

Lower Owens River Project
Work Plan, Budget, and Schedule
2015-2016 Fiscal Year

Prepared by
Inyo County Water Department
& Los Angeles Department of Water and Power

2015-2016 Fiscal Year, Lower Owens River Project, Work Plan, Budget, and Schedule

The Inyo County Water Department and the Los Angeles Department of Water and Power jointly prepared this 2015-2016 Fiscal Year Lower Owens River Project Work plan. The Inyo County/Los Angeles Technical Group adopted this work plan on February 12, 2015. The Technical Group recommends that the Inyo County Board of Supervisors and the City of Los Angeles Board of Water and Power Commissioners or their designee approve the 2015-2016 Fiscal Year Lower Owens River Project Work Plan.

Introduction

The Final Environmental Impact Report for the Lower Owens River Project (LORP) Section 2.2.1 provides that in December of each year, the Long-Term Water Agreement (LTWA) Technical Group will develop and adopt an annual work program for the LORP, which describes LORP work to be performed in the following fiscal year. This work program identifies who will perform or oversee tasks, a schedule, and a budget. This work plan and budget was prepared according to the Agreement between the County of Inyo and City of Los Angeles Department of Water and Power Concerning Funding of the Lower Owens River Project (Funding Agreement) sections D, E, and F. Following adoption by the Technical Group, the work program will be submitted to the County and LADWP governing board for approval. Each governing board must approve the plan before this work plan and budget can be implemented. This Work Plan, Budget, and Schedule is in force from July 1, 2015 – June 30, 2016.

The objectives of this work plan are to maintain compliance with the July 11, 2007 Superior Court Stipulation and Order in case no. S1CVCV01-29768, conduct monitoring necessary to achieve the LORP goals described in the 1997 Memorandum of Understanding, maintain infrastructure necessary to the operation of the LORP, and implement adaptive management measures. The following priorities are observed in this work plan:

1. Work and activities required to maintain required flows in the river and required water supplies to other LORP components.
2. Maintenance associated with flow compliance monitoring and reporting associated with the above referenced Stipulation and Order.
3. Habitat and water quality monitoring described in the LORP Monitoring and Adaptive Management Plan, or required to comply with the requirements of the Lahontan Regional Water Quality Control Board.
4. The preparation of the LORP Annual Report as required by Section 2.10.4 of the LORP Final EIR and by Section L of the above referenced Stipulation and Order.
5. Other work or activities including the implementation of adaptive management measures.

Section 1 of this work plan covers the budget and schedule for operations and maintenance, monitoring, mosquito abatement, noxious species control, saltcedar control, and reporting activities. Saltcedar control activities are identified but are funded under separate agreements and not budgeted in this work plan. Section 2 of this work plan addresses adaptive management measures.

The budget amount reflects the additional costs above equal sharing of work by the parties and does not include the costs of Inyo and LA staff times where they offset.

Maintenance and Monitoring Budget

Table 1 summarizes the costs of operation, maintenance and monitoring for the fiscal year and specifies the costs incurred by Inyo County, Los Angeles, and the cost of the MOU consultant. A summary of these activities follows.

Efforts on biologic and water quality monitoring tasks are shared by Inyo and LADWP. In 2015-16 a total of 476 people days are required to complete these tasks. Inyo County and LADWP will each contribute 238 days. Maintenance, Operations, and Hydrologic monitoring are tasks solely performed by LADWP, and are without offsetting costs. LADWP has allocated 218 people days for Range Monitoring, which is a LADWP cost.

Based on this budget, total cost for the fiscal year is \$588,588. Inyo County's Post Implementation Credit will be decreased by \$71,648. This figure is calculated by subtracting the dollars Inyo County will spend during the fiscal year from the amount spent by LADWP, and dividing this figure by two.

Table 1. 2015-2016 Summary Budget

| Inyo County | People Days | Staff Time, Materials, Services and Equipment | Payment/Credit |
|---|-------------|---|-----------------|
| Biologic and Water Quality | 238 | \$ - | |
| Mosquito Abatement | - | \$30,000 | |
| MOU Consultant | - | \$142,646 | |
| Noxious Species Control | - | \$50,000 | |
| Inyo County Totals | 238 | \$222,646 | \$71,648 |
| LADWP | People Days | Staff Time, Materials, Services and Equipment | |
| Hydrologic Monitoring | - | \$124,640 | |
| Biologic and Water Quality | 238 | \$ - | |
| Operations and Maintenance | - | \$201,302 | |
| Mosquito Abatement | - | \$30,000 | |
| Rodent Control | - | \$10,000 | |
| LADWP Totals | 238 | \$365,942 | |
| Combined Total | 476 | \$588,588 | |
| Inyo County Credit Adjustment (LA-Inyo)/2 | | \$71,648 | |

Footnote to Table 1. Post Implementation Credit and Trust Accounting

| | CPI Adjustment | Credit/Debit | Credit Balance |
|---|----------------|--------------|----------------|
| Original Post Implementation Credit | | \$2,253,033 | \$2,253,033 |
| Increase Post Imp Credit by 2.9% based on the July 2007 price Index | 2.9% | \$65,338 | \$2,318,371 |
| County's obligation for July 11, 2007 to June 30, 2008 period | | \$243,524 | \$2,074,847 |
| Increase the remaining balance of the Post Implementation Credit by 5.7% based upon the July 2008 price index | 5.7% | \$118,266 | \$1,956,581 |
| County's obligation for 2008-2009 fiscal year | | \$243,524 | \$1,949,589 |
| Reduce the remaining balance of the Post Implementation Credit by 1.3% based upon the April 2009 price index | -1.3% | \$(25,345) | \$1,924,244 |
| County's share of the costs for the 2009-2010 work plan and budget, including adaptive management. | | \$266,176 | \$1,658,068 |
| Increase the remaining balance of the Post Implementation Credit by 1.9% based upon the April 2010 price index effective July 10, 2010 | 1.9% | \$31,503 | \$1,689,572 |
| County's share of the costs for the 2010-2011 work plan and budget, including adaptive management effective July 21, 2010. | | \$317,805 | \$1,371,767 |
| Increase the remaining balance of the Post Implementation Credit by 3.3% based upon the April 2011 price index effective July 10, 2011. | 3.3% | \$45,268 | \$1,417,035 |
| County's share of the costs for the 2011-2012 work plan and budget, including adaptive management effective July 21, 2011. | | \$48,278 | \$1,368,757 |
| County's share of the costs for the Amended 2011-2012 work plan and budget, effective July 21, 2011. | | \$57,687 | \$1,311,070 |
| Increase the remaining balance of the Post Implementation Credit by 1.5% based upon the April 2012 price index effective July 10, 2012. | 1.5% | \$19,666 | \$1,330,736 |
| County's share of the costs for the 2012-2013 work plan and budget, including adaptive management effective July 23, 2012. | | \$14,084 | \$1,316,652 |
| Increase the remaining balance of the Post Implementation Credit by 0.9% based upon the April 2013 price index effective July 10, 2013. | 0.9% | \$11,850 | \$1,328,502 |
| County's share of the costs for the 2013-2014 work plan and budget, including adaptive management effective June 21, 2013. | | \$(45,068) | \$1,373,570 |
| Increase the remaining balance of the Post Implementation Credit by 1.4% based upon the April 2014 price index effective July 10, 2014. | 1.4% | \$19,230 | \$1,392,800 |
| County's share of the costs for the 2014-2015 work plan and budget, including adaptive management effective June 21, 2014. | | \$78,483 | \$1,314,317 |
| Increase the remaining balance of the Post Implementation Credit by 1.4% based upon the April 2014 price index effective July 10, 2014. | 1.4% | 18,400 | \$1,332,717 |
| County's share of the costs for the 2015-2016 work plan and budget, including adaptive management effective June 21, 2014. | | \$71,648 | \$1,261,069 |

The County's balance in the Post Imp Credit Account held by LADWP as of February 10, 2015 is \$1,261,069. The annual CPI adjustment will take place prior to deduction of a credit for County's annual share of the LORP post-implementation costs (PIA 8.4). The Trust Account Balance as of February 9, 2015 is \$2,964,086.

Section 1. Maintenance and Monitoring Tasks

LORP Tasks

The maintenance and monitoring portion of this work plan consists of four categories of tasks: operations and maintenance, hydrologic monitoring, biological monitoring, and range monitoring.

Operations and Maintenance

Maintenance activities consist of cleaning water measurement facilities, cleaning sediment and aquatic vegetation from ditches, mowing ditch margins, fence repair, and adjustments to flow control structures. Operation activities consist of setting and checking flows. Estimates of the level of effort necessary for maintenance are adjusted as required by section II.D of the Funding Agreement, which allows that costs for maintenance of ditches, spillgates, and control structures that are above the baseline costs for facilities in the river corridor and Blackrock Waterfowl Management Area (BWMA) shall be shared. The estimated 2015-2016 costs for River corridor and BWMA facilities were \$143,201 and \$196,385 respectively, for an overall 2015-2016 operations and maintenance expenditure of \$339,586. This figure reduced by the combined CPI-adjusted baseline costs for the river corridor and BWMA facilities is \$201,302 (Table 2).

| Table 2. 2015-2016 LORP Operations and Maintenance Budget | | | | | | | | |
|---|------------------------|------------|------------|---------------------|------------------------|-------|----------|---------------------|
| Location/Activity | Labor type | Hours | Labor Rate | Total Labor | Equipment Type | Hours | Rate | Total Equip |
| River | | | | | | | | |
| Measuring Stations Mtc (4 Stations) | Power Shovel Operator | 80 | \$ 46.50 | \$ 3,720.00 | Excavator | 80 | \$ 71.96 | \$ 5,756.80 |
| | Truck Driver | 80 | \$ 37.65 | \$ 3,012.00 | 3 axel dump truck | 80 | \$ 25.92 | \$ 2,073.60 |
| | Operator | 80 | \$ 44.09 | \$ 3,527.20 | ASV Mow er | 80 | \$ 43.74 | \$ 3,499.20 |
| | Building Repair Man | 75 | \$ 40.64 | \$ 3,048.00 | 3/4 ton 4x4 pick- up | 75 | \$ 9.07 | \$ 680.25 |
| | Subtotal | | | \$ 13,307.20 | | | | \$ 12,009.85 |
| Spillgates and Ditches | | | | | | | | |
| Intake Spillgate | | | | | | | | |
| Maintenance | Operator | 40 | \$ 44.09 | \$ 1,763.60 | Bull Dozer | 40 | \$ 70.00 | \$ 2,800.00 |
| | Truck Driver | 54 | \$ 37.65 | \$ 2,033.10 | 3 axel dump truck | 54 | \$ 25.92 | \$ 1,399.68 |
| | MCH | 75 | \$ 35.86 | \$ 2,689.50 | 3/4 ton 4x4 pick- up | 75 | \$ 9.07 | \$ 680.25 |
| Mow ing | Operator | 20 | \$ 44.09 | \$ 881.80 | Mow er | 20 | \$ 11.67 | \$ 233.40 |
| | MCH | 75 | \$ 35.86 | \$ 2,689.50 | 3/4 ton 4x4 pick- up | 75 | \$ 9.07 | \$ 680.25 |
| Cleaning | Power Shovel Operator | 80 | \$ 46.50 | \$ 3,720.00 | Excavator | 80 | \$ 71.96 | \$ 5,756.80 |
| | Truck Driver | 72 | \$ 35.16 | \$ 2,531.52 | 3 axel dump truck | 72 | \$ 25.92 | \$ 1,866.24 |
| | MCH | 75 | \$ 35.86 | \$ 2,689.50 | 3/4 ton 4x4 pick- up | 75 | \$ 9.07 | \$ 680.25 |
| | Subtotal | 491 | | \$ 18,998.52 | | | | \$ 14,096.87 |
| Thibaut Spillgate and Ditch | | | | | | | | |
| Cleaning | Power Shovel Operator | 36 | \$ 46.50 | \$ 1,674.00 | Excavator | 36 | \$ 71.96 | \$ 2,590.56 |
| | Truck Driver | 72 | \$ 35.86 | \$ 2,581.92 | 3 axel dump truck | 72 | \$ 25.92 | \$ 1,866.24 |
| | Subtotal | | | \$ 4,255.92 | | | | \$ 4,456.80 |
| Independence Spillgate and Ditch | | | | | | | | |
| Cleaning | Power Shovel Operator | 135 | \$ 46.50 | \$ 6,277.50 | Excavator | 135 | \$ 71.96 | \$ 9,714.60 |
| | Truck Driver | 270 | \$ 37.65 | \$ 10,165.50 | 3 axel dump truck | 270 | \$ 25.92 | \$ 6,998.40 |
| | Subtotal | | | \$ 16,443.00 | | | | \$ 16,713.00 |
| Locust Spillgate and Ditch | | | | | | | | |
| Cleaning | Power Shovel Operator | 45 | \$ 46.50 | \$ 2,092.50 | Excavator | 45 | \$ 71.96 | \$ 3,238.20 |
| | Operator | 45 | \$ 44.09 | \$ 1,984.05 | Backhoe and trailer | 45 | \$ 27.93 | \$ 1,256.85 |
| | Truck Driver | 45 | \$ 37.65 | \$ 1,694.25 | 3 axel dump truck | 45 | \$ 25.92 | \$ 1,166.40 |
| | Subtotal | | | \$ 5,770.80 | | | | \$ 5,661.45 |
| Georges Ditch | | | | | | | | |
| Cleaning | Power Shovel Operator | 45 | \$ 46.50 | \$ 2,092.50 | Excavator | 45 | \$ 71.96 | \$ 3,238.20 |
| | Operator | 45 | \$ 44.09 | \$ 1,984.05 | Backhoe and trailer | 45 | \$ 27.93 | \$ 1,256.85 |
| | Truck Driver | 45 | \$ 35.86 | \$ 1,613.70 | 3 axel dump trucks | 45 | \$ 25.92 | \$ 1,166.40 |
| | Subtotal | | | \$ 5,690.25 | | | | \$ 5,661.45 |
| Alabama Spillgate | | | | | | | | |
| Cleaning | Power Shovel Operator | 54 | \$ 46.50 | \$ 2,511.05 | Excavator | 54 | \$ 71.96 | \$ 3,885.84 |
| | Truck Driver | 162 | \$ 35.86 | \$ 5,809.32 | 3 axel dump trucks | 162 | \$ 25.92 | \$ 4,199.04 |
| | Subtotal | | | \$ 8,320.37 | | | | \$ 8,084.88 |
| Delta Spillgate | | | | | | | | |
| Maintenance | Building Repair Man | 27 | \$ 40.64 | \$ 1,097.28 | 3/4 ton 4x4 pick- up | 27 | \$ 9.07 | \$ 244.89 |
| | MCH | 54 | \$ 35.16 | \$ 1,898.64 | 3/4 ton 4x4 pick- up | 54 | \$ 9.07 | \$ 489.78 |
| | Subtotal | | | \$ 2,995.92 | | | | \$ 734.67 |
| | River Sub-Total | | | \$75,781.98 | | | | \$67,418.97 |
| Blackrock Waterfowl Management Area | | | | | | | | |
| Blackrock Ditch | | | | | | | | |
| Mow ing | Operator | 225 | \$ 43.23 | \$ 9,726.75 | Mow er | 225 | \$ 11.67 | \$ 2,625.75 |
| | Truck Driver | 450 | \$ 35.16 | \$ 15,822.00 | 2 - 3 axel dump trucks | 450 | \$ 25.92 | \$ 11,664.00 |
| Cleaning | Power Shovel Operator | 260 | \$ 45.58 | \$ 11,850.80 | Excavator | 260 | \$ 71.96 | \$ 18,709.60 |
| | Truck Driver | 270 | \$ 35.16 | \$ 9,493.20 | 3 axel dump truck | 270 | \$ 25.92 | \$ 6,998.40 |
| | Subtotal | | | \$ 46,892.75 | | | | \$ 39,997.75 |

| | | | | | | | | |
|--|-----------------------|-------|-------------|---------------------|----------------------|------|----------|---------------------|
| Goose Lake to River Ditch | | | | | | | | |
| Cleaning | Operator | 45 | \$ 43.23 | \$ 1,945.35 | Backhoe and trailer | 45 | \$ 27.93 | \$ 1,256.85 |
| | Truck Driver | 45 | \$ 35.16 | \$ 1,582.20 | 3 axel dump truck | 45 | \$ 25.92 | \$ 1,166.40 |
| | Subtotal | | | \$ 3,527.55 | | | | \$ 2,423.25 |
| Patrol & Flow Changes | | | | | | | | |
| | A&R Keeper | 2080 | \$ 35.16 | \$73,132.80 | 3/4 ton 4x4 pick- up | 2080 | \$ 9.07 | \$ 18,865.60 |
| Fence Maintenance | | | | | | | | |
| | Building Repair Man | 90 | \$ 39.82 | \$ 3,583.80 | 3/4 ton 4x4 pick- up | 90 | \$ 9.07 | \$ 816.30 |
| | MCH | 180 | \$ 35.16 | \$ 6,328.80 | 3/4 ton 4x4 pick- up | 90 | \$ 9.07 | \$ 816.30 |
| | | | | \$ 9,912.60 | | | | \$ 1,632.60 |
| | BWMA Sub-Total | | | \$133,465.70 | | | | \$62,919.20 |
| | River Total | | | \$143,200.95 | | | | |
| | BWMA Total | | | \$196,384.90 | | | | |
| Total O and M | | | | \$339,586 | CPI Adjusted O and M | | | \$201,301.99 |
| CPI Adjusted Operations and Maintenance | | | | | | | | |
| Baseline Costs (described in Post -Imp) | | River | BWMA | | | | | |
| | CPI adjustment | | \$56,863.00 | \$62,798.00 | | | | |
| | 2006-2007 4.5% | | \$59,421.84 | \$65,623.91 | | | | |
| | 2007-2008 3.1% | | \$61,263.91 | \$67,658.25 | | | | |
| | 2008-2009 -1.3% | | \$60,467.48 | \$66,778.69 | | | | |
| | 2009-2010 0.9% | | \$61,011.69 | \$67,379.70 | | | | |
| | 2010-2011 0.7% | | \$61,438.77 | \$67,851.36 | | | | |
| | 2011-2012 3.0% | | \$63,281.93 | \$69,886.90 | | | | |
| | 2012-2013 2.1 % | | \$64,610.85 | \$71,354.53 | | | | |
| | 2013-2014 0.4% | | \$64,869.30 | \$71,639.94 | | | | |
| | 2014-2015 1.3% | | \$65,712.60 | \$72,571.26 | | | | |

Hydrologic Monitoring

Hydrologic monitoring consists of monitoring, analyzing, and reporting river baseflows and seasonal habitat flows, the flooded extent of the Blackrock Waterfowl Management Area (BWMA), the levels of the Off-River Lakes and Ponds, and baseflows, pulse flows, and seasonal habitat flows to the Delta. Hydrologic monitoring costs are \$124,640 (Table 3).

Table 3. 2015-2016 Hydrologic Monitoring Budget

| | Person days | Labor Costs | Equipment Cost | Budgeted Cost July 1, 2015 through June 30, 2016 | |
|--------------------------|-------------|-------------|----------------|--|--|
| HYDRO OPERATIONS | | | | | |
| River Stations | 36 | \$ 15,480 | \$ 1,440 | \$ 16,920 | |
| Seasonal Habitat | 20 | \$ 8,600 | \$ 800 | \$ 9,400 | |
| Off River Lakes & Ponds | 7 | \$ 3,010 | \$ 280 | \$ 3,290 | |
| Flow to Delta | 1 | \$ 430 | \$ 40 | \$ 470 | |
| Blackrock Waterfowl | 16 | \$ 6,880 | \$ 640 | \$ 7,520 | |
| Reporting Compliance | 24 | \$ 10,320 | \$ 960 | \$ 11,280 | |
| HYDRO MAINTENANCE | | | | | |
| River Stations | 14 | \$ 6,020 | \$ 560 | \$ 6,580 | |
| Off River Lakes & Ponds | 5 | \$ 2,150 | \$ 200 | \$ 2,350 | |
| Flow to Delta | 1 | \$ 430 | \$ 40 | \$ 470 | |
| Blackrock Waterfowl | 8 | \$ 3,440 | \$ 320 | \$ 3,760 | |
| Reporting Compliance | 108 | \$ 48,600 | \$ - | \$ 48,600 | |
| Vegetation Mapping | 40 | \$ 14,000 | \$ - | \$ 14,000 | |

Total Hydro Budget \$124,640

Biological/Water Quality Monitoring

Monitoring, analysis, reporting, and report preparation will be jointly conducted by Inyo and LA with the hours allocated by each agency given in the attached budget table (Table 4).

Biological and water quality monitoring is related to the tasks indicated in the Table 4.01 of the LORP Monitoring and Adaptive Management Plan (MAMP). The number of hours dedicated to water quality monitoring is higher than previous years to reflect the initiation of year-round water quality monitoring. A Rapid Assessment of the river, off-river ponds, and wetlands, will be supplemented by a study looking at the persistence of woody recruitment recorded in all years. Landscape Vegetation Mapping and Avian Census work that was not completed in the first half of the 2015 calendar year (2014-2015 fiscal year) will continue into this fiscal year. Mapping work entails image processing, computer generated mapping, and ground-truthing for map accuracy. Additionally, avian censuses than began in spring 2015 will continue through late summer and fall 2015.

Flooded extent monitoring is being jointly conducted by LADWP and Inyo County staffs, with analysis and reporting being conducted by hydrography staff. The flooded acreage of the BWMA is being measured four times per year by walking the perimeter of the flooded area on foot with portable GPS units.

Inyo staff and LADWP staff will spend 238 people days each on LORP biological and water quality monitoring for a total of 476 people days. There will be no off-setting costs, since work will be shared equally.

Table 4. Biological and Water Quality Monitoring Budget, FY 2015-2016

| Biological and Water Quality | Organization/Class | Days | Inyo Days | LA Days |
|--------------------------------------|--------------------|------------|------------|------------|
| River | | | | |
| Rapid Assessment Survey | LA/WRS | 92 | 72 | 20 |
| | IC/RES ASST | | | |
| Water Quality | LA/WRS | 25 | 10 | 15 |
| | IC/LORP | | | |
| Indicator Species Habitat Monitoring | LA/WRS | 18 | | 18 |
| Landscape Vegetation Mapping | LA/WRS | 108 | 54 | 54 |
| | IC/RES ASST | | | |
| Avian Census | LA/WRS | 36 | 18 | 18 |
| | IC/LORP | | | |
| Creel Census | LA/WRS | 6 | 6 | 0 |
| | IC/LORP | | | |
| Analysis and Reporting | LA/WRS-B | 58 | 31 | 27 |
| | IC/LORP | | | |
| Total Person Days on Task | | 343 | 191 | 152 |
| Blackrock | | | | |
| Waterfowl Area Acreage | LA/WRS-B | 32 | 16 | 16 |
| | IC/LORP | | | |
| Rapid Assessment Survey | LA/WRS | 6 | | 6 |

| | | | | |
|--------------------------------------|----------|------------|------------|------------|
| Indicator Species Habitat Monitoring | LA/WRS | 4 | | 4 |
| Landscape Vegetation Mapping | LA/WRS | 11 | | 11 |
| Wetland Avian Census | LA/WRS | 32 | | 16 |
| | IC/LORP | | 16 | 0 |
| Analysis and Reporting | LA/WRS-B | 6 | | 6 |
| Total Person Days on Task | | 90 | 32 | 59 |
| Delta | | | | |
| Rapid Assessment Survey | LA/WRS | 2 | | 2 |
| Analysis and Reporting | LA/WRS | 2 | | 2 |
| Total Person Days on Task | | 4 | 0 | 4 |
| Off-River Lakes and Ponds | | | | |
| Rapid Assessment Survey | LA/WRS | 2 | | 2 |
| Creel Census | IC/LORP | 1 | 2 | |
| Landscape Vegetation Mapping | LA/WRS | 5 | | 5 |
| Analysis and Reporting | LA/WRS | 1 | | 1 |
| Total Person Days on Task | | 10 | 2 | 8 |
| Annual Report Preparation | | | | |
| Report preparation | LA/WRS-B | 30 | | 15 |
| | IC/LORP | | 15 | |
| Total Person Days on Task | | 30 | 15 | 15 |
| B&WQ Totals | | 476 | 238 | 238 |

Range Monitoring

Range monitoring is related to the tasks described in section 4.6 of the MAMP. Two types of monitoring will take place that are directly related to the management of livestock grazing: irrigated pasture condition scoring and utilization trend. Irrigated pasture condition scoring is a tool used by managers to systematically track the condition of irrigated pastures. Utilization monitoring tracks the amount of biomass removed from non-irrigated fields. Woody species recruitment monitoring was added in September 2010 in order to assess potential livestock influences on regeneration of desirable woody species. Range monitoring will be conducted by LADWP and is not a shared cost, and therefore not budgeted for in this work plan (Table 5).

Table 5. Range Monitoring (LADWP only)

| Task | People Days |
|---|-------------|
| Utilization | 45 |
| Irrigated Pasture Condition | 1 |
| Range Trend | 110 |
| Streamside Monitoring/Woody Recruitment | 32 |
| Analysis and Reporting | 30 |
| Total | 218 |

Mosquito Abatement

For fiscal year 2015-2016, the Owens Valley Mosquito Abatement Program (OVMAP) will continue a comprehensive Integrated Mosquito Management Plan (IMMP) when addressing the new and developing sources within the LORP in accordance with its mission of protecting public health. This IMMP consists of an expansion of currently used materials and methods for the surveillance and control

of mosquitoes across the OVMAP boundary as well as contingency planning for late season flushing flows. The \$60,000 budget anticipates field surveillance of potential larval habitat for mosquito production, larviciding, pupaciding, adult mosquito surveillance with light traps, mosquito borne disease surveillance, and treatment for adult mosquitoes.

Noxious Species Control

The Inyo/Mono Counties Agricultural Commissioner's Office conducts operations to control and eradicate several different invasive weed species within the LORP boundaries. These invasive weed species include *Lepidium latifolium*, *Acroptilon repens*, *Cirsium arvense*, *Centaurea solstitialis*, *Centaurea maculosa*, and *Cardaria draba*. These populations are managed using integrated pest management methods, including mechanical, chemical, and biological controls.

For fiscal year 2015-2016, Inyo County will be responsible for treating weeds in the LORP. The budget for noxious weed control is \$50,000.

Saltcedar Control

The County Water Department's saltcedar control program will concentrate on cutting tamarisk in the tributaries to the Lower Owens River channel and adjacent spreading basins. The purpose of working on the LORP is to reduce the likelihood of spreading saltcedar throughout the Owens River re-watered channel. A top priority for the saltcedar program will be to locate all river sites where tamarisk seedlings and resprouts were identified in the 2014 and the 2015 Rapid Assessment Surveys. Accessible tamarisk will be removed by hand or by cutting and treating with herbicide (where allowed). Additionally, work will begin to remove slash, created by years of cutting in the LORP area.

Saltcedar Control staff includes one permanent employee, one shared employee, and six seasonal field assistants that work on the saltcedar control program during the treatment season, October through April. California Department of Forestry (CDF) work crews, if available, will assist in efforts to treat slash. Monitoring and follow-up treatments by the Saltcedar Project Coordinator will occur during the balance of the year.

LORP saltcedar control activities are funded through agreements outside of the LORP Annual Work Plan, and are therefore not included in the budget presented here.

B. Schedule

Table 6. Proposed Schedule of Monitoring, Maintenance and Reporting Activities for FY 2015-2016

| Period | Monitoring |
|-------------------------------------|--|
| July 1 - October 31, 2015 | BWMA Avian Survey |
| July 8 - July 16, 2015 | Blackrock Waterfowl Management Area (BWMA) Flooded Extent |
| August 3 - August 15, 2015 | Rapid Assessment Survey (RAS) |
| August 17 - August 24, 2015 | BWMA Flooded Extent |
| September 1 - September 9, 2015 | RAS Consultation with MOU Parties |
| September 1- September 30, 2015 | Delta Pulse Flow |
| September 14 - September 22, 2015 | BWMA Flooded Extent |
| October 1 - October 28, 2015 | LADWP/Inyo Prepare Draft LORP Report |
| October 1 - October 28, 2015 | Fiscal Year 2014-2015 Work Plan and Budget Reconciliation |
| October 15 - October 24, 2015 | BWMA Flooded Extent |
| October 31, 2015 | Draft LORP Report transmitted to MOU Consultant |
| October 31, 2015 | Transmittal of LORP Accounting Report to Governing Boards |
| November 1 - November 30, 2015 | MOU Consultant review Draft LORP Report and Develop Recommendations |
| November 1 - December 31, 2015 | Delta Pulse Flow |
| December 1, 2015 | MOU Consultant transmit Adaptive Management Recommendations to Inyo/LA |
| December 7 - December 11, 2015 | Meet with MOU Consultant to Develop Adaptive Management Recommendations for Management |
| December 18, 2015 | Draft Report transmitted to MOU Parties |
| January 6, 2016 | Public Meeting for Draft LORP Report |
| December 1, 2015 – January 31, 2016 | Fiscal Year 2016-2017 Work Plan and Budget Development |
| January 15 – January 20, 2016 | BWMA Flooded Extent |
| February 1 - February 3, 2016 | Technical Group Meeting to Adopt LORP Annual Report and 2016-2017 Fiscal Year Work Plan and Budget |
| February 3 – March 31, 2016 | Transmittal of LORP Work Plan, Budget, and Schedule to governing boards for approval |
| March 1 - May 31, 2016 | Delta Pulse Flow |
| April 15 - April 20, 2016 | BWMA Flooded Extent |
| May 8 - May 13, 2016 | BWMA Flooded Extent |
| May 31 - June 5, 2016 | BWMA Flooded Extent |
| May 15 - June 15, 2016 | Seasonal Habitat Flow |
| June 1 - July 31, 2016 | Delta Pulse Flow |

MOU Consultants Work Plan 2015-16 Budget for LORP MAMP Tasks

TASK 1-----

Seasonal Habitat Flow

The LORP Monitoring and Adaptive Management Plan requires the MOU Consultants to recommend the annual seasonal habitat flow level to the Technical Committee based on the April runoff forecast as described in the FEIR and Ecosystem Management Plan. By agreement, in those years when the runoff forecast is less than 50% of normal, there is no seasonal habitat flow.

Deliverables:

Written recommendation for the Seasonal Habitat Flow based on the April runoff forecast.

Budget:

| | | | |
|--------------------|---|-------|----------------|
| Principal (Hill) | 8 | \$148 | \$1,184 |
| Principal (Platts) | 8 | \$148 | \$1,184 |
| Administration | 2 | \$72 | \$144 |
| Subtotal | | | \$2,512 |

TASK 2-----

Rapid Assessment Evaluation

The MOU Consultants inform the MOU parties as required by the LORP Monitoring and Adaptive Management Plan. The MOU Consultants evaluate results for trends that influence monitoring and adaptive management recommendations for subsequent years.

Deliverables:

Written consultation with MOU Parties following completion of the RAS. This report will be included in the LORP Annual Report.

Budget:

| | | | |
|--------------------|----|-------|----------------|
| Principal (Hill) | 6 | \$148 | \$888 |
| Principal (Platts) | 4 | \$148 | \$592 |
| Senior Associates | 30 | \$100 | \$3,000 |
| Administration | 3 | \$72 | \$216 |
| Subtotal | | | \$4,480 |

TASK 3-----

Creel Census

The creel census tracks the development and health of the fishery and serves to indicate fishing quality. The MOU Consultants will evaluate census results in their adaptive management recommendations. Ecosystem Sciences assumes the responsibility of paying honorariums to anglers participating in the census.

Deliverables:

Written evaluation to be included in the LORP Annual Report discussing Creel Census results reported by the County and City and progress towards meeting LORP objectives and any necessary adaptive management actions. Make payment of \$50 to each angler who returns a completed census form.

Budget:

| | | | |
|--------------------|----|-------|----------------|
| Principal (Hill) | 4 | \$148 | \$592 |
| Principal (Platts) | 22 | \$148 | \$3,256 |
| Administration | 12 | \$72 | \$864 |
| Honorarium | | | \$1,400 |
| | | | \$6,112 |

TASK 4-----

Landscape Vegetation Mapping

Landscape scale vegetation mapping provides a measure of the types of riverine-riparian vegetation that has developed and is critical to evaluating other ecological conditions on a large scale. Finer scale mapping provides more definitive measure of habitat parameters; however, this loss of resolution can be accounted for somewhat if the landscape scale mapping employs an adequate number of vegetation types. The MOU Consultants will review preliminary mapping work.

Deliverables:

Written comments on the preliminary mapping. The MOU Consultants will evaluate the results of the landscape mapping to formulate adaptive management recommendations for the annual report.

Budget:

| | | | |
|-------------------|----|-------|----------------|
| Principal (Hill) | 8 | \$148 | \$1,184 |
| Senior Associates | 34 | \$100 | \$3,400 |
| Administration | 2 | \$72 | \$144 |
| Subtotal | | | \$4,728 |

TASK 5-----

Annual Report Evaluation & Adaptive Management Recommendations

At the end of October, LADWP and ICWD will forward the draft annual report to the MOU Consultants. The MOU Consultants will evaluate the annual report for completeness and accuracy. This requires reviewing each chapter and, in some cases, reevaluating or re-estimating and verifying conclusions.

Following review and evaluation of the draft annual report and consultation with LADWP and ICWD, a final chapter for adaptive management recommendations will be written for the final annual report and submission to the LORP Technical Committee. The MOU Consultants will present the recommendations to the Technical Committee, the MOU parties, decision makers, and the public as required.

Deliverables:

Description of necessary Adaptive Management Recommendations including a discussion of how these recommendations will improve conditions within the LORP. The focus of this deliverable will be on the recommendations themselves and will include references to information provided by the monitoring being conducted by Inyo County and LADWP. The deliverables will come in the form of a simple MS Word Document that does not contain specialized features or protections on the document. AMR must be delivered to Inyo and LADWP by no later than the first Monday in December.

Budget:

| | | | |
|--------------------|-----|-------|------------------|
| Principal (Hill) | 210 | \$148 | \$31,080 |
| Principal (Platts) | 210 | \$148 | \$31,080 |
| Senior Associates | 190 | \$100 | \$19,000 |
| Administration | 50 | \$72 | \$3,600 |
| Subtotal | | | \$ 84,760 |

TASK 6-----

Project Management and Meetings

The MOU consultant will meet with LADWP and ICWD to review progress or discuss issues either in person, or via teleconference. The MOU consultant will manage project assignments, schedules and budgets, conduct team meetings, administer the contract and workload, and provide progress reports to ICWD as needed, budget assessment and invoice each month and work items that may not be identified in other tasks delineations. In addition, this task requires the MOU consultants to prepare for meetings, travel, and attend meetings with the Scientific Team and MOU Parties to discuss progress towards meeting the LORP objectives.

Budget:

| | | | |
|--------------------|-----|-------|-----------------|
| Principal (Hill) | 70 | \$148 | \$10,360 |
| Principal (Platts) | 39 | \$148 | \$5,772 |
| Senior Associates | 148 | \$100 | \$14,800 |
| Administration | 46 | \$72 | \$3,312 |
| Subtotal | | | \$34,244 |

EXPENSES-----

Budget:

| | | | |
|--|----|-------|-----------------|
| Travel (Mileage 1500/trip @ \$0.56/mi) | 3 | \$840 | \$2,520 |
| Lodging | 14 | \$150 | \$2,100 |
| Per Diem | 14 | \$85 | \$1,190 |
| Expenses Subtotal | | | \$ 5,810 |

Total MOU Consultants Budget: \$142,646

Section 2. Adaptive Management Measures

No adaptive management recommendations require additional budget considerations this fiscal year.