remain accessible.

- **B.4** Rising sea level: The project site is 3,604 to 3,632 feet above present sea level. Boat handling skills learned on the ORWT could come in handy in coastal cities subject to flooding.
- **B.5** Protection from vandalism and deterioration: The majority of improvement will be constructed of material not prone to vandalism, or generally not a target of vandalism, such as rock and gravel. Signage is vulnerable, but can be cleaned by County maintenance crews, or replaced either by the County sign shop or local vendor.
- B.6 Partners assistance with stewardship and O&M: Groups that have been instrumental at supporting the river to date will be called upon to help with periodic maintenance. These groups include the local Indian Tribes, AmeriCorps members, 28 local fishermen that regularly participate in the creel census, members of conservation groups including Audubon Society, Sierra Club, Owens Valley Committee, local schools, and the rancher whose land the ORWT traverses.

  Supporters of the ORWT have met with the Founder of Friends of the Los Angeles River, Louis McAdams, and he's pledged his support in recruiting help from his members to assist with cleanups or other service projects. The Director of LA River Expeditions, an organization that leads organized river trips down the LA River has made a similar pledge to recruit help in southern California. Both organizations voiced an interest in formally establishing a sister river relationship between the LA River and Owens River.

#### C-5: Project Readiness

A. Project status and timeline: The LORP area, which includes the ORWT project area, has been the subject of an EIR/EIS addressing the reintroduction of water to the LORP, water quality, effects on wildlife habitat, and other physical effects of the LORP. The LORP Recreation Use Plan, developed through extensive stakeholder and public review, identified areas suitable for water trails. A hydraulic model for the Lower Owens has been developed that can be used to inform construction in the channel. Preliminary plans for the ORWT have been developed by the County that includes mapping sections of river requiring restoration and clearing and conceptual drawings of parking areas, paths to water and water launches have been produced. A CEQA checklist has been prepared and an MND will be completed within six to nine months following project funding. Non-profit organizations such as the American Canoe Association, River Management Society, and Friends of the LA River have committed to support the project, as have a number of area NGOs. A

native plant list is available. The City of Los Angeles and Inyo County has not yet negotiated a land access land tenure agreement. The County and Los Angeles have numerous such agreements related to other projects and facilities, such as campgrounds, parks, airports, weed control projects, and environmental monitoring. We anticipate that such an agreement can be negotiated for the ORWT. A site visit with CDFW has been conducted, and the Lahontan Regional Water Quality Board and the Army Corp of Engineers have both been contacted to discuss the ORWT and establish permit needs. All three agencies have positive views of the project. The County had been permitted to work in the river by LADWP and CDFW. Both agencies are familiar with our work and performance adhering to mitigation requirements. Property restrictions will be worked out with LADWP.

- **B. Factors that can cause delays**: Seasonal habitat restrictions to avoid nesting birds may be required March-May, however, off-river constructions can take place during this period. Archeological finds may require changes in the footprint of the project. Since the project area is mostly open-space, there is a great deal of flexibility available to relocate improvements. As discussed above, a land access tenure agreement needs to be negotiated. No other significant delays are anticipated.
- **C.** Toxins or Toxic chemicals: No toxins or toxic chemicals are known to occur in the project area.
- **D. Possible project site impediments**: Overhead electrical transmission lines are located near the end of the ORWT. These can be avoided if required by relocating the river exit 0.25 miles below the currently planned exit point. A feasible alternative exit site has been discussed by project planners. Relocating the exit is not expected to require any additional funding.

#### C-6: Additional Project Characteristics and Multiple Benefits

**A.** Other statutory conditions met: Project partners have requested that interpretive signage be erected that educates recreational users about the importance of protecting cultural resources, and about the importance of ranchlands and how to behave in a working landscape. Signage will also include educational information about the goals for river restoration associated with the ORWT.

#### **B. Environmental benefits**

1. Reduction/sequestering of greenhouse gasses: The project design does not specifically address the reduction or sequestering of greenhouse gas emissions; however, the majority of project improvements will be constructed with locally sourced rock and gravel. No surfaces will be paved with concrete or asphalt. Avoiding these products, avoids creating about a ton of CO<sub>2</sub>e emissions from the fabrication of a ton of cement<sup>1</sup>, and 45.6 pounds of CO<sub>2</sub> emissions from the production of a ton of asphalt mix<sup>2</sup>.

- **2. Addressing climate change:** Light colored aggregate will be used to surface the two small parking areas. No other claims of increased adaptability to climate change are made.
- **3.** Use of recycled/reclaimed water: The majority of water flowing down the Lower Owens River and through the project area is captured and pumped back into the Los Angeles Aqueduct and contributes to Los Angeles' municipal water supply.
- **4. Use of recycled materials**: Improvements will be primarily surfaced with locally sourced and sustainably mined materials. Geotextiles having a recycled content will be given preference.
- **5. Energy efficiency**: This ORWT is water powered, which makes it quite energy efficient. Other than in the course of construction, or during periodic maintenance, no energy is required by this project.

#### C. Regional landscape use

- 1. Current use of river frontage: The ORWT project area is located within the bounds of the LORP and will be managed and maintained to assure compliance with LORP goals; which are the establishment of a healthy, functioning Lower Owens River riverine-riparian ecosystem, and the establishment of healthy, functioning ecosystems in the other physical features of the LORP, for the benefit of biodiversity and Threatened and Endangered Species, while providing for the continuation of sustainable uses including recreation, livestock grazing, agriculture and other activities. Currently uses include livestock grazing from October to March, and year-round warm water fishing.
- **2. Existing park open space available in the area**: The beginning of the ORWT is 2.5 miles from the center of Lone Pine. Other available recreation areas within 2.5 miles of the town center include Spainhower Park (3.2 acres), Lone Pine Ball Fields (13 acres), and the High School ballfield (2.3 acres). Eighty acre Diaz Lake Recreation Area is 3.0 miles from the town. The ORWT project adds 415 acres of close-by open space and 6.3 miles of river recreation. Land owned by the City of Los Angeles, including the project area, is now open to the public.

#### D. Public health

- 1. Physical activity benefits and monitoring: The ORWT will be a signature recreational project in the area, which will certainly be used by residents of in the Eastern Sierra, and by out-of-area visitors. Everyone from first-time beginners to expert paddler can enjoy the ORWT. The flat water and exceptional scenery on the ORWT will provide a fun unforgettable adventure that participants will want to repeat. The learning curve for paddling on flat water is quite manageable, and the sport appeals to those of all abilities. Strong support for the ORWT comes from those serving the disabled in the Eastern Sierra. Kayaking offers freedom for the mobility impaired.
- **2. Safety and security measures**: Signage at the river entry will provide river safety advice. The public will be directed to call 911 to report any recreation violations or other problems. The Inyo County Sheriff, or the Fish and Game Warden will be dispatched. The Inyo County Sheriff's

Department patrols the Lone Pine Narrow Gauge Road and Highway 136. The California Highway Patrol patrols Highway 136. Southern Inyo Hospital is 2.7 miles from the ORWT entry and 5.5 mile from the ORWT exit. LADWP has a patrol in the LORP area during the daytime. Inyo County has the third lowest property crime rate in California

- **3. Promotion:** The County of Inyo and local chambers of commerce actively advertise and promote recreational opportunities in Inyo County. The ORWT will join the list of recreational attractions promoted by the Eastern Sierra Interagency Visitor's Center (IVC). The IVC is located 3.2 miles from the end of the ORWT and serves more than 250,000 people every year. Two concessioners have already indicated an interest in river outfitting; running a scheduled shuttle between the town and the river.
- **4. Agency and private group promotion support**: Disabled Sports of the Eastern Sierra brings guests to the Eastern Sierra from all over the state in order to recreate in a spectacular setting. The organization is one of the ORWT's strongest supporters. The County Health Department offers a number of wellness programs, which includes a monthly physical activity promotion. Paddling the ORWT will join other promoted sports.

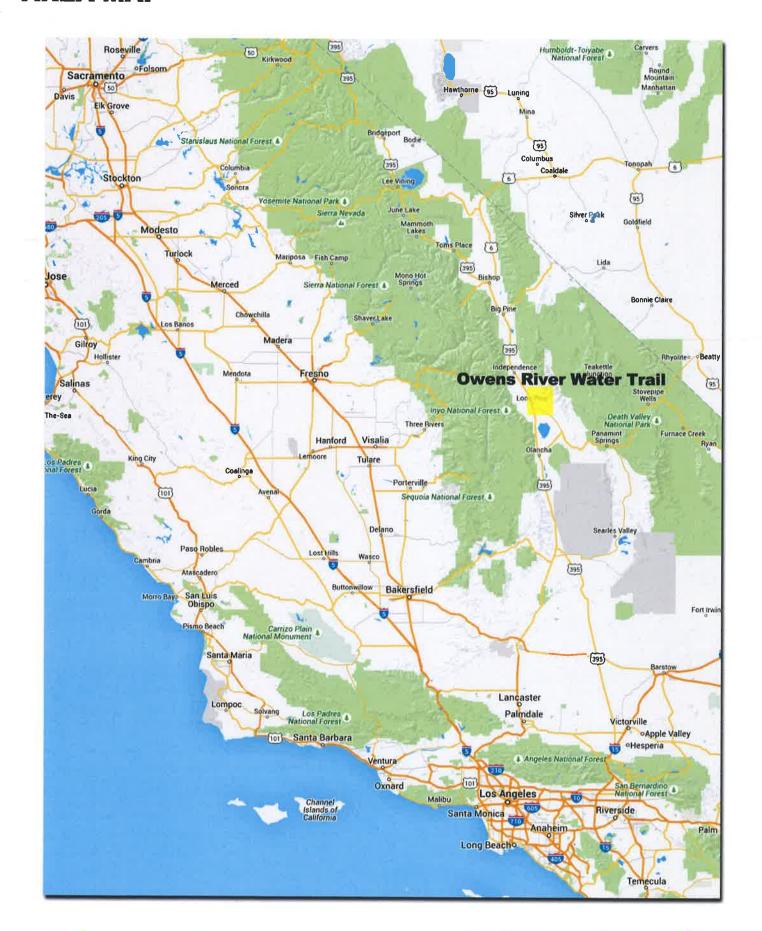
#### C-7: Other Funding Sources and In-Kind Services

- **A. Funds already committed**: The County has provided labor and material support for project development and ongoing operations and maintenance.
- **B.** Other grants in process for project: We are hoping to use the River Parkways grant as a springboard. The ORWT is expected to provide a basis for multiple grants and partnership projects that can improve community and visitor experiences while encouraging recreation related economic development.
- **C.** Other options if request is not granted? Proponents of the ORWT will continue to seek public and private funding for the project.
- **D.** Contingency plan if project is over budget? The County would use its equipment, staff, and resources to fill in budget gaps.

 $<sup>^1</sup>$  Mahasenan, Natesan; Steve Smith; Kenneth Humphreys; Y. Kaya (2003). "The Cement Industry and Global Climate Change: Current and Potential Future Cement Industry  $CO_2$  Emissions". *Greenhouse Gas Control Technologies – 6th International Conference*. Oxford: Pergamon. pp. 995–1000. doi:10.1016/B978-008044276-1/50157-4. ISBN 978-0-08-044276-1.

<sup>&</sup>lt;sup>2</sup> The National Asphalt Association reports that the EPA Reporting tool shows 45.6 pounds of CO2-equivalent (CO2e) emissions per ton of asphalt mix

#### **AREA MAP**

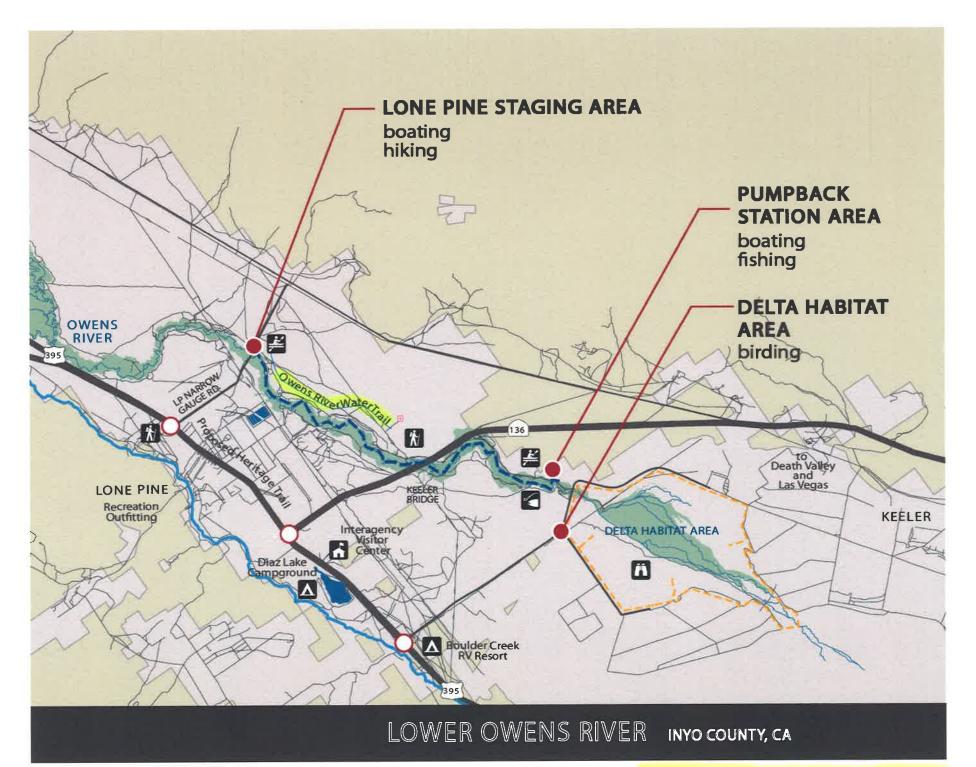


# OWENS RIVER WATER TRAIL REGIONAL MAP



# OWENS RIVER WATER TRAIL AREA MAP



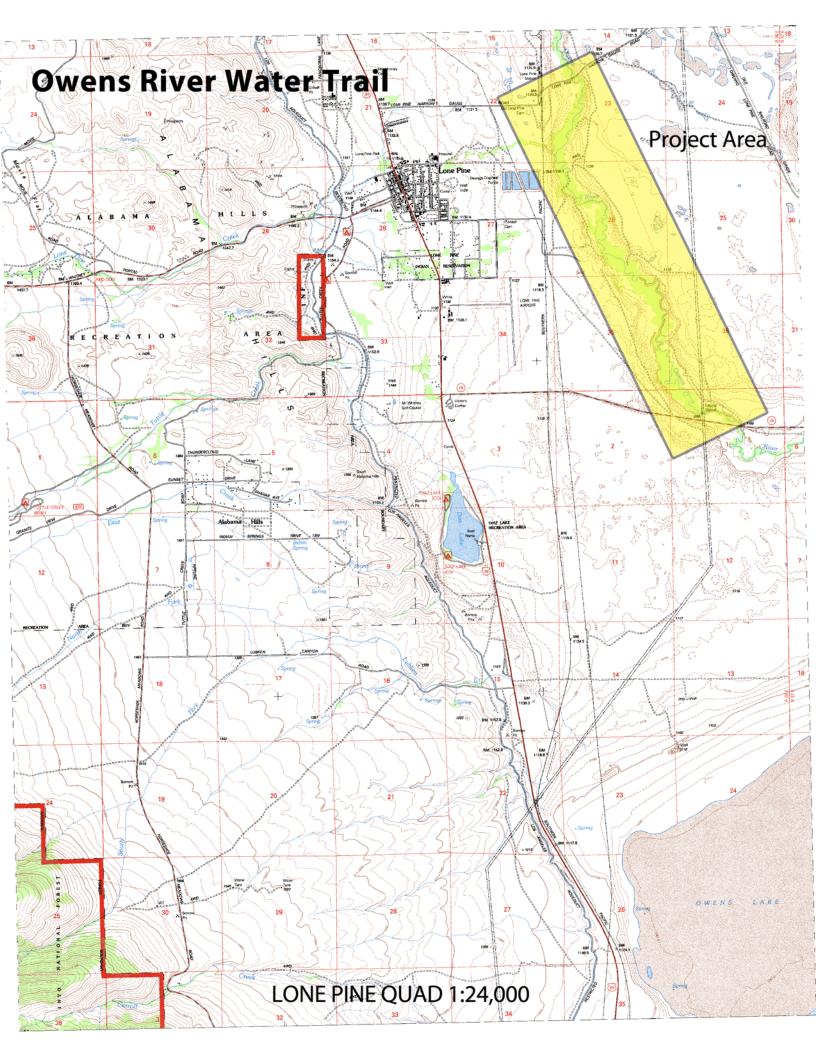




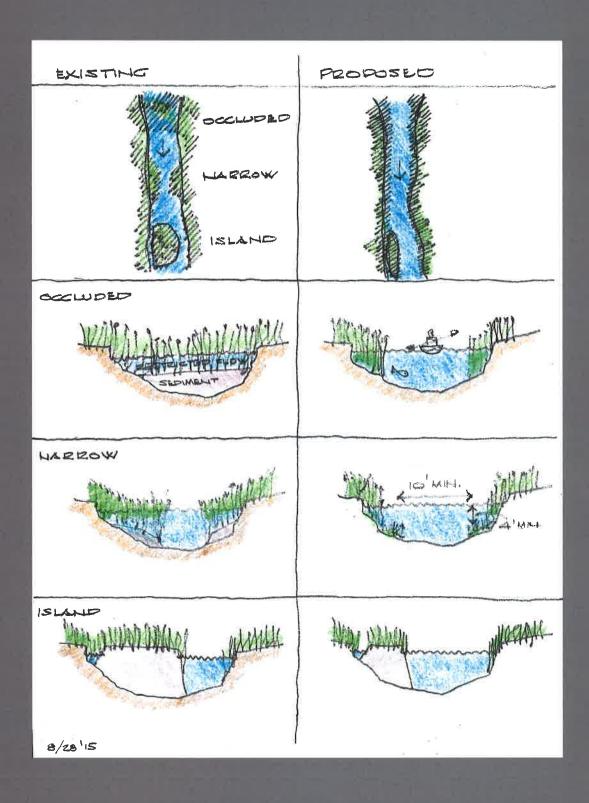
Google Earth Pro

miles \_\_\_\_\_\_2 km

LINES
RED-EXCAUATION
YELLOW-HAND CLEARING

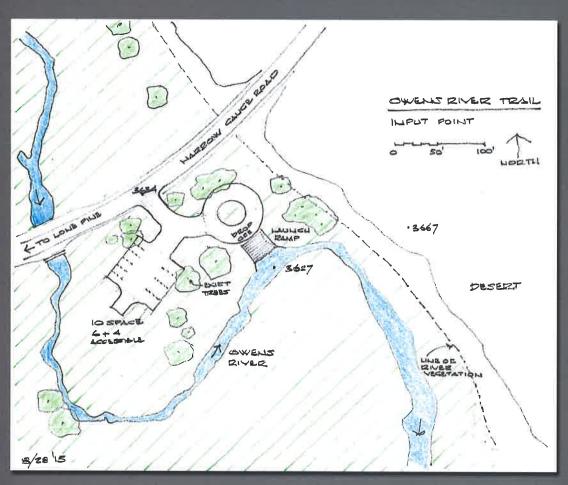


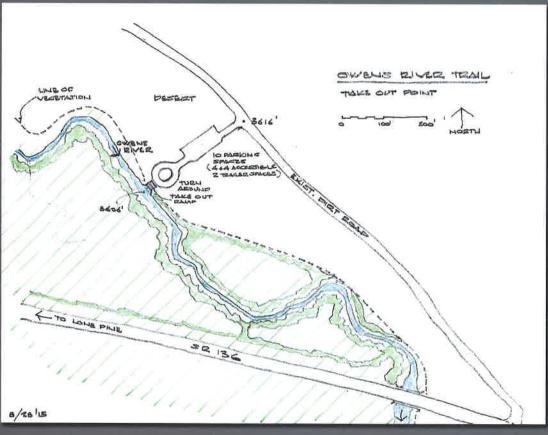
## OWENS RIVER WATER TRAIL CHANNEL IMPROVEMENTS

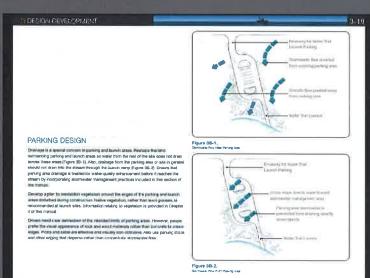


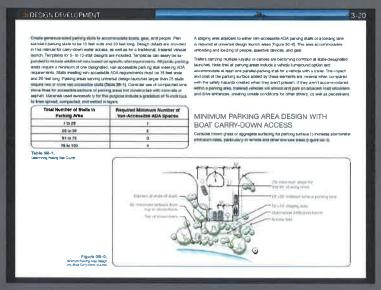
### OWENS RIVER WATER TRAIL IMPROVEMENTS

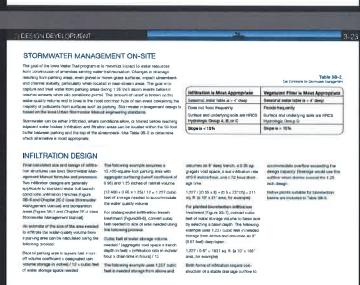
CONCEPTUAL DESIGN

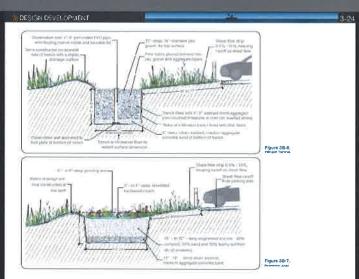






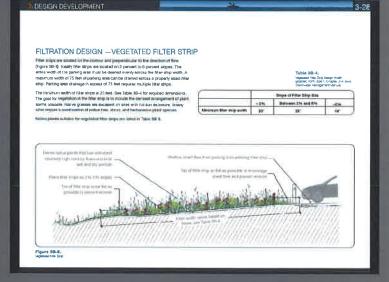


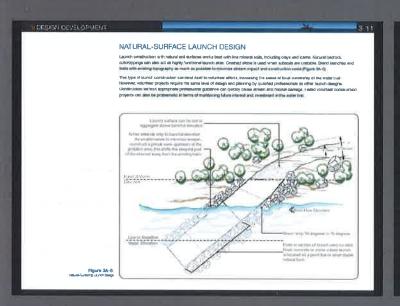


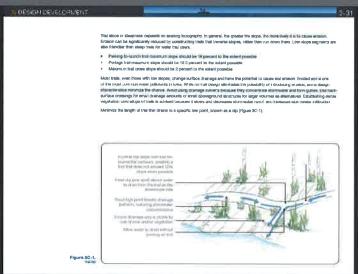


### Parking Construction and Design Principles

(With Permission from the Iowa Department Of Natural Resources)

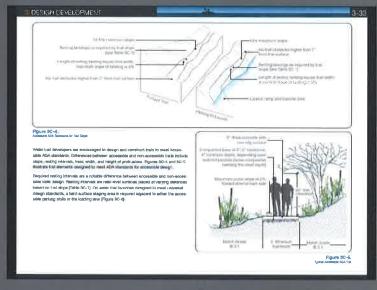






### Path and Water Entry Construction and Design Principles

(With Permission from the Iowa Department Of Natural Resources)





RECOVERING BURN IN SOUTHERN PROJECT AREA. FIRE IN FEBRUARY 2013



RIVER ISLAND



WATER AT TULE'S EDGE



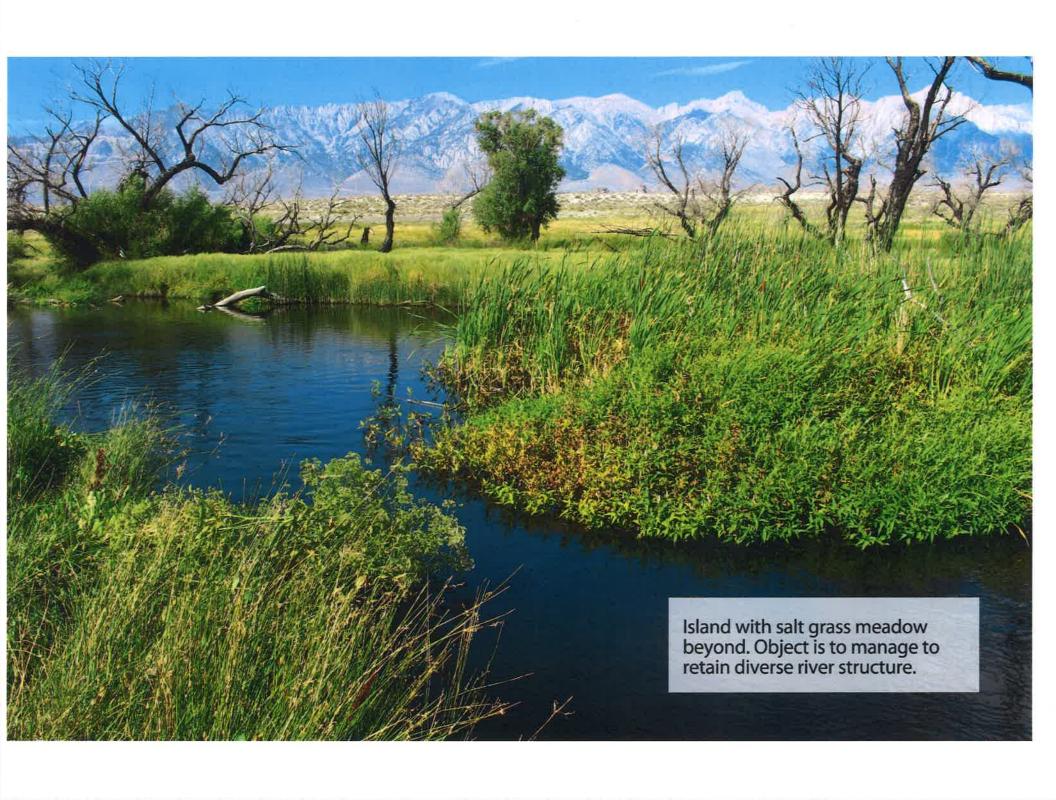
SALT GRASS MEADOW NEAR ORWIT EXIT POINT



## RIVER ENTRY AREA

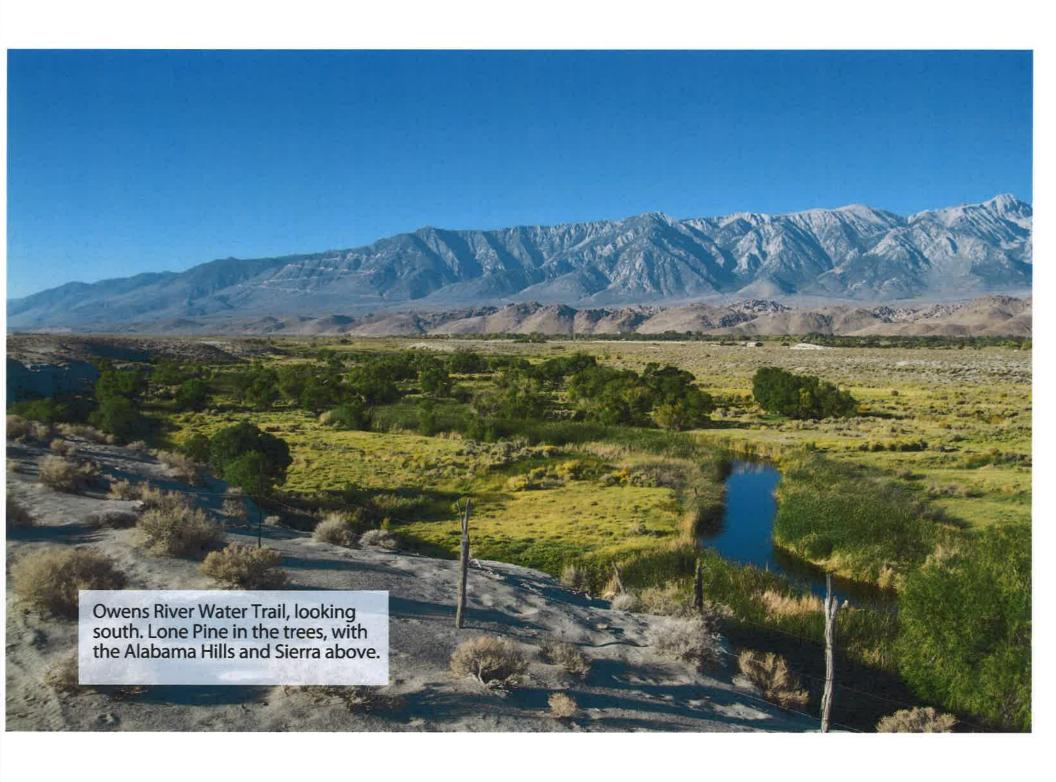
LONE PINE NARROW GAUGE ROAD. ALABAMA HILLS AND MOUNT WHITNEY IN BACKGROUND

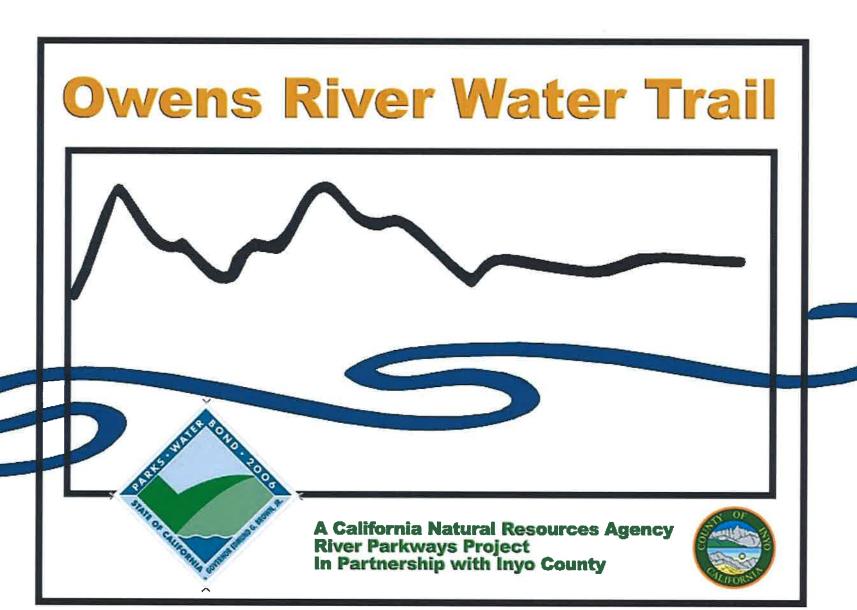














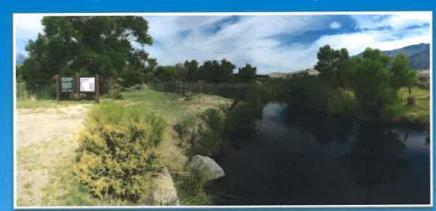
Lone Pine Narrow Gauge Rd the top of the ORWT



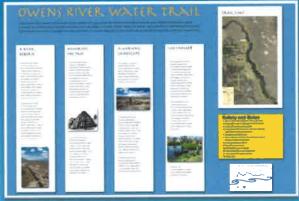
ORWT goal is to maintain the river in a natural condition



Student group clears tules



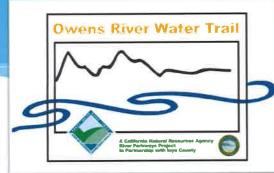
LORP interpretive signage on Lone Pine Narrow Gauge Rd just above ORWT launch



ORWT interpretive signage draft design



Visitors Center near ORWT serves 250,000 visitors annually



Draft acknowledgement sign



Collecting bulrush for traditional crafts



Top end of the proposed Owens River Water Trail



Aerial view of a section of proposed ORWT



Group exploring the project area in winter



Location of river entry at Lone Pine Narrow Gauge Rd. Mature willows and wetlands will be protected



Tight sections of the river required widening



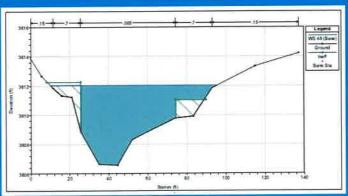
Volunteers moving woody debris to bank



Volunteers setting out to clear tules



Group of Owens River paddlers



Typical channel cross section at the bottom of the ORWT



Selection of tools used to clear tule

Exit Ahead River Left



ORWT exit site at Keeler Bridge (Hwy. 136) with trestle buttress of historic Carson & Colorado Railroad. Salt grass meadow carpets the ORWT area



River punctuated by narrows and islands



Eastern Sierra visitors at Fort Independence



Friendly Lone Pine caters to adventurers

# OWENS RIVER WATER TRAIL

HERE BEGINS THE LOWER OWENS WATER TRAIL WHERE YOU CAN FLOAT OR PADDLE YOUR KAYAK CANDE, AND OTHER PADDLECRAFT DOWN
6.3 MILES OF WINDING DESERT RIVER AND END UP AT THE RUINS OF KEELER BRIDGE NEAR THE DEATH VALLEY ROAD. IT'S AN ENCHANTING SCENIC
EXPERIENCE WITH WILDLIFE ALONG THE WAY AND EVER CHANGING VIEWS OF THE HIGHEST PEAKS OF THE SIERRA NEVADA AND INYO MOUNTAINS.

### A RIVER REBORN

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### HONORING THE PAST

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### A WORKING LANDSCAPE

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### VOLUNTEER!

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### TRAIL MAP



### **Safety and Rules**

- t. Wear a properly-litted lifejacket while on the water.
- 2. Never paddle under the influence of alcohol or drugs
- 3. Paddle with a group, not by yourself
- Druss appropriately for weather and water conditions, including air and water temperature
- 5. Carry food and drinking water
- Do not carry more weight or persons than your boat designed to safety accommodate
- In case of emergency call 911
- S. The trail closes at susset
- U. He tires of any type are allows
- 10. Cultural artifact are not to be disturbed
- 11. Leeve no trace. Carry out all waste
- 12. Avoid cattle



#### **RESOLUTION NO. 2015-41**

A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE
COUNTY OF INYO, STATE OF CALIFORNIA, AUTHORIZING INYO
COUNTY TO ACT AS GRANTEE FOR RIVER PARKWAYS ACT OF 2004
IMPLEMENTATION FUNDING FOR GRANT FUNDS FROM THE STATE OF
CALIFORNIA, CALIFORNIA RIVER PARKWAYS GRANT PROGRAM AND
AUTHORIZING THE DIRECTOR OF THE INYO COUNTY OF INYO
WATER DEPARTMENT TO ACT AS PROJECT DIRECTOR

WHEREAS, the Legislature and Governor of the State of California have provided funds for the program shown above; and

**WHEREAS**, the California Natural Resources Agency has been delegated the responsibility for the administration of this grant program, establishing necessary procedures; and

WHEREAS, said procedures established by the California Natural Resources Agency require a resolution certifying the approval of application(s) by the Applicants governing board before submission of said application(s) to the State; and

WHEREAS, the Applicant, if selected, will enter into an agreement with the State of California to carry out the project

### NOW, THEREFORE, BE IT RESOLVED THAT THE INYO COUNTY BOARD OF SUPERVISORS HEREBY:

- 1. Approves the filing of an application for the Owens River Water Trail
- 2. Certifies that Applicant understands the assurances and certification in the application; and,
- 3. Certifies that Applicant or title holder will have sufficient funds to operate and maintain the project(s) consistent with the land tenure requirements; or will secure the resources to do so; and,
- 4. Certifies that it will comply with all provisions of Section 1771.5 of the California Labor Code; and,
- 5. If applicable, certifies that the project will comply with any laws and regulations including, but not limited to, the *California Environmental Quality Act* (CEQA), legal requirements for building codes, health and safety codes, disabled access laws, and, that prior to commencement of construction, all applicable permits will have been obtained; and,
- 6. Certifies that applicant will work towards the State Planning Priorities intended to promote equity, strengthen the economy, protect the environment, and promote public health and safety as included in Government Code Section 65041.1, and
- 7. Appoints Robert Harrington, Director of the Inyo County Water Department or his designee, as agent to conduct all negotiations, execute and submit all documents including, but not limited to applications, agreements, payment requests and so on, which may be necessary for the completion of the aforementioned project(s).

**PASSED AND ADOPTED** by the Board of Supervisors of the County of Inyo, State of California, this 25<sup>th</sup> day of August 2015, by the following vote:

AYES:

Supervisors Totheroh, Griffiths, Tillemans, and Kingsley

NOES:

-0-

ABSTAIN:

-0-

ABSENT:

Supervisor Pucci

Chairperson, Invo County Board of Supervisor

The foregoing instrument is a full, true and correct copy of

20 15

the original on file in this office.

Attest: KEVIN D. CARUNCHIO

Clerk of the Board

Patricia Complete Assistant

Clerk of the Board of Supervisors, Inyo County, California

Clerk of the Board of Supervisors, myo County, Califor

Kevin D. Carunchio, Administrative Officer and



### **Letters of support for the Owens River Water Trail**

### **Organizations**

- Los Angeles Department of Water & Power
- Department of Parks & Recreation Boating and Waterways Commission
- California Department of Fish and Wildlife
- Sierra Club
- Owens Valley Committee
- Lone Pine Paiute-Shoshone Reservation Environmental & Air Quality Department
- Eastern Sierra Interpretive Association (ESIA)
- American Canoe Association California Branch
- Lone Pine Chamber of Commerce
- Disabled Sports Eastern Sierra
- Eastern Sierra 4 X 4 Club

#### **Local Businesses**

- Doug Thompson Owner Whitney Portal Store Hostel & Hotel
- Bob Sigman Director Museum of Western Film History
- Art & Jaque Hickman Owner Boulder Creek RV Resort
- Kalplesh Bhakta Owner Comfort Inn Lone Pine
- Kevin & Lis Mazzu Owner McDonalds (Lone Pine, Bishop, Mammoth Lakes)
- Linda Ellsworth Owner Ray's Den Motel
- Charles James Freelance Journalist
- Timothy S. Keating & Neil Woodruff SWS Mountain Guides

### **Project enthusiasts**

- George Wolfe
- Frank Colver
- Barbara Winckler
- Greg Camplin
- Ted & Sue Schroeder
- Rob Toker
- Sherilyn McDonald
- Paula Gammell
- Kathi Hall
- David Woodruff

## Department of Water and Power



# the City of Los Angeles

ANTONIO R. VILLARAIGOSA

Commission
THOMAS S. SAYLES, President
ERIC HOLOMAN, Vice-President
RICHARD F. MOSS
CHRISTINA E. NOONAN
JONATHAN PARFREY
BARBARA E. MOSCHOS, Secretary

RONALD O. NICHOLS General Manager

RECEIVED

FEB 2-6-2013

Invo Co. Water Department

February 21, 2013

Dr. Robert Harrington, Director Inyo County Water Department P.O. Box 337 Independence, CA 93526-0337

Dear Dr. Harrington:

Subject: Support for Lower Owens River Recreational Use Plan

On behalf of the City of Los Angeles Department of Water and Power (LADWP) and the Board of Water and Power Commissioners, I would like to extend our support for the Lower Owens River Project Recreation Use Plan (Plan) that is being developed by the Inyo County Water Department (ICWD) and MIG Consultants. LADWP appreciates the efforts of ICWD and the MIG Consultants to develop this Plan with both public and agency input to benefit recreational opportunities and the local economy. LADWP is committed to upholding the Lower Owens River Project's environmental mitigation goals, and will continue managing City of this Angeles (City) lands in the Iwens Valley for multiple uses including recreation.

Several of the concerns that LADWP previously raised with regard to potential resource issues and conflicts with LADWP's operations and maintenance needs have been resolved by ICWD through the Plan's development. While a few issues remain that need refinement such as enforcement, liability, and maintenance funding of the project; LADWP is optimistic that ICWD and MIG Consultants will address these concerns in the Plan's final form. LADWP looks forward to reviewing the Plan's next draft.

If you have any questions regarding this matter, please contact Ms. Lori Dermody, Watershed Resources Specialist, at (760) 873-0408.

Singerely

James G. Yahnotta Manager of Aqueduct

c: Mr. Larry Freilich, ICWD

Ms. Linda Arcularius, Inyo County Board of Supervisors

Mr. Rick Pucci, Inyo County Board of Supervisors

Honorable Tom LaBonge, Councilmember, Fourth District

Commissioner Christina E. Noonan

Commissioner Jonathan Parfrey

Ms. Lori Dermody

Water and Power Conservation . . . a way of life

☐ Bishop, California mailing address: 300 Mandich Street • Bishop, CA 93514-3449 • Telephone: (760) 873-0208 • Fax (760) 873-0266

111 North Hope Street, Los Angeles, CA 90012-2607 • ☐ Mailing address: Box 51111 • Los Angeles, CA 90051-0100

Telephone: (213) 367-4211 • Cable address: DEWAPOLA





**ERIC GARCETTI** 

MEL LEVINE, President WILLIAM W. FUNDERBURK JR., tice President JILL BANKS BARAD MICHAEL F. FLEMING CHRISTINA E. NOONAN BARBARA E. MOSCHOS, Secretary

MARCIE L. EDWARDS

August 21, 2015

California River Parkways Grant Program The Natural Resources Agency Attn: Bonds and Grants Unit 1416 Ninth Street, Suite 1311 Sacramento, CA 95814

Dear Grant Unit Representative:

Subject: Letter of Support for California Waterways Grant for the Lower Owens River Water Trail

The Inyo County Water Department (ICWD) is submitting a grant application to the California River Parkways Grant Program for funds to establish the Lower Owens River Water Trail. This trail will occupy a portion of the Lower Owens River Project (LORP), which is a large scale river restoration project mandated by a 1997 Memorandum of Understanding (1997 MOU) between various parties. The LORP is jointly managed by the City of Los Angeles Department of Water and Power (LADWP) and ICWD, and occurs on City of Los Angeles property in the County of Inyo. The goal of the LORP is:

"The establishment of a healthy, functioning Lower Owens River riverine-riparian ecosystem, and the establishment of healthy, functioning ecosystems in the other features of the LORP, for the benefit of biodiversity and threatened and endangered species, while providing for the continuation of sustainable uses including recreation, livestock grazing, agriculture, and other activities." (1997 MOU)

LADWP supported the development of ICWD's Lower Owens River Recreational Use Plan, 2013 (Plan) that would allow for the establishment of limited primitive facilities to improve access and enhance recreational uses in the LORP. These modest facilities were to occur in disturbed areas that were already receiving moderate use.

Los Angeles Aqueduct Centennial Celebrating 100 Years of Water 1913-2013 Bishop, California mailing address: 300 Mandich Street • Bishop, CA 93514-3449 • Telephone: (760) 873-0208 • Fax: (760) 873-0266

111 North Hope Street, Los Angeles, CA 90012-2607 Mailing address: Box 51111, Los Angeles, CA 90051-5700





California River Parkways Grant Program Page 2 August 21, 2015

Additionally, limited signage, a walking trail, and two paddle trails were proposed as part of this Plan. This project has yet to be implemented.

ICWD's current proposal for grant funding includes new infrastructure and channel excavation activities that were not originally contemplated in the original Plan, and also in new locations than were previously considered. As a result, LADWP is in support of exploring the feasibility of the new project but cannot yet grant authorization to proceed with implementation without more information regarding potential impacts and/or conflicts with LORP goals. Therefore, LADWP would like to extend support for grant funding through the planning stage and subsequent evaluation under the California Environmental Quality Act (CEQA) for the Lower Owens River Water Trail.

If you have any further questions, please contact Ms. Lori Dermody, Watershed Resources Supervisor, at (760) 873-0408.

Sincerely,

FOR JAMES G. YANNOTTA

James G. Yannotta Manager of Aqueduct

LD:bs

c: Mr. Kevin Carunchio Ms. Lori S. Dermody



Department of Parks and Recreation BOATING AND WATERWAYS COMMISSION One Capitol Mall, Suite 500 Sacramento, California 95814 COMMISSION MEMBERS

David O. Livingston, Chair Virginia Maduefio, Vice Chair Douglas Metz Frank Peralta Katherine Pettibone Randy Short

August 26, 2015

### Ifreilich@inyocounty.us

Larry Freilich Inyo County Water Department P.O. Box 337 135 South Jackson St Independence, California, 93526

### Dear Mr. Freilich:

The California Boating and Waterways Commission submits this letter in support of efforts to provide a unique recreational activity for California Boaters through the development of the Owens River Water Trail. The Commission views this project as being fully consistent with our policy goals of expanding boating and watercraft recreational areas, facilities, and opportunities to maintain safe, publicly accessible, and sustained long-term use.

On August 26, 2015 the California Boating and Waterways Commission held a public meeting at Eureka, California. At that meeting the commission received a report on the Owens River Water Trail. The report discussed the joint effort by Inyo County and the Los Angeles Department of Water and Power to develop this exceptional recreational opportunity in the beautiful setting of the Eastern Sierras. The Commission also heard about Inyo County's application for a Resources Agency River Parkways Program grant that could help fund mechanical river preparation, signage, route markers, maps, parking facilities, river paths, and handicap accessible water entry and exits points. Additionally, we were informed about the important collaboration between the Owens River Water Trail and the Disabled Sports Eastern Sierra, Wounded Warriors Program. Following this brief, our Commission unanimously voted to endorse the Owens River Water Trail project via this letter.

Mr. Freilich Page 2 August 26, 2015

The California Boating and Waterways Commission looks forward to seeing the Owens River Water Trail completed and available for the enjoyment of all Californians.

Sincerely,

David O. Livingston

Chairman

cc: Col Christopher C. Conlin, USMC (Ret)
Acting Deputy Director
California State Parks & Recreation

California State Parks & Recreation Division of Boating and Waterways

Tara Lynch, Chief Counsel
California State Parks & Recreation
Division of Boating and Waterways

Mark Bagley Sierra Club, Range of Light Group Owens River Watershed Conservation Chair P.O. Box 1431 Bishop, Ca. 93515

Grant Review Committee
California River Parkways Grant Program
The Natural Resources Agency
ATTN: Bonds and Grants Unit
1416 Ninth Street, Suite 1311
Sacramento, Ca. 95814

August 29, 2015

Dear Grant Review Committee,

The Sierra Club was instrumental in negotiating an MOU that established the Lower Owens River Project (LORP) that we have today. I am the Owens Valley MOU party representative for the Sierra Club and have been involved in this project since 1997.

The Sierra Club is delighted that the county is moving forward with a plan to open up a section of the Lower Owens River for a water trail. Recreation is one of the goals of the LORP, which is yet to be fully realized. The proposed Owens River Water Trail offers a unique recreational opportunity that serves the local community and visitors from around the state and nation. This river trail will open a portal to showcase the beauty of the area and the success of the recovering ecosystem.

The project also has great potential for improving water quality in this section of the river. The MOU parties have indicated that they would like to see improvements to water quality in certain sections of the river. This excavation of the channel promises to allow more continuous flow, which we believe will improve water quality. This is an important goal for this project.

Our members in the Eastern Sierra, Southern California, and around the state are looking forward to exploring the paddle trail and assisting with stewardship to maintain the project.

Sincerely, Mark Bagley

Mark Bagley



August 31, 2015

Bishop, CA 93514 www.wildlife.ca.gov

Larry Freilich Inyo County Water Department 135 South Jackson Street, Box 337 Independence, CA 93526

Subject:

Letter of Support for the Owens River Water Trail

Dear Mr. Freilich

The California Department of Fish and Wildlife (CDFW) is a party to the 1997 Memorandum of Understanding to the 1991 Environmental Impact Report mandated by the Inyo-LA Long Term Water Agreement. Therefore, CDFW is one of the parties responsible for implementing and monitoring the Lower Owens River Project, the largest river restoration in the western United States.

CDFW is in support of Inyo County's grant application for the Owens River Water Trail. CDFW believes that the Owens River Water Trail will improve recreational use and access along the Lower Owens River; encourage environmental stewardship in the Owens Valley; and reduce environmental damage from informal stream access corridors.

CDFW will issue a Streambed Alteration Agreement for the Owens River Water Trail to minimize and mitigate any adverse impacts to fish and wildlife resources as a result of construction activities. Inyo County has already begun consultation with CDFW personnel regarding a Streambed Alteration Agreement for this project. Inyo County has obtained and met the required mitigation measures of previous Streambed Alteration Agreements mandated by restoration and enhancement projects within the Owens Valley.

If you have any questions regarding this letter, please contact Nick Buckmaster at (760) 872-1110 or Nick.Buckmaster@wildlife.ca.gov.

Sincerely,

Lacey Greene

**Environmental Scientist** 

CC:

Chron

Nick Buckmaster, CDFW



Owens Valley Committee P. O. Box 77 Bishop, CA 93515 August 27, 2015

California River Parkways Grant Program California Natural Resources Agency Attn: Bonds and Grants Unit 1416 Ninth Street, Suite 1311 Sacramento, CA 95814

Director, California River Parkways Grant Program:

The Owens Valley Committee (OVC) is a party to the 1997 Memorandum of Understanding (MOU) to the EIR of the 1991 Inyo-LA Long Term Water Agreement and is responsible for monitoring the Lower Owens River Project. The Owens Valley Committee also participated in the development of a recreation use plan for the lower Owens River. The OVC is in support of Inyo County's grant application for the Owens River Water Trail, one of the elements of the recreation use plan.

There are many benefits to the creation of the Owens River Water Trail. Among those are:

- Creation of two access points that will enable visitors to experience the lower Owens River for a variety of reasons, including bird watching, water activities, fishing and the enjoyment of nature.
- Environmental damage that is occurring now with the creation of informal access roads to the river will be stopped or greatly reduced with the new access points.
- The clearing of the river channel will help diversify the habitat.
- Increased visitation to the lower Owens River will result in people from outside our area appreciating the river and its unique setting.
- The project will involve hands-on volunteer efforts which will encourage continued stewardship of the lower Owens River.
- The project will enable people with a range of physical abilities to access the river.

The OVC is excited that the Owens River Water Trail will become a reality. We encourage the California Natural Resources Agency to approve this grant for the benefit of a wide spectrum of visitors to our valley, and to enhance the lower Owens River ecosystem.

Sincerely,

Mary Roper

President, Owens Valley Committee

August 25, 2015

# RECEIVED

AUG 28 2015

Larry Freilich
Mitigation Manager, Inyo County
P.O. Box 337, Independence, CA 93528yo Co. Water Department
760-878-0011
www.inyowater.org



Mr. Freilich;

The Lone Pine Paiute-Shoshone Reservation Environmental & Air Quality Department is pleased to support Inyo County's efforts for Owens Valley River restoration projects.

Our department employees have participated in County efforts of tule removal for river access and improved flows, as well as willow tree planting at recent burned areas near the Reservation boundaries. In continuing the long-term collaboration, we have developed education programs through the Lone Pine Tribal Youth Education Program (LPTYEP).

The Owens River was central to the existence and culture of native people in this valley before it was devastated by wholesale diversion into the Los Angeles Aqueduct in 1913. Improved flows since the Lower Owens River Project (LORP) began are only half the battle to restoration. Unnaturally low, legally mandated flow volumes allow for overgrowth of cattails and bulrushes (tules). Though both of these plant species were intensively utilized, generations of native people, being deprived of river access, have diminished traditional ecological knowledge (TEK) base. Our department has been working with tribal youth and their families to reacquaint them with these resources. Classes and demonstrations have included cattails as food, insulation, cordage, basketry and mats; bulrushes for boats and duck decoys. We are working with three other tribes in the valley to reestablish skills to produce traditional boats and housing structures in annual events. To that end, we are committed to the long-term partnership with Inyo County in its effort toward river ecology restoration. These improvements will improve access to culturally valuable resource materials, recreation and opportunity for this community to re-establish a vital relationship with the Owens River.

Attached are sample photographs of our river projects.

Sincerely, clleed, fo square

Mel O. Joseph, Environmental Director Lone Pine Paiute-Shoshone Reservation

Cc: The Natural Resources Agency, California River Parkways Grant Program

Environmental and Air Quality Department Phone: 760-876-4690 Fax: 760-876-4682 1101 E-Sha Lane, P.O. Box 747 Lone Pine, CA 93545





Tule boat and cattail cordage lessons







Collecting cattail fluff for pillows





Harvested cattail flowers for food



Willow tree planting in burn area



Tule removal to widen channel



# RECEIVED

AUG 19 2015

Inyo Co. Water Department

Larry Freilich
Mitigation Manager
Inyo County Water Department
135 South Jackson
PO Box 337
Independence CA 93526

August 17, 2015

### Dear Mr. Freilich:

The Eastern Sierra Interpretive Association (ESIA) supports your grant proposal to create an Owens River Water Trail on the Owens River in the vicinity of Lone Pine. This proposal to create a new interpretive activity is consistent with ESIA's mission to educate and inspire people about our public lands and resources, to encourage visitors to get to know the area better, and to enable everyone to be effective stewards of these resources.

We understand this trail proposal is unique. Although sharing traits with other developed trails, such as signs and route markers, maps, and facilities for parking, visitors would not walk the Owens River Water Trail—they would float this trail. Gliding down a water path in the middle of the Owens Valley through lush natural habitat in the desert, with towering Mount Whitney and the Sierra Nevada crest to the west and the colorful Inyo Mountains to the east, would be an unforgettable experience.

The River Parkways grant would fund mechanical river preparation, signage, route markers, maps, parking facilities, river paths, and handicap accessible water entry and exits points. ESIA recognizes this would be an unforgettable experience for Eastern Sierra visitors, something that would become a signature attraction in the region, with the opportunity to educate visitors about healthy rivers and habitat preservation and contribute to the economic vitality of our communities.

ESIA is aware that currently without a formal trail, without access, only the adventurous few can experience the river, and inadvertently this is causing resource damage. There is no easy way to access the water, and as a result visitors drive out into the floodplain, trample vegetation, and break down the river bank to get to the water's edge. Frequent portages are required, which further degrade banks and vegetation; causing resource damage in a recovering ecosystem. The proposed solution is the Owens River Water Trail, which would provide low-impact access from floodplain to the water's edge, and a structured way to enter the water. As planned, we understand this project also opens up the river to the disabled, providing specialized entry and exit points custom designed for the handicapped. The national Wounded Warriors Project supports this effort to make an accessible river trail.

We also support the knowledge that the project not only promotes ecologically compatible recreation, it also helps improve aquatic habitat. Stretches of the proposed river trail are occluded by cattails, tulles, and submerged logs that have come in with the new water. The punctuated river is trapping muck and sediments that can deplete dissolved oxygen and stress fish. Opening up the channel allows seasonal flushing flows access to the river bottom to strip off this organic layer and protect the fishery.

Your proposal indicates that after initial mechanical preparation, the water trail would be maintained through volunteer efforts. This type of multi-sector partnership has been shown to work in other water trail systems around the country. Already, in the area proposed for water trail development, 120 hours of volunteer labor, permitted by the California Department of Fish and Wildlife, and the Los Angeles Department of Water and Power, opened up more than two miles of blocked river. We understand a non-profit group, focused on Owens River stewardship, will continue this stewardship effort. This stewardship group has ESIA's backing, that of the local business community and conservation groups, and has begun to form promising partnerships in southern California that will enhance the group's reach.

We look forward to hearing about this project as your grant proposal moves forward, and how ESIA might actively participate in helping with implementation of this project.

Sincerely,

**Robert Gardner** 

Eastern Sierra Interpretive Association

**Executive Director** 

California River Parkways Grant Program The Natural Resources Agency Attn: Bonds and Grants Unit 1416 Ninth Street, Suite 1311 Sacramento, CA 95814

August 30, 2015

Re: Owen's River Paddle Trail

**Project Review Committee:** 

On behalf of the American Canoe Association's (ACA) California Branch, I am writing to express my organization's support for the Owens River Paddle Trail. As the California State Director for the ACA, I see many project ideas, but the Owens River Paddle Trail seem both especially rewarding and achievable.

The ACA, founded in 1880, is a national nonprofit organization serving the broader paddling public by providing stewardship, advocacy, education, programs, events, and insurance to promote paddlesport exploration, recreation, and competition and to protect or expand paddling environments. With thousands of members, the heart of the ACA is the people who paddle, cherish and protect the rivers, lakes, streams, bays and oceans of the United States and beyond.

We are excited to hear that Inyo County in the Eastern Sierra region is launching a proposal to establish an Owens River Water Trail on over six miles of river near Lone Pine. The amazing scenery in this area, the river's contentious and important history, and the unique experience of paddling in a desert river, is sure to be a hit with our members and paddlers throughout the state. The heritage of the Owens River also makes it uniquely interesting to paddlers and historians.

The Owens River Water Trail would be the first formally designed and sanctioned river trail in California. The Owens is a perfect stretch of flat-water river to develop a demonstration project that can serve as a model for other such trails in the West. Paddle trails are highly popular in the Midwest and in Eastern States. New paddlers are often hooked on kayaking or canoeing after experiencing their first glide down a formal river trail. We expect the same result from the ORWT and believe it would augment tourism, fishing, and recreation in the Eastern Sierra area as well.

ACA lends its support to this groundbreaking project and encourages a grant from the CA Natural Resources Agency to make this proposal a reality.

Yours on land and water,

California State Director

ACA | Canoe – Kayak – SUP – Raft – Rescue

310-617-3441

castatedirector@americancanoe.net

www.americancanoe.org

www.facebook.com/ACA.California



August 5, 2015

California River Parkways Grant Program
The Natural Resources Agency
Attn: Owens River Water Trail Support
1416 Ninth St., Suite 1311, Sacramento, CA 95814

To Whom It May Concern:

The Lone Pine Chamber of Commerce, and its 105 business members wholeheartedly support the development of an Owens Valley Water Trail. The trail would showcase the areas extraordinary natural wonders in a whole new way. It would be a wildly popular area attraction close to town; offering a new means for visitors to experience the Eastern Sierra. Lone Pine gets 300,000 visitors annually. One third of these visitors are International visitors from Western Europe who are attracted to the area by its wide variety of outdoor experiences. The menu of local outdoor attractions now includes hiking in the high Sierra, watching birds on Owens Lake, exploring the colorful Alabama Hills, fishing the serene waters of the Owens River—an Owens River Water Trail would fit right in, and certainly be a hit with our visitors.

The project would certainly bring additional economic benefits to the town. Extra nights of lodging in one of our 13 hotels and motels, extra food served in one of our 11 restaurants, and importantly this project will create a whole new industry based on outfitter services. We already have businesses that will step in and run a river concession.

We hope you will move to approve this grant proposal that will offer another unique experience in California, in one of the most popular visitor destination towns in the state. Thank you for your help in making Lone Pine a River Town.

Sincerely,

Kathleen New President /CEO

PH. [760] 876.4444 • www.lonepinechamber.org info@lonepinechamber.org



California River Parkways Grant Program
The Natural Resources Agency
Attn: Owens River Water Trail Support
1416 Ninth Street, Suite 1311
Sacramento, CA 95814

### **Grant Review Committee:**

This letter is to express my support for Inyo Counties grant application for The Rivers and Trails Grant to fund the project to construct an Owens River Water Trail on the Lower Owens, this project is much needed to enhance the experience of the rewatering project that received National and International recognition when the "gates" were opened.

The rewatering of the Lower Owens was projected to be a very important economic stimulus for the Southern part of Owens Valley, many delays and events have slowed this project. By funding the River Trail it would support the master plan to move forward.

Recent work over the last 6 years has led to submitting Legislation to the House and Senate to designate 18,000 acres of BLM land into the first National Scenic Area managed by the Bureau of Land Management. The Alabama Hill Recreation Area receives 120,000 visitors from November to March. This area will adjoin the Owens River Water Trail in close proximity. The Mount Whitney Region has access to the Pacific Crest Trail and The John Muir Trail joining Lone Pine to the South, Mexico and North Canada.

A River element in this location would add additional opportunity to experience the remote area of California with these Iconic existing Trails and resources.

It is not one day passing that reference to Los Angeles and the Owens River is not mentioned, an Owens River Water Trail could enhance the education and scientific information of reestablishing a water supply to a land laid fallow so many years and the rebirth that is happening now. Showing the support, that the City of Los Angeles maintains on making this rewatering a model.

If you are unfamiliar with the Owens Valley of California, its geography is extremely diverse and ranges from rugged mountains, like that of the Sierra, to limited agricultural fields, to extremely mountainous, in-land terrain. The Owens River Water Trail project will foster economic development opportunities for our fiscally challenged communities, particularly to more than 50 local businesses.

Thank you for your time and consideration. Should you have any questions, please do not hesitate to contact my office.

Sincerely,

Doug Thompson
Owner of Whitney Portal Store Hostel and Hotel
Doug Thompson Ceo Lone Pine EDC
Past President Desert Mountain RC&D

## **Museum Of Western Film History**

P.O. Box 111 Lone Pine, CA 93545 (760)876-9909

August 26, 2015

California River Parkways Grant Program Natural Resources Agency Re: Owens River Parkway Grant

Dear Grant Review Members,

As Director of the Museum of Western Film History in Lone Pine, California, I talk with visitors everyday as to their travel experiences. I am always amazed at the diversity of their interest from exploring the mountains of the Eastern Sierra and the Alabama Hills, visiting the Bristlecone Forest, the Sand Dunes of Eureka Valley and discovering the many recreational options of Death Valley to name a few. A good portion of these visitors seek to combine their land experiences with aquatic recreation.

So many of our guests (about 70%) come from the Southern California area and have questions about the Owens Lake history and our long ago access to local water recreation. It is unfortunate that our "water story" and the history of the Aqueduct project is seen as a negative image in our environment. What a joy to think that we may soon have a very different story to tell our visitors, not to mention providing them with the opportunity of a river parkway experience through the Owens River Water Trail Project.

Motels, restaurants, clothing retailers, sporting goods stores, transportation providers, and the like will all benefit from the Owens River being available to the resident and visitor for water recreation. This could translate to more stable year round employment, longer stays in our community, and result in an improved lifestyle for many.

Visitors come to the Eastern Sierra to recreate midst the flora and fauna. The Owens River Water Trail Project is a perfect extension to our existing mission of an exceptional, repeatable visitor experience.

Thank you to the CA Natural Resources Agency, River Parkways Program for considering our request and for providing this grant opportunity!

Sincerely,

Robert Sigman, Director Museum of Western Film History



August 20, 2015

California River Parkways Grant Program The Natural Resources Agency Attn: Owens River Water Trail Support 1416 Ninth Street, Suite 1311 Sacramento, CA 95814

California Natural Resources Agency,

Disabled Sports Eastern Sierra enthusiastically supports the development of an Owens River Water Trail. Disabled Sports Eastern Sierra (DSES) is a volunteer based non-profit dedicated to changing the lives of children and adults with disabilities and their families through outdoor sports and activities. We believe that no one should be left behind simply because of a disability! Kayaking is one of the sports especially suited for the disabled. The Owens River Water Trail will provide an important recreational opportunity for our clients. To build on this opportunity DSES encourages building specialized water entry and exit points designed to accommodate individuals with disabilities. This would open up needed new recreational opportunities to the disabled.

The sport of adaptive paddling is growing. Every summer DSES hosts camps such as Operation: High Altitude and Pedal Paddle which feature adaptive paddle sports. The number of participants in these camps as well as the number participating in daily lessons and activities is increasing every year. With the development of the National Wounded Warrior Center in Mammoth Lakes, the potential number of individuals who could benefit from the Owens River Water Trail increases dramatically.

We hope that you will approve this grant proposal. The Owens River Water Trail offers an opportunity for individuals with disabilities to experience the wonder and beauty of the Eastern Sierra in a way never before possible.

Sincerely,

Kathy Copeland Executive Director

## **BOULDER CREEK RV RESORT**

P.O. Box 870 Lone Pine, CA 93545 T. (760)876-4243 F. (760)876-5253

August 21, 2015

California River Parkways Grant Program
Natural Resources Agency
Re: Owens River Parkway Grant

Dear Grant Review Members,

We are the owners of a 104 space RV Resort in Lone Pine. We have been in business at this location for 28 years and are well acquainted with the amenities offered by our community and the surrounding region. We cannot express to you the excitement that the possibility of this grant has generated in our business community.

The majority of businesses in the Eastern Sierra depend on tourism and work hard to help each and every visitor enjoy the surrounding area. So many of our guests (about 70%) come from the Southern California area and have questions about the Owens Lake and the "water story". The usual comment is how water recreation is missing because of the Aqueduct project and how it is seen as a negative image in our environment. What a joy to think that we may have a very different story to tell our visitors, not to mention providing them with the opportunity of a river parkway experience.

Motels, restaurants, clothing retailers, sporting goods stores, transportation providers, and the like will all benefit from the Owens River being available to the resident and visitor for water recreation. This could translate to more stable year round employment, longer stays in our community, and result in a improved lifestyle for many.

Visitors come to the Eastern Sierra to recreate midst the flora and fauna. The River Parkway project is a perfect extension to our existing mission of an exceptional, repeatable visitor experience.

Thank you for considering our request and for providing this grant opportunity!

Sincerely,

Art and Jaque Hickman, Owners Boulder Creek RV Resort (760) 937-4233 (cell)

# LP Investment Group, Inc.

1920 S. Main St, P.O. Box C, Lone Pine, CA 93545 Phone 760.876.8700 Fax 760.876.8704

August 26, 2015

California River Parkways Grant Program The Natural Resources Agency 1416 Ninth St, Suite 1311 Sacramento, CA 95814

RE: Owens River Water Trail Support

To Our Grant Review Members

We are the owners of the Comfort Inn - Lone Pine and our sister property Holiday Inn Express - Bishop, have been in this community and surrounding for over 25 years now. As business owners and residents of our community cannot be more excited on the prospect of making Lone Pine into a "River Town" with the help and approval of this grant. We are a small town with big heart on hospitality and want our visitors and residents to our valley to see and have the best of what we can offer. An Owens River Water Trail will bring back an amazing natural wonder that has been lost to us for a long time. We as a community will not only benefit from a business prospective, but also can be proud of being part of a project that will bring back a bit of our historical landscape not only for our generation but for future generations to come, which can only be done with your support and approval of this grant.

Please again, requesting that you please approve this grant proposal that will bring back a unique natural wonder and experience not only to our community but for the state of California itself.

Sincerely,

Kalpesh (Kal) Bhakta Managing Partner LP Investment Group

Comfort Inn - Lone Pine

California River Parkways Grant Program
The Natural Resources Agency
Attn: Owens River Water Trail Support
1416 Ninth St., Suite 1311, Sacramento, CA 95814

To: California River Parkways Grant Program

From: Kevin and Lis Mazzu / Owner-Operators: McDonald's of Lone Pine, Bishop and

Mammoth Lakes

Re: Owens River Parkway Grant

Date: August 27, 2015

Dear Grant Review Members,

We would like to provide feedback as both business owners and local members of the community. Having operated a small business in the Owens Valley for the last 10 years, we have realized that tourism and outside visitors to this area drive most of the economic growth and provide the critical revenue to operate a successful business. The local Chamber of Commerce states it well when they say that the area's "lifeblood is outdoor recreation based tourism".

It is crucial for the economic vitality of the Owens Valley to develop, support and promote a multi-use approach to our public lands. We need to promote outdoor activities that can both benefit our local residents and draw more tourists to the area to enjoy the natural resources that we offer.

This is where the "Owens River Water Trail and Parkway" system is a great fit.

Providing a unique river parkway experience linked to the rich history of water in the Owens Valley is a fantastic opportunity to combine history, education, and recreation into an exceptional experience unique to our area. As small business owners and local residents in support of recreational land management, we fully support this 'river parkway' concept and are appreciative of your consideration of a grant for this concept. Finally we are anxious to see the project up & running, and providing positive results both recreationally as well as economically to the Owens Valley.

Sincerely,

Kevin and Lis Mazzu

McDonald's Owner/Operators

(760) 784-5494

8/18/15

To: Ca. River Parkways Grant Program

The Natural Resources Agency





The Eastern Sierra 4x4 Club works with various agencies and organizations to support outdoor dispersed recreation in the Owens Valley. Access to, and appreciation of, "Mother Nature" is a common thread and the Owens River Water Trail is a program we fully support. We would be glad to help bring this project to fruition and promote its continued success. The hustle and bustle of today's society creates a stress that is best relieved by the access and exposure to the natural beauty available to us. A river trail would be a great way to safely experience nature in a way that is not available on roads.

We hope you will approve this grant request and thereby provide visitors and local residents a new type of trail. A water trail, which provides an opportunity to experience the natural environment along the Owens River.

Sincerely,

Mike Johnston

President

Eastern Sierra 4x4 Club



August 25, 2015

SWS Mountain Guides
210 East Lake St.
Mt. Shasta, Ca. 96067
mail@swsmtns.com
www.swsmountainguides.com

Phone: 888.797.6867 / Fax: 877.797.6867

California River Parkways Grant Program The Natural Resources Agency 1416 Ninth St., Suite 1311, Sacramento, CA 95814

Attn: Owens River Water Trail Support

To Whom It May Concern:

I work in the Sierras as a mountain guide and look at the Owens Valley with its lush green center stretching into the distance. Over the years friends have told me of the recreational and sporting opportunities along the river. I floated short sections on hot July days off the mountain. Maybe that is how the dream germinated of taking a small vacation and kayaking the Owens



View of the lower Owens River from a few miles north of the Lone Pine airport.

River from Bishop to Lone Pine. A few years ago I began to research the navigable sections of the river. I was surprised that even being willing as I was to portage the pull out for the trans-Inyo river trip was still just south of Independence. I inquired why this was. People were then kind enough to educate me about the life cycle of the tule, the low flow of the lower Owens River and the difficulties these interrelated factors caused for the development of the Lower Owens Waterway. In this manner I discovered that there was a grassroots movement to clear the channel by hand. I was proud that community members felt strongly enough about this issue to put that much effort into a project. Last week at the end of a climb a guest asked if I would I like to take my first flight over the Owens Valley in his single engine plane. I jumped at the opportunity the see the region as I had never seen it before. I hoped to enrich my knowledge base of the mountains, their streets and how they intersect. What surprised me most in the end was not the Inyo Mountains with their hidden mines and vegetation or new buttresses in the Sierras, but that the Owens River did not seem to be a river at all from the air but a greenway that only occasionally showed a glint of water as if it were a chain of independent lakes and not a continuous water course. Knowing all I did about the region I still had not been able to truly assimilate the reality of the situation. Serendipitously a few days after this flight I was asked to write this letter in support of a grant to create the Owens River Water Trail. I believe that from all sides this makes sense for Southern Inyo County. From an economic stand point the waterway would allow for an augmentation of existing businesses, more rooms would be filled and more may be meals served. There would also be new business opportunities such as kayak and intertube rentals. From an environmental view the waterway can be used to create a focus on California's water and the need to steward, protect, conserve, and share this precious resource. From an emotional and psychological stand point the increased access to water should have a positive effect on the community at large. From a recreational

view it creates a watersport to go with the hiking, climbing, mountain biking, and ATV usage that made the region an international destination. Finally from an aesthetic perspective the water way will have a balancing effect on the region by balancing the dry picturesque desert with an assessable and navigable wet land.

How assessable this new channel should be is a question that needs to be answered. How much infrastructure should there be? Will it have a frontcountry feel or keep the backcountry ethic of most of Inyo County is known for? These questions will be a matter of debate in the future but whatever the answer we at SWS Mountain Guides give full support to **The Owens**River Water Trail.

Neil Woodruff

Manager Senior Guide

SWS Mountain Guides: Eastern Sierras Office

Timothy S Keating

CEO - Founder of SWS Mountain Guides SWS Mountain Guides - Main Office

The Writer's Choice
Better Write than Wrong;
Better Read than Dead
Freelance Writer Charles James
Big Pine, California

26 August 2015

### Re: California River Parkways Grant Program and the Owens River Parkway Proposal

Dear Grant Review Members,

I am a local journalist writing for news media outlets in the Eastern Sierra. Having covered the Lower Owens River Project (LORP) and Recreation Plan for many years, I have interviewed hundreds of local residents and visitors to the area on their experiences here. With the restoration of the Lower Owens, the variety of fish, flora, and fauna that has sprung forth over just a few years has been astounding to witness. It is with that in mind that I find myself very excited about the Owens River Water Trail Grant Proposal being submitted to you by Inyo County. It will guarantee the continued success of the largest river restoration project ever attempted in our country's history.

The communities of the Eastern Sierra are highly dependent on ecotourism. Time and again, I find myself covering stories of projects that threaten our local environment ranging from continued water exports to large solar energy projects. The local communities have stood fast to keep the large-scale industrialization of the area at bay and have largely succeeded in doing so, however the threats continue.

The history of the Owens Lake itself has long served as a poster child on how large-scale manmade projects can be enormously destructive even as it may have benefited many others. It has seriously threatened and destroyed the natural environment of the Owens Valley, and it has presented health hazards that have extend far beyond the lake itself. Whether serving as an object lesson or just a simple aesthetic pleasure, to paddle down the Lower Owens River into the Owens Lake would be marvelous way to experience the joy of nature and reflect on the efforts that have been taken (and are continuing) on its behalf for those living now and in future generations.

The ORWT proposal would greatly enhancement the opportunities available for the large number of visitors to the area for recreation, wildlife viewing, fishing, boating and paddling. It also would help the local rural economies and provide much needed jobs.

I strongly urge your support of Inyo County's grant proposal for the Owens River Water Trail.

Sincerely yours, Charles James Freelance Journalist Big Pine, CA (760) 263-9687 Reply Reply All Forward

## Support for the Owens River Water Trail

## George Wolfe [gwolfe.mail@gmail.com]

To:

Larry Freilich

Cc:

Joel Shapiro [joel@electriclodge.org]; anthea raymond [anthea.raymond@gmail.com];

Brendan Nelson [brendan.nelson@tvc.cbs.com]; chris lee [chris@lariverexpeditions.org];

Sara Perales [sara@lariverexpeditions.org]; Jonathan Sherman [jonathan@lariverexpeditions.org]

Sunday, August 23, 2015 3:08 PM

You forwarded this message on 8/23/2015 7:12 PM.

To:

California River Parkways Grant Program The Natural Resources Agency Attn: Bonds and Grants Unit 1416 Ninth Street, Suite 1311 Sacramento, CA 95814

Care of:

Larry Freilich Mitigation Manager, Inyo County Pob 337, Independence, CA 93526 www.inyowater.org

Dear Natural Resources Agency,

We would like to throw our support behind this great idea for an Owens River Water Trail. As we've seen through activities down here on the Los Angeles River, one logical step toward a nascent river's revitalization is to begin with public use. Both our river and the Owens have suffered from decades of abuse and neglect, but that can change quickly with a groundswell of support, from grassroots activity to statewide agencies to even federal involvement.

Of course, both rivers have much older histories, but what both rivers have in common is that they've needed a few initial leaders to raise consciousness and nudge them back into being so that these gems within our respective communities can flourish once again and be enjoyed by new generations of the wider public.

We've enacted a multi-pronged strategy since 2011, when we were part of a kayaking & recreational coalition that has over 5 years created an estimated 5,000+ environmental stewards who've kayaked the river and are in support of its continued use and recovery. This jumpstart to the river's new potential and vitality has played a role in acquiring roughly \$1.3 billion for much more involved projects that will reprioritize the river for many years to come.

8/21/2015 water trail

### water trail

Frank Colver [fcolver@znet.com] Sent:Thursday, August 20, 2015 1:04 PM To: Larry Freilich

As an enthusiast of Owens River recreation I strongly support the Inyo County proposal for the creation of the Lower Owens River Water Trail.

Frank Colver Newport Beach, CA 8/21/2015 Owens River Trail

### **Owens River Trail**

BarbaraWinckler@gmail.com [barbarawinckler@gmail.com] Sent:Thursday, August 20, 2015 5:19 PM To: Larry Freilich

Hi Larry;

I wanted to write and show my support for the Owens River Trail for which you are rallying to gain support. As an enthusiast of Owens River recreation, and after paddling on it several times, it has captured my heart.

So, I'm strongly supporting the Inyo County proposal for the creation of the Lower Owens River Water Trail.

Greg and I moved to Michigan this last February, but when we come back into town, we would definitely be available to help you with any river grooming you might need.

Keep up the good work.

All the Best... Barbara

Please excuse any typos. (Or odd words) as this was sent from my iPhone. ... Auto correct can be a beautiful thing! :-) - Then again...;-)

### **Owens Valley River Trail**

Gcamplin [gregcamplin321@mail.com] Sent:Thursday, August 20, 2015 5:29 PM To: Larry Freilich

Hi Larry;

I wanted to write and show my support for the Owens River Trail for which you are rallying to gain support. As an enthusiast of Owens River recreation, and after paddling on it, this would be a definite plus for the area.

So, I'm strongly supporting the Inyo County proposal for the creation of the Lower Owens River Water Trail.

All the best. Greg Camplin 3969 Last Bay Drive Traverse City, MI 49696

Sent from my iPhone

### **Larry Freilich**

From:

Ted Schroeder <tedschroeder@icloud.com>

Sent:

Tuesday, August 25, 2015 12:40 PM

To: Subject: Larry Freilich

Owens River Trail

To All involved in the proposed Owens River Trail: Do it. I'm a 75 year old guy raised in Lone Pine. In the past our family has floated the Truckee, Klamath, Rogue, Colorado and side trips In the Sierra and Europe. These trips fostered a sense of adventure and an educational foundation for an understanding of what makes this old planet tick. We,Owensites have lost so much to "progress" it's time to get something back. Good Luck and Happy Trails to all. Ted and Sue Schroeder, 619 Marsh Ave. Reno, Nevada 89509

Sent from my iPad

#### **Larry Freilich**

From:

Linda Ellsworth < linda 9417@yahoo.com>

Sent:

Monday, August 24, 2015 4:26 PM

To:

Larry Freilich

Subject:

The Owen;s River Trail

To whom it may concern,

My name is Linda Ellsworth and I am a resident and business owner (Ray's Den Motel) living in Independence, Ca. I just read about the Owen's River Trail project and would like to voice my support for this incredible idea. I used to be a river guide in Utah and since moving to the Owen's Valley I miss floating a boat through beautiful scenic areas. I have kayaked the Owen's River north of Bishop and wish there were more places near Independence. Most of the Owen's River is hard to get to with the high banks and a lot of it is choked by cattails. I would love to see this project go through for my own personal benefit and as an added recreational activity for the people that visit this area.

Count me in. I can volunteer some time if needed during the winter months.

## **Larry Freilich**

From:

Robert Tokar <rob@tokartoons.com>

Sent:

Monday, August 24, 2015 7:35 AM

To: Cc: Larry Freilich George Wolfe

Subject:

Owens River Water Trail

Hello,

I'm writing to express my interest in paddling the Owens River Water Trail and I'd like to inquire about stewardship as well.

I paddled on the LA River for the first time this summer and I'm excited to add to my experience.

Best regards,

**Rob Tokar** 

West Hollywood, CA

Sent from my iPhone. Please excuse any shortcuts or typos.

## **Owens River Trail**

Sheri [sherimac.raft@att.net] Sent: Saturday, August 22, 2015 9:22 AM To: Larry Freilich

I'm a kayaker/rafter in Orange County who believes the Owens River is special. The chance to spend two or three days, particularly in fall, is worth the long drive from southern California. I support Inyo County's proposal for a lower river trail.

Sherilyn McDonald, Esq. 605 Cherry St. Brea, CA 92821

## **Larry Freilich**

From:

pagawaga1@surewest.net

Sent:

Monday, August 31, 2015 10:44 AM

To:

Subject:

Larry Freilich Owens Valley Water Trail

Good morning,

I just wanted to write in Support of an Owens Valley Water Trail. As a recurring visitor whose stepson lives in Inyo County, a Water Trail is a great idea and would bring additional tourism and economic value to the region.

Respectfully,

Paula Gammell

August 26, 2015

California River Parkways Grant Program
The Natural Resources Agency
1416 Ninth Street, Suite 1311
Sacramento, CA. 95814

ATTENTION: OWENS RIVER WATER TRAIL SUPPORT

To Whom It May Concern:

I am a business owner in Lone Pine, California. I am writing to ask that you please consider approving the grant for the Owens River Water Trail.

Lone Pine has an average of 300,000 visitors each year, of which approximately one third come from Europe. These visitors enjoy the natural aspects of Lone Pine, whether hiking, fishing, bird watching or photographing the unique landscape of the Alabama Hills and other scenic areas.

This Water Trail would provide a unique and memorable experience for all visitors.

This Trail would also provide an economic benefit to our town as people may stay an extra day or two which would provide additional business to our local motels and restaurants which in turn would provide additional tax for Inyo County and the State of California.

Lone Pine is already considered a "destination" town and this Trail would only add to the natural resource attractions we are already known for.

Thank you for your time and consideration.

Kathi Hall PO Box 1028 Lone Pine, CA. 93545



INYO COUNTY
Water Department
135 South Jackson Street;
P.O. Box 337, Independence, CA 93526
760-878-0001 p; 760-878-2552
www.inyowater.org

# DRAFT MITIGATED NEGATIVE DECLARATION OF ENVIRONMENTAL IMPACT AND INITIAL STUDY

PROJECT TITLE: Owens River Water Trail

PROJECT LOCATION: Lone Pine, California

**PROJECT DESCRIPTION:** The Owens River Water Trail (project) provides recreational access to a 6.3 mile section of the 62.0 mile, newly rewatered, Lower Owens River. The project provides recreational boaters with a structured method to enter and exit the water, and allows unimpeded navigation, which is now not possible due to channel that is partially or fully occluded by emergent vegetation.

The project involves mechanically opening up 0.78 miles of blocked river channel and widening about 1.75 miles of narrow channel to allow passage through the entire length of the river by non-motorized watercraft, such as kayaks and canoes.

The project constructs water entry and water exit structures along the river bank. Small parking areas with gravel surfaces will be constructed near both of the water access locations. At the water exit location, a staging area will be constructed to allow boaters vehicle access to retrieve boats and equipment at the end of the run. Pedestrian paths between parking and staging areas and the water entry and water exit structures will be constructed. Signage will be erected including highway directional signage, road direction signage, and route orientation markers along the river course. Interpretive/ instructional kiosks will be constructed near both of the river entry and exit points.

**FINDINGS:** An Initial Study and Evaluation of Potential Impacts has been prepared by the Water Department (attached). The Initial Study, including an environmental checklist, indicates that the proposed project would not have a significant adverse impact on the environment for the following reasons:

- A. The proposed Owen River Water Trail consistent with nearby uses in the area. No conflicts exist with goals and policies of the General Plan, and the project is consistent with the Inyo County General Plan.
- B. The proposed Owen River Water Trail is consistent with the requirements of the Title 18 (Zoning) and other sections of the Inyo County Code (ICC).
- C. The proposed project's improvements: natural surface cover for parking areas, paths to water and water entry will meet permit requirements and incorporate best design standards and will have less than a significant impact. Hand clearing to remove emergent vegetation will be in adherence to permit

requirement and is expected to result in less than significant impacts. Potentially significant impacts might be expected during mechanical construction to open the river channel, but are not expected to result in long-term significant impacts. Construction impacts may be significant in the following environmental issue areas: Biological, and Hydrological/Water Quality. The following mitigation measures are identified:

Mitigation Measure Bio-1: Mechanical removal of cattail and bulrush stands shall only occur in the fall and winter (October 1 to March 1) to avoid conflicts with breeding birds. Work outside of this time may be conducted if field surveys determine there would be no effect to nesting birds.

#### Mitigation Measure Bio-2:

To the extent possible, parking areas will be constructed to minimize disturbance of floodplain vegetation including large trees, shrubs and groundcover layers. Any trees lost in construction will be replaced at a 1:4 ratio. Any wetland acreage lost to construction will be replaced in kind in the project area. Boulders will be placed at the perimeter of the parking areas to prevent vehicles from entering adjacent wetlands. Interpretive signage associated with the project will include a description of wetland values.

- Mitigation Measure Hydro/WQ-1: Best construction management practices will be implemented. Water quality will be monitored downstream of construction and work will stop if permitted threshold conditions are exceeded, and begin again once conditions improve.
- Mitigation Measure Cul-1: Project proponents will work with the California Office of Historic Preservation, Bureau of Land Management, and Regional Native American Tribal representatives to identify any known significant archeological or historic sites in the project area. These sites will be avoided during construction. Inyo County shall notify Tribal representatives prior to beginning earthwork for the channel clearing work. Interested Tribal representatives shall be invited to be present during earthwork. A trestle that is evidence of the historic Keeler Bridge is near construction activity planned for the southern end of the project. Temporary construction fencing shall be installed along the perimeter of the area of the trestle to avoid construction equipment, vehicles, or personnel from accidentally entering and disturbing the site.

With mitigation, such potential adverse environmental impacts are not expected to exceed thresholds of significance, either individually or cumulatively.

D. Based upon the Initial Study and environmental evaluation of the proposed project, it has been found the project with mitigation does not have the potential to create a significant impact on flora or fauna; natural, scenic and historic resources; the local economy; or, public health and welfare. This constitutes a negative finding for each of the Mandatory findings required pursuant to Section 15065 of the California Environmental Quality Act (CEQA) Guidelines.

Please contact Larry Freilich (760-878-0011; lfreilich@inyocounty.us) if you have any questions, or require additional information regarding this project.

Inyo County Water Department	
Name, Title, Agency	Date



INYO COUNTY
Water Department
135 South Jackson Street;
P.O. Box 337, Independence, CA 93526
760-878-0001 p; 760-878-2552
www.inyowater.org

# CEQA APPENDIX G: INITIAL STUDY & ENVIRONMENTAL CHECKLIST FORM

#### **EVALUATION OF ENVIRONMENTAL IMPACTS:**

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
- a) Earlier Analysis Used. Identify and state where they are available for review.

- b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
- c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
- a) the significance criteria or threshold, if any, used to evaluate each question; and
- b) the mitigation measure identified, if any, to reduce the impact to less than significance issues.



INYO COUNTY
Water Department
135 South Jackson Street;
P.O. Box 337, Independence, CA 93526
760-878-0001 p; 760-878-2552
www.inyowater.org

APPENDIX G: CEQA INITIAL STUDY & ENVIRONMENTAL CHECKLIST FORM

1. Project title: Owens River Water Trail

2. Lead agency name and address: Inyo County

3. Contact person and phone number: Bob Harrington, 760-878-0001

4. Project location: Lone Pine, CA

5. Project sponsor's name and address: same as Lead

6. General Plan designation: Open Space and Recreation

7. Zoning: OSR

**8.** <u>Description of project</u>: The Owens River Water Trail (project) allows recreational access to a section of the 62.0 mile, newly rewatered, Lower Owens River. The project provides non-motorized recreational boaters with infrastructure to park a vehicle, a path to the river, and a launch pad on which to enter and exit the water, and allows unimpeded navigation from launch entry to the boat exit point 6.3 miles downriver, which is now not possible due to channel blockage by emergent vegetation (bulrush, Schoenoplectus acutus and cattail, Typha latifolia).

The project involves using mechanical construction equipment to open 0.78 miles of occluded river channel and uses hand clearing to widen about 1.75 miles of narrow river channel to allow unimpeded passage through a section of the Lower Owens River by non-motorized watercraft such as kayaks and canoes. A tracked excavator and a wheeled or tracked haul will be used to clear occluded sections. Vehicles and tracked equipment will avoid wetlands. Track mats will be used to traverse marsh. Spoils will be placed at the edge of the floodplain. Construction equipment will be stored out of the floodplain on tarps.

Project improvements will include upstream and downstream rock surfaced parking areas constructed away from the river. Rock/geotextile surfaced footpaths will connect the parking areas to the river. The paths will lead to rock/geotextile water entry launch pads and water exit pads constructed at the water's edge. Near the downstream water exit a staging area will be constructed to allow boaters vehicle access to retrieve boats and equipment at the end of the run. Signs will be erected, including directional signage on roads, and route orientation markers along the river course. Interpretive/instructional kiosks will be installed near both of the river entry and exit points.

- **9.** <u>Surrounding land uses and setting</u>: Surrounding land uses include cattle grazing, electric transmission utility corridor, a wastewater treatment facility, and a County waste disposal facility. The project area, defined by the perimeter of the floodplain from Lone Pine Narrow Gauge Road south to Highway 136, is largely a natural setting. The floodplain varies in width from 0.12 to 0.33 miles. Dominant floodplain vegetation include salt-grass meadow and tree and shrub willow woodland. A number of informal roads parallel the river on sandy chalky bluffs. A few dirt roads enter the floodplain from the bluff. A range fire swept through about 50% of this floodplain in 2013.
- **10.** Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement): Los Angeles Department of Water and Power (landowner), California Department of Fish and Wildlife, Army Corp of Engineers, Lahonton Regional Water Control Board.

## **ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

Aesthetics Resources	☐Agriculture and Forestry	☐Air Quality			
⊠Biological Resources	⊠Cultural Resources	☐Geology/Soils			
Greenhouse Gas Emissions	☐Hazards & Haz. Materials	⊠Hydrology/Water Quality			
Land Use/Planning	Mineral Resources	Noise			
☐Population/Housing	Public Services	Recreation			
Transportation/Traffic	Utilities/Service Systems	☐Mandatory Findings of Sig.			
DETERMINATION: (To be completed)					
On the basis of this initial evaluation	I <b>:</b>				
☐ I find that the proposed proje and a NEGATIVE DECLARATION v	ct COULD NOT have a signific vill be prepared.	ant effect on the environment,			
I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.					
☐ I find that the proposed proje ENVIRONMENTAL IMPACT REPO	ct MAY have a significant effec RT is required.	t on the environment, and an			
I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.					
I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.  Name  Title, Agency  WATER DIRECTOR  Name  Title, Agency  WATER DIRECTOR  Name  Title, Agency					

# **ENVIRONMENTAL CHECKLIST FORM**

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
I. AESTHETICS Would the project:				
a) Have a substantial adverse effect on a scenic vista?			$\boxtimes$	
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
c) Substantially degrade the existing visual character or quality of the site and its surroundings?				$\boxtimes$
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				
Discussion: (a) Improvements will be visible, but will not stand of Some small trees may need to be removed, however all significate will not be disturbed. No rock outcrops, or historic buildings will be designated scenic highway. (c) Construction of parking areas, so visible, and will displace salt grass meadow, but construction will and informal parking areas. Water entry/exit points will be visible dominate the natural setting. Improvements in the area of the water infrequently traveled county road and will be somewhat visible freexisting background structures and existing improvements. Potentially, Improvements are significant environmental effects, lead agencies may refer to the Assessment Model (1997) prepared by the California Dept. of Compacts on agriculture and farmland. In determining whether imposing significant environmental effects, lead agencies may refer to information for the Protection regarding the state's inventory of formation project and the Forest Legacy Assessment project; and forest caprotocols adopted by the California Air Resources Board. Would	ant trees in the a be impacted. The staging areas, pa If be in areas that if from the water ater entry and water om a state highwantial impacts will conservation as a pacts to forest re- ormation compile arbon measurem	rea of improved of project area can this to water and the tare largely already and from the ater exit points who way, but will not so be temporary and pacts to agricultual Land Eval on optional models ources, including the Forest and the taready and the Forest and the project and the taready and the forest and the project and the forest and the project and the pro	parking, and river not be seen from the seen from the water entry will add disturbed by County road by ill be visible from the stand out from the less than signal resources a uation and Site I to use in asset in the less than the less than the less than signal resources and the less than signal resources and less than signal resources are resources and less than signal	ver area com a I be ey roads out will not m an the gnificant.  are of essment
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				$\boxtimes$
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section				

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				
d) Result in the loss of forest land or conversion of forest land to non-forest use?				$\boxtimes$
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?			$\boxtimes$	
Discussion: (a) The project does not affect land shown on the Monitoring Program of the California Resources Agency. (b) La Recreational and is not in conflict with a Williamson Act contract [Correct?]. The County does not propose a zone change in the scattered with a low density of willow and a small number of consequence to support 10 percent native tree cover (Public Resource a combined < 1.0 acre parking facility and associated replaced in the immediate area at a ratio of 1:4 (e) Construction about 1.0 acre, some of which is currently grazed, as a result savailable to cattle.  III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality	and in the project of. (c) The project of project area. (d) ttonwood and un urces Code 1222 river access path of a parking lot	area is zoned O et does not confli ) The 395 acre p der natural cond 0(g)). A few trees n, and water entr and the river acc	pen Space and ct with area zon project planning litions would no s may be remo by facility. These cess path will o	I ning (OSF area is of be ved to e will be ccupy
management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?				
<ul> <li>b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?</li> </ul>				
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?				
d) Expose sensitive receptors to substantial pollutant concentrations?				$\boxtimes$
e) Create objectionable odors affecting a substantial number of people?				$\boxtimes$

**Discussion**: (a) Construction machinery and ground disturbance will temporarily cause an increase in particulate pollution in the Owens Valley PM-10 Planning Area (OVPA) and will result in emissions of criteria pollutants. However, this contribution is temporary; only during the construction phase and during this period project activities are not expected to significantly raise PM-10 pollution above background conditions. (b) Temporary construction will not lead to any exceedance of air quality standards. (c) Construction machinery and ground disturbance will temporarily cause an increase in particulate pollution in the Owens Valley PM-10 Planning Area (OVPA), but is not expected to contribute to any criteria air pollution exceedances. (d)(e) Any air pollution emissions will be temporary and indistinguishable from background pollutants. Excavating emergent vegetation may temporarily disturb anaerobic sediments causing the release

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Less Than Significant Impact

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of gases including methane, ammonia, and hydrogen sulfide; however, the closest receptor population is 0.9 miles west of the construction site. This same population is within 0.5 miles of the town wastewater facility, and the smells would be expected to be similar. Due to distance from planned construction, and dilution of odor over a distance, it is expected that the project will not subject a substantial number of people to objectionable odors. River odors are common in the surrounding area, and less than significant impacts will result.

IV. BIOLOGICAL RESOURCES: Would the project:		
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?		
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?		
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?		
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?		
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?		

Discussion: (a) Owens pupilish and the Owens tui chub are both listed as T&E species by federal and state governments. Owens speckled dace is a California species of special concern and has been listed as a species of concern in the Federal Draft Species Recovery Plan for the Owens Basin; Owens sucker is a species of special concern with the State of California. Aquatic habitat suitable for these species is found in the project area; however, a 2008 California Department of Fish and Game (CDFG) sampling in the LORP area for native fishes has shown that only pupfish are present and are found at only one location off-river. The river's large population of predator largemouth bass makes it unlikely that any of these species would be present in the project area. The Owens Valley California vole (Microtus californicus vallicola), a California Species of Special Concern, is found in the project area. The vole has been found to be abundant along the entire Lower Owens River (2008-2011 Rapid Assessment Surveys, Inyo County Water Department, and Los Angeles Department of Water and Power). The mechanical removal of bulrush and cattail could disturb nesting birds by destroying cover and nests, altering breeding behavior, and displacing breeding pairs. The least bittern, a special status species could be affected. (b) About 13,371 feet of river channel will be excavated to remove emergent vegetation and establish a clear open-water channel. Emergent vegetation is a common habitat type along the Owens River, whereas open water is a rare feature in the Owens Valley. Increasing open water cover is seen as a habit benefit.

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Construction will likely result in temporary adverse water quality conditions that could adversely affect game fish due to the depletion of oxygen, and possible increase in hydrogen sulfide and ammonia. The poor water quality could cause fish kills along the river downstream of construction. However, LADWP has excavated sections of the river to remove blockages without triggering fish kills. The Lower Owens River has experienced a number of fish kills with the fishery recovering quickly once water quality conditions improved. (c) The project will mechanically remove sediments and marsh vegetation from up to 2.5 miles of the river. A temporary 15-foot wide haul road will be established for the excavator and trucks. It will be created by driving over the existing vegetation in flat areas, and by minor grading where the terrain is uneven. Several temporary roads will be created perpendicular to the main haul road to provide access to existing dirt roads on the bluff above the river. Establishment of these roads would result in the short-term disturbance of about 16.5 acres of desert sink scrub and alkali meadow. Additionally, up to 0.25 acres of mesic vegetation will be lost, and less than 10 trees (trunks 4"-12") will be removed. Wetlands lost will be created elsewhere in the project area, and trees taken will be replaced at a ratio of 1:4. (d) No native resident or migratory fish are found in this section of the river. Avian species such as Marsh wren, Least bittern and Rails are known to occur near the river. Construction timing and monitoring will reduce this impact to less than significant. (e) There are no local policies, or ordinances, that govern treatment of biological resources in the project area. (f) There are no conservation plans in force in the project area.

V. CULTURAL RESOURCES: Would the project:						
a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?						
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?						
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?						
d) Disturb any human remains, including those interred outside of formal cemeteries?			$\boxtimes$			
Discussion: (a) From May 1880 until April 1960, the Carson and Colorado Railroad Company ran narrow gauge railroad cars in the project area. The remains of a trestle embankment, which supported the train over Keeler Bridge is near the river exit point. Ground disturbing activities during construction are expected to be limited in this area due to the relatively small project scope, which requires minor grading and installing gravel to create a parking area. Given the limited scope o ground disturbing activity, discovery of unknown resources is not anticipated. (b) No known prehistoric or archeological sites are known to occur along the margins of the Lower Owens River, within the floodplain that would be affected by the project (LORP EIR, 1991). Because of the dynamic and energetic actions of a river, the muck taken from the river channel is unlikely to yield archeological resources, however, the parking areas, paths to the river, and riverbank entry and exit points may require earthmoving, which has the potential to unearth previously unknown cultural resources. In addition, the clearing of the river channel will require establishment of temporary access roads along the eastern and western bank, and possibly additional temporary roads to provide access from the river to the nearest existing service road. Establishment and use of these construction-related roads and/or use of construction equipment during the channel clearing work could potentially affect archeological and historic sites. (c) (d) In the event that unknown archaeological resources and/or human remains are disturbed during construction, compliance with CEQA Guidelines Section 15064.5 and standard County policies will work to preclude potentially significant impacts.						
VI. GEOLOGY AND SOILS: Would the project: a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:						
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning				$\boxtimes$		

	Potentially Significant Impact	Less I han Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				
ii) Strong seismic ground shaking?			$\boxtimes$	
iii) Seismic-related ground failure, including liquefaction?				
iv) Landslides?				$\boxtimes$
b) Result in substantial soil erosion or the loss of topsoil?				$\boxtimes$
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				
d) Be located on expansive soil, as defined in Table 18- 1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				
<b>Discussion</b> : (a) Lone Pine and surrounding areas are subject related ground failure, such as liquefaction, however, the project Zone (CA Department of Conservation, AP map, Lone Pine Questructures that could be disturbed and pose a threat to the public grading, but will be surfaced with permeable materials to minimal relatively level, such that landslides are not anticipated. (d)(e) accommodate waste water disposal systems.	ect area is not w uad). Improvem plic. (b) The pro mize runoff and	vithin an Alquist-F nents will not inclu ject improvement erosion. (c) The i	Priolo Earthquai ide buildings, c s may require i improvement s	ke Fault or other minor ites are
VII. GREENHOUSE GAS EMISSIONS: Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				$\boxtimes$
<b>Discussion</b> : (a) Construction and operation of the project will these emissions will be limited due to the relatively small size contribute to reductions in GHG emissions, in that promotes no	of the project. T	he project once o	completed is ex	pected to

**Discussion**: (a) Construction and operation of the project will result in greenhouse gas (GHG) emissions. However, these emissions will be limited due to the relatively small size of the project. The project once completed is expected to contribute to reductions in GHG emissions, in that promotes non-motorized recreation. The project site is located 2.5 miles from town, within biking distance to town. The relatively low levels of GHG emissions resulting from the project are expected be less than significant. (b) No conflict with any plan, policy, or regulation for reducing GHG emissions is identified.

#### **VIII. HAZARDS AND HAZARDOUS MATERIALS:**

Would the project:

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				
<b>Discussion</b> : (a)(b)(c) No hazardous materials will be used or displayed implementation. (d) The site is not known to be on any list compared Lone Pine Airport airstrip is located as close as 0.8 miles from operations/year) and other than during construction, no people project will not interfere with any emergency response or evacure reported, most recently a human-caused wildfire swept through This fire was fueled by grasses and trees in floodplain and acceptionally fire defensible spaces lie between the town and the river. The regarding hazards and 0 ous materials will be less than significant.	oiled pursuant to om the site. Active will be working of ation plan. (h) Find about 50% of the lerated by high vectore Pine is locativere are no built si	Government Co vity at this airpon r residing in the res in the project e project area or vinds, but the fire ted above the riv	de Section 659 t is low (~1,300 project area. (g t area have bee n February 24-2 e was confined er terrace and a	62.5. (e)(f) ) The en P5, 2013. to the a number
IX. HYDROLOGY AND WATER QUALITY: Would the project:	_		_	-
a) Violate any water quality standards or waste discharge requirements?			Ц	
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there				$\boxtimes$

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?				
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off-site?				
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				
f) Otherwise substantially degrade water quality?		$\boxtimes$		
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				
<ul> <li>i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?</li> </ul>				
j) Inundation by seiche, tsunami, or mudflow?				$\boxtimes$

Discussion: (a) The Lower Owens River (LOR) occurs in the jurisdiction of the Lahontan Regional Water Quality Control Board (Regional Board). The Basin Plan for the region sets forth water quality standards for surface and ground waters of the region. Additionally, the LOR is a water of the United States, which requires the project meet Section 401 certification requirements through the Army Corp of Engineers. The project will be designed to conform to permit standards, and meet all water quality standards during project construction and throughout project implementation. The County will use best management practices during project construction and will monitor to assure that water quality objectives are met. (b) Removal of emergent vegetation will to a small degree reduce evapotranspiration, so a slight increase in recharge might be expected as a result of the project. Otherwise, no impact is expected that will deplete groundwater or affect area wells. (c) The river course will not be altered. Mechanical clearing and widening of the river will follow the existing river channel. Channel clearing and widening may increase laminar flow and can be expected to somewhat increase the velocity of the river, but the increase in velocity in this low gradient river is unlikely to cause bank erosion. Initially, the increase in flow velocity after the river is cleared and widened may increase the transport of organic and inorganic bottom sediments. which will be transported downstream and deposited in lower stretches of the river, or in the forebay of the LOR Pumpback station (3.9 river-miles below the project area). Unplanned flood events in this area have scoured sediments and transported material in the lower sections of the river without evidence of erosion or excessive siltation. These flood events caused magnitudes greater disturbance to the river then can be expected from careful channel excavation. This evidence suggests that the effect of increased river velocity and accompanying increase in the transport of sediments will not result in significant downstream erosion and siltation. (d)(e) Construction to clear occlusions and widen sections of the

Potentially Significant Impact Less Than Significant With Mitigation Incorporation

Less Than Significant Impact

No Impact

river will follow the existing watercourse, so no alterations in drainage patterns are expected to result from the project. Improvements including parking and staging areas, paths to the river, and river access points will be constructed with pervious materials, although these improvements will somewhat change local drainage patterns, the use of permeable materials and the small project footprint make this impact less than significant. Drainage from the parking areas will cause some hydrocarbon pollutants to migrate from the project area, but the amount of polluted runoff leaving the improved area is expected to be small, and through the use of permeable materials hydrocarbon pollution will be transported vertically and pollution would be expected to be mitigated through soil degradation. (f) Mechanically clearing and widening sections of the river will result in temporary water quality impacts that can be significant. The disturbance of organic sediments in the channel may reduce dissolved oxygen levels and increase hydrogen sulfide and ammonia levels. These impacts would be minimized to the extent feasible by best practices construction management. Water quality monitoring will be enforced and if standards are exceeded and work will stop until conditions improve. Although temporary water quality degradation is likely, the project can be expected to improve water quality over time. The river in the project area is slow moving and not energetic, the removal of emergent vegetation and widening of the channel can be expected to somewhat increase flow velocity and improve the efficiency of flow to scour benthic and vegetation sequestered sediments. This is seen as positive improvement, as the build-up of muck and flocculants in the sediment is blamed for reducing dissolved oxygen when the water is warm and sediments are disturbed by unplanned flood events. (g)(h) No housing will be constructed in the project area. (i) No dams or levees will be constructed in the project area. (j) The project area is not subject to threat by seiche, tsunami, or mudflow.

X. LAND USE AND PLANNING: Would the project:				
a) Physically divide an established community?				$\boxtimes$
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?				
<b>Discussion</b> : (a) The project site is zoned Open Space (OS-which allows for the proposed use. The site is utilized for paconsistent with these uses. The project will not divide any of No Habitat or Natural Community Conservation plans apply General Plan, the Lower Owens River Monitoring, Reporting Land Management Plan. (c) No HCP of NCCP is in force in the contract of the Natural Conservation of the Natural Conservation (c) No HCP of NCCP is in force in the Natural Conservation (c) No HCP of NCCP is in the Natural Conservation (c) No HCP of NCCP is in the Natural Conservation (c) No HCP of NCCP is in the Natural Conservation (c) No HCP of NCCP is in the Natural Conservation (c) No HCP of NCCP is in the Natural Conservation (c) No HCP of NCCP is in the Natural Conservation (c) No HCP of NCCP is in	rk and recreated the site of the site. (b) and Adaptive	tional purposes cu d will accommoda ) The project does Management Pla	urrently, and the te greater comn s not conflict with an, or LADWP's	LPCC is nunity benefit. h the County Owens Valley
XI. MINERAL RESOURCES: Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				$\boxtimes$
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?				

(a)(b) No significant mineral resources are known to be accommodated on the site. No impact is expected.

XII. NOISE: Would the project result in the:

	Potentially Significant Impact	Less I nan Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				$\boxtimes$
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?				
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				$\boxtimes$
<b>Discussion</b> : (a)(b)(c)(d)(e)(f) The project will result in a temperature will be at least 0.8 miles from the nearest receptor a generated by construction will not be significantly greater that increased recreational activity at the site, but this type of noise recreational uses. Noise from construction equipment will be specification requirements. The closest point between the Leairport receives approximately 1300 visits annually. The resurver and the airstrip is that the project will not expose people vibration impacts will be less than significant.	population in the in background no se is consistent v minimized throu one Pine airport ilt of this low use	town of Lone Pine pise in town. Long vith current nearby gh compliance wi and the project sit and the consider	e. At this distanterm noise with non-motorize the standard bute is 0.8 miles.	nce the noise Il result from ad ilding and Lone Pine between the
XIII. POPULATION AND HOUSING Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				
<b>Discussion</b> : (a)(b)(c) The project will result in a new recreati it is not expected that this growth will be substantial. No housanticipated.	ional attraction, v sing or people wi	vhich may encour Il be displaced. N	age populatior lo significant in	growth, but npact is

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
XIV. PUBLIC SERVICES: Would the project:				
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
Fire protection?				$\boxtimes$
Police protection?				$\boxtimes$
Schools?				$\boxtimes$
Parks?				$\boxtimes$
Other public facilities?				$\boxtimes$
Discussion: (a) Increased demand for fire and police protection facilities and staff. The project will not increase the demand for recreational opportunities that may reduce some demand on a and in some cases beneficial.  XV. RECREATION: Would the project:	r schools or park rea parks. Impa	ss. This project pr cts are expected	rovides addition to be less than	nal significant
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?			П	
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				
<b>Discussion</b> : (a) The Owens River Water Trail establishes a new pexpected to attract residents and visitors who currently recreated parks in that it offsets some existing recreational demand. (b) improvements. Facilities offered are parking areas, short paths structured, guided use that concentrates users in areas preparations enter the area where they can, creating a network of new increased recreational use in the project area will cause some this section of the river is already a popular recreation site. Additional adverse physical effects in the project area.	e at in-town park The project creat to the river, and red specifically fo ew roads and par adverse effects,	facilities. The proper facilities. The proper facilities for the proper facilities facilities for the proper facilities for the proper facilities for the proper facilities for the proper facilities facilities for the proper facilities facilities for the proper facilities facilit	oject will benef ccess with mini which encoura /ithout such str nsitive riparian or disturbing w	it area imal ges ucture habitat. vildlife, but
XVI. TRANSPORTATION/TRAFFIC Would the project:				
a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either				

Agency Environmental Checklist Form

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?				
b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?				
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
e) Result in inadequate emergency access?				$\boxtimes$
f) Result in inadequate parking capacity?			$\boxtimes$	
g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?				$\boxtimes$
also sees little traffic. The number of trips generated by this nathese existing roads and associated intersections. (c) The was any way. (d) The project constructs no new roads. Access frostandards. (e) Emergency access will be unaffected by this paparking areas can be used to stage emergency vehicles if new and create a need for more parking. This is accommodated be parking area provided will be adequate to meet project needs be accommodated in the developed parking area. Overflow pay without obstructing traffic. (g) This project is not in conflict with many water trail users will arrive and leave the area on commod will further reduce traffic to and from the project improvement.	ter trail and asson the street to project. Emergen eded. (f) The property providing structs, on occasion the arking can be ach any governing percial shuttles decomposed to the structure.	ociated facilities was parking areas will be a coess will be a coject will bring months area are project will receducommodated road policies, plans, of parking area, policies, plans, of parking area and policies, plans, of parking area area.	rill not affect aid be designed to improved in the improved in	r traffic in to meet at improved the area ys the rs that can ng turnouts s likely that
XVII. UTILITIES AND SERVICE SYSTEMS Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				$\boxtimes$
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are				$\boxtimes$
A			_	

Agency Environmental Checklist Form

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less Than Significant Impact	No Impact
new or expanded entitlements needed?				
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				×
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				
g) Comply with federal, state, and local statutes and regulations related to solid waste?				$\boxtimes$
<b>Discussion</b> : (a)(b)(c)(d)(e)(f)(g) No water, wastewater, or so	lid waste service	es will be provided	l as part of this	s project.
XVII. MANDATORY FINDINGS OF SIGNIFICANCE: a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				

**Discussion**: (a) The project, once completed, is expected to enhance environmental quality; more open water, a rare resource in the Owens Valley will be created, and water quality is expected to improve with the opening of the stream channel. Improvements made to provide parking and a path to the river will reduce uncontrolled entry into the floodplain and river channel; minimizing human impacts. Mitigation measures addressing Biological Resources, Cultural Resources and Hydrology/ Water Quality put in place during construction will reduce all potential environmental impacts to less than significant. (b) The net effect of this project is aquatic and avian habitat improvement. The project overlays the Lower Owen River Project and is consistent with that project's EIR/EIS. Channel clearing has been recommended as a water quality improvement measure by LORP biological consultants and County and LADWP staff biologists. No other projects are underway or under development that could result in cumulative environmental impacts in the project area. (c) The project provides recreation in a natural setting a distance away from the local population. Environmental effects from the project are nonexistent, less than significant, in regard to effects on human beings.

	ounty Water Department Maste	opecies List	Lower Owens River Floodp									t 27, 201
SPECIES			COMMON	SOURCE	Life	Provenan	ce Lifeform	Phreatophyte	Noxious	Toxic	Weedy	Rare or
CODE	SPECIES	FAMILY	NAME	CODE	Cycle						in OV	uncomm
Ferns an	d Fern Allies											
AZFI	Azolla filiculoides	Azollaceae	Pacific mosquito fern	5,7	Α	N	Herb	Yes				
QAR	Equisetum arvense	Equisetaceae	Field horsetail	7,8	P	N	Herb	Yes			Yes	
EQLA	Equisetum laevigatum	Equisetaceae	Smooth scouring rush	2,3,5,6,7	Р	N	Herb	Yes			103	
EQUIS	Equisetum sp.	Equisetaceae	Horsetail/ Scouring rush	1,4,6,8	Р	N	Herb	Yes			Yes	
MARSI	Marsilea sp.	Marsileaceae	Waterclover	4	P	N	Herb	Yes			Yes	
MAVE2	Marsilea vestita	Marsileaceae	Hairy waterclover	7	Р	N	Herb	Yes			Yes	
			,,	<u></u>								
Flowerin	g Plants											
Dicotyle	dons											
SEVE2	Sesuvium verrucosum	Aizoaceae	Sea purslane	1,2,4,5,7	Р	N	Herb	Yes				
AMBL	Amaranthus blitoides	Amaranthaceae	Prostrate amaranth	2	Α	E	Herb	Yes	Yes		Yes	
NIOC2	Nitrophila occidentalis	Amaranthaceae	Western miterwort	1,2,3,4,5,6,7,8	Р	N	Herb	Yes				
APGR2	Apium graveolens	Apiaceae	Celery	7	ABP	E	Herb	Yes				
BEER	Berula erecta	Apiaceae	Cutleaf water-parsnip	2,3,5,7	Р	N	Herb	Yes				
CIDO	Cicuta douglasii	Apiaceae	Western water hemlock	2,3,4,5,6,7	Р	N	Herb	Yes		Yes		
CIMA2	Cicuta maculata	Apiaceae	Spotted water hemlock	8	Р	N	Herb	Yes		Yes		
CONIU	Conium sp.	Apiaceae	Poison hemlock	7	В	E	Herb	Yes	Yes	Yes	Yes	
SISU2	Sium suave	Apiaceae	Water-parsnip, Hemlock	2,5,6,7	Р	N	Herb	Yes				
APCA	Apocynum cannabinum	Apocynaceae	Hemp dogbane	4,7,8	Р	N	Herb	Yes		Yes		
ASFA	Asclepias fascicularis	Apocynaceae	Narrow-leaf milkweed	2,3,4,7.8	Р	N	Herb	Yes		Yes		
ASCLE	Asclepias sp.	Apocynaceae	Milkweed	1,4,8	Р		Herb	Yes				
ASSP	Asclepias speciosa	Apocynaceae	Showy milkweed	2,3,4,5,6,7,8	Р	N	Herb	Yes		Yes		
ARCA51	Arida carnosa	Asteraceae	Shrubby alkali aster	1,2,3,4,7,8	Р	N	Shrub	Yes				
ARDO3	Artemisia douglasiana	Asteraceae	Douglas mugwort	4,7,8	Р	N	Herb	Yes				
ARDR4	Artemisia dracunculus	Asteraceae	Tarragon	2,4,7,8	Р	N	Herb	Yes				
BASA4	Baccharis salicifolia	Asteraceae	Mulefat /Water wally	4	Р	N	Shrub	Yes				
BICE	Bidens cernua	Asteraceae	Nodding bur-marigold	7	Α	N	Herb	Yes				
BICEC	Bidens cernua var. cernua	Asteraceae	Nodding bur-marigold	2	Α	N	Herb	Yes				
BIFR	Bidens frondosa	Asteraceae	Sticktight/Beggars tick	1,2,3,4,6,7	Α	N	Herb	Yes				
BIDEN	Bidens sp.	Asteraceae	Beggars tick	1	Α		Herb	Yes				
CIIN	Cichorium intybus	Asteraceae	Common chicory	1,4,6,7,8	Р	Е	Herb	Yes			Yes	
CIMO	Cirsium mohavense	Asteraceae	Mojave thistle	2,3,4,7,8	BP	N	Herb	Yes				
CIVU	Cirsium vulgare	Asteraceae	Bull thistle	2,3,4,6,7,8	В	Е	Herb	Yes	Yes	Yes	Yes	
CONYZ	Conyza sp.	Asteraceae	Horseweed	4	Α		Herb	Yes				
CRRU3	Crepis runcinata	Asteraceae	Fiddleleaf hawksbeard	0,8	Р	N	Herb	Yes				
CRRUH	Crepis runcinata ssp. hallii	Asteraceae	Hall's meadow hawksbeard	4	Р	N	Herb	Yes				Yes
CREPI	Crepis sp.	Asteraceae	Hawksbeard	4	ABP		Herb	Yes				
ERAL23	Ericameria albida	Asteraceae	White-flowered rabbitbrush	1,2,3,4,7	P	N	Shrub	Yes				Yes
RNAO	Ericameria nauseosa var. oreophila	Asteraceae	Rubber rabbitbrush	4,5,7	Р	N	Shrub	Yes				
ERCA20	•	Asteraceae	Canada horseweed	2,3,4,6,7,8	A	N	Herb	Yes			Yes	
ERLO	Erigeron lonchophyllus	Asteraceae	Shortray fleabane daisy	7	AB	N	Herb	Yes				
UOC4	Euthamia occidentalis	Asteraceae	Western goldenrod	2,3,5,6,7,8	P	N	Herb	Yes				
SNPA	Gnaphalium palustre	Asteraceae	Lowland cudweed	2,3,7	Α	N	Herb	Yes				
SRSQ	Grindelia squarrosa	Asteraceae	Curly-cup gumweed	4,5,8	В	E	Herb	No		Yes	Yes	
HEAN3	Helianthus annuus	Asteraceae	Annual sunflower	1,2,4,5,6,7,8	A	N	Herb	Yes			Yes	
IENU	Helianthus nuttallii	Asteraceae	Nuttall's sunflower	2,3,4,7	P	N	Herb	Yes			103	
			ractan 5 Salliowel	2,0,4,1			11010	1.03				

IVAX	Iva axillaris	Asteraceae	Poverty weed	1,2,3,4,6,7,8	P	N	Herb	Yes			Yes	
.ASE	Lactuca serriola	Asteraceae	Prickly lettuce	2,3,4,5,6,7,8	Α	E	Herb	Yes			Yes	
ACTU	Lactuca sp.	Asteraceae	Lettuce	4	AP		Herb	Yes			Yes	
ACO13	Laennecia coulteri	Asteraceae	Coulter's horseweed	2,4,6,7	Α	N	Herb	Yes			Yes	
LSE	Pluchea sericea	Asteraceae	Arrow weed	7	Р	N	Shrub	Yes				
PSLU6	Pseudognaphalium luteoalbum	Asteraceae	Jersey cudweed	3,4,5,7	Α	Ε	Herb	Yes			Yes	
PSST7	Pseudognaphalium stramineum	Asteraceae	Cotton-batting cudweed	2,6,7	AB	N	Herb	Yes				
PYRA	Pyrrocoma racemosa	Asteraceae	Gold-wand aster	1,2,3,4,7,8	Р	N	Herb	Yes				
PYRAS	Pyrrocoma racemosa var. sessiliflora	Asteraceae	Clustered gold-wand aster	5,6,7	Р	N	Herb	Yes				
EIN2	Senecio integerrimus	Asteraceae	Lambstongue ragwort	7	BP	N	Herb	Yes				
ESE2	Senecio serra	Asteraceae	Tall ragwort	7	Р	N	Herb	Yes				
SETR	Senecio triangularis	Asteraceae	Arrowleaf ragwort	1	Р	N	Herb	Yes				
OLID	Solidago sp.	Asteraceae	Goldenrod	1,4,7	Р		Herb	Yes				
OSP3	Solidago spectabilis	Asteraceae	Showy goldenrod	2,3,7	Р	N	Herb	Yes				
SOAS	Sonchus asper	Asteraceae	Prickly sow thistle	2,3,4,5,7	Α	Ε	Herb	Yes			Yes	
STPA4	Stephanomeria pauciflora	Asteraceae	Common wire-lettuce	1,2,4,7,8	Р	N	Shrub/He	rl No				
SYFR2	Symphyotrichum frondosum	Asteraceae	Leafy aster	2,3,7	Α	N	Herb	Yes				
SYLAH6	Symphyotrichum lanceolatum var. he		Siskiyou aster	1,6,7	Р	N	Herb	Yes				
(ANTH2	Xanthium sp.	Asteraceae	Cocklebur	1,4,6	A		Herb	Yes	Yes		Yes	
KAST	Xanthium strumarium	Asteraceae	Rough cocklebur	1,2,3,4,5,6,7,8	A	N	Herb	Yes	Yes		Yes	
HECU3	Heliotropium curassavicum	Boraginaceae	Salt heliotrope	1,2,3,4,5,6,7,8	P P	N	Herb	Yes	103		103	
HELIO3	Heliotropium sp.	Boraginaceae	Heliotrope	4	'	14	Herb	Yes				
IECA7	Hesperochiron californicus	Boraginaceae	California hesperochiron	2,4,7	Р	N	Herb	Yes				
IEPU6	Hesperochiron pumilus	Boraginaceae	Dwarf hesperochiron	4	P D	N	Herb	Yes				
ЛYSC	·	_	· ·	*	P P	E	Herb	Yes			Yes	
	Myosotis scorpioides	Boraginaceae	Common forget-me-not	4,7	•						res	
PLCU2	Plagiobothrys cusickii	Boraginaceae	Cusick's popcorn flower	2	A	N	Herb	Yes				Vaa
PLPA	Plagiobothrys parishii	Boraginaceae	Parish's popcornflower	2,5,7	A A	N	Herb	Yes				Yes
EDED.	Lepidium densiflorum var. densiflorum		Common pepperweed	*		N	Herb	Yes				
EDI2	Lepidium dictyotum	Brassicaceae	Alkali pepperweed	4	A P	N	Herb	Yes	V	V	V	
ELA2	Lepidium latifolium	Brassicaceae	Perennial pepperweed	1,4,6,7,8	•	E	Herb	Yes	Yes	Yes	Yes	
NAOF	Nasturtium officinale	Brassicaceae	Water cress	2,4,5,7	Р	N	Herb	Yes				
ROPAP	Rorippa palustris var. palustris	Brassicaceae	Western bog yellow cress	2,3	ABP	N	Herb	Yes				
ROSI2	Rorippa sinuata	Brassicaceae	Spreading yellow cress	2,4,8	Р	N	Herb	Yes				
THCR	Thelypodium crispum	Brassicaceae	Crisped thelypody	2,4,7	AB	N	Herb	Yes				
THIN	Thelypodium integrifolium	Brassicaceae	Tall thelypodium	7	В	N	Herb	Yes				
HINA	Thelypodium integrifolium ssp. affine		White tall thelypodium	2,4,5,7	В	N	Herb	Yes				
THINC	Thelypodium integrifolium ssp. compl	& Brassicaceae	Purple tall thelypodium	8	В	N	Herb	Yes				
HELY	Thelypodium sp.	Brassicaceae	Thelypody	4		N	Herb	Yes				
CERE2	Celtis reticulata	Cannabaceae	Western hackberry	2	Р	N	Shrub	Yes				Yes
SPMA2	Spergularia marina	Caryophyllaceae	Sand spurrey	2	Α	N	Herb	Yes				
STLO2	Stellaria longipes	Caryophyllaceae	Longstalk starwort	7	Р	N	Herb	Yes				
CEDE4	Ceratophyllum demersum	Ceratophyllaceae	Coon's tail	2,7	Р	N	Herb	Yes				
ALOC2	Allenrolfea occidentalis	Chenopodiaceae	lodine bush	1,2,3,4,5,6,7,8	Р	N	Shrub	Yes				
T.DE0	Atriplex argentea var. expansa	Chenopodiaceae	Mohave silverscale	2	Α	N	Herb	Yes				
ATARE2	, , , , , , , , , , , , , , , , , , , ,				Α	N	Herb	Yes				
	Atriplex covillei	Chenopodiaceae	Arrowscale	2,3,4,5,6,7,8								
ATCO12		Chenopodiaceae Chenopodiaceae	Arrowscale Parry's saltbush	2,3,4,5,6,7,8 1,2,3,4,7,8	P	N	Shrub	Yes				
ATCO12 ATPA3	Atriplex covillei	•				N E	Shrub Herb					
ATCO12 ATPA3 ATPR	Atriplex covillei Atriplex parryi	Chenopodiaceae	Parry's saltbush	1,2,3,4,7,8	Р			Yes			Yes	
ATCO12 ATPA3 ATPR ATSE2	Atriplex covillei Atriplex parryi Atriplex prostrata	Chenopodiaceae Chenopodiaceae	Parry's saltbush Spearscale	1,2,3,4,7,8 1,2,3,4,5	P A	Е	Herb	Yes Yes			Yes	
ATCO12 ATPA3 ATPR ATSE2 ATTO	Atriplex covillei Atriplex parryi Atriplex prostrata Atriplex serenana	Chenopodiaceae Chenopodiaceae Chenopodiaceae	Parry's saltbush Spearscale Bractscale	1,2,3,4,7,8 1,2,3,4,5 2,4,7,8 1,2,3,4,5,6,8	P A A	E N	Herb Herb	Yes Yes Yes			Yes	
ATCO12 ATPA3 ATPR ATSE2 ATTO ATTR	Atriplex covillei Atriplex parryi Atriplex prostrata Atriplex serenana Atriplex torreyi Atriplex truncata	Chenopodiaceae Chenopodiaceae Chenopodiaceae Chenopodiaceae Chenopodiaceae	Parry's saltbush Spearscale Bractscale Torrey's saltbush Wedgescale	1,2,3,4,7,8 1,2,3,4,5 2,4,7,8 1,2,3,4,5,6,8 2,3,4,7,8	P A A P	E N N	Herb Herb Shrub	Yes Yes Yes Yes	Yes		Yes	
ATARE2 ATCO12 ATPA3 ATPR ATSE2 ATTO ATTR BAHY CHGL3	Atriplex covillei Atriplex parryi Atriplex prostrata Atriplex serenana Atriplex torreyi	Chenopodiaceae Chenopodiaceae Chenopodiaceae Chenopodiaceae	Parry's saltbush Spearscale Bractscale Torrey's saltbush	1,2,3,4,7,8 1,2,3,4,5 2,4,7,8 1,2,3,4,5,6,8	P A A P A	E N N	Herb Herb Shrub Herb	Yes Yes Yes Yes	Yes			

MAO	Kochia americana	Chenopodiaceae	Green molly	1,2,4,6	Р	N	Shrub	Yes				
10NU	Monolepis nuttalliana	Chenopodiaceae	Nuttall's poverty weed	2,3	Α	N	Herb	Yes				
ATR12	Salsola tragus	Chenopodiaceae	Tumbleweed/Russian-thistle	1,3,4,8	Α	E	Herb	No	Yes		Yes	
JCA2	Suaeda calceoliformis	Chenopodiaceae	Low inkweed/Horned sea-blite	5	Α	N	Herb	Yes				
UNI	Suaeda nigra	Chenopodiaceae	Bush inkweed	1,2,3,4,5,6,7,8	Р	N	Shrub	Yes				
UAED	Suaeda sp.	Chenopodiaceae	Seepwed	1	Р	N	Shrub/He	erl Yes				
LEOM	Cleome sp.	Cleomaceae	Bee plant/Spiderflower	4	Α		Herb	Yes			Yes	
LBR2	Cleomella brevipes	Cleomaceae	Little stinkweed	2,3,4,7	Α	N	Herb	Yes				
LPA4	Cleomella parviflora	Cleomaceae	Slender cleomella	2,3,4,5,7,8	Α	N	Herb	Yes				
LPL2	Cleomella plocasperma	Cleomaceae	Twisted cleomella	1,2,3,4,8	Α	N	Herb	Yes				
LEOM2	Cleomella sp.	Cleomaceae	Cleomella/Stinkweed	1,4,8	Α	N	Herb	Yes				
ELU5	Peritoma lutea	Cleomaceae	Yellow bee plant	1,2,4,5,6,7,8	Α	N	Herb	Yes			Yes	
RTR5	Cressa truxillensis	Convolvulaceae	Spreading alkali weed	2,4,5,6,7	Р	N	Herb	Yes				
AGL2	Datisca glomerata	Datiscaceae	Durango root	2,4,7	Р	N	Herb	Yes		Yes	Yes	
AN	Elaeagnus angustifolia	Elaeagnaceae	Russian olive	1,2,3,4,5,7,8	P	E	Shrub	Yes			Yes	
SAR4	Astragalus argophyllus	Fabaceae	Silverleaf milkvetch	4	P	N	Herb	Yes				Yes
SARA	Astragalus argophyllus var. argophyll		Silverleaf milkvetch	4,3	P P	N	Herb	Yes				Yes
LLE3	Glycyrrhiza lepidota	Fabaceae	American licorice	1,2,4,6,7,8	P	N	Herb	Yes			Yes	103
OOB2	Hosackia oblongifolia	Fabaceae	Streambank bird's-foot trefoil	7	D D	N	Herb	Yes			103	
00B02	Hosackia obiongifolia var. oblongifolia		Streambank bird's-foot trefoil	2,5	r D	N	Herb	Yes				
00B02	_		Birdsfoot trefoil		P D	E	Herb	Yes			Yes	
	Lotus corniculatus	Fabaceae	Black medick	1,2,4,5,6,7,8	•	E	Herb	Yes			Yes	
IELU	Medicago Iupulina	Fabaceae		5,6,7	A						res	
ESA	Medicago sativa	Fabaceae	Alfalfa	1,2,4,6,8	AP	E	Herb	Yes				
EDIC	Medicago sp.	Fabaceae	Burclover/Alfalfa	0		E	Herb	Yes			.,	
IEAL2	Melilotus albus	Fabaceae	White sweetclover	1	Α	E	Herb	Yes			Yes	
EIN2	Melilotus indicus	Fabaceae	Annual yellow sweetclover	7	Α	E	Herb	Yes				
RPU	Prosopis pubescens	Fabaceae	Screw-bean mesquite	2,4,7	Р	N	Shrub	Yes				
OPS	Robinia pseudoacacia	Fabaceae	Black locust	1,2,3,4,6,7,8	Р	E	Shrub	Yes		Yes	Yes	
OBIN	Robinia sp.	Fabaceae	Locust	4	Р	E	Shrub	Yes		Yes	Yes	
RFR2	Trifolium fragiferum	Fabaceae	Strawberry clover	5,6,7	Р	E	Herb	Yes			Yes	
RVA	Trifolium variegatum	Fabaceae	White-tipped clover	2,7	Α	N	Herb	Yes				
RWO	Trifolium wormskioldii	Fabaceae	Cows clover	2,3,4,5,6,7	Р	N	Herb	Yes				
RSA	Frankenia salina	Frankeniaceae	Alkali heath	2,4,7,8	Р	N	Shrub	Yes				
ENTA2	Centaurium sp.	Gentianaceae	Centaury	4	Α		Herb	Yes				
EEX	Zeltnera exaltata	Gentianaceae	Exalted centaury	1,2,3,4,5,6,7,8	Α	N	Herb	Yes				
JHI	Juglans hindsii	Juglanaceae	Northern California black walnut	7	Р	E	Shrub	Yes				
/AM	Lycopus americanus	Lamiaceae	American water horehound	7	Р	N	Herb	Yes				
/AS	Lycopus asper	Lamiaceae	Rough bugleweed	3,5,7	Р	N	Herb	Yes				
IAVU	Marrubium vulgare	Lamiaceae	Horehound	2,4,7	Р	Ε	Herb	Yes			Yes	
IEAR4	Mentha arvensis	Lamiaceae	Wild mint	1,2,3,4,5,6,7,8	Р	N	Herb	Yes				
IENTH	Mentha sp.	Lamiaceae	Mint	1,4,6	Р		Herb	Yes				
IESP3	Mentha spicata	Lamiaceae	Spearmint	7,8	Р	Ε	Herb	Yes				
1EPI	Mentha x piperita	Lamiaceae	Peppermint	7	Р	Е	Herb	Yes				
TAL	Stachys albens	Lamiaceae	Whitestem hedgenettle	4, 7	P	N	Herb	Yes				
TMA	Utricularia macrorhiza	Lentibulariaceae	Common bladderwort	7	<u>.</u> Р	N	Herb	Yes				
ALE3	Malvella leprosa	Malvaceae	Alkali mallow	2,4,5,7,8	<u>.</u> Р	N	Herb	Yes	Yes	Yes		
ALVE	Malvella sp.	Malvaceae	Mallow	2,4,5,7,6	P	. •	Herb	Yes	103	103		
DA	Sida sp.	Malvaceae	Fanpetals	0			Herb	Yes				
	Sida sp. Sidalcea covillei	Malvaceae	Owens Valley checkerbloom		P	N	Herb	Yes				Yes
	Forestiera pubescens	Oleaceae	Desert olive	1,2,4,7,8	<u>Р</u>	N N	Shrub	Yes				168
CO2		Ulcalcac	DESCIT OUNE	1,2,4,5,6,7	r	IN		162				
DPU2	•		Decert alive		D	N 1	Chrh	Voc				
	Forestiera pubescens var. pubescens Epilobium ciliatum		Desert olive Hairy willow herb	2,3,5,7	P P	N N	Shrub Herb	Yes				

EPILO	Epilobium sp.	Onagraceae	Willowherb	4,8		N	Herb	Yes				
LUPA	Ludwigia palustris	Onagraceae	Marsh seedbox	7	Р	N	Herb	Yes				
LUPE5	Ludwigia peploides	Onagraceae	Water primrose	2,4,7	P	E	Herb	Yes				
OEEL	Oenothera elata	Onagraceae	Tall yellow evening primrose	7	BP	N	Herb	Yes				
OEELH		•	,		BP	N						
	Oenothera elata ssp. hirsutissima	Onagraceae	Tall yellow evening primrose	2,6,7			Herb	Yes				
OEELH2	Oenothera elata ssp. hookeri	Onagraceae	Hooker's evening-primrose	2,4,6	BP	N	Herb	Yes				
OELO	Oenothera longissima	Onagraceae	Longstem evening primrose	5	В	N	Herb	Yes				
OEVIS	Oenothera villosa ssp. strigosa	Onagraceae	Hairy evening primrose	7	В	N	Herb	Yes				
CAMI12	Castilleja miniata	Orobanchaceae	Creekside Indian paintbrush	7	P	N	Herb	Yes				
CAMI13	Castilleja minor	Orobanchaceae	Small-flowered Indian paintbrush	3,5,7	Α	N	Herb	Yes				
CAMIM6	Castilleja minor ssp. minor	Orobanchaceae	Lesser Indian paintbrush	4,7	Α	N	Herb	Yes				
CHMA20	Chloropyron maritimum	Orobanchaceae	Saltmarsh bird's-beak	7	Α	N	Herb	Yes				
CHMAC	Chloropyron maritimum ssp. canesc		Alkali bird's-beak	1,2,3,4,5,6,8	A	N	Herb	Yes				
oxco	Oxalis corniculata	Oxalidaceae	Creeping sour clover	1,4,5,8	AP	Ε	Herb	Yes			Yes	
OXALI	Oxalis sp.	Oxalidaceae	Sorrel, Sour clover	4	AP	E	Herb	Yes			Yes	
MIGU	Mimulus guttatus	Phrymaceae	Common monkeyflower	2,3,4,5,7	AP	N	Herb	Yes				
MIPI8	Mimulus pilosus	Phrymaceae	Hairy monkeyflower	2,4,7	Α	N	Herb	Yes				
MISU2	Mimulus suksdorfii	Phrymaceae	Suksdorf miniature monkeyflower	4	Α	N	Herb	Yes				
CAHE3	Callitriche heterophylla	Plantaginaceae	Larger water-starwort	2,7	Α	N	Herb	Yes				
PLLA	Plantago lanceolata	Plantaginaceae	English plantain	1,2,4,5,6,7	Р	Ε	Herb	Yes	Yes		Yes	
PLMA2	Plantago major	Plantaginaceae	Broadleaf plantain	1,2,3,4,5,6,7,8	Р	Ε	Herb	Yes			Yes	
VEAM2	Veronica americana	Plantaginaceae	American brooklime	2,7	Р	N	Herb	Yes				
VEAN2	Veronica anagallis-aquatica	Plantaginaceae	Water speedwell	2,4,7	BP	Е	Herb	Yes				
VEPE2	Veronica peregrina	Plantaginaceae	Neckweed	7	A	N	Herb	Yes				
VEPEX2	Veronica peregrina ssp. xalapensis	Plantaginaceae	Purslane-speedwell	2	Α	N	Herb	Yes				
BIBI5	Bistorta bistortoides	Polygonaceae	American bistort	6	P	N	Herb	Yes				
GOLU	Goodmania luteola	Polygonaceae	Yellow spinecape	3,4,7	A	N	Herb	Yes				Yes
PEAM8	Persicaria amphibia	Polygonaceae	Longroot smartweed	7	P	N	Herb	Yes				163
PEHY6	Persicaria hydropiper	Polygonaceae	Marshpepper	2,7	Р	E	Herb	Yes				
PELA22	Persicaria lapathifolia	Polygonaceae	Curlytop knotweed	2,6,7	A	N	Herb	Yes	Yes			
PEMA24	Persicaria maculosa	Polygonaceae	Peach-leafed lady's thumb	2,3,4,6,7	A	E	Herb	Yes	Yes		Yes	
POAVD	Polygonum aviculare ssp. depressur		Common knotweed	2,4,5,6,7	A	E	Herb	Yes	163		Yes	
PODO4	Polygonum douglasii	, •	Douglas' knotweed	2,4,5,6,7	A	N	Herb	No			165	
		Polygonaceae	•		P	E						
POSA23	Polygonum salicifolium	Polygonaceae	Willow-leafed knotweed	7	P		Herb	Yes			V	
RUCA	Rumex californicus	Polygonaceae	Toothed willow dock	4	=	N	Herb	Yes		Yes	Yes	
RUCO2	Rumex conglomeratus	Polygonaceae	Clustered dock	2,7	P -	E	Herb	Yes		Yes		
RUCR	Rumex crispus	Polygonaceae	Curly dock	1,2,3,4,5,6,7,8	Р	E	Herb	Yes	Yes	Yes	Yes	
RUFU3	Rumex fueginus	Polygonaceae	Golden dock	2,3	AB	N	Herb	Yes		Yes		
RUSA	Rumex salicifolius	Polygonaceae	Willow dock	4,7	Р	N	Herb	Yes		Yes	Yes	
RUMEX	Rumex sp.	Polygonaceae	Dock/Sorrel	4,8			Herb	Yes		Yes	Yes	
RUVI	Rumex violascens	Polygonaceae	Violet dock	6	AB	N	Herb	Yes		Yes		
POOL	Portulaca oleracea	Portulacaceae	Common purslane	2,4,7	Α	E	Herb	Yes			Yes	
AQFO	Aquilegia formosa	Ranunculaceae	Western Columbine	4,7	Р	N	Herb	Yes				
CLLI2	Clematis ligusticifolia	Ranunculaceae	Virgin's bower	1,2,4,7	Р	N	Shrub	Yes				
RAAQ	Ranunculus aquatilis	Ranunculaceae	White water buttercup	4,7	Р	N	Herb	Yes				
RAAQD	Ranunculus aquatilis var. diffusus	Ranunculaceae	Thread-leaf water buttercup	2,3,4,5	Р	N	Herb	Yes				
RACY	Ranunculus cymbalaria	Ranunculaceae	Alkali buttercup	2,3,4,5,7	Р	N	Herb	Yes				
RAHY	Ranunculus hydrocharoides	Ranunculaceae	Frog's-bit buttercup	2,4,7	Р	N	Herb	Yes				Yes
IVKI	Ivesia kingii	Rosaceae	Alkali mousetail	1,4,3	Р	N	Herb	Yes				Yes
IVKIK2	lvesia kingii var. kingii	Rosaceae	Alkali mousetail	1,4,3	Р	N	Herb	Yes				Yes
POBI7	Potentilla biennis	Rosaceae	Biennial cinquefoil	2,4, 5	AB	N	Herb	Yes				
POGR9	Potentilla gracilis	Rosaceae	Slender cinquefoil	7	Р	N	Herb	Yes				
POGRE	Potentilla gracilis var. elmeri	Rosaceae	Alkali cinquefoil	2,4,7	Р	N	Herb	Yes				
	-		•									

POGRF	Potentilla gracilis var. flabelliformis	Decades	Slender cinquefoil		D	N	Horb	Voc				
	Rosa sp.	Rosaceae	'	2	P P	IN	Herb Shrub	Yes				
ROSA5	•	Rosaceae	Rose	4,7	P	N.		Yes				
ROWO	Rosa woodsii	Rosaceae	Wood's rose	1,2,3,4,6,7,8	P	N N	Shrub Shrub	Yes				
ROWOU	Rosa woodsii var. ultramontana	Rosaceae	Intermountain rose	1,2,3,4,5,6,8	P D			Yes				
POFR2	Populus fremontii	Salicaceae	Fremont's cottonwood/Alamo	1,2,3,4,5,6,7,8		N	Shrub	Yes				
POFRX?	Populus fremontii x (hybrid)	Salicaceae	Cottonwood hybrid	7	P		Shrub	Yes				
POFRN?	Populus fremontii x nigra?	Salicaceae	Cottonwood hybrid	7	P		Shrub	Yes				
POPUL	Populus sp.	Salicaceae	Cottonwood/Poplar	4	Р		Shrub	Yes				
POTR5	Populus tremuloides	Salicaceae	Quaking aspen	7,8	Р	N	Shrub	Yes				
SAEX	Salix exigua	Salicaceae	Coyote willow/Narrow-leaf willow	2,3,4,5,6,7,8	Р	N	Shrub	Yes				
SAGO	Salix gooddingii	Salicaceae	Goodding's black willow	4,6,7,8	Р	N	Shrub	Yes				
SALA3	Salix laevigata	Salicaceae	Red willow	1,2,3,4,5,6,7,8	Р	N	Shrub	Yes				
SALA6	Salix lasiolepis	Salicaceae	Arroyo willow	0,4,7,8	Р	N	Shrub	Yes				
SAVE4	Sarcobatus vermiculatus	Sarcobataceae	Greasewood	1,2,3,4,5,6,7,8	Р	N	Shrub	Yes				
ANCA10	Anemopsis californica	Saururaceae	Yerba mansa	1,2,3,4,5,6,7,8	Р	N	Herb	Yes				
NIAT	Nicotiana attenuata	Solanaceae	Coyote tobacco	1,2,4,6,7,8	Α	N	Herb	Yes				
SOAM	Solanum americanum	Solanaceae	American black nightshade	4,7	Α	N	Herb	Yes		Yes		
TACH2	Tamarix chinensis	Tamaricaceae	Five-stamen tamarisk	8	Р	Е	Shrub	Yes	Yes		Yes	
TAPA4	Tamarix parviflora	Tamaricaceae	Four-petaled tamarisk	1,2,4	Р	Ε	Shrub	Yes	Yes		Yes	
TARA	Tamarix ramosissima	Tamaricaceae	Saltcedar	1,2,3,4,5,6,7,8	P	E	Shrub	Yes	Yes		Yes	
TAMAR2	Tamarix sp.	Tamaricaceae	Tamarisk/Salt Cedar	8	P	E	Shrub	Yes	Yes		Yes	
URDI	Urtica dioica	Urticaceae	Stinging nettle	4,7,8	<u>.</u> Р	N	Herb	Yes	103		103	
URDIH	Urtica dioica ssp. holosericea	Urticaceae	Stinging nettle	2,4,5,6,7	P	N	Herb	Yes				
URTIC	Urtica sp.	Urticaceae	Stinging nettle	3,4	P P	IN	Herb	Yes				
VEBR	Verbena bracteata	Verbenaceae	Bigbract verbena	4,8	AB	N	Herb	Yes				
VEBR			•	-	AP	N						
	Viola nephrophylla	Violaceae	Northern bog violet	2,7			Herb	Yes				
VISO PARTH3	Viola sororia	Violaceae	Common blue violet	7	AP P	N	Herb	Yes				
	Parthenocissus sp.	Vitaceae	Virginia creeper/Woodbine	1	P P		Shrub	Yes			Yes	
PAVI5	Parthenocissus vitacea	Vitaceae	Woodbine	5,7	Р	N	Shrub	Yes			Yes	
Monocoli	•				_			.,				
SALA2	Sagittaria latifolia	Alismataceae	Broadleaf arrowhead	4,2,7	P	N	Herb	Yes				
LEGI	Lemna gibba	Araceae	Inflated duckweed	5,7	Р	N	Herb	Yes				
LEMI3	Lemna minor	Araceae	Common duckweed	2,3,5,7	Р	N	Herb	Yes				
LEMI6	Lemna minuta	Araceae	Least duckweed	2,3,5	Р	N	Herb	Yes				
LEMNA	Lemna sp.	Araceae	Duckweed	1,6,7,8	Р	N	Herb	Yes				
LEVA	Lemna valdiviana	Araceae	Valdivia duckweed	2	Р	N	Herb	Yes				
SPPO	Spirodela polyrrhiza	Araceae	Greater duckweed	2,3,5	Р	N	Herb	Yes				
ASOF	Asparagus officinalis	Aspargaceae	Garden asparagus	1,2,4,6,7,8	Р	E	Herb	Yes				
ASPAR	Asparagus sp.	Aspargaceae	Asparagus	1	Р	Ε	Herb	Yes				
AMNE3	Amphiscirpus nevadensis	Cyperaceae	Nevada bulrush	1,2,3,4,7	Р	N	Grass	Yes				
BORO5	Bolboschoenus robustus	Cyperaceae	Sturdy bulrush	7	Р	N	Grass	Yes				
CAAT3	Carex athrostachya	Cyperaceae	Slenderbeak sedge	6	Р	N	Grass	Yes				
CAAU3	Carex aurea	Cyperaceae	Golden sedge	7	Р	N	Grass	Yes				
044150												
CANE2	Carex nebrascensis		•		Р	N	Grass	Yes				
	Carex nebrascensis	Cyperaceae	Nebraska sedge	1,2,5,6,7,8	P P			Yes Yes				
CANE2 CAPE42 CAPR5	Carex nebrascensis Carex pellita	Cyperaceae Cyperaceae	Nebraska sedge Wooly sedge	1,2,5,6,7,8 2,3,6,7	P P P	N N N	Grass Grass Grass	Yes				
CAPE42 CAPR5	Carex nebrascensis Carex pellita Carex praegracilis	Cyperaceae Cyperaceae Cyperaceae	Nebraska sedge Wooly sedge Clustered field sedge	1,2,5,6,7,8 2,3,6,7 1,2,3,4,5,7,8	P P P	N N	Grass Grass	Yes Yes				
CAPE42 CAPR5 CASI2	Carex nebrascensis Carex pellita Carex praegracilis Carex simulata	Cyperaceae Cyperaceae Cyperaceae Cyperaceae	Nebraska sedge Wooly sedge Clustered field sedge Alalogne sedge	1,2,5,6,7,8 2,3,6,7 1,2,3,4,5,7,8 1,6,7	P P P P	N N N	Grass Grass Grass	Yes Yes Yes	Yes			
CAPE42 CAPR5 CASI2 CYES	Carex nebrascensis Carex pellita Carex praegracilis Carex simulata Cyperus esculentus	Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae	Nebraska sedge Wooly sedge Clustered field sedge Alalogne sedge Taboose/Yellow nutgrass	1,2,5,6,7,8 2,3,6,7 1,2,3,4,5,7,8 1,6,7	P P P P	N N N	Grass Grass Grass Grass	Yes Yes Yes Yes	Yes			
CAPE42 CAPR5 CASI2 CYES CYLA2	Carex nebrascensis Carex pellita Carex praegracilis Carex simulata Cyperus esculentus Cyperus laevigatus	Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae	Nebraska sedge Wooly sedge Clustered field sedge Alalogne sedge Taboose/Yellow nutgrass Smooth flatsedge	1,2,5,6,7,8 2,3,6,7 1,2,3,4,5,7,8 1,6,7 1	P P P P P	N N N N	Grass Grass Grass Grass Grass	Yes Yes Yes Yes	Yes			
CAPE42 CAPR5 CASI2 CYES CYLA2 CYNI2	Carex nebrascensis Carex pellita Carex praegracilis Carex simulata Cyperus esculentus Cyperus laevigatus Cyperus niger	Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae	Nebraska sedge Wooly sedge Clustered field sedge Alalogne sedge Taboose/Yellow nutgrass Smooth flatsedge Black flatsedge	1,2,5,6,7,8 2,3,6,7 1,2,3,4,5,7,8 1,6,7 1	P P P P P	N N N N N	Grass Grass Grass Grass Grass	Yes Yes Yes Yes Yes	Yes			
CAPE42 CAPR5 CASI2 CYES CYLA2	Carex nebrascensis Carex pellita Carex praegracilis Carex simulata Cyperus esculentus Cyperus laevigatus	Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae Cyperaceae	Nebraska sedge Wooly sedge Clustered field sedge Alalogne sedge Taboose/Yellow nutgrass Smooth flatsedge	1,2,5,6,7,8 2,3,6,7 1,2,3,4,5,7,8 1,6,7 1	P P P P P A P	N N N N	Grass Grass Grass Grass Grass	Yes Yes Yes Yes	Yes			

ELPA3	Eleocharis palustris	Cyperaceae	Common spikerush	1,3,4,5,6,7,8	Р	N	Grass	Yes				
ELPA4	Eleocharis parishii	Cyperaceae	Parish spikerush	1,2,3,4,5,6,7	Р	N	Grass	Yes				
ELRO2	Eleocharis rostellata	Cyperaceae	Walking spikerush	2,3,5,7	Р	N	Grass	Yes				
ELEOC	Eleocharis sp.	Cyperaceae	Spikerush	1,4,6,7,8			Grass	Yes				
FITH	Fimbristylis thermalis	Cyperaceae	Hot springs fimbristylis	7	Р	N	Grass	Yes				Yes
LIMI12	Lipocarpha micrantha	Cyperaceae	Smallflower halfchaff sedge	7	Α	N	Grass	Yes				
LIOC3	Lipocarpha occidentalis	Cyperaceae	Western halfchaff sedge	7	Α	N	Grass	Yes				
SCAC3	Schoenoplectus acutus	Cyperaceae	Hardstem bulrush	4,7	Р	N	Grass	Yes				
SCACO2	Schoenoplectus acutus var. occidenta	Cyperaceae	Common tule	1,2,3,5,6,8	Р	N	Grass	Yes				
SCAM6	Schoenoplectus americanus	Cyperaceae	Concave threesquare	1,2,3,4,5,6,7,8	Р	N	Grass	Yes				
SCPU10	Schoenoplectus pungens	Cyperaceae	Common threesquare	3,4,5,7	Р	N	Grass	Yes				
SCPUL4	Schoenoplectus pungens var. longisp	Cyperaceae	Western common threesquare	3,4,5,7	Р	N	Grass	Yes				
SCPUP5	Schoenoplectus pungens var. punger	**	Eastern common threesquare	3,4,5,7	P	N	Grass	Yes				
SCHOE6	Schoenoplectus sp.	Cyperaceae	Blurush	8	P	N	Grass	Yes				
SCMA	Scirpus maritimus	Cyperaceae	Saltmarsh bulrush	1,2,3,4,5,7	P	N	Grass	Yes				
SCMI2	Scirpus microcarpus	Cyperaceae	Panicled bulrush		P	N	Grass	Yes				
		* *		1,2,4,6,7	r							
SCIRP	Scirpus sp.	Cyperaceae	Bulrush/Tule	4,8	P	N	Grass	Yes				
ELCA7	Elodea canadensis	Hydrocharitaceae	Common waterweed	3,5,7	•	N	Herb	Yes	.,			
IRMI	Iris missouriensis	Iridaceae	Western iris	1,2,3,4,6,7,8	Р	N	Herb	Yes	Yes			
SIHA2	Sisyrinchium halophilum	Iridaceae	Nevada blue-eyed grass	1,2,3,4,7	Р	N	Herb	Yes				Yes
JUBA	Juncus balticus	Juncaceae	Baltic rush	1,2,3,4,5,6,7,8	Р	N	Grass	Yes				
JUBU	Juncus bufonius	Juncaceae	Toad rush	2,7	Α	N	Grass	Yes				
JUEN	Juncus ensifolius	Juncaceae	Swordleaf rush	1,4,7	Р	N	Grass	Yes				
JUMA2	Juncus macrandrus	Juncaceae	Longanther rush	2,6	Р	N	Grass	Yes				
JUME4	Juncus mexicanus	Juncaceae	Mexican rush	2,7	Р	N	Grass	Yes				
JUNE	Juncus nevadensis	Juncaceae	Sierra rush	7	Р	N	Grass	Yes				
JUOR	Juncus orthophyllus	Juncaceae	Straightleaf rush	1,6,7	Р	N	Grass	Yes				
JUOX	Juncus oxymeris	Juncaceae	Pointed rush	2	Р	N	Grass	Yes				
JURU	Juncus rugulosus	Juncaceae	Wrinkled rush	2,7	Р	N	Grass	Yes				
JUTO	Juncus torreyi	Juncaceae	Torrey's rush	1,2,3,7	Р	N	Grass	Yes				
JUXI	Juncus xiphioides	Juncaceae	Iris-leaved rush	2,7	P	N	Grass	Yes				
TRCO19	Triglochin concinna	Juncaginaceae	Slender arrowgrass	4,7	<u>.</u> Р	N	Grass	Yes				
TRCOD	Triglochin concinna var. debilis	Juncaginaceae	Weak arrowgrass	1,3,4,7	Р	N	Grass	Yes				
TRMA20	Triglochin maritimum	Juncaginaceae	Seaside arrowgrass	0	P	N	Grass	Yes				
TOVE2	Toxicoscordion venenosum	Melanthiaceae	Meadow death camas		P	N	Herb	Yes				
EPGI				2,3,4,7	P	N	Herb	Yes				
	Epipactis gigantea	Orchidaceae	Stream orchid	2,3,4,5,7	P P							
PLDIL	Platanthera dilatata var. leucostachys		White-flowered bog orchid	4	•	N	Herb	Yes				
PLSP2	Platanthera sparsiflora	Orchidaceae	Sparse-flowered bog orchid	2	P	N	Herb	Yes				
AGEX	Agrostis exarata	Poaceae	Spike bentgrass	7	Р	N	Grass	Yes				
AGSC5	Agrostis scabra	Poaceae	Rough bentgrass	7	Р	N	Grass	Yes				
AGROS2	Agrostis sp.	Poaceae	Bentgrass	1	Р		Grass	Yes				
AGST2	Agrostis stolonifera	Poaceae	Creeping bentgrass	1,7	Р	Ε	Grass	Yes			Yes	
CYDA	Cynodon dactylon	Poaceae	Bermudagrass	1,2,3,4,5,6,7,8	Р	E	Grass	Yes	Yes	Yes	Yes	
DAGL	Dactylis glomerata	Poaceae	Orchardgrass	1,4,6	Р	E	Grass	Yes			Yes	
DACA3	Danthonia californica	Poaceae	California oatgrass	7	Р	N	Grass	Yes				
DECE	Deschampsia cespitosa	Poaceae	Tufted hairgrass	7	Р	N	Grass	Yes				
DEDA	Deschampsia danthonioides	Poaceae	Annual hairgrass	7	Α	N	Grass	Yes				
DISP	Distichlis spicata	Poaceae	Saltgrass	1,2,3,4,5,6,7,8	Р	N	Grass	Yes				
ECCR	Echinochloa crus-galli	Poaceae	Barnyardgrass	1,2,4,6,7	Α	E	Grass	Yes			Yes	
ELCI	Elymus cinereus	Poaceae	Great Basin wildrye	1,2,3,4,6,7,8	P	N	Grass	Yes				
ELTR	Elymus tritocoides	Poaceae	Beardless/Creeping wildrye	1,2,3,4,5,6,7,8	P	N	Grass	Yes				
ERMEV	•	Poaceae	Green mexican lovegrass	1,4	A	N	Grass	Yes				
FEAR3	Festuca arundinacea	Poaceae	Tall fescue		A P	E E	Grass	Yes			Yes	
FEARS	restuca atunumatea	ruaceae	ran rescue	1,5,6,7	۲	С	GIASS	162			162	

FEPE	Festuca perennis	Poaceae	Perennial ryegrass	4,7,8	AP	Ε	Grass	Yes	Yes	
GLST	Glyceria striata	Poaceae	Fowl mannagrass	7	Р	N	Grass	Yes		
HOLA	Holcus lanatus	Poaceae	Velvetgrass	1,2,4,6,7	Р	Ε	Grass	Yes	Yes	
HOBR2	Hordeum brachyantherum	Poaceae	Meadow barley	6,7,8	Р	N	Grass	Yes		
HOJU	Hordeum jubatum	Poaceae	Foxtail barley	1,2,3,4,5,6,7,8	Α	N	Grass	Yes		
LEOR	Leersia oryzoides	Poaceae	Rice cutgrass	7	Р	N	Grass	Yes		
LEFUF	Leptochloa fusca ssp. fascicularis	Poaceae	Bearded sprangletop	1,2,4,7	Α	N	Grass	Yes		
MUAS	Muhlenbergia asperifolia	Poaceae	Alkali muhly/scratchgrass	1,2,3,4,6,7,8	Р	N	Grass	Yes		
MUFI2	Muhlenbergia filiformis	Poaceae	Pullup muhly	7	Α	N	Grass	Yes		
MUMI2	Muhlenbergia minutissima	Poaceae	Annual muhly	7	Α	N	Grass	Yes		
MURA	Muhlenbergia racemosa	Poaceae	Marsh muhly	1	Р	Е	Grass	Yes		
MURI	Muhlenbergia richardsonis	Poaceae	Mat muhly	1,7	Р	N	Grass	Yes		
MURI2	Muhlenbergia rigens	Poaceae	Deer grass	1	P	N	Grass	Yes		
MUHLE	Muhlenbergia sp.	Poaceae	Muhly	1	AP		Grass	Yes		
PAAC5	Panicum acuminatum	Poaceae	Tapered rosette grass	7	Р	N	Grass	Yes		
PACA6	Panicum capillare	Poaceae	Witchgrass	1,3,4,6,7,8	A	N	Grass	Yes		
PADI	Panicum dichotomiflorum	Poaceae	Fall panicgrass	1	Α	E	Grass	Yes		
PADI6	Paspalum distichum	Poaceae	Knotgrass	1,2,3,4,6,7,8	P	N	Grass	Yes		
PHAR3	Phalaris arundinacea	Poaceae	Reed canarygrass	1,6,7	P	N	Grass	Yes		
PHAU7	Phragmites australis	Poaceae	Common reed	1,2,3,4,5,6,7,8	P P	N	Grass	Yes		
POAN	Poa annua	Poaceae	Annual bluegrass	2,4,5,6,7	AB	E	Grass	Yes	Yes	
POCO			Canadian bluegrass	7	D D	E			165	
	Poa compressa	Poaceae	•		P D	E	Grass	Yes	Vaa	
POPA2	Poa palustris	Poaceae	Fowl bluegrass	6,7,4	P P		Grass	Yes	Yes	
POSEJ	Poa secunda spp. juncifolia	Poaceae	Alkali bluegrass	4,7	•	N	Grass	No		
POIN7	Polypogon interruptus	Poaceae	Ditch rabbit-foot grass	5,7	P	E	Grass	Yes		
POMO5	Polypogon monspeliensis	Poaceae	Annual rabbitsfoot grass	1,2,3,4,5,6,7,8	Α	E	Grass	Yes	Yes	
POLYP2	Polypogon sp.	Poaceae	Rabbitsfoot grass	0,8	_	E	Grass	Yes	Yes	
POVI9	Polypogon viridis	Poaceae	Water bentgrass	0,7	Р	E	Grass	Yes		
PUDI	Puccinellia distans	Poaceae	Weeping alkali grass	2,7	Р	E	Grass	Yes		
PUNU2	Puccinellia nuttalliana	Poaceae	Nuttall's alkali grass	2	Р	N	Grass	Yes		
SEPU8	Setaria pumila	Poaceae	Yellow foxtail millet	2,6	Α	E	Grass	Yes	Yes	
SPGR	Spartina gracilis	Poaceae	Alkali cord grass	1,3,4,5,6,7,8	Р	N	Grass	Yes		Yes
SPOB	Sphenopholis obtusata	Poaceae	Prairie wedgegrass	6	Р	N	Grass	Yes		
SPAI	Sporobolus airoides	Poaceae	Alkali sacaton	1,2,3,4,5,6,7,8	Р	N	Grass	Yes		
TOPAP3	Torreyochloa pallida var. pauciflora	Poaceae	Weak mannagrass	7	Р	N	Grass	Yes		
POBE9	Potamogeton berchtoldii	Potamogetonaceae	Small pondweed	2	Р	N	Herb	Yes		
POCR3	Potamogeton crispus	Potamogetonaceae	Curly pondweed	2	Р	Ε	Herb	Yes	Yes	
POFO3	Potamogeton foliosus	Potamogetonaceae	Leafy pondweed	2,3	Р	N	Herb	Yes		
PONO2	Potamogeton nodosus	Potamogetonaceae	Long-leaf pondweed	1,2,6	Р	N	Herb	Yes		
POPU7	Potamogeton pusillus	Potamogetonaceae	Small pondweed	7	Р	N	Herb	Yes		
POTAM	Potamogeton sp.	Potamogetonaceae	Pondweed	0,7			Herb	Yes		
RUMA5	Ruppia maritima	Ruppiaceae	Widgeon ditch-grass	2,3,7	Р	N	Herb	Yes		
RUPPI	Ruppia sp.	Ruppiaceae	Ditch-grass	7	Р		Herb	Yes		
MAST	Maianthemum stellata	Ruscaceae	False Solomon's seal	2,4,7	Р	N	Herb	Yes		
TYAN	Typha angustifolia	Typhaceae	Narrow-leaved cattail	1,7	Р	N	Grass	Yes		
TYDO	Typha domingensis	Typhaceae	Southern cattail	2,3,4,5,7	Р	Ν	Grass	Yes		
TYLA	Typha latifolia	Typhaceae	Common cattail	1,3,4,6,7,8	Р	Ν	Grass	Yes		
TYLAG?	Typha latifolia (x glauca?)	Typhaceae	Hybrid cattail	7	Р	N	Grass	Yes		
TYPHA	Typha sp.	Typhaceae	Cattail	1,4,6,8	Р		Grass	Yes		
ZAPA	Zannichellia palustris	Zannichelliaceae	Horned pondweed	2,3,5,7	Р	N	Herb	Yes		
_										

- 0 Source unknown
- 1 LADWP 1984-87 Vegetation Inventory. Type-E Vegetation Inventory.
- DeDecker, Mary, Owens Lake Plant List (CNPS field Trip, March 1991).
   A checklist of the flora of the Owens Valley, June 1974.
- 3 Forbes, H. C., W. R. Ferren and J. R. Haller, 1988. The vegetation and flora of Fish Slough and vicinity.
- 4 ICWD re-inventory of vegetation on LADWP lands, rare plant surveys, and riparian monitoring (1991-2014).
- 5 LORP Tech. memo from Gary Ahlborn, October 1997. Ecosystem Sciences. Plant species observed in the Balckrock waterfowl habitat area.
- 6 Resource Concepts, Inc. November 1998. Type-E Vegetation Parcel Inventory. Report prepared for Inyo County Water Department and LADWP.
- 7 Springs and Seeps data, 1998-1999, Ecosystem Science subcontractors.
- 8 LADWP 2004-2012 reinventory of vegetation on LADWP lands

#### Life Cycle (germination through death)

- A Completing lifecycle in one year or growing season, all non-woody species.
- B Completing lifecycle in two years or growing seasons, often with rosette the first growing season and generally flowering only in the second, usually non-woody above ground...
- P Living more than two years or growing seasons, herbaceous or woody species.

#### Provenance

- E Non-native to area or region, introduced either purposely or acidentally.
- N Native to area or region, believed to have been present prior to human activities.

#### Lifeform

- Herb Plant with little or no woody tissues above ground, above ground parts are less than one year or growing season old, also know as forbs.
- Grass True grass (Poaceae) or grass like plants, all monocots, also known as graminoid.
- Shrub Perennial plant with some or all aboveground stems woody, includes subshrubs, shrubs and trees. Subshrubs can persist as herbaceous perennials when young or if conditions are harsh.

Phreatophyte (obligate phreatophyte requires ground water all or most of the time, faculatative phreatophyte can live with or without ground water, non-phreatophyte does not require groundwater to live.

- Yes Requires at least some groundwater to survive in our area, rarely if ever found in places without relatively shallow groundwater.
- No Does not require groundwater to survive in our area, may be found in areas with or without relatively shallow groundwater.
- Noxious Very invasive weedy species often impedes growth of native species. Some California noxious species are only sparingly found in Owens Valley.
- **Toxic** Toxic to livestock and humans if ingested, and in some cases dermal contact can cause a negative reaction.
- **Weedy** Species that are esspecially weedy in Owens Valley, most noxious species are also weedy in Owens Valley. in **OV**

Rare or Species that are listed as rare in California or the United States, or species that are rare to uncommon in the Owens Valley.

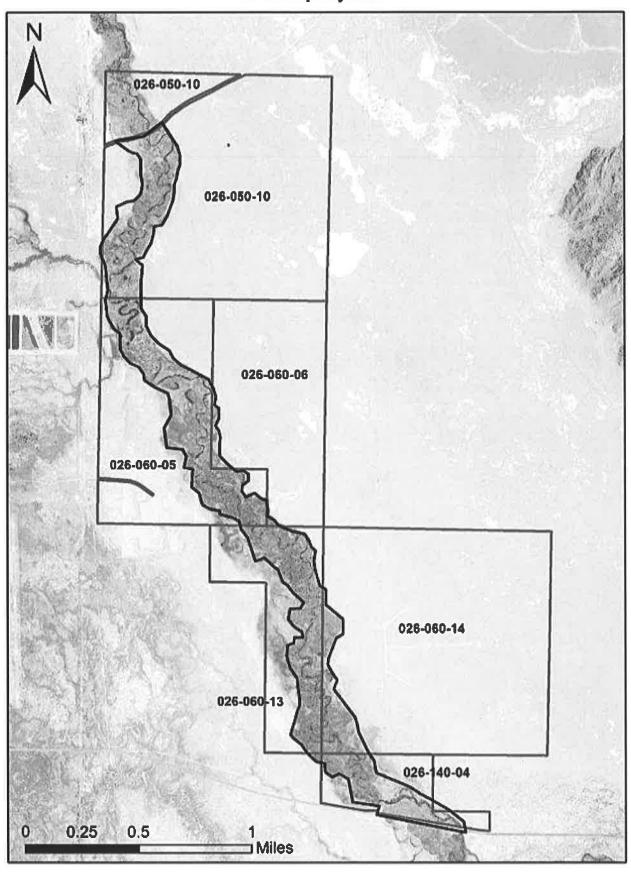
#### 8. PROPERTY DATA SHEET

Use the Property Data Sheet to list the owner(s) of all parcels included in the proposed project. Indicate and attach all required documents including any clarifying comments below. Attach additional sheets if necessary.

				owne appli indic	cel(s) ed by cant(s ate typ ership		For all parcels, indicate document used to demonstrate ownership and attach a copy of each document-clearly labeled with the APN-to this document	applio	cant men issid	(s) ir it vei on to	ot owner ndicate rifying Deve	9		O&M to be
No	Owner Name	Assessor Parcel Number(s)	Acreage	Fee Simple	Easement	Other (describe)	Din, grant acca, ctc.	O&M ★ Agreement	Lease	JPA	Letter from Owner	Other (describe)	Entity to perform O&M	# of years O
1	LADWP	026-050-10-00	640.0				INTO COUNTY ASSESSOR PARCEL QUEST DATA							
2		026-060-05-00												
3		026-060-06-00	280.0											
4		026-060-13-00	200.0											
5		026-060-14-00	640.0	Ť,										
6	· ·	026-140-04-00	480.0											
7														
8														
9		ν,												
10													_	

8															
9		ν,													
10															
Com	ments: * LAH	) TEHUZE	AND OFM	AGREEMEN	JT WI	74 (	4 DW	PIS PEHDING GRAN	T AWAR	o (se	E CADU	UP LE	тег)		
To	otal Number of Pa	rcels:	6	Total	Numbe	er of A	cres:	2600.0							

# Project Boundary and Inyo County Assessor's parcels within project.



Inyo, CA DAVE STOTTLEMYRE, ASSESSOR

Parcel # (APN): 026-050-10-00 Use Description: AGRICULTURAL

Parcel Status:

ACTIVE

Owner Name:

CITY OF LOS ANGELES DWP

Mailing Address: 300 MANDICH ST BISHOP CA 93514

Situs Address:

**LONE PINE CA 93545** 

Legal

Description:

**ASSESSMENT** 

Total Value: \$994,095

Use Code:

550

Zoning:

Land Value: \$994,095

Tax Rate Area: 059001

Census Tract: Improve Type:

Impr Value: Other Value: Year Assd: Property Tax: 2015

Price/SqFt:

% Improved

Exempt Amt:

Delinquent Yr

HO Exempt?: Ν

SALES HISTORY

Sale 1

Sale 2

Sale 3

Transfer

Recording Date:

Recorded Doc#: Recorded Doc Type: Transfer Amount:

Sale 1 Seller (Grantor):

1st Trst Dd Amt:

Code1:

2nd Trst Dd Amt:

Code2:

# PROPERTY CHARACTERISTICS

Lot Acres:

640,000

Year Built:

Fireplace:

Lot SqFt:

27,878,400

A/C:

Bldg/Liv Area:

Effective Yr:

Heating:

Units:

Total Rooms:

Pool:

Buildings:

Bedrooms:

Stories:

Baths (Full):

Park Type:

Style:

Baths (Half):

Spaces:

Site Inflnce:

Construct:

Quality:

Garage SqFt:

Building Class: V

Timber Preserve:

Condition:

Ag Preserve:

Other Rooms:

The information provided here is deemed reliable, but is not guaranteed.

Inyo, CA DAVE STOTTLEMYRE, ASSESSOR

Parcel # (APN):

026-060-05-00

Use Description: AGRICULTURAL

Parcel Status:

ACTIVE

Owner Name:

CITY OF LOS ANGELES DWP

Mailing Address: 300 MANDICH ST BISHOP CA 93514

Situs Address:

**450 SUB STATION RD LONE PINE CA 93545** 

Legal

Description:

ASSESSMENT

Total Value: \$798,826

Use Code:

550

Zoning:

Land Value: \$798,826

Tax Rate Area: 059001 Year Assd:

2015

Census Tract: Improve Type:

Impr Value: Other Value:

Property Tax:

Price/SqFt:

% Improved

Delinquent Yr

**Exempt Amt:** 

HO Exempt?: N

SALES HISTORY

Sale 1

Sale 2

Sale 3

Transfer

Recording Date:

Recorded Doc#:

Recorded Doc Type:

**Transfer Amount:** 

Sale 1 Seller (Grantor):

1st Trst Dd Amt:

Code1:

2nd Trst Dd Amt:

Code2:

### PROPERTY CHARACTERISTICS

Lot Acres:

360.000

Year Built:

Fireplace:

Lot SqFt:

15,681,600

Effective Yr:

A/C:

Bldg/Liv Area:

Total Rooms:

Heating:

Units: Buildings:

Pool:

Bedrooms:

Park Type:

Stories:

Baths (Full):

Spaces:

Style:

Baths (Half):

Site Inflnce:

Construct:

Quality:

Garage SqFt:

Building Class: V

Timber Preserve:

Condition:

Ag Preserve:

Υ

<sup>\*\*\*</sup> The information provided here is deemed reliable, but is not guaranteed.

Inyo, CA DAVE STOTTLEMYRE, ASSESSOR

Parcel # (APN):

026-060-06-00

Use Description: AGRICULTURAL

Parcel Status:

**ACTIVE** 

Owner Name:

CITY OF LOS ANGELES DWP

Mailing Address: 300 MANDICH ST BISHOP CA 93514

Situs Address:

**LONE PINE CA 93545** 

Legal

Description:

**ASSESSMENT** 

Total Value:

Use Code:

550

Zoning:

Land Value:

Tax Rate Area: 059001

Census Tract: Improve Type:

Impr Value:

Year Assd:

2015

Price/SqFt:

Other Value: % Improved

Exempt Amt:

Property Tax:

Delinquent Yr

HO Exempt?: Ν

SALES HISTORY

Sale 1

Sale 2

Sale 3

Transfer

Recording Date:

Recorded Doc #:

Recorded Doc Type:

**Transfer Amount:** Sale 1 Seller (Grantor):

1st Trst Dd Amt:

Code1:

2nd Trst Dd Amt:

Code2:

### PROPERTY CHARACTERISTICS

Lot Acres:

280.000

Year Built:

Fireplace:

Lot SqFt:

12,196,800

Effective Yr:

A/C:

Bldg/Liv Area:

Total Rooms:

Heating:

Units:

Pool:

Buildings:

Bedrooms:

Stories:

Baths (Full):

Park Type:

Style:

Spaces:

Baths (Half):

Site Inflnce:

Construct:

Quality:

Garage SqFt:

Timber Preserve:

**Building Class:** 

Ag Preserve:

Y

Condition:

<sup>\*\*\*</sup> The information provided here is deemed reliable, but is not guaranteed.

Inyo, CA DAVE STOTTLEMYRE, ASSESSOR

Parcel # (APN):

026-060-13-00

Use Description: AGRICULTURAL

Parcel Status:

ACTIVE

Owner Name:

CITY OF LOS ANGELES DWP

Mailing Address:

300 MANDICH ST BISHOP CA 93514

Situs Address:

**LONE PINE CA 93545** 

Legal

Description:

**ASSESSMENT** 

Total Value: \$369,827

Use Code:

550

Zoning:

Land Value: \$369,827

Tax Rate Area: 059001

2015

Census Tract: Improve Type:

Impr Value: Other Value: Year Assd: Property Tax:

Price/SqFt:

% Improved

Delinquent Yr

Exempt Amt:

HO Exempt?: N

SALES HISTORY

Sale 1

Sale 2

Sale 3

Transfer

Recording Date: Recorded Doc #:

Recorded Doc Type:

Transfer Amount: Sale 1 Seller (Grantor):

1st Trst Dd Amt:

Code1:

2nd Trst Dd Amt:

Code2:

PROPERTY CHARACTERISTICS

Lot Acres:

200,000

Year Built:

Fireplace:

Lot SqFt:

8,712,000

Effective Yr:

A/C:

Bldg/Liv Area:

Total Rooms:

Heating:

Units:

Pool:

Buildings:

Bedrooms:

Stories:

Baths (Full):

Park Type:

Style:

Baths (Half):

Spaces:

Construct:

Site Inflnce:

Quality:

Garage SqFt:

Building Class: V

Ag Preserve:

Timber Preserve:

Y

Condition:

<sup>\*\*\*</sup> The information provided here is deemed reliable, but is not guaranteed.

Inyo, CA DAVE STOTTLEMYRE, ASSESSOR

Parcel # (APN):

026-060-14-00

Use Description: AGRICULTURAL

Parcel Status:

ACTIVE

Owner Name:

CITY OF LOS ANGELES DWP

Mailing Address: 300 MANDICH ST BISHOP CA 93514

Situs Address:

**LONE PINE CA 93545** 

Legal

Description:

ASSESSMENT

Total Value: \$852,081

Use Code:

550

Zoning:

Land Value: \$852,081

Tax Rate Area: 059001

Census Tract: Improve Type:

Impr Value: Other Value: Year Assd: Property Tax: 2015

Price/SqFt:

% Improved

Delinquent Yr

Exempt Amt:

HO Exempt?: N

SALES HISTORY

Sale 1

Sale 2

Sale 3

Transfer

Recording Date:

Recorded Doc#:

Recorded Doc Type:

Transfer Amount:

Sale 1 Seller (Grantor):

1st Trst Dd Amt:

Code1:

2nd Trst Dd Amt:

Code2:

## PROPERTY CHARACTERISTICS

Lot Acres:

640.000

Year Built:

Fireplace:

Lot SqFt:

27,878,400

Effective Yr:

A/C:

Bldg/Liv Area:

Total Rooms:

Heating: Pool:

Units: Buildings:

Bedrooms:

Stories:

Baths (Full):

Park Type:

Style:

Baths (Half):

Spaces: Site Inflnce:

Construct:

Quality:

Garage SqFt:

Building Class: V

Ag Preserve:

Timber Preserve:

Y

Condition:

The information provided here is deemed reliable, but is not guaranteed.

Inyo, CA DAVE STOTTLEMYRE, ASSESSOR

Parcel # (APN):

026-140-04-00

Use Description: AGRICULTURAL

Parcel Status:

ACTIVE

Owner Name:

CITY OF LOS ANGELES DWP

Mailing Address: 300 MANDICH ST BISHOP CA 93514

Situs Address:

**LONE PINE CA 93545** 

Legal

Description:

ASSESSMENT

Total Value: \$656,813

Use Code:

550

Zoning:

Land Value: \$656,813

Tax Rate Area: 059001

Census Tract:

Impr Value:

Year Assd:

2015

Improve Type: Price/SqFt:

Other Value: % Improved

Property Tax:

Delinquent Yr

Exempt Amt:

HO Exempt?: N

SALES HISTORY

Sale 1

Sale 2

Sale 3

Transfer

Recording Date:

Recorded Doc#:

Recorded Doc Type:

Transfer Amount:

Sale 1 Seller (Grantor):

1st Trst Dd Amt:

Code1:

2nd Trst Dd Amt:

Code2:

# PROPERTY CHARACTERISTICS

Lot Acres:

480,000

Year Built:

Fireplace:

Lot SqFt:

20,908,800

Effective Yr:

A/C:

Bldg/Liv Area:

Total Rooms:

Heating: Pool:

Buildings:

Units:

Bedrooms:

Baths (Full):

Park Type:

Stories: Style:

Baths (Half):

Spaces:

Site Inflnce:

Construct:

Garage SqFt:

Quality:

Building Class: V

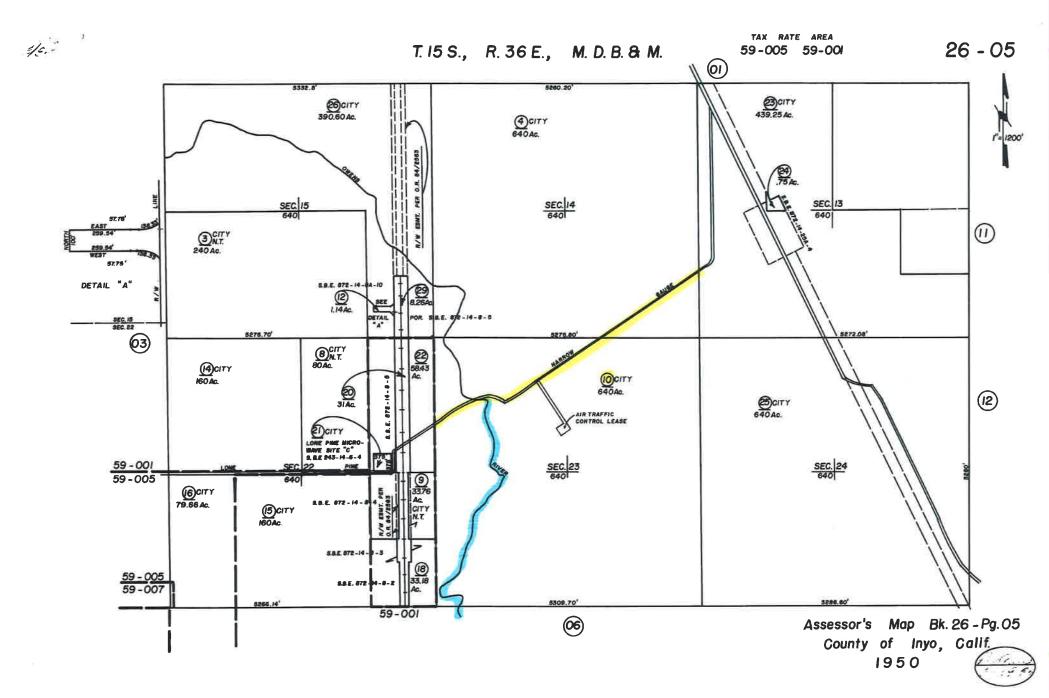
Timber Preserve:

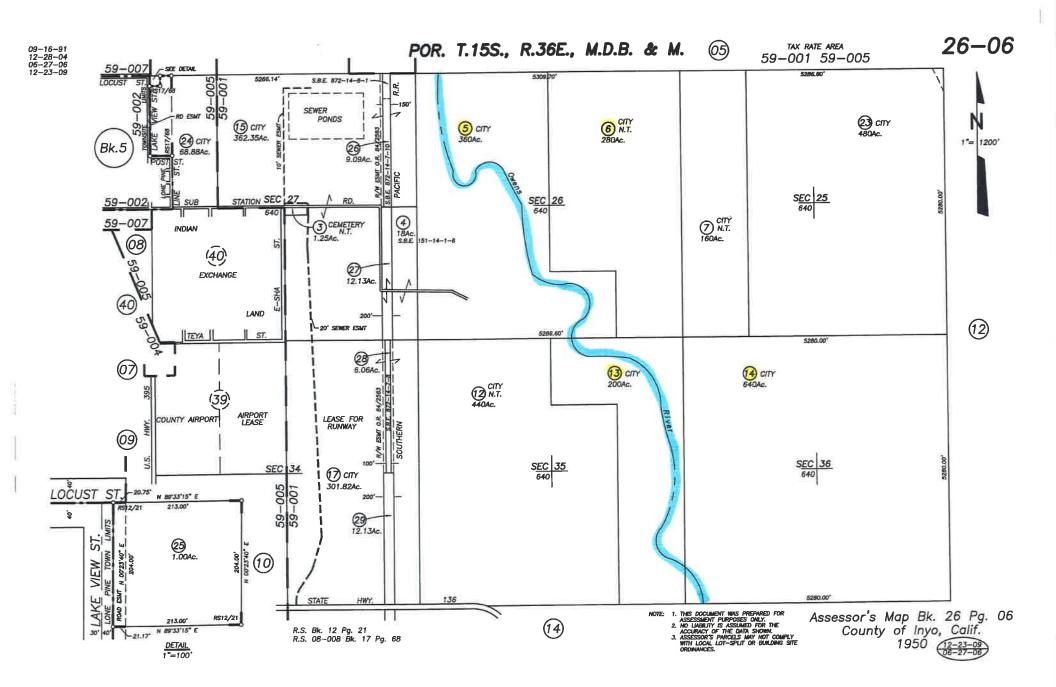
Condition:

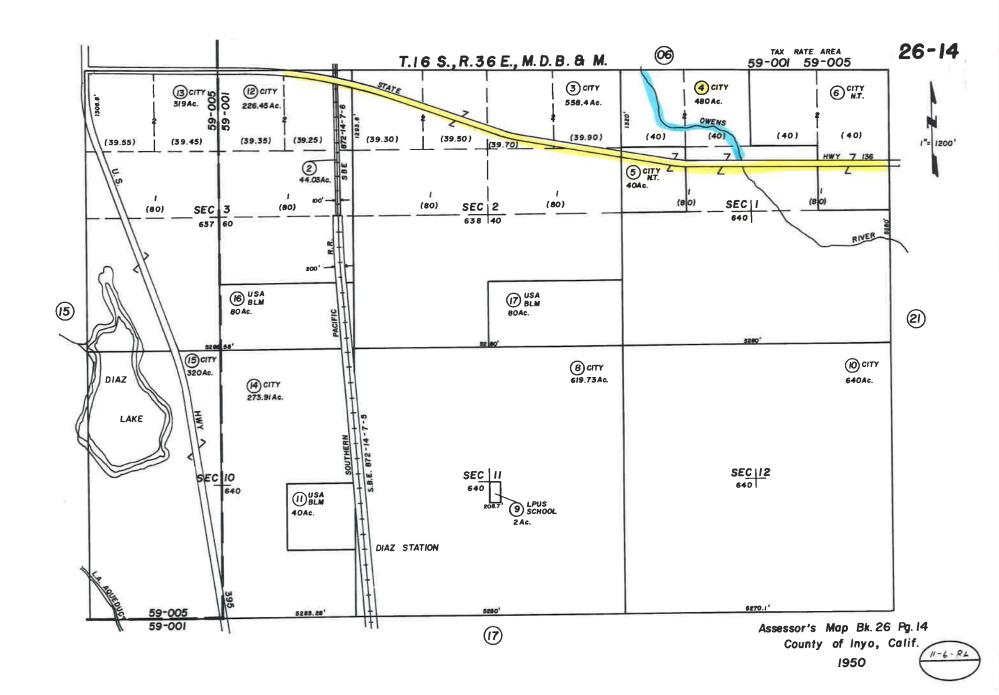
Ag Preserve:

Y

<sup>\*\*\*</sup> The information provided here is deemed reliable, but is not guaranteed.





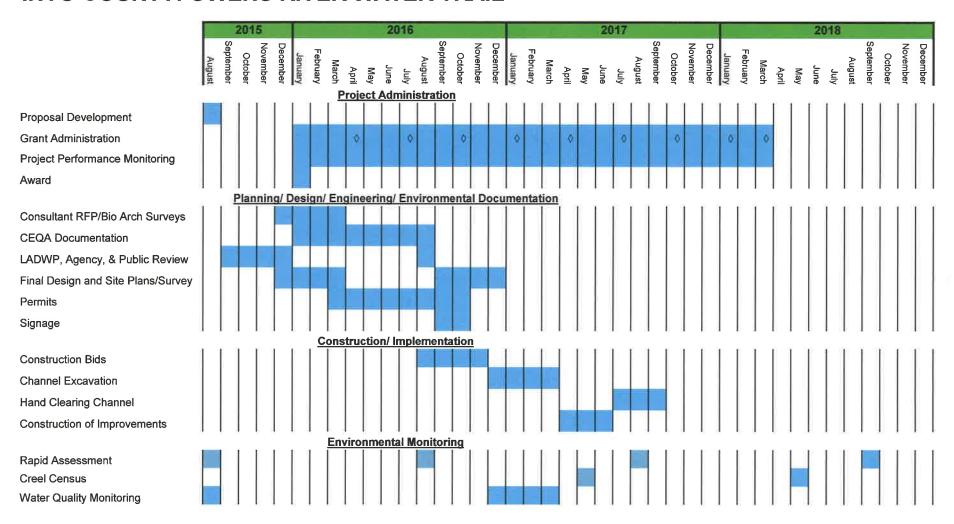


#### **OWENS RIVER WATER TRAIL**

#### IMPLEMENTATION--CONTRACTED/IN-HOUSE

CHANNEL EVENVATION		Link Delen	He2s-			River Parkways	Local		In-kind		T-4:1
CHANNEL EXCAVATION		Unit Price	Units	Quantity		Request	Contribution	_	Funding		Total
Equipment Charge	\$	64,000.00	51		\$	64,000.00	\$ -	\$	.00	\$	64,000.0
Fuel	\$	2.54	Gallons	2,300	\$	5,842.00	\$ -	\$		\$	5,842.0
Track Mats	\$	5,000.00	- %		\$	5,000.00	\$ =	\$	-	\$	5,000.0
Construction Yard Tarps	\$	500.00			\$	500.00	\$ =	\$		\$	500.0
Excavation Labor	\$	75.00	\$/L.F.	4,106 L.F.		307,950.00	\$ =	\$	(F)	_	307,950.0
Excavation S	ubtotal				\$	383,292.00	\$ =	\$	551	<u>\$</u>	383,292.0
ENTRY/PARKING/STAGING/PATH/LAUNCHLPNGR Labor/EquipmentParking Entry	Ś	2,520.00		- 4	\$	2,520.00	\$ -	5	T	ć	2 520 (
	\$	3,360.00			\$			+		\$	2,520.0
Labor/EquipmentParking Area	-		50	- 3	-	3,360.00		\$		\$	3,360.0
Labor/EquipmentPath to River	\$	1,260.00	-		\$	1,260.00	\$ -	\$		\$	1,260.0
Labor/EquipmentRiver Entrance	\$	500.00			-	500.00		\$	(*)	\$	500.0
MaterialsDG	\$	0.80	Tons	650	\$	1 2 2 2 2 2	\$ 520.00	\$	375	\$	520.0
MaterialGeotextile	\$	1,500.00		==	\$	1,500.00		\$	1,500.00	\$	3,000.0
Cattle Guard	\$	5,000.00	- 5:		\$	5,000.00	\$ 3	\$	100	\$	5,000.0
Kiosk/ Trash Receptacles	<u>\$</u>	1,550.00			\$	1,550.00	\$ =	\$	4 500 00	\$	1,550.0
LPNGR Improvements S	uptotai				\$	15,690.00	\$ 520.00	\$	1,500.00	\$	17,710.0
EXIT/PARKING/STAGING/PATH/LAUNCHHwy 136	1				1.			Ι.		_	
Labor/EquipmentParking Entry	\$	2,520.00	-	-	\$	2,520.00	\$ -	\$		\$	2,520,0
Labor/EquipmentParking Area	\$	3,360.00	_ ==		\$	3,360.00	\$ =	\$	- 3	\$	3,360.0
Labor/EquipmentPath to River	\$	1,260.00	5:		\$	1,260.00	\$ =	\$	36	\$	1,260.0
Labor/EquipmentRiver Entrance	\$	500.00	- 2		\$	500,00	\$ -	\$		\$	500.
MaterialsDG	\$	08.0	Tons	650	\$	54	\$ 520.00	-		\$	520.0
MaterialGeotextile	\$	1,500.00	25	8	\$	1,500.00		\$	1,500.00	\$	3,000.0
Klosk/Trash Receptacles	\$	900.00	_ =		\$	900,00	\$ =	\$		\$	900.0
Hwy 136 Improvements S	ubtotal				\$	10,040.00	\$ 520.00	\$	1,500.00	\$	12,060.0
Hand Clearing Channel					_			,_		_	
Equipment	\$	3,520.00	25		\$	3,520.00	\$ -	\$	(40)	\$	3,520.0
Hand Clearing Equipment S	ubtotal				\$	3,520.00	\$ =	\$	30,65	\$	3,520.0
SUBTOTAL CONSTRUCTION	COSTS				\$	412,542.00	\$ 1,040.00	\$	3,000.00	\$4	16,582.0
ANNING and DESIGNCONTRACTED/IN-HOUSE											
		_						_			
CEQA Preparation (MND)	\$	25,500.00	-6	*	\$	23,000.00	\$ 2,500.00			\$	25,500.0
CEQA Preparation (MND) Blo/Arch Surveys	\$	25,500.00 21,000.00		2 2	\$	23,000.00	\$ 2,500.00 \$ 1,000.00		2	\$	
CEQA Preparation (MND)					\$		**				21,000.0
CEQA Preparation (MND) Blo/Arch Surveys	\$	21,000.00			\$ \$	20,000.00	\$ 1,000.00		2	\$	21,000.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans	\$	21,000.00 13,500.00			\$	20,000.00 13,500.00	\$ 1,000.00		2 12	\$	25,500.0 21,000.0 13,500.0 3,550.0 23,963.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits	\$ \$ \$	21,000.00 13,500.00 2,550.00	- 2	3	\$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00	\$ 1,000.00 \$ 1,000.00		25 35 36	\$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement)	\$ \$ \$	21,000.00 13,500.00 2,550.00	- 2	3	\$ \$	20,000.00 13,500.00 2,550.00	\$ 1,000.00 \$ 1,000.00	\$	2 2	\$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits SUBTOTAL PLANNING and	\$ \$ \$	21,000.00 13,500.00 2,550.00	- 2	3	\$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00	\$ 1,000.00 \$ 1,000.00	\$	25 35 36	\$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits	\$ \$ \$ S	21,000.00 13,500.00 2,550.00	- 2	3	\$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00	\$ 1,000.00 \$ 1,000.00 - \$ 4,500.00	\$	25 35 36	\$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0 <b>87,513.0</b>
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits SUBTOTAL PLANNING and I	\$ \$ \$	21,000.00 13,500.00 2,550.00 23,963.00	÷:	8	\$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00 83,013.00	\$ 1,000.00 \$ 1,000.00		2 2 2	\$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits  SUBTOTAL PLANNING and I MINISTRATION and PROJECT MANAGEMENT—INYO COUNTY Administration—Labor Project management—Labor	\$ \$ \$ \$ \$ \$ \$ \$	21,000.00 13,500.00 2,550.00 23,963.00 45.71	hours	80	\$ \$ \$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00 83,013.00	\$ 1,000.00 \$ 1,000.00 \$ 4,500.00 \$ 3,656.80 \$ 8,739.00	\$	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ \$ \$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0 87,513.0 3,656.8 8,739.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits  SUBTOTAL PLANNING and I MINISTRATION and PROJECT MANAGEMENT—INYO COUNTY Administration—Labor Project management—Labor  SUBTOTAL ADMIN and PROJECT MANAGEMENT—INTERPRETENT MANAGEMENT MANA	\$ \$ \$ \$ \$ \$ \$ \$	21,000.00 13,500.00 2,550.00 23,963.00 45.71	hours	80	\$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00 83,013.00	\$ 1,000.00 \$ 1,000.00 	\$	2 2 2	\$ \$ \$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0 <b>87,513.0</b> 3,656.8 8,739.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits  SUBTOTAL PLANNING and I  MINISTRATION and PROJECT MANAGEMENT—INYO COUNTY Administration—Labor Project management—Labor  SUBTOTAL ADMIN and PROJECT MANAGEMENT—INTERPRETENTIAL ADMIN and PROJECT MANAGEMENT—INTERPRETENTIAL ADMIN AND PROJECT MANAGEMENT	\$ \$ \$ \$ \$ \$ \$ \$	21,000.00 13,500.00 2,550.00 23,963.00 45.71	hours	80	\$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00 83,013.00	\$ 1,000.00 \$ 1,000.00 \$ 4,500.00 \$ 3,656.80 \$ 8,739.00 \$ 12,395.80	\$	2 3 4	\$ \$ \$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0 <b>87,513.0</b> 3,656.8 8,739.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits  SUBTOTAL PLANNING and I  SMINISTRATION and PROJECT MANAGEMENT—INYO COUNTY Administration—Labor Project management—Labor	\$ \$ \$ \$ \$ \$ \$ \$	21,000.00 13,500.00 2,550.00 23,963.00 45.71	hours	80	\$ \$ \$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00 83,013.00	\$ 1,000.00 \$ 1,000.00 \$ 4,500.00 \$ 3,656.80 \$ 8,739.00	\$	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ \$ \$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0 <b>87,513.0</b> 3,656.8 8,739.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits  SUBTOTAL PLANNING and I  SMINISTRATION and PROJECT MANAGEMENT—INYO COUNTY Administration—Labor Project management—Labor  SUBTOTAL ADMIN and PROJECT MANAGEMENT—INTERPRETENT MANAGEMENT	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	21,000.00 13,500.00 2,550.00 23,963.00 45.71	hours	80	\$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00 83,013.00	\$ 1,000.00 \$ 1,000.00 \$ 4,500.00 \$ 3,656.80 \$ 8,739.00 \$ 12,395.80	\$	2 3 4	\$ \$ \$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0 87,513.0 3,656.8 8,739.0
CEQA Preparation (MND) Blo/Arch Surveys Final Design Site Plans Signage (Interpretive and Bond Acknowledgement) Permits  SUBTOTAL PLANNING and I  SUBITOTAL PLANNING and I  PMINISTRATION and PROJECT MANAGEMENT—INYO COUNTY Administration—Labor Project management—Labor  SUBTOTAL ADMIN and PROJECT MANAGEMENT— CONTINGENCY Contingency	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	21,000.00 13,500.00 2,550.00 23,963.00 45.71	hours	80	\$ \$ \$	20,000.00 13,500.00 2,550.00 23,963.00 83,013.00	\$ 1,000.00 \$ 1,000.00 \$ 4,500.00 \$ 3,656.80 \$ 8,739.00 \$ 12,395.80	\$	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ \$ \$ \$ \$ \$ \$	21,000.0 13,500.0 3,550.0 23,963.0 87,513.0 3,656.8 8,739.0

# INYO COUNTY: OWENS RIVER WATER TRAIL



Owens River Water Trail, Operations and Maintenance Budget

Tark	Leberton	Hourly Labor	,		Equipment	Hourly Equipr	nent		_			cation	Occurance	
Task	Labor type	Rate		Hours	Туре	Rate		Hours	Tas	k Cost	(amo	oritized)	Interval	Description
Parking Maint	Operator	\$	59	16	Grader	\$	40	16	\$	1,583	\$	522	3 years	Maintain parking area surface every three years
Hwy 136 road Entrance	Operator	\$	59	16	Grader	\$	40	16	\$	1,583	\$	791	2 years	Maintain road surface every two years
Mowing	Specialist 3	\$	38	8	Parks Maintenance	\$	5 <b>2</b> 0	0	\$	306	\$	612	Twice Yearly	Weed whacking adjacent to parking area, path to river, and river entry twice yearly
Road Maintenance	Operator	\$	59	80	Grader	\$	40	80	\$	7,913	\$	1,583	5 years	Grade eastside road at five year intervals
Trash barrel pickup	Specialist 3	\$	38	1.5	Parks Maintenance	\$	-	0	\$	57	\$	1,491	26 times annually	Empty two trash barrels in two parking area, on average every two weeks
									\$	11,441	\$	4,998		

Inflation schedule (3%/annually)

Year	Annu Alloc		Admin (10%)		
1	\$	4,998	\$	5,048	
2	\$	5,148	\$	5,200	
3	\$	5,303	\$	5,356	
4	\$	5,462	\$	5,516	
5	\$	5,626	\$	5,682	
6	\$	5,794	\$	5,852	
7	\$	5,968	\$	6,028	
8	\$	6,147	\$	6,209	
9	\$	6,332	\$	6,395	
10	\$	6,521	\$	6,587	
11	\$	6,717	\$	6,784	
12	\$	6,919	\$	6,988	
13	\$	7,126	\$	7,197	
14	\$	7,340	\$	7,413	
15	\$	7,560	\$	7,636	
16	\$	7,787	\$	7,865	
17	\$	8,021	\$	8,101	
18	\$	8,261	\$	8,344	
19	\$	8,509	\$	8,594	
20	\$	8,764	\$	8,852	

Unanticipated work (LADWP 2015 rates)

	Labo (hou	-	Equipment (hourly)			
Haul Truck	\$	37.65	\$	25.92		
Excavator	\$	46.50	\$	71.96		
Per day	\$	673.20	\$	783.04		

## 7. PROJECT PERMIT/APPROVAL STATUS

List is not all inclusive. It is Grantee's responsibility to comply with all applicable permits.

Permitting Agency	Type of Requirement	Required?	Applied?	Acquired?	Date Anticipated					
State Agencies:										
California Department of Fish and Game	Streambed Alteration Agreement Permit (Section 1600)									
California Department of Fish and Game	Incidental Take Permit									
CalTrans	Encroachment Permit									
Coastal Commission	Coastal Development Permit									
Coastal Commission	Letter of Consistency									
Regional Water Quality Control Board	401 Water Quality Certification or Waste Discharge Requirement									
State Water Resources Control Board	Water Rights Permit									
State Water Resources Control Board	General Industrial Storm Water Permit									
Central Valley Flood Protection Board	Permission to Encroach on Waterways within Designated Floodways									
State Lands Commission	Permit required if using State owned property									
State Office of Historic Preservation	Cultural Resources-Submission of findings to State Historic Preservation Officer (National Historic Preservation Act, Section 106)									
Federal Agencies										
U.S. Fish and Wildlife Service (USFWS)	Section 7 consultation if federal nexus (see ACOE), or Section 10 Permit									
U.S. Army Corps of Engineers (ACOE)	Clean Water Act, Section 404 Permit, will consult w/USFWS & NMFS Section 7									
U.S. Army Corps of Engineers	Rivers and Harbors Act, Section 10 Permit									
U.S. Coast Guard / U.S. Army Corps of Engineers	Rivers and Harbors Act, Section 9 Permit									
U.S. National Resources Conservation Service	Consultation									
National Marine Fisheries Service (NMFS)	Section 7 consultation if federal nexus see ACOE, or Section 10 Permit									
Local and Regional Planning Agencies										
City/County	Grading Permit									
City/County	Environmental Health Department									
San Francisco Bay Conservation and Development Commission	Any relevant permit									
Tahoe Regional Planning Agency	Any relevant permit									
Local Resource Conservation District	Consultation									
Flood Control Districts	Floodway & Hydrological Analysis									
Others (List):										
Describe any potential delays due to permitting (indicate specific permits):										