

**6. STATUS OF OTHER STUDIES, PROJECTS, AND ACTIVITIES**

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Table 18 lists the Water Agreement provisions and their respective status. Table 19 lists the MOU provisions and their respective status. Table 20 lists the Cooperative Studies Matrix provisions and their respective status. Table 21 lists the revegetation projects, progress to date, and proposed future work. Tables 22 and 23 detail the mitigation and monitoring projects in the Laws and Big Pines areas, respectively.

### **6.1 Irrigation Project in the Laws Area 2004 Progress Report**

#### ***Seed Collection***

On February 6, 2003 Comstock Seed of Gardnerville, Nevada, was contacted regarding the collection of native Owens Valley seeds to be used for the establishment of the seed farm at Laws. February 10, 2003, a list of 41 species was given to Ed Kliener of Comstock Seed in order to determine the level of experience that his company had collecting them and an estimated cost for each. Based on past experience with seed availability, viability, and clean out, the list was reduced to 12 species. The final price quote was received on February 25, 2003.

On March 13, 2003 the purchase request for 12 species was submitted to the LADWP purchasing office. The contract was placed on LADWP's BidNet system on March 22, 2003. The final contract with Comstock Seed was approved on May 19, 2003.

On May 21, 2003 LADWP met Ed Kliener, owner of Comstock Seed, regarding possible collection sites for seeds of the requested species. Seed collection began that same week.

On November 21, 2003 Comstock Seed delivered seeds for 12 of the collected species to Bishop.

In May 2004 a new contract was awarded to Comstock Seed for additional seed collection. The species list was expanded. Seed collection was performed from May through the fall of 2004. A total of 18 species of plant seed were collected. Seed collection will continue in 2005.

#### ***Plant Propagation***

In early September 2003 Ed Kliener called in with a progress report on the seed collection. He recommended that the Agriculture Department at Victor Valley Community College be contacted regarding growing out some of the shrub species for transplantation at the seed farm. On September 15, 2003 Jonathan Cook, the chairman of the Agriculture Department, was contacted. Mr. Cook indicated that there was an interest in working together to grow out the desired species.

On October 2, 2003 LADWP staff met with representatives of Victor Valley College and toured their green house and plant propagation facility. On October 6, 2003 a contract was established with Victor Valley Community College. The contract with Victor Valley

Community College specifies that they are to grow out and deliver to LADWP 2,500, 2-gallon containerized plants, each year for the next three years.

On November 26, 2003 seeds were delivered to Victor Valley College to begin propagation. On September 21, 2004 LADWP took delivery of 2500 plants. The species propagated included Winterfat (*Krascheninnikovia lanata*), Mormon Tea (*Ephedra nevadensis*), Spiny Hopsage (*Grayia spinosa*), Indigo Beauty (*Psoralea polydenius*), and Indigo bush (*Psoralea arborescens*).

In July 2004 seed was sent to Victor Valley College for propagation of additional plants. LADWP took delivery of 1100 plants on March 22, 2005.

### **Seed Farm**

Between July 17 and July 19, 2003 the initial weed treatment was applied to Parcel LAW027. An LADWP crew applied 2,4-D to the entire area to control Russian thistle. Treatments will resume in the spring of 2004.

In January 2004 the complete specification to purchase solid set sprinkler systems for seed farm, and Laws Museum Project will be completed. These systems were purchased in the late winter and installed and tested in the spring with the goal of having the system running for the 2004 irrigation season.

During the winter and spring of 2004 the seed farm parcel was burned for weed control. The seed farm was irrigated in July, 2004 to promote weed growth. This was followed by spraying of an herbicide to eradicate the newly emerged weeds.

On September 7, 2004, 20 acres of the seed farm was seeded with Indian Ricegrass (*Achnatherum hymenoides*) using a range drill. This area was sprinkled using sixteen irrigation lines at two lines at a time for 45 minute sets that were run from 4 a.m. to 10 p.m., 7 days a week. On September 28, 2004 the water application was reduced to 30 minute sets twice a day, conducted 6 days a week. This irrigation schedule continued until November 1, 2004. Irrigation was initiated March 21, 2005 for the growing season.

On September 21, 2004, LADWP took delivery of 2500 plants from Victor Valley College. These plants were placed in cold frames to harden them off prior to planting. October 29 and 30, 2004 a drip irrigation system was installed at the seed farm to accommodate the plants. November 1 to 3, 2004, the 2500 tubelings were planted utilizing 12 to 15 LADWP personnel. Holes were dug and filled with water prior to planting. In addition, all plants received 2 hours or more of water applied by the drip irrigation system. Very high winds that occurred near the end of November caused significant damage to the above ground portions of the plants. Hopefully this damage did not permanently damage the plants. Irrigation was initiated March 21, 2005 for the growing season.

In January 2005 10 acres of the seed farm was seeded with Needlegrass (*Achnatherum speciosum*). This seed was planted using the range drill. Irrigation was not provided at the

time of planting because of abundant winter precipitation. Irrigation was initiated March 21, 2005 for the growing season.

On March 22, 2005, LADWP took delivery of 1100 plants from Victor Valley College. These plants were placed in cold frames to harden them off prior to planting. April 5 and 6, 2005, the 1100 tubelings were planted utilizing 12 to 15 LADWP personnel. Holes were dug and filled with water prior to planting. In addition, all plants received 2 hours or more of water applied by the drip irrigation system. Victor Valley College will continue to grow plants for transplant into 2006.

### ***Center Pivot Systems***

On April 11, 2003 the bid specifications for the center pivot irrigation systems was posted on LADWP's BidNet system. Bids were closed on April 24 and the contract was awarded to Great Basin Irrigation of Fishlake Valley, Nevada, on June 1, 2003.

Assembly of the irrigation systems began in early September 2003. Assembly was complete in mid October 2003. During September and October, 2003, installation of 12" steel pipe mainline and 8" plastic lateral pipelines to pivots was completed. During October and November, risers and valves on 8" plastic lateral pipelines were installed.

During the late winter and early spring of 2004 the final assembly of the pivot systems was checked and all water lines flushed in preparation for the upcoming irrigation season. All necessary bridges required for ditch and canal crossing were installed and the pivots were tested. The areas under the two wiper pivots were seeded in the spring of 2004. The north full pivot was fully seeded by midsummer 2004. The south full pivot has been  $\frac{3}{4}$  seeded with the rest to be seeded by the spring of 2005. All the fields were treated for weeds in the spring of 2005.

### ***Lease RFP***

In February 2003 an RFP was prepared and advertised to solicit proposals for ranch management for the portion of the Laws Ranch north of Silver Canyon Rd. The 4J Cattle Company submitted the successful proposal. Irrigation was initiated by 4J on the flood-irrigated pastures in June of 2003.

The portion of the Laws Ranch located south of Silver Canyon Rd. was included in the Cashbaugh Ranch lease. Those areas designated as flood irrigated were irrigated in 2003 with the exception of the portion of parcel LAW118 that was recently added to the lands to be irrigated.

## **6.2 Mitigation Monitoring Report for the Irrigation Project in the Laws Area**

See Table 22 for the Mitigation Monitoring Program for the Irrigation Project in the Laws Area.

### ***Mitigation Measure M-1***

Impact: Creation of dust during pipeline installation and ground preparation for planting.

Measure: Ground surfaces will be thoroughly wet prior to and during work to minimize dust.

As a condition of CEQA for the Laws Type E Vegetation Transfer, LADWP is responsible for controlling weeds on this parcel. During field preparation which occurred between May and July 2004, the Department utilized a flame treatment for weeds rather than disking the area for weed control prior to planting. Flaming is recognized as a no-tilling alternative for weed control. Non-tillage is a widely accepted agricultural dust control measure. Irrigation was begun on the site in July at the completion of the weed flaming.

In addition to using a no-till alternative for weed control, LADWP utilized a Truax, no-till drill seeder to seed approximately 26 percent of the Seed Farm that was seeded to grasses in September. Non-tillage seeding is also recognized as a dust control measure. Further, as soon as seeding operations were completed, sprinkler irrigation was initiated with irrigation occurring 18 hours a day seven days a week until November 5, 2004 when weather conditions necessitated the irrigation system be winterized.

Within the area that was planted to shrubs, which represents approximately 30 percent of the total Seed Farm area, no large-scale tillage occurred and no tillage occurred until after the irrigation system for the area was installed and operational. The only soil disturbance that occurred was the use of a small auger to create a suitable bed for the over 2,500 plants that were transplanted. Further, the drip irrigation system, which represents another soil conservation management practice, was used each day as planting was completed, and the entire irrigation system was operated at the conclusion of planting for one week not being shut down until November 5 when all work at the site was concluded.

Finally, as work was being conducted on the project between May and November 2004, water trucks were used to control dust on roadways, work areas, and storage areas. This mitigation measure was adopted in the CEQA for the Laws Type E Vegetation Transfer described above.

### ***Mitigation Measure M-2 and M-3***

Impact: Groundwater pumping to supply water to the project could adversely affect groundwater dependent vegetation in the vicinity of the project and cause blowing dust.

Measure: Department of Water and Power on a Long Term Ground Water Management Plan in the Owens Valley and Inyo County (the Water Agreement).

Tables A illustrates the vegetation cover in vegetation parcels within the Laws well field as determined by the ICWD Water Department. Data from 2002 and 2003 indicate estimates of vegetation cover in the parcels prior to implementation of the Irrigation Project in the Laws Area. Data from 2004 are estimates of vegetation cover after the first year of implementation of the Irrigation Project in the Laws area.

Table B illustrates the depth to water in Laws area test holes prior to, and after the first year of implementation of the Irrigation Project in the Laws area.

Table A. Vegetation cover in selected parcels within the Laws well field.

Parcel	Percent Perennial Cover		
	2002	2003	2004
LAW030	19.5	nd	20.5
LAW035	nd	3.1	1.6
LAW043	nd	3	2.4
LAW052	2.3	2.9	3.9
LAW062	2.8	4.7	3.3
LAW063	3.7	6.3	5.4
LAW065	3.3	2.9	2.1
LAW070	nd	1	1.6
LAW078	36.2	31.8	27.1
LAW082	2.1	3	4.4
LAW085	7.1	9.8	7.7
LAW107	37.6	43.9	38.2
LAW112	12.9	25.1	15.8
LAW120	17.6	24.3	21
LAW122	59	54.8	47.8
LAW137	17	20.3	13

Table B. Depth to water for test holes in the Laws well field.

Well	April 2004	April 2005
T107	30.1	31.9
T436	10.1	10.2
T438	11.6	8.9
T490	14.6	14.7
T492	32.1	31.5

**Mitigation Measure M-4**

Impact: Reducing the irrigation duty from 5 acre-feet per acre to 3 acre-feet per acre and of changing from flood irrigation to sprinkler irrigation.

Measure: Water Agreement

LADWP and the Laws Ranch Lease lessee will jointly determine irrigated field, pasture, or area vegetation condition using the Natural Resource Conservation Service Pasture Condition Assessment (Attachment 1). This protocol, once followed, is designed to optimize plant and livestock productivity while minimizing detrimental effects to soil or water resources.

Pasture condition scoring involves the visual evaluation of 10 indicators each having five environmental conditions (Cosgrove, et al. 1991). Each indicator is rated separately and the scores are combined into an overall score for the pasture. The overall score for a pasture can then be divided by the total possible score to give a percent rating (overall score ÷ total possible score × 100 = percent rating). Not all 10 indicators may be appropriate for use in every pasture. In this case, using less than 10 indicators will reduce the possible score, but the percent rating will still be comparable. Irrigated pastures on the Laws Ranch Lease will be evaluated after the area has been seeded and irrigated for at least 3 growing seasons in order to allow the seeded pasture mix to become fully established.

#### ***Mitigation Measure M-5***

Impact: Altering the flow in a ditch that carries water diverted from Coldwater Canyon.

Measure: Water Agreement

Between October 1994 and June 2004, there were no flow diversions from Cold Water Canyon Ditch. In June 2004, periodic flow reductions in Cold Water Canyon Ditch occurred as the irrigation system for the Laws Seed Farm were being installed. Beginning in July and extending into the first week of November 2004 the irrigation system was fully operational on the Laws Seed Farm. During operation, approximately 1/4th of the total flow remained in the ditch. The entire flow resumed in November 2004 and remained until April 1, 2005.

Periodic examinations were conducted along the ditch throughout the growing season. These examinations did not indicate any signs of vegetation stress. Photo points have been established along the ditch.

#### ***Mitigation Measure M-6***

Impact: Altering the flow in Silver Canyon Ditch.

Measure: Water Agreement

There were no diversions from Silver Canyon Ditch during the 2004 monitoring period. Photo points have been established along the ditch.

***Mitigation Measure M-7***

Impact: Growth state listed A or B noxious weeds in the project area.

Measure: LADWP or its lessee or lessees, in conjunction with Inyo County's weed abatement program, will promptly treat or remove the weed

Surveys were conducted on the Irrigation Project in the Laws Area for noxious weeds during the 2004 growing season. No A or B listed noxious weeds were found. Weed control on the project consisted of flaming and herbicide treatments were conducted on the parcels identified for revegetation on the Irrigation Project in the Laws Area. The lessee treated weeds through a combination of grazing, mowing, and burning

***Mitigation Measure M-8***

Impact: Archaeological investigations identified six previously unrecorded archaeological sites and 11 isolates within the project area.

Measure: Pipeline placement was to avoid identified sites; if new sites are encountered during implementation, work will be halted until an archeologist can be consulted.

No cultural resources were encountered during construction or operation of the Irrigation Project in the Laws Area.



**TABLE 18  
Agreement Provisions**

Title	Provision	Status
Groundwater Management	LADWP and Inyo County are to manage water resources within Inyo County to avoid certain described decreases and changes in vegetation and to cause no significant effect on the environment which cannot be acceptably mitigated while providing a reliable supply of water for export to Los Angeles and for use in Inyo County	By agreement of the Standing Committee, implementation of groundwater management, pursuant to the Agreement, commenced in the fall of 1989.
New Wells & Production Capacity	In order to provide for increased operational flexibility and to facilitate rotational pumping, LADWP may replace existing wells and construct new wells in areas where hydrogeologic conditions are favorable and where operation of such wells will not cause a change in vegetation that would be inconsistent with the agreement. The agreement and EIR describe 15 new wells that LADWP proposes to construct in the Owens Valley.	LADWP has constructed 6 replacement wells on Bishop Cone and one of the 15 new wells allowed under the Water Agreement. The new well is located in Lone Pine. The Technical Group must establish management for the well before it can be operated. Currently, LADWP is planning to construct 1 new well on the Bishop Cone. LADWP has abandoned or converted to monitoring wells 13 previously replaced wells.
Groundwater Pumping on the Bishop Cone	Before LADWP may increase groundwater pumping on the Bishop Cone, or construct new wells on the Cone, Inyo County and LADWP are to develop an audit procedure for determining the exact amount of water annually used on LA-owned land on the Cone. LADWP pumping on the Cone must be in strict adherence to the provisions of the "Hillside Decree."	The Standing Committee has adopted the Bishop Cone audit procedure. The audit has been conducted since 1996. In 1998, a Superior Court judge entered a "Memorandum of Judgment" in Matlick v City of Los Angeles which reaffirmed LADWP's pumping practices on the Bishop Cone.
Groundwater Recharge Facilities	LADWP may construct groundwater banking and groundwater recharge facilities in the County. The EIR describes certain groundwater recharge facilities in Laws, Big Pine, and Rose Valley	LADWP has not proposed construction of groundwater recharge facilities in Laws, Big Pine, or Rose Valley.
Cooperative Studies	LADWP may provide funding for the costs of conducting studies related to the effects of groundwater pumping on the environment of the Owens Valley	Studies approved by the Standing Committee are underway. See Cooperative Studies Table.
Enhancement/ Mitigation Projects	All existing E/M projects will be maintained, unless the Standing Committee agrees to modify or discontinue a project, and new projects may be implemented if approved by the Standing Committee. The agreement provides that E/M projects will continue to be supplied by E/M wells unless otherwise agreed.	All E/M projects that have been implemented are being maintained. It is planned to supply approximately 20,000 acre-feet of water to these projects in 2005-2006. The Standing Committee decided in 1991 to reduce the water commitment to the McNally Ponds Project. The Laws Museum Project is 60% complete, the Independence Springfield is 95% complete, the Regreening Northeast of Big Pine has not been implemented, and the Independence Regreening has not been implemented. The Laws Museum Project water supply is being changed to a well and sprinkler system, sprinkler system design

Title	Provision	Status
		was completed in 2004 and implementation is planned for 2005. Staff from LADWP and the County are working on plans and schedules for the Regreening Northeast of Big Pine and the Independence Regreening projects; LADWP sent Mitigation Plans for these projects to ICWD in August, 2004, CEQA documents were completed by LADWP for the Independence Regreening Project and submitted in September, 2004. The Board of Water and Power Commissioners approved the project in May 2005.
Town Water Systems	LADWP will transfer to Inyo County, or another Owens Valley public entity or entities, ownership of the water systems in the communities of Lone Pine, Independence, and Laws. Prior to transferring the systems, evaluations of each system will be performed by a mutually agreed upon consultant, and if necessary, work will be done to upgrade the systems. LADWP will provide free water, up to specified amounts for each town.	The County contracted with a private company to assume the operation, maintenance and billing for the systems in July 1999. Pursuant to an agreement with LADWP, the County completed upgrades of the systems in December 2002, using \$2.6M in funds provided by LADWP. LADWP is in the process of transferring ownership of the systems to the County.
Lower Owens River	See MOU table	See MOU table
Lower Owens River Project	Los Angeles will pay the costs of implementing the project. The County will repay Los Angeles one half of the project costs up to maximum of \$3.75 million. Any funds provided for the project from sources other than Los Angeles will be an off-set against the County's repayment obligation. Los Angeles will pay the annual costs of operating pumpback system. The County and Los Angeles will each pay one half of the other costs of the project.	To date, the County has obtained approximately \$5.5 million from the Federal government to offset the costs of implementing the project. LADWP has obtained \$862,200. The County is seeking additional funds for the project.
Haiwee Reservoir	Inyo County and LA will develop a recreational plan for South Haiwee. The recreation plan will be implemented and operated by the County or a concessionaire...Any plan must take into account Los Angeles' operating and security needs	A recreational plan has not been developed. A security audit was performed following the September 11, 2001 incident. This audit concluded that due to a potential security threat to a municipal water source, Haiwee Reservoir should be closed to the public. CEQA documentation (Negative Declaration) was filed to close Haiwee Reservoir on December 16, 2004.
Salt Cedar Control	LADWP is to provide funding to Inyo County to implement a Salt Cedar Control Program: \$750,000 during the first three years of the program; thereafter, \$50,000 per year (adjusted upward or downward in accordance with the consumers' price index).	LADWP initiated payments and ICWD initiated the Salt Cedar Control Program in 1997. LADWP has paid Inyo County \$1,016,300 since 1997 under this provision of the Agreement. Salt cedar populations have been cut, treated and mapped from north of Bishop to south of Independence. During the past few years, the program has focused its efforts on the Lower Owens River channel. In 2004, LADWP

Title	Provision	Status
		provided \$56,000 in 2004 for salt cedar control, and the balance of the program was funded from a Wildlife Conservation Board (WCB) grant for \$490,000 obtained by the County working in cooperation with LADWP. Approval for a second grant from the WCB for \$560,000 was received in February 2004. In February 2004 LADWP agreed to match the amount of grant monies the ICWD received up to \$1.5 million. Currently, Proposition 50 Funds are being sought jointly by LADWP and ICWD for treatment of salt cedar and other weeds.
Park Rehabilitation, Development, & Maintenance	During the 10-year period following entry of the Stipulation and Order, LADWP is to provide up to \$2 million to Inyo County to rehabilitate existing County parks and campgrounds and to develop new recreational facilities. LADWP is to make an annual payment of \$100,000 (Adjusted upward or downward in accordance with the consumers price index) to Inyo County to maintain existing and new recreational facilities.	At Inyo County's request, LADWP provided \$405,000 for park rehabilitation in September 1999 and \$498,000 in 2000 along with subsequent payments for a total of \$1,162,900 for capitol improvements. Los Angeles has provided the annual payment to the County for parks operation and maintenance activities for a total of \$882,600. LADWP has paid Inyo County a total of over \$2,045,500 since 1997 under this provision of the Agreement
Owens River Recreational Use Plan	As part of the parks rehabilitation program, Inyo County may develop a plan for recreational use and management of the Owens River from Pleasant Valley Reservoir to the Owens River delta as one of the programs to be funded by LADWP under the provisions of the Agreement concerning Park Rehabilitation, Development, & Maintenance.	Recreation in the Lower Owens River Project area will be addressed in the LORP EIS/EIR. The County does not currently plan to develop a recreation plan for the river from Pleasant Valley to the aqueduct intake.
Financial Assistance for Water-Related Activities	LADWP is to make an annual payment to Inyo County to assist the County in funding water and environmentally-related activities. The annual payment is to be adjusted upward or downward each year in accordance with the consumer's price index	Los Angeles has provided annual payments to Inyo County, and provided \$1,119,800 in July 2004. Funds provided by Los Angeles have been expended to fund the County Water Department. LADWP has paid Inyo County over \$17M since 1988 for this purpose.
General Financial Assistance to the County	LADWP is to make an annual payment to Inyo County to assist the County in providing services to its citizens. The annual payment is to be adjusted upward or downward each year in accordance with a formula in the State Constitution for an assessment of Los Angeles-owned property in Inyo County.	Los Angeles has provided annual payments to Inyo County, and provided \$2,068,300 in 2004. Funds provided by Los Angeles have been deposited into the County General Fund and expended on County services as directed by the Board of Supervisors. LADWP has paid Inyo County almost \$22.6M since 1991 for this purpose.
Big Pine Ditch System	LADWP is to provide up to \$100,000 for reconstruction and upgrading of the Big Pine ditch system. LADWP is to supply up to 6 cfs to the ditch system from a new well to be constructed west of Big Pine.	The Standing Committee approved procedures and guidelines for implementing the project in 1998. A Mitigated Negative Declaration has been completed. The Inyo/LA Water Agreement has been modified to provide a reliable water supply for the project. The Big Pine Irrigation and Improvement Assoc. has prepared plans for the project. An agreement was signed in

Title	Provision	Status
		December for funding construction and operations and maintenance. Construction is underway and LADWP has provided \$54,000 of the committed \$100,000 for Phase 1 of 4 Phases. A well will be installed by LADWP in Bell Canyon to provide water for the project
Park & Environmental Assistance to City of Bishop	LADWP is to make an annual payment to the City of Bishop to assist the City in maintaining its park and for other environmentally-related activities. The payment of \$125,000 is to be adjusted upward or downward each year in accordance with the consumers' price index. Inyo County shall make an annual payment to the City of Bishop in an amount equal to the payment made by LADWP.	Los Angeles has provided annual payments to the City of Bishop, and provided \$150,200 in 2004. LADWP has paid the City of Bishop \$1,178,100 since 1997 for this purpose. The County has made its required payment under this section of the agreement.
Release of City-Owned Lands	Los Angeles is to sell 26 acres of surplus LA-owned land within the Bishop city limits; and LADWP is to release for sale 75 acres of LA-owned land for public or private development	LADWP has sold the 26 acres within Bishop. Inyo County staff is working with LADWP to determine which parcels of the 75 acres will be sold, and to set a schedule for the phased release of these lands. LADWP and Inyo County have agreed on the lands to be released for phase 1. LADWP is waiting for Inyo County to complete the required CEQA documentation required for this release.
Additional Sales of City-owned Lands	LADWP will negotiate in good faith for the sales of additional surplus Los Angeles-owned land in or near valley towns for specific identified needs. Any such sales are to occur subsequent to those described above.	LADWP periodically examines its land inventories to determine additional properties to be sold at auction as surplus. Currently 75 acres have been identified to be released and sold at auction.
Lands for Public Purposes	Los Angeles will negotiate in good faith for the sale or lease to the County of any Los Angeles-owned land requested by the County for use as a public park or for other public purposes.	LADWP and the County successfully transferred ownership of the Lone Pine Film Museum. LADWP has agreed to lease additional land to the County for the Dehy Park expansion project in Independence. The park lease area will be expanded from 1.3 acres to about 4 acres. In 2004 LADWP agreed to lease 4.4 additional acres of land to the City of Bishop for expansion of the Bishop City Park. In addition, LADWP is discussing possible expansion of the Bishop Airport with Inyo County
Withdrawn Lands	Inyo County will support passage of withdrawn land legislation pertaining to federally-owned lands in the County.	There is no withdrawn land legislation pending.
Legislative Coordination	Except under certain circumstances, LADWP and Inyo County are to refrain from seeking or supporting any legislation, administrative regulation, or litigation that would weaken or strengthen local or state authority to regulate groundwater or that would affect any provision of the agreement.	The legislative coordination policy has somewhat been followed.
Dispute Resolution	The agreement provides a process for resolving disputes between LADWP and Inyo County	Issues concerning annual pumping programs and operation of the McNally Canals have been

<b>Title</b>	<b>Provision</b>	<b>Status</b>
	regarding issues related to the agreement or the Green Book.	addressed utilizing the dispute resolution procedures.

**TABLE 19**  
**MOU Provisions**

Title	Provision	Status
Lower Owens River Project (LORP)	A project to rewater approximately 60 miles of the Owens River channel below the aqueduct intake, the enhancement of several environmental features along and near the river, and the return of water to the aqueduct by means of a pumpback facility near the Owens River delta. The LORP is also identified in the EIR as compensatory mitigation for impacts that occurred between 1970 and 1990 that were considered difficult to quantify or mitigate directly. The LORP, as described in the long-term agreement and the EIR, is augmented by the provisions of the MOU. The four physical features of the LORP are listed below:	See Table 16, "1991 EIR Mitigation Measures" (Impact #10-14), and Table 17, "Agreement Provisions."
LORP, Item 1	1. The Lower Owens River Riverine-Riparian System. A continuous flow will be established and maintained in the river channel from at or near the intake structure which diverts the Owens River into the Los Angeles Aqueduct to a pumpback system located near the river delta that will return water the L.A. Aqueduct. The baseflow in the river channel will be approximately 40 cfs. In average and above runoff years, there will be "seasonal habitat flows" of approximately 200 cfs, with reductions of the habitat flows in years when runoff is forecasted to be less than average.	
LORP, Item 2	2. The Owens River Delta Habitat Area. This feature provides for the enhancement and maintenance of approximately 325 acres of existing habitat and the establishment and maintenance of new habitat consisting of riparian areas and ponds suitable for shorebirds, waterfowl and other animals. An annual average of approximately 6 to 9 cfs will be released below the pumpback system to supply this area.	
LORP, Item 3	3. Off-River Lakes and Ponds. Off-river lakes and ponds in the LORP area will be maintained and/or established through flow and land management to provide habitat for fisheries, waterfowl, shorebirds and other animals. These	

Title	Provision	Status
	habitats will be as self-sustaining as possible.	
LORP, Item 4	4. The 1500-Acre Blackrock Waterfowl Habitat Area. In average and above runoff years, approximately 500 acres within an overall project area of 1500 acres will be flooded to provide habitat for resident and migratory waterfowl and other native species. In years when the runoff is forecasted to be less than average, the water supply to the area will be reduced in general proportion to the forecasted runoff in the watershed.	
LORP (cont)	see Table 17, Agreement Provisions.”	
LORP (cont)	LADWP and the County will direct and assist Ecosystem Sciences, Inc. in the preparation and implementation of a management plan for the LORP area that addresses each of the four physical features of the LORP. The parties to the MOU, government agencies, LADWP ranch lessees, and the public will be consulted as the plan is developed.	Ecosystem Sciences has prepared a draft management plan for the project.
LORP (cont)	LADWP as the lead agency, and the County as responsible agency will jointly prepare an EIR on the LORP. A draft EIR was to be released by June of 2000, but the deadline has been extended by the MOU Group. A final EIR will be completed as soon as possible following release of the draft.	This project required an EIR. The Draft EIR/EIS was released November 1, 2002. The public comment period concluded January 14, 2003. The EIR was approved by the Board of Water and Power Commissioners in July 2004. As of March 2005, Inyo County Board of Supervisors have not approved the EIR. The Environmental Protection Agency (EPA) and the Army Corps of Engineers (ACOE) will produce an EIS acceptable to EPA. (The EIS is being pursued because of EPA grant funding.) LADWP and ICWD will review and comment on draft versions. Upon the EIS completion anticipated to be in January 2006, LADWP will decide whether to pursue EPA funding. The decision will be based upon how closely the EIS project description reflects the approved EIR's project description. When the EIS is complete LADWP should have all the necessary permits for implementation, except for the Army Corps 404 permit which requires a completed EIS.
LORP (cont)	The baseflow in the river channel will be commenced not later than June 2003 unless circumstances beyond LADWP's control prevent the completion of the	The Draft EIR/EIS stated that the baseflow would not commence on June 13, 2003. The drafting of a Final EIR/EIS is underway and was completed

Title	Provision	Status
	pumpback system and/or the commencement of baseflow. Implementation of the other features of the LORP will commence upon certification of the LORP EIR.	by June 2004 per the February 13, 2004 Stipulation and Order. The amended schedule in the stipulation and order calls for baseflow to be commenced and fully implemented by April 2006.
Yellow-Billed Cuckoo Habitat	Under the direction of LADWP and the County, Ecosystem Sciences, Inc. will evaluate Yellow-billed Cuckoo habitat in riparian woodland areas of Hogback and Baker Creeks. Based on the evaluation, if deemed warranted, habitat enhancement plans for these areas will be developed by Ecosystem Sciences, Inc. in consultation with LADWP, the lessee for the area and the parties to the MOU. The evaluations were to be completed within 36 months of the discharge of the writ, but the deadline has been extended by the MOU Group. Actions or projects recommended by this evaluation will be presented to the Board of Water and Power Commissioners for approval and implementation. If approved by the Board of Water and Power Commissioners, Habitat enhancement plans will be implemented as expeditiously as feasible.	Ecosystem Sciences completed a Yellow-billed Cuckoo (YBC) habitat plan in April 2005. LADWP is completing the CEQA document. It will then be presented to the Board of Water and Power Commissioners for their consideration.
Inventories of Plants and Animals at Springs and Seeps (within the LORP Planning Area)	Within 36 months of the discharge of the writ, an inventory of plants and animals at wetlands associated with springs and seeps was to be conducted by Ecosystem Sciences, Inc. The deadline has been extended by the MOU Group.	The deadline for completion of the inventories was extended to December 2000 and then to July 2001 by the MOU parties. No further extensions have been granted. ESI completed and submitted results of its inventory to the MOU parties in June 2001. ESI has completed this work.
Additional Mitigation	A total of 1600 acre feet of water per year will be supplied by LADWP for the implementation of on-site mitigation measure at Hines Springs identified in the EIR and on-site or off-site mitigation that is in addition to the mitigation measures identified in the EIR for impacts at Fish Springs, Big and Little Seely Springs and Big and Little Blackrock Springs. Under the direction of LADWP and the County, Ecosystem Sciences, Inc., will recommend reasonable and feasible on-site and/or off-site mitigation measures, including the implementation of mitigation at Hines Springs. Projects recommended	The MOU parties agreed to extend the deadline for completion of ESI project recommendation first to November 2000, then to September 2001 and has now extended it to January 14, 2005. ESI has completed a revised work plan for the Hines Spring project and the additional mitigation. Currently, the project is on hold waiting for reports from ESI's subconsultant.



Title	Provision	Status
	<p>by these studies and evaluations will be presented to the Board of Water and Power Commissioners for approval and implementation. The mitigation measures are to be implemented by LADWP and maintained by LADWP and/or the County. The measures were to be implemented within 36 months of the discharge of the writ, but the deadline has been extended by the MOU Group.</p>	
Owens Valley Management Plans	<p>LADWP, in consultation with the parties to the MOU and others, is to identify areas of Los Angeles-owned land, which are not included in the LORP planning area, and develop plans for the identified areas to remedy problems caused by livestock grazing and other uses of the land. Priority will be given to riparian areas, irrigated meadows and sensitive plant and animal habitats. The plans will provide for the continuation of sustainable uses (including recreation, livestock grazing, agriculture, and other activities) will promote biodiversity and a healthy ecosystem, and will consider the enhancement of threatened and endangered species habitats. LADWP, working with Ecosystem Sciences, Inc. will commence the planning effort within 5 years, and plans are to be completed within approximately 10 years. Each plan will contain an implementation schedule and will be implemented in compliance with CEQA. As plans become final, they will be presented to the Board of Water and Power Commissioners for approval and implementation.</p>	<p>ESI has completed draft land management plans for Los Angeles land within the LORP area. Ecosystem Sciences and LADWP personnel are currently developing the land management plans for all of LADWP lands in Inyo County. At the current rate of plan development, this task should be completed well ahead of schedule.</p>
Inventories of Plants and Animals at Springs and Seeps (outside the LORP Planning Area)	<p>Within 36 months of the discharge of the writ, an inventory of plants and animals at wetlands associated with springs and seeps was to be conducted jointly by LADWP and the County on lands owned by the City of Los Angeles within the portion of the Owens River watershed located in Inyo County that is not included in the LORP Planning Area.</p>	<p>LADWP has completed data collection for spring and seep discharge. LADWP had Ecosystem Sciences, Inc. complete the inventory of plants and animals.</p>
Type E Vegetation	<p>By December 1999, LADWP and the County are to develop baseline conditions for management of vegetation classified as Type E in the long-term</p>	<p>The inventory of Type E Vegetation was conducted by Resource Concepts, Inc. (RCI) under a contract administered by Inyo County and funded by LADWP.</p>

Title	Provision	Status
	agreement. These conditions will be adopted by the Standing Committee.	The final report on the inventory was completed in December 1999.
Aerial Photo Analysis	By June 2000, LADWP, the County and experts in aerial photography interpretation were to conduct a study analyzing existing air photos of the Owens Valley to evaluate the merits of using air photos in monitoring vegetation in the valley, to determine the feasibility of using air photos to analyze and refine the vegetation map data base, and to provide recommendations on how aerial photography, or other remote sensing techniques, could be used to monitor vegetation conditions and changes. If feasible and cost-effective relative to other field monitoring techniques, recommendations will be implemented.	The deadline was extended by the MOU group. As of January 2002, Ecosat Geobotanical Surveys, Inc., the consultant conducting the study, completed reports addressing the MOU requirements.
Mitigation Plans for Impacts Identified in the EIR and the Inyo-LA Agreement	The Technical Group will prepare mitigation plans and implementation schedules for all area for which on-site mitigation measures have been adopted in the EIR. The plans will be completed by June 1998. In accordance with the EIR, on-site mitigation will be accomplished through revegetation with native Owens Valley species and through establishment of irrigation.	In August 1999, following the receipt of comments from the MOU parties, the Inyo/Los Angeles Technical Group approved the mitigation plans. In January 2002, the County identified four on-site mitigation measures for which plans may have been inadvertently omitted from the mitigation plans. The County prepared draft plans and schedules for these measures. Mitigation plans were submitted to ICWD for the Independence Eastside Regreening and Big Pine Northeast Regreening projects and evaluations of East of Shepherd Creek Alfalfa Potential E/M and East of Big Pine Potential E/M projects on August 13, 2004. CEQA was filed for the Independence project September 23 with a public comment period from September 22 to October 29, 2004. Responses to comments were completed. The Board of Water and Power Commission approved the project in May 2005.
Technical Group Meetings	Technical Group meetings are to be open to the public	Technical Group meetings were opened to the public beginning October 15, 1997.
Annual Reports	LADWP and the County are to prepare annual reports describing environmental conditions in the Owens Valley, and describing studies, projects and activities conducted under the long-term agreement and the MOU. The report will be released on or about May 1 of each	Inyo County has prepared annual reports since 1991. LADWP released an annual report for 2001, 2002 and 2003. This report is intended to fulfill the obligation for 2004.

Title	Provision	Status
	year.	
Fish Slough	The MOU acknowledges that LADWP and DFG have reached agreement concerning threatened and endangered species that involves land management and other activities in the Fish Slough area of Mono County. The agreement is to be memorialized in a letter from LADWP to DFG.	A letter agreement was never memorialized; however, LADWP has worked closely with DFG on the Fish Slough ACEC.
Dispute Resolution and Litigation	The parties to the MOU will maintain frequent, informal communications to minimize disagreements. In the event of a dispute among the parties over the MOU the parties will meet and confer before any litigation concerning the dispute may be commenced. The parties may elect to retain the services of a mutually acceptable impartial mediator/facilitator to assist in dispute resolution. Any litigation arising out of the MOU is to be commenced in the Inyo County Superior Court.	The parties to the MOU, called the "MOU Signatory Group," have met as necessary. The Group last met on April 17, 2003. In addition, the Group and their attorneys met several times during the fall/winter of 2003-04 to develop the Stipulation and Order.
Financial Assistance	The County will pay the sum of \$53,000 to the Sierra Club and the sum of \$30,000 to the Owens Valley Committee for professional services in the development and preparation of the MOU.	The specified amounts have been paid by the County to the identified parties.

**TABLE 20**  
**Cooperative Studies**

Title	Provision	Status
<p><b>Development of Hydrological Modeling Tools</b> (Robert Harrington, ICWD; Saeed Jorat, LADWP)</p>	<p>The purpose of this study is to improve hydrological models developed by previous cooperative studies to evaluate the impact of groundwater pumping, weather variations, surface water management, and other hydrologic changes on groundwater levels. Because groundwater modeling is the only method for consistent interpretation of groundwater data and evaluation of management options, this task is a prerequisite to fulfill the monitoring and technical goals of the Water Agreement. Inyo Count and LADWP want to jointly develop a common set of modeling tools so that methods and analyses are understood and accessible to each agency.</p>	<p>The first model to be considered for improvement was the regional groundwater model by USGS. With the assistance from USGS staff, this model has been updated and recalibrated. A draft final report was completed in 2004.</p>
<p><b>Development of a Model for Predicting Phreatophyte Water Use and Soil Water Replenishment</b> (Aaron Steinwand, Robert Harrington, ICWD; Saeed Jorat, Paula Hubbard, LADWP)</p>	<p>The purpose of this study is to combine information from vegetation, groundwater, precipitation, and soil water monitoring into a model to predict depletion and replenishment of stored soil water above a fluctuating water table. This capability will help protect Owens Valley vegetation by predicting how long soil water will support the vegetation after pumping commences. If soil water information is to continue to be used to trigger pumping decisions, this type of models needed by the Technical Group to evaluate the environmental effects of opposed pumping scenarios and to provide reliable forecasts of expected pumping yields.</p>	<p>The study is underway.</p>
<p><b>Evapotranspiration from Groundwater-Dependent Plant Communities: Comparison of Micrometeorological Measurements and Vegetation-based Measurements</b> (Robert Harrington, Aaron Steinwand, ICWD; Paula Hubbard, David</p>	<p>The objective of this study is to provide direct measurements of evapotranspiration (ET), the combination of evaporation from the ground surface and plant water use, using micrometeorological methods to corroborate current estimates of vegetation transpiration. ET estimates are essential to the Green Book methods for managing pumping and may remain an important component of groundwater management strategies in</p>	<p>This project was completed in 2004.</p>

Title	Provision	Status
Martin, LADWP)	the future. Results from this study will be applied to improve the ET component of numerical groundwater models (study #1) and soil water models (study #2).	
<b>Characterization of Confining Layer Hydrologic Conductivity and Storage Properties in the Owens Valley</b> (Randy Jackson, ICWD; Saeed Jorat, LADWP)	The purpose of this study is to determine confining layer hydrologic properties to assist groundwater modeling efforts (study #1) and to improve the management of wells sealed to the deep aquifer. Pumping from deep aquifers potentially could be managed differently than the Green Book methods. Without information to be developed by this study, however, the magnitude and timing of the water table drawdown from pumping deep aquifers is difficult to predict, complicating any assessment of the effects of different pumping scenarios. a stepwise approach is proposed, starting with analysis of existing data and progressing to low and high intensity field projects, if necessary.	The first phase was completed in April 2003. The final report included sections on identification of methods and tool for characterizing confining layer, analysis of existing aquifer pumping test data, and development of GIS layers for confining layer characteristics in the Owens Valley. A work plan was prepared in March 2004 to perform short-term aquifer pumping tests on 11 production wells throughout Owens Valley to further refine distribution of the confining layer and its hydraulic characteristics.
<b>Shallow and Deep Groundwater Geochemistry and the Source of Spring and Seep Water in the Owens Valley</b> (Aaron Steinwand, Randy Jackson, ICWD; Saeed Jorat, Paula Hubbard, LADWP)	Springs and seeps are valuable and sensitive habitats in the Owens Valley. The purposes of this study are to monitor basic water quality indices seasonally for one year to develop a database to be used to assist restoration of spring waters should any impacts occur. Secondly, the geochemical signatures of water from selected springs and seeps will be examined and compared to shallow and deep groundwater samples to identify the source of the water. These results will be used to link spring and seep flows to particular aquifers to improve groundwater models (study#1) used to assess potential effects of pumping on these areas. An expert in geochemical modeling will be selected by the fall of 2000 to assist the principal investigators with this study.	In Spring 2002, sampling and chemical analysis from shallow test holes, springs, deep wells, surface water and seep area from Lone Pine to Big Pine was completed. A second, more limited round of sampling was conducted in Spring of 2003. A final report on the chemical analyses is complete, which includes results of the chemical analysis and the final interpretations on the source of water in each of the springs and seeps.
<b>Application of Canonical Community Ordination (CANOCO) to Assess Owens Valley Vegetation Change</b> (Sally Manning, ICWD; David	Over the past decade, the Technical Group has collected a vegetation data set that contains information on species abundances and several environmental data sets have become available. Multivariate data analysis techniques provide a means to analyze the vegetation data in conjunction with the	Since 2000, the principal investigators have worked independently on studying factors influencing vegetation change. The results of preliminary County evaluations have been produced for internal County review and were presented by the County at a meeting of the Ecological Society of America.

Title	Provision	Status
Martin, LADWP)	environmental influences. By applying these analyses, the Technical Group will be better able to understand the relationship between environmental variables and vegetation change, the rates of change, and the predisposing conditions that are likely to result in significant long-term, adverse conditions.	
<b>Inventory and Classification of Riparian Vegetation in the Owens Valley for Use in Future Monitoring</b> (Consultant)	The objective of this study is to inventory, map, and classify riparian (Type D) vegetation on Los Angeles-Owned land in the Owens Valley to improve monitoring and management of these areas. This study was suggested in the Green Book but has not been completed.	The Inyo/Los Angeles Standing Committee agreed that this work will be conducted by a consultant through an RFP process. The contract will be managed by LADWP. LADWP and the County will agree on the RFP, the consultant, the consultant's contract, and on decisions affecting the consultant or his/her work. Work was to begin in March 2001. Currently, LADWP is reviewing a draft request for proposals and outlines of areas to be inventoried. Comments were submitted to Inyo County on March 20, 2004. Comments were received from ICWD July 29, 2004. There is no date set for commencement of the study.
<b>Development of a Demographic Model for Nevada saltbush (<i>Atriplex torreyi</i>)</b> (Sally Manning, ICWD; David Martin, LADWP)	The purpose of this study is to develop a stage-based demographic model for the native, invasive shrub, Nevada Saltbush ( <i>Atriplex lentiformis</i> spp. <i>torreyi</i> ). Development of a demographic model will allow existing data to be used to estimate the probability of populations reaching certain sizes in the future, given various assumptions about environmental factors. Model development will also allow a sensitivity analysis to be performed in which points in the species' life cycle, having the most impact on population growth, would be identified. Identification of such points could be extremely useful to determine the nature and timing of intervention which could be implemented to control Nevada Saltbush in places where its invasion could cause a conversion in vegetation type that is not allowed under the long-term water agreement.	Since 2000, the principal investigators have worked independently on this study.
<b>Owens Lake Groundwater Evaluation</b>	LADWP has proposed pumping groundwater from Owens Lake for use in the abatement of dust on the lake bed. Any pumping by LADWP from the lake	The Consulting firm of Camp, Dresser & McKee, Inc. (CDM) completed an evaluation of proposed pumping from the lake . CDM has submitted a report to

Title	Provision	Status
	is subject to the provisions of the Inyo/Los Angeles Agreement	the Standing Committee presenting the public's views on the objectives and standards that should govern any Owens Lake pumping and a work plan for a long term groundwater evaluation.

**TABLE 21**  
**Revegetation Projects, Progress, and Proposed Future Work**

Title	Provision	Status
Laws 90	The site is being fenced in April 2004	The parcel has been burned to control weeds. By the fall of 2005, the plan is to install an irrigation system in a portion of this parcel followed in the 2006 growing season by the planting of containerized plants along with seeds in a portion of this parcel.
Laws 94	The site has been fenced.	The parcel has been burned to control weeds. An acre of the parcel has been seeded with native seeds identified for this parcel. By the fall of 2005, the plan is to install an irrigation system in a portion of this parcel followed in the 2006 growing season by the planting of containerized plants along with seeds in a portion of this parcel.
Laws 95	The site has been fenced.	The parcel has been burned to control weeds. An acre of the parcel has been seeded with native seeds identified for this parcel. By the fall of 2005, the plan is to install an irrigation system in a portion of this parcel followed in the 2006 growing season by the planting of containerized plants along with seeds in a portion of this parcel.
Laws 118	The site has been fenced. Permanent transects have been installed and baseline monitoring has been conducted. Revegetation studies have been implemented by SAIC using seed with sprinklers and plants with drip irrigation. In addition, MWH conducted studies on dryland revegetation techniques using native seed and various treatments.	Plan is to convert approximately 32 acres of this parcel to irrigated pasture. Monitoring of the SAIC study was conducted during the 2004 growing season. The results of these studies were utilized to move forward with larger scale revegetation efforts at this site. The drip irrigation system was expanded and seed was planted at all emitters. The system was run from late June till the beginning of November.
Laws 129	This site has been fenced.	By the fall of 2005, the plan is to install an irrigation system in a portion of this parcel followed in the 2006 growing season by the planting of containerized plants along with seeds in a portion of this parcel.
Five Bridges	Water releases to this area were initiated in 1987. Permanent photo points and transects have been monitored annually. Fences were installed to eliminate grazing in the riparian and meadow areas that water	A controlled burn was delineated on the ground and planned for spring 2004, but regulatory changes resulting from wildfires in 2003 prevented California Department of Forestry from implementing this burn. Water releases



Title	Provision	Status
	<p>releases flow through. Initial water releases were from Bishop Creek Canal to C-Drain. The Mitigation Plan stated that releases should be conducted by high flows in the Owens River. These high flows were very difficult to implement. As a consequence, a change was made and water releases originated from Bishop Creek Canal to C-Drain. Water has been released three times a year during the growing season. All water releases are monitored. Weed control is conducted annually. Controlled burns have been conducted to help with weed control. Grass qualitative monitoring has been conducted and the results of this and the monitoring noted above indicate that the area is responding well to the water releases.</p>	<p>will be conducted three times during the growing season and all releases will be monitored to assure that water reaches areas of need. Permanent photo points and transects will be monitored. Grass qualitative monitoring will be conducted. Weed control will continue.</p>
Bishop 97	<p>The site has been fenced. Permanent transects have been installed and baseline monitoring has been conducted. Permanent transects were run in 2003 to document any changes from baseline conditions. MWH conducted studies on dryland revegetation techniques using native seed and various treatments.</p>	<p>Potential water sources are being evaluated and a drip irrigation system is being designed for this site. Implementation at this site will commence one year after the projects at Big Pine 160 and Independence 123 are fully implemented and operating properly. Once the irrigation system is installed and operational, seed from species identified for this site will be placed at emitters.</p>
Big Pine NE Regreening	<p>A revised scope of work was sent to ICWD that reflected the interests of the citizens of the community of Big Pine. ICWD did not provide comments on this revised scope of work. On August 13, 2004 LADWP submitted a Mitigation Plan that reflected the project as described in the Final Scoping Document that was approved by the Standing Committee in 1988.</p>	<p>When comments are received from ICWD, LADWP will write a mitigation plan for this project. Implementation will follow.</p>
Big Pine 160	<p>The site has been fenced. Permanent transects have been installed and baseline monitoring has been conducted. MWH conducted studies on dryland revegetation techniques using native seed and various treatments.</p>	<p>Potential water sources are being evaluated considered and a drip irrigation system is being designed for this site. Once the irrigation system is installed and operational, seed from species identified for this site will be placed at emitters. The irrigation system will cover an area of approximately 17 acres.</p>
East Big Pine	<p>"An area of approximately 20 acres directly to the east of Big Pine that is poorly vegetated as a result of pre-</p>	<p>This site needs to be evaluated as a potential enhancement/mitigation project. If it is not feasible to</p>

Title	Provision	Status
	<p>project activities and activities which are not a part of the project will be evaluated as a potential enhancement/mitigation project. If, in planning this project, it is determined that it is not feasible to permanently irrigate this area, a revegetation program will be implemented" (EIR Impact 10-19). The "Revegetation Plan for Impacts Identified in the LADWP, Inyo County EIR for Groundwater Management" that was submitted to the MOU Group in 1999 states that this area is within the same parcel as Big Pine 160 and, therefore, the mitigation will be the same for both sites.</p>	<p>permanently irrigate this area, then the project will become the revegetation plan that was submitted and approved by the MOU Group. The first step under this plan would be fencing the area to eliminate disturbances.</p>
Tinemaha 54	<p>The site has been fenced. Permanent transects have been installed and baseline monitoring has been conducted. Grass plants were planted in 1999. A drip irrigation system was installed in 2001. The grass plants have been irrigated during the growing season since the system was installed.</p>	<p>Transects are to be run in 2005 to compare conditions to baseline.</p>
Blackrock 16E	<p>The site has been fenced. Permanent transects have been installed and baseline monitoring has been conducted. A controlled burn was conducted by LADWP in conjunction with California Department of Forestry to remove weed litter. Permanent transects were run in 2002 to document any changes from baseline conditions. Site native perennial cover has increased, so no active revegetation plans will be developed at this time.</p>	<p>Transects will be run in 2005 to assess cover at the site.</p>
Hines Springs S	<p>This site will likely be affected by the Hines Springs on-site mitigation. The site goal and revegetation plan for this area will be developed within three years after the work at Hines Springs is completed.</p>	<p>No action until after Hines Springs on-site mitigation is completed.</p>
Independence Regreening	<p>A revised scope of work has been submitted to ICWD that reflects the interests of the citizens of the community of Independence. ICWD has not provided comments on this revised scope of work.</p>	<p>LADWP is evaluating comments received from ICWD. LADWP will draft a mitigation plan for this project. Implementation will follow.</p>
Independence 105	<p>The site has been fenced. Permanent transects have been installed and baseline monitoring has been conducted. Permanent transects were</p>	<p>Transects will be run in 2006 to assess cover at the site.</p>

Title	Provision	Status
	run in 2001 to document any changes from baseline conditions. Site native perennial cover has increased, so no active revegetation plans will be developed at this time.	
Independence 123	The site has been fenced. Permanent transects have been installed and baseline monitoring has been conducted.	Potential water sources are being evaluated and a drip irrigation system is being designed for this site. Once the irrigation system is installed and operational, seed from species identified for this site will be placed at emitters. If plants are not generated from the irrigated seed, containerized plants will be placed at the emitters. The area to be irrigated is approximately 4 acres.
Independence 131	The site has been fenced. Permanent transects have been installed and baseline monitoring has been conducted. Revegetation studies have been implemented by SAIC using seed with sprinklers and plants with drip irrigation. In addition, MWH conducted studies on dryland revegetation techniques using native seed and various treatments.	Monitoring of the SAIC study was conducted during the 2004 growing season. Data indicates that placing seed at emitters produced positive results. Therefore, seed will be used for this portion of the reveg project.

**TABLE 22  
Laws Area Mitigation and Monitoring Program**

POT. IMPACT	MM No.	MITIGATION			MONITORING			
		Measure	Timing	Responsibility	Method	Period	Frequency	Responsibility
<u>Air Quality</u>								
Creation of dust during pipeline installation and ground preparation for planting	M-1	Ground surfaces will be thoroughly wet prior to and during work to minimize dust	To be implemented throughout the project as needed	LADWP construction staff and/or LADWP lessee.	Water trucks will pre-wet construction areas and water as necessary throughout construction. Ground will be pre-irrigated prior to planting.	As needed throughout construction and/ or prior to planting.	Throughout the construction or agricultural period	LADWP construction staff and/or LADWP lessee.
Groundwater pumping to supply water to the project could adversely affect groundwater dependent vegetation in the vicinity of the project and cause blowing dust	M-2	Section III and Section IV of the Inyo and the City of Los Angeles and its Department of Water and Power on a Long Term Groundwater Management Plan in the Owens Valley and Inyo County (the Water Agreement)	To be implemented throughout the project as needed	Inyo LA Technical Group		During the period when groundwater pumping and water management practices could affect vegetation.	Annually during the growing season	Inyo LA Technical Group
<u>Hydrology and Water Quality</u>								
Groundwater pumping	M-3	Water Agreement	To be implemented throughout the project as needed	Inyo LA Technical Group	Monitoring at each identified site will consist of one or more field visits during the period when groundwater pumping and water management practices could affect such vegetation.	During the period when groundwater pumping and water management practices could affect vegetation.	Annually during the growing season	Inyo LA Technical Group

POT. IMPACT	MM No.	MITIGATION			MONITORING			
		Measure	Timing	Responsibility	Method	Period	Frequency	Responsibility
Reducing the irrigation duty from 5 acre-feet per acre to 3 acre-feet per acre and of changing from flood irrigation to sprinkler irrigation	M-4	Water Agreement	To be implemented throughout the work as needed	Inyo LA Technical Group	Monitoring at each identified site will consist of one or more field visits during the period when groundwater pumping and surface water management practices could affect such vegetation.	During irrigation season	Annually during the growing season	Inyo LA Technical Group
<u>Biological Resources</u>								
Altering the flow in a ditch that carries water diverted from Coldwater Canyon	M-5	Water Agreement	To be implemented throughout the work as needed	Inyo LA Technical Group	Monitoring at each identified site will consist of one or more field visits during the period when surface water management practices could affect such vegetation.	During the period of changes in surface water management practices could affect vegetation	Annually during the growing season	Inyo LA Technical Group
Altering the flow in Silver Canyon Ditch	M-6	Water Agreement	To be implemented throughout the work as needed	Inyo LA Technical Group	Monitoring at each identified site will consist of one or more field visits during the period when surface water management practices could affect such vegetation.	During the period of changes in surface water management practices could affect vegetation	Annually during the growing season	Inyo LA Technical Group
Growth of noxious weeds	M-7	LADWP or its lessee or lessees, in conjunction with Inyo County's weed abatement program, will promptly treat or remove the	To be implemented throughout the work as needed	LADWP Watershed Resources Staff; LADWP Lessee; and/or Inyo County Agricultural Dept.	Monitoring consists of field visits during the growing season	Annually during the growing season	Annually during the growing season	LADWP Watershed Resources Staff; LADWP Lessee; and/or Inyo County Agricultural Dept.

POT. IMPACT		MITIGATION			MONITORING			
Summary of Impact	MM No.	Measure	Timing	Responsibility	Method	Period	Frequency	Responsibility
		weed.						
<u>Cultural Resources</u>								
Archaeological investigations identified six previously unrecorded archaeological sites and 11 isolates within the project area	M-8	Pipeline placement was to avoid identified sites; if new sites are encountered during implementation , work will be halted until an archaeologist can be consulted.	To be implemented throughout the work as needed	LADWP Construction Manager	Construction personnel will monitor for unidentified sites during the progression of construction.	During construction activities	Throughout the construction period	LADWP Construction Manager

**TABLE 23**  
**Big Pine Area Mitigation and Monitoring Program**

POT. IMPACT	MM No.	MITIGATION			MONITORING			
		Measure	Timing	Responsibility	Method	Period	Frequency	Responsibility
<u>Hydrology and Water Quality</u>								
The cumulative effect of groundwater pumping from well 415, the new Bell Canyon well, as proposed in the project, in combination with the operation of other wells in the Big Pine area could cause significant adverse impacts to groundwater dependent vegetation, other vegetation, or non-LADWP wells in the area.	M-1	Water Agreement	To be implemented throughout the project as needed	Inyo LA Technical Group	A monitoring site will be developed by the Inyo LA Technical Group as called for in the Inyo/LA Long Term Water Agreement to manage operation of each well.	During the period when groundwater pumping is needed for the project.	As decided by the Inyo LA Technical Group, consistent with the Long Term Water Agreement	Inyo LA Technical Group