MWD
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

BOARD ACTION

- **Board of Directors**
  Engineering and Operations Committee

July 8, 2003 Board Meeting

8-2

Subject

Appropriate $9,365,985 for final design of the Solids Handling Facilities Project and for construction of the Northwest Hill Grading Project; and award a $4,769,000 contract to C.W. Poss, Inc., for construction of the Northwest Hill Grading Project at the Robert B. Diemer Filtration Plant (Approps. 15227 and 15363)

Description

Over the past year, the Robert B. Diemer Filtration Plant (Diemer plant) has been treating a higher percentage of State project water (SPW) than was typical in the past. This has resulted in higher-than-expected ferric chloride dosages to comply with the Stage 1 Microbial/Disinfection By-Products Rule, which became effective January 1, 2002. Treating higher volumes of SPW has produced more residual solids from the water treatment process than was previously expected at the plant. The increased solids production is currently being processed with temporary (leased) equipment. Staff recommends installation of permanent solids handling facilities to allow Metropolitan to reliably treat on a long-term basis higher percentages of SPW while complying with all water quality regulations and existing permit conditions. Preliminary design of permanent Diemer solids handling facilities has been completed. These facilities will be constructed at the Diemer plant's northwest hill.

Diemer Northwest Hill Grading Project ($7.358 million)

In November 2001, Metropolitan's Board authorized final design of the Northwest Hill Grading Project to create a pad for future solids handling facilities. The grading project was advertised for construction in May 2003 with bids opened on June 11, 2003. This action will appropriate $7.358 million, award a construction contract for $4.769 million to C.W. Poss, Inc., and authorize construction management and support services for the Northwest Hill Grading Project under Specifications No. 1469. Completion of the northwest hill grading is an essential predecessor to construction of the permanent solids handling facilities at the Diemer plant.

Diemer Solids Handling Facilities Project ($2.008 million)

In November 2001, Metropolitan's Board authorized preliminary design for the Diemer Solids Handling Facilities Project. Staff has completed the preliminary design activities. This action will authorize $2.008 million for final design of the Diemer Solids Handling Facilities Project. The work will be conducted by a combination of Metropolitan staff and a consulting engineering firm, Black and Veatch Corporation. In May 2003, Metropolitan's Board authorized entering into a professional services agreement with Black & Veatch Corporation for water treatment process engineering services.

These two projects were evaluated and recommended by Metropolitan's Capital Investment Plan Evaluation Team and have been included in the fiscal year 2003/04 CIP budget under the Diemer Land Acquisition, Habitat Conservation Plan, and Site Grading Program (Approp. 15227) and the Diemer Solids Handling and Water Reclamation Program (Approp. 15363).

See **Attachment 1** for the detailed report, **Attachment 2** for the project location, **Attachment 3** for the abstract of bids, and **Attachment 4** for the financial statement.

Policy

Metropolitan Water District Administrative Code § 5108: Capital Project Appropriation

Metropolitan Water District Administrative Code § 8113: Construction Contract Award

California Environmental Quality Act (CEQA)

CEQA determinations for Option #1:

Diemer Northwest Hill Grading Project

The environmental effects from the construction of the Diemer Northwest Hill Grading Project (Grading Project) were evaluated in the Robert B. Diemer Filtration Plant Improvements Project Final Environmental Impact Report (Final EIR), which was certified by the Board on February 13, 2001. The Board also approved the Findings of Fact, the Statement of Overriding Considerations, the Mitigation Monitoring and Reporting Program, and the Grading Project itself. The present board actions would provide funding and approval to enter into an agreement for construction management and inspection services only. These board actions would not result in any changes to the approved Grading Project itself. Hence, the previous environmental documentation taken by the Board in conjunction with the proposed actions fully complies with CEQA and the State CEQA Guidelines. As such, no further CEQA documentation is necessary for the Board to act on the proposed actions.

The CEQA determination is: Determine that the proposed actions have been previously addressed in the certified 2001 Final EIR and that no further environmental analysis or documentation is required.

Diemer Solids Handling Facilities Project

To comply with CEQA and the State CEQA Guidelines, Metropolitan as the Lead Agency prepared a Mitigated Negative Declaration (MND) on the Interim Solids Handling at Robert B. Diemer Filtration Plant North Lagoons (Solids Handling Project). The MND was distributed for a 30-day public review period beginning on April 24, 2003 and ending on May 23, 2003. The MND includes the Initial Study and Environmental Checklist form (see **Attachment 5**). **Attachment 6** contains comment letters received during the public review period along with responses to those comments. As stated in the State CEQA Guidelines (Section 15074), the Board is required to review and consider the MND, the Initial Study, and comments received during the public review period prior to the adoption of the MND. Adoption of the MND is dependent on the finding by the Board that, based on the whole record before it, there is no substantial evidence that, with the mitigation measures required by the MND, the Solids Handling Project will have a significant impact on the environment. In addition, the MND reflects the Lead Agency's independent judgment and analysis. The Mitigation Monitoring and Reporting Program (MMRP) in **Attachment 7** is required under CEQA (Section 21081.6) and must also be adopted by the Board prior to project approval. All of the above documentation, including other materials that constitute the record of proceedings upon which the Lead Agency decision is based, has been and will be on file with Metropolitan located at 700 North Alameda Street, Los Angeles, CA 90012.

The CEQA determination is: Review and consider the information in the MND, Initial Study, and comments received during the public review period; adopt the MND for the Solids Handling Project; and adopt the MMRP.

CEQA determination for Option #2:

Diemer Northwest Hill Grading Project/Diemer Solids Handling Facilities Project

None required

Board Options/Fiscal Impacts

Option #1

Adopt the CEQA determinations and

a. Appropriate $9,365,985;
b. Award a construction contract in the amount of $4.769 million to C.W. Poss, Inc., to perform all work as described in Specification No. 1469 for the Diemer Northwest Hill Grading Project; and
c. Authorize all final design activities up to award of a competitively bid contract for the Diemer Solids Handling Facilities Project.

Fiscal Impact: $7,357,985 of budgeted CIP funds under Appropriation 15227; and $2.008 million of budgeted CIP funds under Appropriation 15363.

Option #2

a. Reject all bids for construction of the Diemer Northwest Hill Grading project; and
b. Do not authorize final design activities for the Diemer Solids Handling Facilities Project.

Fiscal Impact: $0 for the FY 2003/2004 budget. Re-bidding the project in an attempt to obtain a more favorable bid would delay completion of this project and would likely result in increased costs. The plant will continue to use the existing belt press contractor to process the increased sludge production at a daily rate of $2,000 to $4,000 depending on the sludge production.

Staff Recommendation

Option #1

Roy L. Wolfe — 6/20/2003
Roy L. Wolfe *Date*
Manager, Corporate Resources

Ronald R. Gastelum — 6/24/2003
Ronald R. Gastelum *Date*
Chief Executive Officer

Attachment 1 – Detailed Report

Attachment 2 – Project Location

Attachment 3 – Abstract of Bids

Attachment 4 – Financial Statement for Diemer Land Acquisition, Habitat Conservation Plan, and Site Grading Program; and Diemer Solids Handling and Water Reclamation Program

Attachment 5 – Interim Solids Handling at Robert B. Diemer Filtration Plant North Lagoons Mitigated Negative Declaration

Attachment 6 – Comment Letters Received and Responses to Comments

Attachment 7 – Interim Solids Handling at Robert B. Diemer Filtration Plant North Lagoons Mitigation Monitoring and Reporting Program

BLA #1902

Detailed Report

The Robert B. Diemer Filtration Plant (Diemer plant) was placed into service in 1963 with an initial capacity of 200 million gallons per day (mgd). The plant was expanded in 1969 and now has a design capacity of 520 mgd. The plant delivers treated, chloraminated water to Orange County and parts of Metropolitan's Central Pool portion of the distribution system. The Diemer plant typically treats a blend of Colorado River water and State Project water (SPW).

In order to reliably meet Metropolitan's demands, optimally use all available SPW supplies, and achieve the Board's treated water salinity goal, a blend of greater than 25 percent SPW will be needed at the Diemer plant. Higher coagulant dose will be required to treat the higher SPW blend water. Consequently, increases in the coagulant dose will result in increased residuals solids production.

Preliminary design studies indicated that new solids handling facilities are required to process the increased solids production. The recommended alternative is to construct permanent solids handling facilities at the northwest hill, which is adjacent to the existing thickeners. In the interim, temporary (leased) belt presses have been installed near the sludge thickeners and the northwest hill to process the increased sludge production.

Diemer Northwest Hill Grading Project ($7.358 million)

Background/Purpose

The Diemer Land Acquisition, Habitat Conservation Plan, and Site Grading Program has provided a new site for future facilities at the plant. Under the program, a 36-acre land parcel known as the northwest hill was acquired from the Shell Oil Company. To plan for future facilities, conceptual designs were developed for grading to excavate the northwest hill to form an upper pad and to fill the two south lagoons to form a lower pad. In November 2001, Metropolitan's Board authorized final design of the northwest hill grading that will create a pad for permanent solids handling facilities.

Grading of the northwest hill is scheduled to begin in September 2003. Before grading can commence, the temporary belt press facility must be relocated. A Board action in February 2003 authorized relocation of the temporary belt press facility to the south side of the plant. In the last few months, staff has pursued a lower-cost alternative to move the temporary belt press facility to the north-lagoon side of the Diemer plant. The north lagoons are adjacent to Chino Hills State Park. The Chino Hills State Park staff was receptive to the option. Metropolitan staff then prepared environmental documentation and a design to implement this option.

A Board action in April 2003 authorized relocation of a Southern California Gas Company (SCG) pipeline to allow an early order for pipe material and to provide options for schedule improvements to meet the target July 2005 on-line date for Diemer solids handling facilities.

Project Description

Staff will relocate the temporary belt press facility to the north lagoons. The Northwest Hill Grading Project consists of all necessary work to grade two pads for future facilities; construct an access road, rock surfacing, retaining walls and storm drain system; relocate a chemical spill containment tank; install native plant landscaping and irrigation system; and other appurtenant work as specified or shown on the drawings. The contract work includes phasing of the mass grading to accommodate work by SCG to relocate a 30-inch high-pressure natural gas transmission pipeline and to create the pad to enable a target July 2005 on-line date for the Diemer Solids Handling Facilities.

In order to achieve the lowest overall project cost for the northwest hill grading work, the construction contract documents feature unit price components instead of a single lump sum bid. A unit price for earthwork provides mitigation for uncertainties of depth to competent bedrock and actual swell characteristics of excavated soil. While this approach reduces contractor risk and generally results in lower bid prices, measurement for payment of the unit price earthwork requires more field survey and contract administration than would be incurred with a lump sum contract. Metropolitan staff will perform the construction management and inspection for this project

with support from consultants for biological monitoring and geotechnical reviews. The construction management as a percentage of the total construction cost is approximately 18 percent.

Bids Results and Business Outreach

As shown on the attached Abstract of Bids, Attachment 3, 5 bids were received and opened under Specification No. 1469 for northwest hill grading at the Diemer plant. The low bid from C.W. Poss, Inc., in the amount of $4.769 million complies with the requirements of the specifications. The engineer's estimate is $5.725 million. For this project, Metropolitan requires Small Business Enterprise (SBE) participation of at least 25 percent of the total construction bid. C.W. Poss, Inc., has committed to achieving this requirement.

Cost Estimate

Attachment 4 shows the total requested funding of $7.358 million for the construction phase of this project.

Project Milestones

September 2003 – Commence construction

June 2004 – Completion of upper pad grading for Diemer Solids Handling Facilities

June 2005 – Completion of all northwest hill grading

Diemer Solids Handling Facilities ($2.008 million)

Background/Purpose

In November 2001, Metropolitan's Board authorized preliminary design for permanent solids handling facilities at the Diemer plant to process increased sludge production. In May 2003, the Board authorized entering into a professional services agreement with Black & Veatch Corporation for water treatment process engineering services, including assistance with design of solids handling facilities at the Weymouth and Diemer plants.

Preliminary design of the Diemer solids handling facilities has now been completed. This action will authorize final design of the Diemer Solids Handling Facilities Project. Metropolitan staff will perform project management. Metropolitan intends to utilize Black & Veatch Corporation for final design of the Diemer solids handling facilities, consistent with the above-referenced process engineering agreement. No new agreements or amendments are required for this work.

Using a professional services firm to perform this work at two filtration plants will promote standardization of facilities, is consistent with the Corporate Resources Group's staffing plan as incorporated in the fiscal year 2003/04 budget, and ensures that projects are implemented in accordance with their board-adopted schedules. Staff will return to the Board again at a later date for authority to appropriate additional funds for the Weymouth Solids Handling Facilities.

Project Description

The final design effort will produce contract documents to construct new permanent solids handling facilities at the northwest hill's upper pad. This project will construct two additional thickeners, a new sludge pump station, a drying bed, a buried stormwater detention tank, an underground drainage system, and a new solids handling building. This building will house a polymer feed system, three belt presses, and a conveyor system.

Cost Estimate

Attachment 4 shows the total requested funding of $2.008 million for all work in advance of award of a competitively bid construction contract. The final design cost, as a percentage of the estimated total construction cost is approximately 11.1 percent.

Project Milestones

January 2004 – Completion of final design

May 2004 – Beginning of construction

July 2005 – Completion of construction of permanent solids handling facilities

PROJECT LOCATION – DIEMER PLANT

The Metropolitan Water District of Southern California

Abstract of Bids Received June 11, 2003, at 2:00 P.M.

Specification No. 1469

Northwest Hill Grading for the Robert B. Diemer Filtration Plant

The contract consists of performing all necessary work to grade two pads for future facilities; construct an access road, rock surfacing, retaining walls and storm drain system; relocate a chemical spill containment tank; install native plant landscaping and irrigation system; and other appurtenant work as specified or shown on the drawings. The work includes phasing mass grading to accommodate work by the Southern California Gas Company to relocate a 30-inch high-pressure natural gas transmission pipeline.

Engineer's Estimate: $5,725,000

Bidder and Location	Total	SBE % Participation	Met SBE (25 % Minimum)
C.W. Poss, Inc. Fullerton, CA	$ 4,769,000	39.33%	Yes
Yeager Skanska Inc. Riverside, CA	$ 5,198,200	N/A	N/A
L. D. Anderson Inc. Bloomington, CA	$ 5,242,650	N/A	N/A
L.T. Excavating Inc. Laguna Niguel, CA	$ 5,786,000	N/A	N/A
Kiewit Pacific Co. Vancouver, WA	$ 5,899,000	N/A	N/A

N/A – Not applicable

Financial Statement for Diemer Land Acquisition, Habitat Conservation Plan, and Site Grading Program

A breakdown of Board Action No. 7 for Appropriation 15227 for the Northwest Hill Grading Project is as follows:

	Previous Board Action No. 6 (Apr 2003)	Current Board Action No. 7 (Jul 2003)	New Total Appropriated Amount
Labor			
Design and Specifications	$ 900,000	$ 0	$ 900,000
Owner Costs			
Program Management	593,000	180,000	773,000
Environmental Documentation/ Coordination	174,000	260,000	434,000
Right-of-Way Documentation/ Coordination	105,000	0	105,000
Record Drawings	0	28,000	28,000
Construction Inspection and Support	70,000	883,000	953,000
Metropolitan Installation and Construction	36,000	147,000	183,000
Materials and Supplies	17,000	65,000	82,000
Incidental Expenses	21,000	51,000	72,000
Professional/Technical Services	1,540,000	50,000	1,590,000
Right-of-Way	2,672,000	0	2,672,000
Equipment Use	10,000	25,000	35,000
Contracts	962,712	4,769,000	5,731,712
Remaining Budget	312,303	899,985	1,212,288
Total	**$ 7,413,015**	**$7,357,985**	**$ 14,771,000**

Funding Request

Program Name:	Diemer Filtration Plant – Land Acquisition, Habitat Conservation Plan, and Site Grading		
Source of Funds:	Construction Funds (General Obligation, Revenue Bonds, Pay-As-You-Go Fund)		
Appropriation No.:	15227	**Board Action No.:**	7
Requested Amount:	$ 7,357,985	**Capital Program No.:**	15227-I
Total Appropriated Amount:	$ 14,771,000	**Capital Program Page No.:**	E-31
Total Program Estimate:	$ 20,000,000	**Program Goal:**	I – Infrastructure Reliability

Financial Statement for Diemer Filtration Plant Solids Handling and Water Reclamation Program

A breakdown of Board Action No. 4 for Appropriation No. 15363 for the Diemer Solids Handling Facilities Project is as follows:

	Previous Board Action No. 3 (Feb 2003)	Current Board Action No. 4 (Jul 2003)	New Total Appropriated Amount
Labor			
Studies and Investigations	$ 387,000	$ 0	$ 387,000
Design and Specifications	720,000	0	720,000
Owner Costs (Program Management, Bidding Process, and Permitting)	369,000	245,000	614,000
Construction Inspection and Support	250,000	0	250,000
Metropolitan Installation and Construction	1,466,000	0	1,466,000
Materials and Supplies	1,871,000	0	1,871,000
Incidental Expenses	50,000	0	50,000
Equipment Use	175,000	1,000	176,000
Professional/Technical Services	0	1,500,000	1,500,000
Contracts	3,720,000	0	3,720,000
Remaining Budget	1,455,000	262,000	1,717,000
Total	**$ 10,463,000**	**$2,008,000**	**$12,471,000**

Funding Request

Program Name:	Diemer Filtration Plant Solids Handling and Water Reclamation Program		
Source of Funds:	Construction Funds (General Obligation, Revenue Bonds, Pay-As-You-Go Fund)		
Appropriation No.:	15363	**Board Action No.:**	4
Requested Amount:	$ 2,008,000	**Capital Program No.:**	15363-I
Total Appropriated Amount:	$ 12,471,000	**Capital Program Page No.:**	E-30
Program Estimate:	$ 29,616,350	**Program Goal:**	I-Infrastructure Reliability

INTERIM SOLIDS HANDLING AT ROBERT B. DIEMER FILTRATION PLANT NORTH LAGOONS MITIGATED NEGATIVE DECLARATION

SCH# 2003041162

MITIGATION MONITORING AND REPORTING PROGRAM

THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Metropolitan Report No. 1152

June 2003

1.0 INTRODUCTION

The California Environmental Quality Act (CEQA) requires all state and local agencies to adopt mitigation monitoring programs when adopting a mitigated negative declaration (Public Resources Code Section 21081.6). This Mitigation Monitoring and Reporting Program (MMRP) satisfies the requirements of CEQA and the State CEQA Guidelines as they relate to the Mitigated Negative Declaration for Interim Solids Handling at the Robert B. Diemer Filtration Plant North Lagoons (Project) prepared by The Metropolitan Water District of Southern California (Metropolitan). The MMRP will be used by Metropolitan staff responsible for ensuring compliance with adopted mitigation measures associated with the Project.

The Mitigated Negative Declaration (MND) for the Project identified feasible mitigation measures designed to reduce or avoid potentially significant effects of the Project with respect to noise and traffic. These mitigation measures are summarized in Table 1 of Section 2 of this document. Section 2 of this document also identifies the specific monitoring and reporting requirements, including the party responsible for monitoring mitigation implementation, the implementation phase, and the monitoring activity.

Section 3 of this document describes project elements and permit requirements that are not part of the MMRP but are included herein to convey how the Project will comply with government codes, ordinances, or regulations and will reduce further the less-than-significant project effects. The environmental categories detailed in this section are aesthetics, air quality, hazards and hazardous materials, noise, traffic/transportation, utilities and service systems, and cultural resources.

2.0 MITIGATION MEASURES, CONSTRUCTION REQUIREMENTS, AND MONITORING REQUIREMENTS

TABLE 1
MITIGATION MEASURES SUMMARY
INTERIM SOLIDS HANDLING AT THE
ROBERT B. DIEMER FILTRATION PLANT NORTH LAGOONS

Category	Mitigation Measure
NOISE	NO-1 To reduce the noise level from the pumps, the pumps will be enclosed within a sheet metal enclosure or a 12-foot high sound wall. NO-2 To reduce the noise level from the belt presses, sound absorptive blankets will be installed around the noise-generating components of the sludge presses. Alternatively, if needed, an approximately 20-foot sound wall will be constructed around the belt presses.
TRAFFIC	TR-1 On sludge hauling days, the off-hauling contractor will provide a flagman at the Carbon Canyon Road intersection to ensure safe entry and exit. TR-2 On sludge hauling days, the off-hauling contractor will provide flagmen at the Brown Gate and at the Lagoon Gate to ensure safe traffic flow. TR-3 The access road from Carbon Canyon Road to the lagoon entrance gate will be covered with three inches of crushed rock, not to exceed ½ inch in diameter, to prevent dust and minimize rutting.

NOISE

ADVERSE IMPACT There is a potential for Project-related noise levels to exceed the significance threshold of 45 dBA at the Robert B. Diemer Filtration Plant property boundary.

MITIGATION MONITORING AND REPORTING PLAN

Mitigation:

NO-1 To reduce the noise level from the pumps, the pumps will be enclosed within a sheet metal enclosure or a 12-foot high sound wall.

NO-2 To reduce the noise level from the belt presses, sound absorptive blankets will be installed around the noise-generating components of the sludge presses. Alternatively, if needed, an approximately 20-foot sound wall will be constructed around the belt presses.

Party Responsible for Monitoring Mitigation Implementation: **The Metropolitan Water District of Southern California**

Implementation Phase: Construction phase.

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TRAFFIC

ADVERSE IMPACT There is potential for significant Project-related traffic impacts.

MITIGATION MONITORING AND REPORTING PLAN

Mitigation:

TR-1 On sludge hauling days, the off-hauling contractor will provide a flagman at the Carbon Canyon Road intersection to ensure safe entry and exit.

TR-2 On sludge hauling days, the off-hauling contractor will provide flagmen at the Brown Gate and at the Lagoon Gate to ensure safe traffic flow.

TR-3 The access road from Carbon Canyon Road to the lagoon entrance gate will be covered with three inches of crushed rock, not to exceed ½ inch in diameter, to prevent dust and minimize rutting.

Party Responsible for Monitoring Mitigation Implementation: **The Metropolitan Water District of Southern California**

Implementation Phase: Project operation phase for TR-1 and TR-2. Construction phase for TR-3.

3.0 PROJECT DESCRIPTION AND PERMIT REQUIREMENTS

3.1 INTRODUCTION

This section describes those elements of the Project that will be incorporated into the Project description or implemented to comply with government codes, ordinances, or regulations. These elements are not part of the MMRP but are presented here to convey information about other commitments made as part of the Project that will reduce Project effects.

3.2 DESCRIPTION OF PROJECT DESCRIPTION ELEMENTS BY TOPIC

3.2.1 Aesthetics

- The temporary electrical line providing power to the North Lagoons area will cross Carbon Canyon Road and extend along the Yorba Linda Feeder easement to the North Lagoons area. After completion of the proposed project, the temporary electrical line and poles will be removed.
- Lighting fixtures used during nighttime operations will be mounted on the equipment in locations designed to provide safety and security. The lighting will not be readily visible from public view. In accordance with current standard practice, the light fixtures will be shaded and light will be directed downward to prevent visible glare from offsite locations. High-pressure sodium lamps will be used.

3.2.2 Air Quality

- Dust minimization will occur through application of water and other dust control activities.

3.2.3 Hazards and Hazardous Materials

- A fire prevention plan, including procedures to prevent fires during welding operations and other operations that could cause fires, will be developed. These procedures will include keeping a water truck and other fire fighting equipment at the site during construction.
- A spill prevention and containment plan, including designation of areas for fuel storage, provision of clean up supplies on site in the event of a spill, and procedures for clean up of spills, will be prepared and implemented.
- Where feasible, waste minimization, through recycling of materials, will be conducted.

3.2.4 Noise

- Construction noise will be reduced through restriction of construction hours to daylight hours and restriction of high noise producing activities to weekdays.

3.2.5 Traffic/Transportation

- Sludge hauling will not be scheduled on weekends or holidays, and will occur only between the hours of 9:00 am and 3:00 pm.

- Safety measures such as signage and barriers will be used, as appropriate, to protect trail users from construction equipment and vehicles. Signage will be posted two weeks prior to the onset of construction, notifying trail users of the dates of the pending construction.

- The trail will be kept free of debris at all times.

3.2.6 Utilities and Service Systems

- Conservation of water through the use of recycled water for dust control, if available, will be implemented.

3.2.7 Cultural Resources

- To determine the sensitivity for potential historical resources, a professional archaeologist will conduct a records search of prior local cultural resource surveys at the regional archaeological information center and will conduct a field walkover of the undisturbed, previously unsurveyed portions of the site. Based on the results of this initial survey, the archaeologist will determine whether additional site investigations and/or construction monitoring are warranted to determine the significance of any buried resources and to ensure avoidance or proper identification and recovery of any significant historical resources that are identified. If needed, a qualified archaeological monitor will be present during project grading and excavation activities.

3.3 LIST OF PERMIT REQUIREMENTS BY AGENCY

In addition to the mitigation measures described in the MMRP, the MND identified the following permits or approvals, which are listed below, that would be required from other agencies.

- California Department of Transportation
  Encroachment permit to install temporary overhead electrical lines and poles across Carbon Canyon Road.