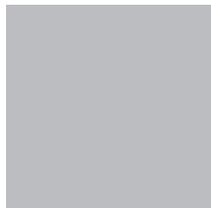
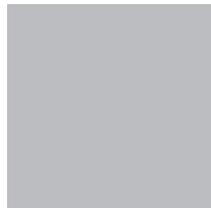
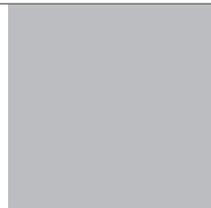


K. SANTA FE VALLEY PUMP STATION

Final Mitigated Negative Declaration for the
Santa Fe Valley Pump Station and Offsite Pipelines Project
Olivenhain Municipal Water District
2004



APPENDIX A

INITIAL STUDY

And

FINAL MITIGATED NEGATIVE DECLARATION

INITIAL STUDY AND ENVIRONMENTAL CHECKLIST

BACKGROUND DATA

1. **Project title:** Santa Fe Valley Pump Station and Offsite Pipelines Project
2. **Lead agency name and address:** Olivenhain Municipal Water District
1966 Olivenhain Road
Encinitas, CA 92024
3. **Contact person and phone number:** Ken Simmons, Engineering Supervisor
Olivenhain Municipal Water District
1966 Olivenhain Road
Encinitas, CA 92024
(760) 753-6466
4. **Project location:** The proposed Santa Fe Valley Pump Station and Offsite Pipelines Project would be located within northern San Diego County in the community of Rancho Santa Fe, along Artesian Road. The site is approximately three miles to the west of Interstate 15 and is near the Rancho Santa Fe Community Services District Wastewater Treatment Plant and the three million-gallon Santa Fe Valley Blending Reservoir.
5. **Project sponsor's name and address:** Olivenhain Municipal Water District
1966 Olivenhain Road
Encinitas, CA 92024
6. **General plan designation:** The proposed pipelines, pump station, retaining walls and access road would be located within land designated as Community Facility–Water Storage Facility and in existing and proposed utility and access easements. The proposed project is adjacent to land designated as Residential and Open Space in the *Santa Fe Valley Specific Plan*.

INTRODUCTION, REGIONAL SETTING AND DESCRIPTION OF THE OLIVENHAIN MUNICIPAL WATER DISTRICT

The Olivenhain Municipal Water District (OMWD; District) has prepared this environmental Initial Study (IS) and Draft Mitigated Negative Declaration (MND) to address the construction and operation of its proposed Santa Fe Valley Pump Station and Offsite Pipelines Project (proposed project).

OMWD proposes to install and operate a recycled water pump station and approximately 7,300 feet of underground raw (untreated) and recycled water pipelines within the County of San Diego (County) in the community of Rancho Santa Fe. The proposed pipelines would connect to existing pipelines in the area and provide recycled water for irrigation to parks, schools, greenbelts within developed areas and golf

courses within the southern portion of OMWD's service area. The proposed project also includes the construction of retaining walls adjacent to the pump station and the existing three million-gallon Santa Fe Valley Blending Reservoir; construction of an access road to the reservoir and proposed pump station; and installation of landscaping and irrigation around the reservoir, pump station and retaining walls.

OMWD provides water to landowners and residents within its service boundaries, an area that includes approximately 48 square miles and 52,000 residents. The District encompasses portions of the cities of Encinitas, Carlsbad, San Diego, Solana Beach and San Marcos as well as the unincorporated communities of Olivenhain, Leucadia, Elfin Forest, Rancho Santa Fe, Fairbanks Ranch and 4S Ranch (Figure 1). OMWD is a member agency of the San Diego County Water Authority and purchases potable water transported into the County by this agency.

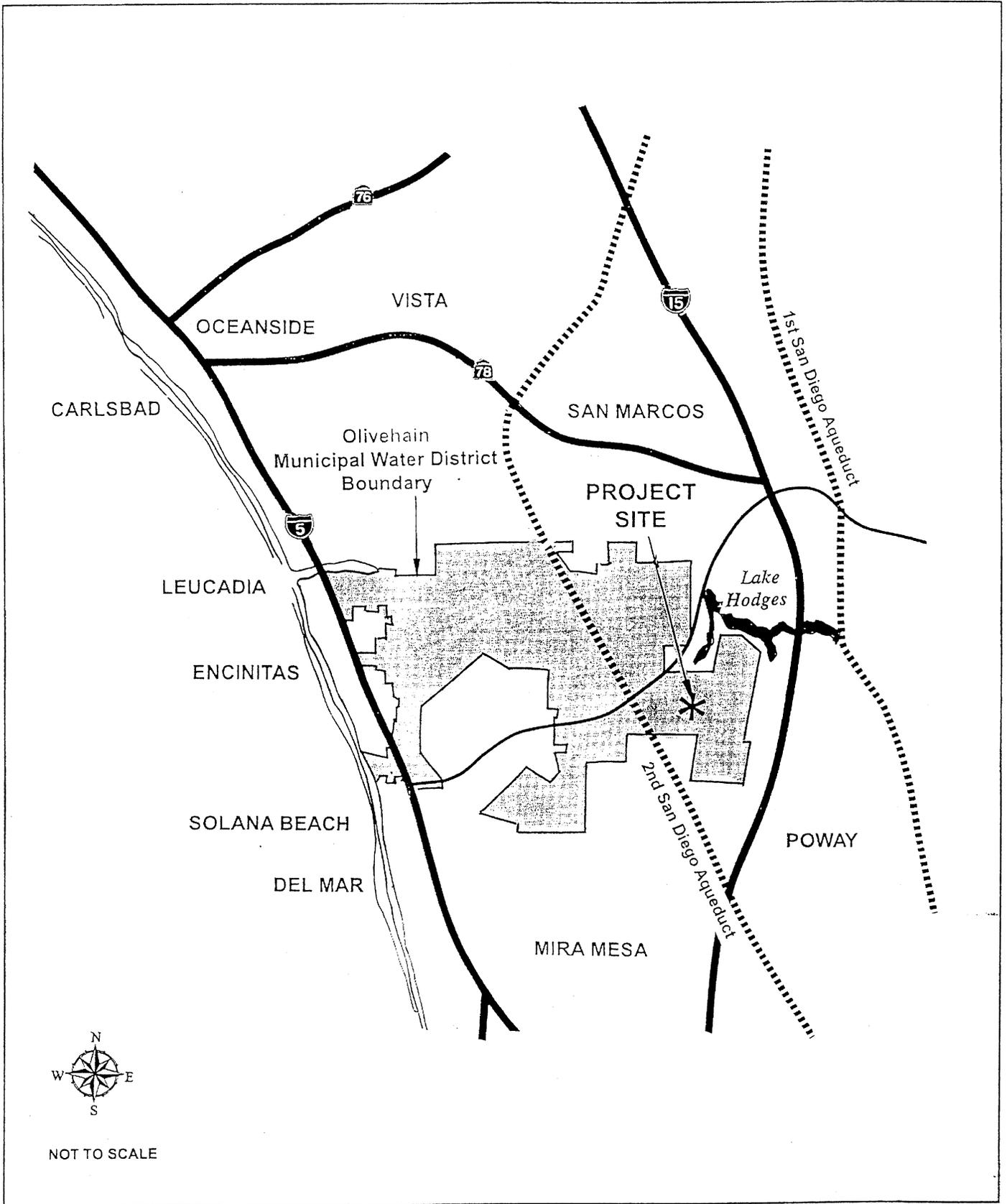
The proposed project would be located in northern San Diego County in the community of Rancho Santa Fe. This area includes primarily agricultural and vacant (graded) land to the west, vacant (graded) land to the south, residential development to the east and open space to the north. The proposed project would be located in land designated as Community Facility–Water Storage Facility and in existing and proposed utility and access easements on vacant, graded land. Figure 2 shows the regional location of the proposed project, and Figure 3 shows the locations of the proposed pipelines, pump station, retaining walls and access road and the existing Rancho Santa Fe Community Services District (RSFCSD) Wastewater Treatment Plant, three million-gallon reservoir and wet weather storage pond.

OBJECTIVES OF PROPOSED PROJECT

The proposed project would improve connectivity and ultimately provide recycled water service from the RSFCSD Wastewater Treatment Plant and reservoir within OMWD's existing service area. The proposed project would not constitute a new source of water, and it would not increase (and may reduce) the amount of potable water imported by OMWD. The use of recycled water for irrigation to parks, schools, greenbelts within developed areas and golf courses within the southern portion of OMWD's service area would help offset the increasing demand for potable water.

DESCRIPTION OF PROPOSED PROJECT

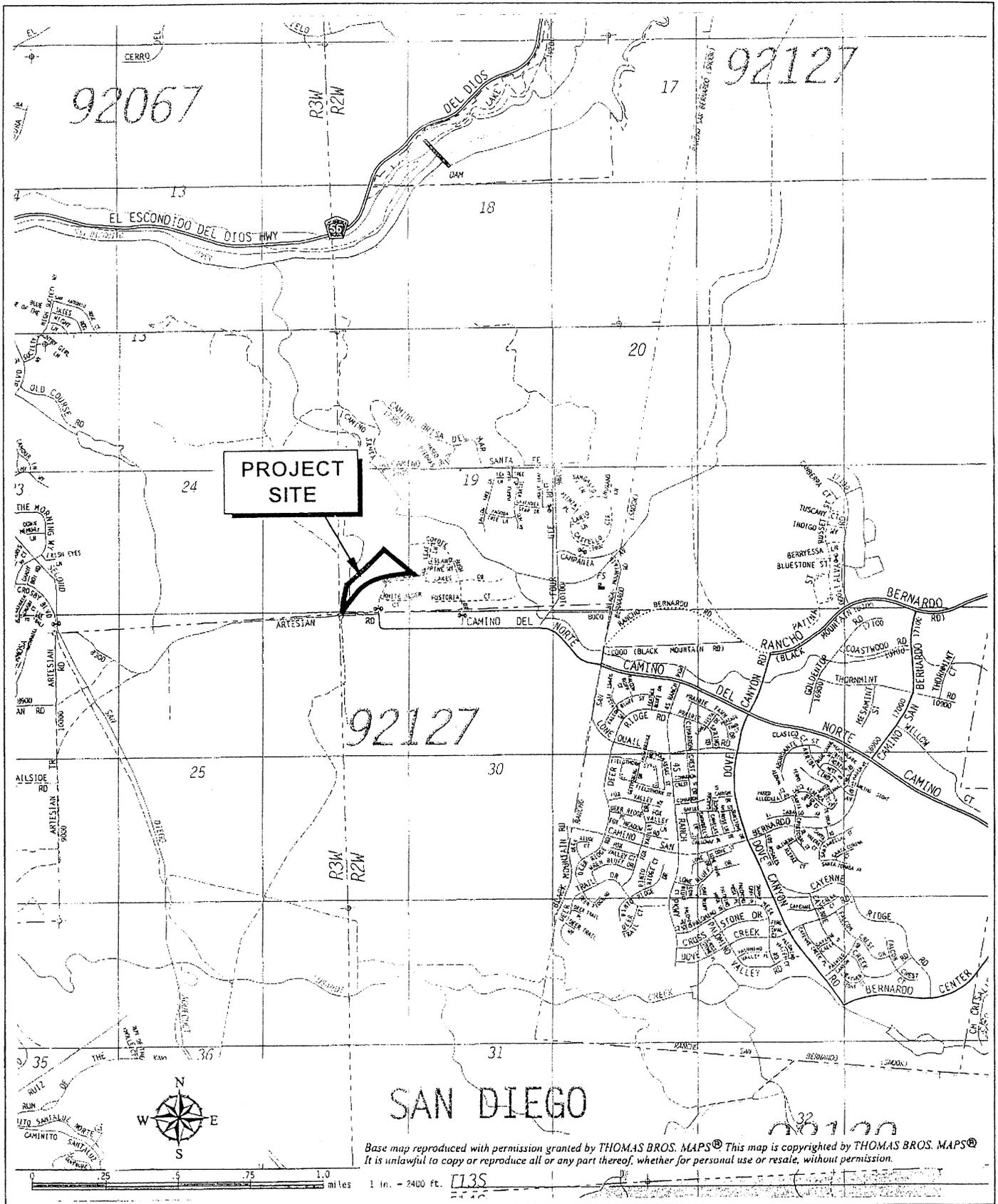
The proposed project would entail the installation and operation of a recycled water pump station and approximately 7,300 feet of underground raw and recycled water pipelines. The proposed project also would include the construction of retaining walls adjacent to the pump station and an access road to the existing reservoir and proposed pump station. Landscaping and irrigation would be installed around the reservoir, pump station and retaining walls.



Regional Location Map

SANTA FE VALLEY PUMP STATION AND OFF-SITE PIPELINES PROJECT

Figure 1



Project Vicinity Map

SANTA FE VALLEY PUMP STATION AND OFF-SITE PIPELINES PROJECT

Figure 2



Proposed 24" Reservoir Overflow Line

Proposed Retaining Walls

Proposed 8" Recycled Water Line

Proposed Access Road

Existing Wet Weather Storage Pond

Proposed 8" Drain Line

Proposed 16" Recycled Water Line

Proposed 10" Raw Water Line

Proposed 12" Recycled Water Line

Saw Leaf Lane

Bernardo Lakes Drive

Artesian Road

Camino Del Sur

Rancho Santa Fe Community Services District Water Treatment Plant

Pump Station

The two-level pump station building would be recessed into the southern slope adjacent to the existing reservoir so that only the front side of the upper level and the four exhaust fans on the roof would be visible. All other sides of the building (including the remainder of the roof) would be surrounded by backfill. The lower level of the pump station would be completely below grade with a floor elevation of 434 feet above mean sea level (AMSL). The floor elevation of the upper level would be 454 feet AMSL (at grade) and the top of the exhaust fans would be at 466 feet AMSL. The exposed building face would be approximately 34 feet in length. The pump station would be prefabricated and include four pumps that would run on electricity. A 24-inch diameter pipeline would supply water from the reservoir to the pump station and a 24-inch diameter pipeline would serve as an overflow line that would connect to the existing RSFCSD wet weather storage pond.

Retaining Walls

Two concrete/masonry retaining walls would be constructed immediately adjacent to the pump station to support soil surrounding the pump station. The wall to the west of the pump station would be approximately 34 feet long and the wall to the east would be approximately 64 feet long. The height of the walls would range from 3 to 11 feet above grade.

Pipelines

The pipeline alignments would connect to the reservoir or the pump station (see below), extend generally southwest and south and connect to existing pipelines. The proposed pipelines include: an 8-inch diameter recycled water drain pipeline, a 10-inch diameter raw water pipeline and three recycled water pipelines (8-, 12- and 16-inch diameters), with additional detail provided below.

- The 8-inch diameter drain pipeline would discharge water from the reservoir to an 8-inch diameter sewer line, which flows to the existing RSFCSD Wastewater Treatment Plant. The proposed pipeline would extend approximately 660 feet southwest from the reservoir to the existing sewer line. The depth of cover over this pipeline would vary between 3 and 14 feet, as the pipeline would gravity feed into the existing sewer line.
- The 10-inch diameter raw water pipeline would deliver raw water into the reservoir. This pipeline would extend generally southwest from the east side of the reservoir to the existing access road, continue south adjacent (to the west of) the access road and connect to an existing pipeline immediately south of Artesian Road. The length of this pipeline would be approximately 2,160 feet and the depth of cover would range between 3 and 6 feet. The pipeline would provide supplemental water to augment available recycled water to meet irrigation needs within the area.
- The 8-inch diameter recycled water pipeline would deliver tertiary treated wastewater from the RSFCSD Wastewater Treatment Plant to the reservoir. This pipeline would extend generally southwest from the reservoir and connect to an existing treatment plant pipeline. The pipeline length would be approximately 490 feet and the depth of cover would range between 3 and 6 feet.

- The 12-inch diameter recycled water pipeline would deliver water to the reservoir from an existing distribution pipeline. The proposed pipeline would extend generally southwest from the east side of the reservoir to the existing access road for the treatment plant, continue south adjacent (to the west of) the access road and connect to an existing pipeline immediately south of Artesian Road. The length of the pipeline would be approximately 2,080 feet and the depth of cover would range between 3 and 6 feet.
- The 16-inch diameter recycled water pipeline would supply water from the pump station to an existing distribution pipeline. The proposed pipeline would extend generally southwest from the pump station to the existing access road for the treatment plant, continue south adjacent (to the west of) the access road and connect to an existing pipeline immediately south of Artesian Road. The length of the pipeline would be approximately 1,910 feet and the depth of cover would range between 3 and 9 feet.

OMWD anticipates that each of the proposed pipelines would be located within an approximately two- to four-foot-wide trench, depending of the diameter of the individual pipeline.

Access Road

The proposed access road would begin southwest of the reservoir, extend east to an existing 25-foot-wide utility easement, continue southeast within the easement and connect to Saw Leaf Lane (an existing residential collector road). The access road would be approximately 16 feet wide and would include two truck turnarounds to the southeast and southwest of the reservoir. The northernmost approximately 400 feet of the road would be paved with asphalt and the remaining approximately 1,000 feet would be paved with 6-inch-deep gravel on a 10-inch-deep base of decomposed granite. Storm drains and a swale would be constructed along the road.

Irrigation and Landscaping

The area surrounding the reservoir, pump station and retaining walls would be hydroseeded and landscaped to provide screening. All plants used would be native or drought tolerant. Irrigation pipelines would be installed prior to landscaping and would be equipped with water conservation mechanisms. A four-foot-high split-rail fence would be constructed along the south edge of the access road.

Pipeline Installation

OMWD anticipates that pipeline installation would entail the steps detailed below.

- An excavator using a sling, or a wheel loader using a forklift adapter, would bring one or two pipe sections to the trench at a time.
- An excavator with a sling would probably also be used to lower the pipe sections into the trench. The pipeline would rest on a bedding of sand (six inches minimum) inside the trench. Dump trucks would bring the sand to the trench location.

- The pipe in the trench zone (the area above the pipe zone to the surface) would be backfilled with sand and excavated material. Excess soil would be hauled from the site and would only be disposed at locations approved for such use and/or at locations subjected to appropriate analysis pursuant to the California Environmental Quality Act (CEQA).

Pipeline construction would be contained entirely within existing and proposed utility and access easements.

OMWD anticipates that a construction crew of approximately four to five workers typically would be present on site during active construction of the pipelines. Table 1 lists the types of construction equipment projected to be required for project construction.

Table 1 Types of Equipment Used During Construction	
Backhoe	Pipe delivery truck
Trench cutter	Sand delivery truck
Excavator	Crane*
Wheel loader (with forklift adapter)	Concrete truck
Water truck (for dust control and compaction)	Portable generator (diesel driven)
Various soil compaction equipment	Paver/roller*

* A crane is only expected to be required for placement of the prefabricated pump station and a paver/roller is only expected to be required for construction of the access road.

Pump Station and Retaining Wall Installation

Installation of the pump station would involve grading of the sloped area adjacent to the reservoir and placement of a prefabricated pump station into a constructed vault. Blasting would be required to loosen the rocky subsurface prior to excavation for the pump station. Where necessary, hydraulic rock drills would prepare holes for the blasting charges. (See the discussion of blasting on pages 10 and 11 for additional detail on proposed blasting operations.) It generally would require the same number of workers and use of similar equipment as anticipated for pipeline installation. Blasting contractors would be present on site during blasting activities. Three to four workers would be required for construction of the retaining walls.

Access Road Construction

A crew of approximately three to four workers typically would be present for road construction. Construction would include grading and paving with asphalt and gravel.

Irrigation and Landscape Installation

Installation of irrigation generally would require the use of similar equipment as anticipated for pipeline installation. OMWD anticipates that a crew of approximately two to three workers would be present for irrigation and landscape installation. Landscaping and hydroseed would be planted as indicated on the landscape plans for the proposed project.

Schedule

Construction activities are expected to begin in February 2005 and would require approximately nine months to complete. The pump station is anticipated to be installed approximately two to three months after construction starts. The retaining walls, pipelines and access road are expected to be constructed concurrent with pump station installation. OMWD estimates that pipeline installation would occur at a rate of approximately 200 to 250 feet per day. Installation of irrigation and landscaping is expected to be completed within one month following the completion of construction activities.

Site Access

Construction access to the proposed project site would be via local surface streets. Access to the general project area is expected to occur from Camino del Sur/Camino del Norte and/or Rancho Bernardo Road to Artesian Road by way of Interstate 15.

Construction Hours

In order to minimize disruptions to the local community, construction and equipment maintenance would be limited to weekdays (excluding holidays) from 7:00 A.M. through 5:00 P.M.

Blasting

Based on the types of geologic formations present in the project area, it is anticipated that a minimal amount of blasting would be required for construction of the pump station. Blasting would not be required for construction of the pipelines or access road. The blasting contractor would be required to obtain/be in possession of permits, training, licenses and certificates in accordance with, but not limited to, the requirements of the following agencies:

- U.S. Bureau of Alcohol, Tobacco and Firearms
- California Department of Justice
- California Division of Industrial Safety, Construction Safety Orders
- California Division of Occupational Safety and Health (Cal-OSHA)

- California Highway Patrol
- San Diego County Sheriff's Department

Blasting would be performed per the safety standards of the U.S. Bureau of Mines to limit any potential damage to the reservoir or nearby pipelines as a result of blasting-related ground vibration. A site-specific blasting plan would be prepared by the blasting contractor and approved by the Project Engineer and OMWD for blasting within 25 feet of an existing pipeline or structure (e.g., the reservoir). Proper inspection of existing structures before, during and after blasting would be performed. Ground vibration monitoring would be required for all blasting shots and would be monitored by a qualified inspector using a calibrated seismograph.

Additional measures implemented to minimize blasting requirements and ensure safety include the following:

- OMWD shall alert nearby residents prior to blasting. Warning signals/sirens would be sounded immediately prior to blasting on site.
- Blasting shall be confined such that the width of the resulting trench is approximately the pipe diameter plus one-foot pipe clearance from each side of the pipe to the trench wall.
- OMWD's contractor shall employ proper stemming in the drill holes to control flyrock ("stemming" is material placed above the explosive charge in the drill hole and is used to keep the force of the blast from exiting through the drill hole; "flyrock" refers to rock ejected from the construction site by the force of the blast).
- OMWD's contractor shall leave stemming at the top of the blast holes to control/eliminate airblast.
- OMWD's contractor shall avoid blasting that the Project Engineer thinks may potentially endanger the stability of intact rock outside the prescribed limits of excavation.
- OMWD's contractor shall prepare daily blasting-related reports that include: Blast Report, Seismograph Monitoring Report, Inspection Report, Blasting Complaint Report and Pre-blast Inspection Report.
- OMWD's contractor shall conform to applicable requirements including the use of certified blasters and an approved powder magazine.

Traffic Control

During pipeline installation within Artesian Road, traffic would be flagged around the work site for a short period (e.g., a few hours). Artesian Road would remain open during installation of the proposed project.

Dust Abatement

During construction, water or dust control agents would be applied as necessary on dirt stockpiles to prevent or suppress particulate matter from becoming airborne.

SURROUNDING LAND USES

Land uses in the vicinity of the proposed project include agricultural, residential, graded land and undeveloped land (Figure 3). As noted above, the proposed project would be located in graded, vacant land.

Land uses adjacent to the proposed project site include undeveloped (disturbed) land and the RSFCSD Wastewater Treatment Plant to the west, residential and undeveloped (disturbed) land to the south, residential to the east and open space (vacant and undeveloped) to the north. The open space to the north of the project site is designated as “No Take. Authorized” within the Multiple Species Conservation Program (MSCP) County Subarea Plan (County 1997).

The proposed project site is located in an area that is included in the Santa Fe Valley Specific Plan (County 1995), which was approved by the San Diego County Board of Supervisors in December 1995 and by the San Diego County Planning Commission in February 1996. The site is within the western portion of the Bernardo Lakes Tentative Map boundary. The Specific Plan designates the project site as Community Facility–Water Storage Facility and adjacent land uses as Residential and Open Space.

CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

This IS has been prepared by OMWD pursuant to CEQA (California Public Resources Code Section 21000 et seq.) and the State Guidelines for the Implementation of CEQA (“State CEQA Guidelines,” California Code of Regulations Section 1500 et seq.). OMWD is both the project proponent and the CEQA Lead Agency for the proposed project.

OTHER PUBLIC AGENCIES WHOSE APPROVAL IS REQUIRED

Blasting, if required, will be conducted pursuant to the regulatory oversight described above. OMWD does not require any other discretionary public agency approvals prior to implementing the proposed project.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

None of the environmental factors below would (as mitigated) be significantly affected by this project, as indicated by the following checklist and as discussed in the Explanations of Environmental Impacts on the following pages.

- | | | |
|---|--|--|
| <input type="radio"/> Aesthetics | <input type="radio"/> Agricultural Resources | <input type="radio"/> Air Quality |
| <input type="radio"/> Biological Resources | <input type="radio"/> Cultural Resources | <input type="radio"/> Geology/Soils |
| <input type="radio"/> Hazards & Hazardous Materials | <input type="radio"/> Hydrology/Water Quality | <input type="radio"/> Land Use/Planning |
| <input type="radio"/> Mineral Resources | <input type="radio"/> Noise | <input type="radio"/> Population/Housing |
| <input type="radio"/> Public Services | <input type="radio"/> Recreation | <input type="radio"/> Transportation/Traffic |
| <input type="radio"/> Utilities/Service Systems | <input type="radio"/> Mandatory Findings of Significance | |

DETERMINATION

On the basis of this initial evaluation:

I find that the proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A **MITIGATED NEGATIVE DECLARATION** will be prepared.

I find that the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.

I find that the proposed project **MAY** have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or **NEGATIVE DECLARATION** pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier **EIR** or **NEGATIVE DECLARATION**, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.


Signature

David McCollom, General Manager

Printed Name


Date

Olivenhain Municipal Water District

For

EVALUATION OF ENVIRONMENTAL IMPACTS

This section provides an evaluation of environmental impacts, based on the evaluation criteria set forth in the State CEQA Guidelines, as amended.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS				
Would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Explanations of Environmental Impacts

- a. **Less-Than-Significant Impact.** The proposed project site currently is disturbed, contains a reservoir and is crossed by a San Diego Gas and Electric (SDG&E) powerline corridor. Disturbed land is located to the west and south of the site, including a storage pond immediately south of the site. Construction activities would be short term. Following construction, portions of the proposed project would be visible from nearby residences. The pump station, retaining walls and access road would be visible to residences located to the east and north of the site. Some residences are located to the north of the open space adjacent to the project site, are at a higher elevation and have a direct line-of-sight to the proposed project site. The pump station would be recessed into the slope adjacent to the reservoir so that only the front side of the upper level and the exhaust fans on the roof would be visible. The area surrounding the pump station, retaining walls and reservoir would be landscaped to provide screening. Proposed pipelines would be underground and not visible. The project would not result in substantial adverse effects to any scenic vistas.

- b. **No Impact.** The proposed project would be constructed in disturbed (graded) land, where no scenic resources occur. Accordingly, no scenic resources would be damaged by construction or operation of the proposed project.
- c. **Less-Than-Significant Impact.** As noted above in IS checklist response I.a, the proposed project would consist of underground pipelines, a screened pump station and retaining walls and an access road within a graded area containing a reservoir and storage pond. Accordingly, the proposed project would not substantially degrade the existing visual character or quality of the site or its surroundings.
- d. **Less-Than-Significant Impact.** The proposed project would entail the installation of underground pipelines, a pump station, retaining walls and an access road. Project construction would be conducted during daylight hours; therefore, no on- or off-site lighting would be required during construction. In the unlikely event of emergency conditions that would require extended (nighttime) construction hours, artificial lighting could be required. Based on the extremely short-term duration associated with such potential conditions (i.e., until emergency repairs are completed), no associated substantial light or glare impacts are anticipated during project construction. The prefabricated pump station may be equipped with an outdoor emergency light. This light, if present, would be shielded, so as not to substantially effect nearby residences. Accordingly, impacts associated with project lighting would be less than significant.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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II. AGRICULTURAL RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:

- | | | | | |
|---|-----------------------|-----------------------|-----------------------|-------------------------------------|
| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland) as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>

Explanations of Environmental Impacts

- a. **No Impact.** The proposed project would not convert any farmland (Prime, Unique, Important or otherwise) to non-agricultural uses. The proposed project site is graded and currently is not used for agricultural uses. In addition, the site is located in land designated as Community Facility–Water Storage Facility and in utility and access easements. Accordingly, the proposed project would not impact land that would otherwise be used for agriculture.
- b. **No Impact.** For the reasons stated in IS checklist response II.a, the proposed project would not conflict with land zoned for agricultural use or farmlands currently under Williamson Act Land Conservation Contracts.
- c. **No Impact.** For the reasons stated in IS checklist response II.a, the proposed project would not impact land that would otherwise be used for agriculture.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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III. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

- | | | | | |
|--|-----------------------|-----------------------|-------------------------------------|-----------------------|
| a) Conflict with or obstruct implementation of the applicable air quality plan? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> | <input type="radio"/> |
| b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> | <input type="radio"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="radio"/>	<input type="radio"/>	✓	<input type="radio"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="radio"/>	<input type="radio"/>	✓	<input type="radio"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="radio"/>	<input type="radio"/>	✓	<input type="radio"/>

Explanations of Environmental Impacts

- a. **Less-Than-Significant Impact.** Air quality impacts associated with the proposed project primarily would be associated with construction. Once installed, personnel would visit the pump station daily; however, air quality impacts associated with exhaust from post-construction commuter vehicles would be negligible. The pump station would run on electricity and would not affect air quality. Temporary impacts to air quality would result from project construction activities, including site preparation, excavation, backfill and paving, and potentially blasting and rock crushing. These activities would result in dust generation and emission of exhaust from vehicles and (potentially) diesel generators. Grading equipment and procedures would comply with applicable San Diego County Air Pollution Control District (APCD) requirements. Daily emissions would be relatively low because only a limited number of truck trips would be required to haul construction materials and fill to/from the site and only a few pieces of construction equipment would be active at any one time. Also, construction-related emissions would be fairly short term, lasting nine months maximum. Construction of the access road near Saw Leaf Lane would expose adjacent residences to construction activities for approximately two month. The dust abatement measures that have been incorporated into the project design would limit the generation of pollutants, including particulate matter 10 microns or less in diameter (PM₁₀). In the context of applicable air quality plans, proposed project construction-related air quality impacts would be negligible.
- b. **Less-Than-Significant Impact.** For the reasons described in IS checklist response III.a, the proposed project would not violate air quality standards or contribute substantially to an existing or projected air quality violation.
- c. **Less-Than-Significant Impact.** The proposed project would be located within the San Diego Air Basin, which is currently in attainment for all national and state Ambient Air Quality Standards except

for federal and state one-hour ozone standards and state PM₁₀ standards. For the reasons described above in IS checklist response III.a, the proposed project would not result in a cumulatively considerable net increase in any of these criteria pollutants, including precursors to ozone.

- d. **Less-Than-Significant Impact.** Sensitive receptors adjacent to the project site include residences to the east. For the reasons described for IS checklist response III.a, above, the proposed project would not generate substantial pollutant concentrations. Accordingly, this impact would be less than significant.
- e. **Less-Than-Significant Impact.** The proposed project would not generate substantial odors. Diesel exhaust from construction vehicles may create odors noticeable at residences near the alignment; however, the diesel exhaust odors would be temporary and minor, as described in IS checklist response III.a, above. The installation of underground raw and recycled water pipelines and a pump station and construction of retaining walls and an access road would not generate objectionable odors on either a short- or long-term basis.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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IV. BIOLOGICAL RESOURCES

Would the project:

- | | | | | |
|--|-----------------------|----------------------------------|-----------------------|----------------------------------|
| a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	○	○	○	✓
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	○	○	○	✓
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	○	○	○	✓

Explanations of Environmental Impacts

- a. **Less-Than-Significant Impact with Mitigation Incorporated.** The proposed project would not directly affect sensitive species or their habitat. Construction noise could indirectly affect species within the open space to the north of the project site, which is designated as “No Take Authorized” within the County MSCP Subarea Plan (County 1997). The area contains coastal sage scrub, potential habitat for the federally listed threatened coastal California gnatcatcher (*Poliophtila californica californica*). Coastal California gnatcatchers have been observed within the project vicinity and could potentially occur in the open space area located to the north of project site. Significant impacts to this species would occur if project construction activities generate noise levels greater than 60 decibels (dBA) within occupied coastal California gnatcatcher habitat during the breeding season.

Potential impacts to the coastal California gnatcatcher would be mitigated to less-than-significant levels by the following measure:

- Bio-1.** If project construction activities are scheduled to occur during the breeding season for coastal California gnatcatcher (February 15 through August 31), three surveys pursuant to U.S. Fish and Wildlife Service protocol shall be conducted to determine the presence or absence of the species in coastal sage scrub habitat within 500 feet of the project site. If it is determined that the species is absent, construction may proceed without restrictions. If the coastal California gnatcatcher is present within 500 feet of the project site, no construction activities shall be allowed between February 15 and August 31, unless shielding is used to reduce construction noise levels to less than 60 dBA at the species’ habitat. Shielding shall be approved by a qualified acoustician. No coastal California

gnatcatcher-related restrictions will be placed on construction activities outside of the coastal California gnatcatcher breeding season.

- b. **No Impact.** The proposed project would consist of installation and operation of underground pipelines and a pump station and construction of retaining walls and an access road within graded areas. Construction staging (e.g., temporary offices and equipment and materials storage) and parking would occur only in graded, vacant land on site or within the access road to the treatment plant. Accordingly, the proposed project would not impact riparian habitat or other sensitive natural communities.
- c. **No Impact.** No wetlands as defined by Section 404 of the federal Clean Water Act have been identified within the project site; accordingly, no impacts would occur to wetland habitat.
- d. **No Impact.** The proposed project would consist of underground pipelines, a pump station and retaining walls recessed into an existing slope and an approximately 16-foot-wide access road. The pump station, retaining walls and access road would be located within a currently fenced enclosure. Accordingly, the proposed project would not interfere with the movement of any native resident or migratory fish or wildlife species or with established native wildlife corridors, or impede the use of native wildlife nursery sites.
- e. **No Impact.** The proposed project would not conflict with local policies or ordinances relating to the protection of trees or other biological resources because construction would occur in previously disturbed areas with low natural resource value.
- f. **No Impact.** The proposed project would not conflict with any approved or adopted local, regional or state habitat conservation plan. As stated above in IS checklist response IV.a, the project site is located within the County MSCP Subarea. The proposed project would not conflict with the County's MSCP Subarea Plan.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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V. CULTURAL RESOURCES

Would the project:

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|---|-----------------------|-----------------------|-----------------------|-------------------------------------|
| a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |
| b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	○	○	○	✓
d) Disturb any human remains, including those interred outside of formal cemeteries?	○	○	○	✓

Explanations of Environmental Impacts

- a. **No Impact.** A cultural resources technical report was prepared for the Santa Fe Valley Specific Plan, which encompasses the project site (Ogden Environmental and Energy Services Co., Inc. 1995). No historical resource was found within the project site; however, one historic site was identified within the coastal sage scrub immediately north of the existing access road to the treatment plant. Site CA-SDI-13,014H contains remnants of historic structures. Because this site is not within the project boundary, no impacts would occur during construction of the project. No impacts are anticipated to other cultural resources because the entire project site is disturbed and graded.
- b. **No Impact.** No archaeological resources were identified within or adjacent to the project site. The entire site is disturbed and graded. Accordingly, no impacts to archaeological resources are anticipated.
- c. **No Impact.** Paleontological resources within the project site are anticipated to be moderately sensitive; however, the proposed project is not anticipated to affect unique paleontological resources or unique geological features because of the relatively limited amount of excavation required for installation of the proposed pipelines and pump station.
- d. **No Impact.** For the reasons described in response to IS checklist response V.a, no impacts to human remains are anticipated.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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VI. GEOLOGY AND SOILS

Would the project:

- | | | | | |
|--|-----------------------|-----------------------|----------------------------------|----------------------------------|
| a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: | | | | |
| i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| ii) Strong seismic ground shaking? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| iii) Seismic-related ground failure, including liquefaction? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| iv) Landslides? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| b) Result in substantial soil erosion or the loss of topsoil? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

Explanations of Environmental Impacts

- a.(i). **Less-Than-Significant Impact.** Seismically induced ground rupture is the physical displacement of faults during an earthquake event. Ground rupture and related effects such as lurching (i.e., the

rolling motion of surface materials associated with passing seismic waves) can adversely affect surface and subsurface structures. The proposed project site is not traversed by any known faults. The proposed project area is within a broad seismically active region characterized by a series of northwest-trending fault zones associated with the San Andreas Fault System. No active or potentially active faults are mapped or known to occur within or adjacent to the proposed project. The closest such fault structures are located within offshore segments of the Newport-Inglewood/Rose Canyon Fault Zone approximately 10 miles to the west/southwest (California Geological Survey, formerly known as California Department of Conservation, Division of Mines & Geology [CDMG] 1994). While the potential for ground rupture cannot be totally ruled out, no impacts related to seismic ground rupture (and related effects) are anticipated from implementation of the proposed project. This conclusion is based primarily on the fact that no known faults likely to generate such phenomena are located within or adjacent to the site.

- a.(ii). **Less-Than-Significant Impact.** Ground acceleration is an estimation of the peak bedrock or ground motion associated with a specific seismic event. It is expressed in terms of “g” forces, where “g” equals the acceleration due to gravity. Acceleration can be measured directly from seismic events or estimated from magnitude, distance and other data. Based on a maximum credible earthquake event along the Newport-Inglewood/Rose Canyon Fault Zone of Richter magnitude 7.0, the maximum ground acceleration (“ground shaking”) level that may potentially occur within the project site is estimated as approximately 0.2g (CDMG 1992).

Such acceleration levels could potentially result in significant impacts to proposed facilities, including rupture or severing of the proposed pipelines (depending on factors such as event duration, motion frequency and underlying soil/geologic conditions). The project design, however, would incorporate measures to accommodate projected seismic loading, pursuant to existing guidelines such as the “Greenbook” Standard Specifications for Public Works Construction (1999) and the International Conference of Building Officials (IBCO 2000) Uniform Building Code (UBC). These guidelines are produced through joint efforts by industry groups such as the American Public Works Association (APWA) and IBCO to provide standard specifications for engineering and construction activities, including measures to accommodate seismic loading parameters. The referenced guidelines, while not comprising formal regulatory requirements per se, are widely accepted by regulatory authorities and are regularly included in related standards such as municipal building and grading codes. The Greenbook and UBC guidelines are updated annually or semi-annually to reflect current industry standards and practices, including criteria such as the American Society for Testing and Materials (ASTM). Based on the incorporation of applicable measures into project design and construction, the potential impacts associated with strong seismic ground shaking are assessed as less than significant.

- a.(iii). **Less-Than-Significant Impact.** The potential for substantial adverse effects associated with seismic-related ground failure, including liquefaction, is assessed as less than significant for the reasons described in response to IS checklist response IV.a.ii.

- a.(iv). **Less-Than-Significant Impact.** The proposed project area has been identified as “most susceptible” (Subarea 4-1) to landslides (CDMG 1995). This means the proposed project area is generally located outside the boundaries of definite mapped landslides but contains observably unstable slopes underlain by weak materials and adverse geologic structures. No landslides have been identified in or near the proposed project area (CDMG 1995). The proposed project would be constructed in graded, generally level to gently sloping terrain. The pump station would be recessed into the existing manufactured fill slope adjacent to the reservoir. Construction activities in the project site are not expected to generate or increase the potential downslope movement of material because of the site is graded and contains fill slopes. Accordingly, potential impacts from large-scale landslide movements related to proposed project implementation are considered less than significant.
- b. **Less-Than-Significant Impact.** The presence of soil piles and exposed trenches during construction of the proposed project would result in a minor potential to increase wind or water erosion of soils on or off site; however, erosion and sedimentation control measures would be implemented in order to minimize on-site erosion and off-site transport of eroded materials. Accordingly, impacts due to soil erosion would be less than significant.
- c. **No Impact.** The proposed pipelines and pump station would be installed on a bedding of sand (six inches minimum) inside trenches and surrounded by material suitable for use as backfill, including native soil, crushed rock and imported fill. The proposed project would not cause local soil or geologic units to become unstable, nor would the pipelines, pump station, retaining walls or access road cause on- or off-site landsliding, lateral spreading, subsidence, liquefaction or collapse.
- d. **No Impact.** Expansive (or shrink-swell) behavior is attributable to the water-holding capacity of clay minerals and can adversely affect the structural integrity of facilities including underground pipelines. The project area has been mapped as consisting of soil series that exhibit high shrink-swell behavior, including Diablo and Huerhuero series (Soil Conservation Service 1973). As noted above in IS checklist response V.a.(ii), the proposed project would incorporate applicable design and construction measures pursuant to existing Greenbook, UBC and/or other standards. Specific measures that may be used to address potential expansion impacts include the removal and treatment or replacement (i.e., with engineered fill) of unsuitable materials such as clay soils. The “No Impact” assessment reflects that although expansive soils are present on site, (A) constraints associated with these soils would be addressed during project design and (B) neither construction nor operation of the pipeline would create a substantial risk to life or property.
- e. **No Impact.** The proposed project would not entail the use of septic systems.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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VII. HAZARDS AND HAZARDOUS MATERIALS

Would the project:

- | | | | | |
|--|-----------------------|-----------------------|----------------------------------|----------------------------------|
| a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	○	○	○	✓

Explanations of Environmental Impacts

- a. **Less-Than-Significant Impact.** The potential hazards associated with underground pipelines, a pump station, retaining walls and an access road would be fairly limited, especially once construction is complete. The portion of the site that would contain the pump station, retaining walls and access road currently is restricted (e.g., fenced). No unauthorized person would be allowed within this enclosure. During installation of the pipelines adjacent to the existing access road to the treatment plant, public access to the construction area would be restricted and open trenches would be covered, fenced and/or otherwise barricaded each night to prevent accidents. The potential hazards associated with seismic events would not pose a significant hazard, as described in IS checklist responses VI.a(i) and a(ii).
- b. **Less-Than-Significant Impact.** Construction and operation of the proposed project would not entail the use of hazardous materials, with the potential exception of substances used to maintain and operate construction equipment (such as fuel and lubricants). Standard construction operating procedures would prevent the use of these materials from causing a significant hazard to the public or environment.
- c. **No Impact.** The site of a future elementary school is located adjacent to the project site (the northwestern corner of the intersection of Artesian Road and the existing access road to the RSFCSD Wastewater Treatment Plant). However, the proposed project would not entail the use of hazardous materials, except as noted above in IS checklist response VII.b. Standard construction operating procedures would prevent the use of these materials from causing a significant hazard to nearby schools or their students and staff.
- d. **No Impact.** The proposed project would not be located on a recorded hazardous materials site (Environmental Data Resources, Inc. 2004). One hazardous materials site is located within 0.5 mile of the project site. The hazardous materials site is listed in the San Diego County Hazardous Materials Management Division Database (San Diego County HMMD). No spills or leaks associated with hazardous materials have been reported at the site. Accordingly, construction of the proposed project would not result in a significant hazard to the public or the environment.

- e. **No Impact.** The proposed project would consist of underground pipelines, a pump station, retaining walls and an access road and would not be within an area covered by an airport land use plan; therefore, no associated impacts would occur.
- f. **No Impact.** The proposed project would consist of underground pipelines, a pump station, retaining walls and an access road and would not be located near a private airstrip; therefore, no associated impacts would occur.
- g. **Less-Than-Significant Impact.** Three of the proposed pipelines would cross Artesian Road. Installation within Artesian Road would require flagging traffic around the work site for a short period (e.g., a few hours). Traffic would not be affected after installation is complete. For these reasons, the proposed project would not significantly impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.
- h. **No Impact.** The proposed project would not expose people or structures to a significant risk or loss, injury or death involving wildland fires because it would consist of the installation and operation of underground pipelines and a pump station and construction of retaining walls and an access road in land designated as Community Facility–Water Storage Facility and in utility and access easements.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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VIII. HYDROLOGY AND WATER QUALITY

Would the project:

- | | | | | |
|---|-----------------------|-----------------------|----------------------------------|----------------------------------|
| a) Violate any water quality standards or waste discharge requirements? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
f) Otherwise substantially degrade water quality?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
j) Expose people or structures to inundation by seiche, tsunami, or mudflow?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>

Explanations of Environmental Impacts

- a. **Less-Than-Significant Impact.** The proposed project would not affect local water bodies. As required under National Pollutant Discharge Elimination System (NPDES), administered by the Regional Water Quality Control Board, a Storm Water Pollution Prevention Plan would be created for the proposed project. The plan would address erosion control measures that would be implemented to avoid erosion impacts to exposed soil associated with construction activities. Potential water quality impacts would be avoided or less than significant through conformance with NPDES permit conditions.

The proposed pipelines and pump station would ultimately be used to provide recycled water for irrigation to parks, schools, greenbelts within developed areas and golf courses in the southern

portion of OMWD's service area. The State of California Department of Health Services sets the standards for required levels of treatment and types of uses for recycled water. These standards are included in the California Code of Regulations, Title 22. Recycled water from the treatment plant and reservoir would meet these standards. Accordingly, no impact to water quality standards would result from the provision of recycled water within OMWD's service area.

- b. **No Impact.** The construction of: (1) pipelines in trenches no deeper than approximately 14 feet; (2) a pump station in an approximately 20-foot deep trench; (3) retaining walls; and (4) an access road would not affect local groundwater supplies. The proposed project would not require the use of local groundwater or otherwise impact the groundwater table.
- c. **Less-Than-Significant Impact.** The installation of underground pipelines would not affect local drainage patterns. The installation of a recessed pump station and construction of an access road may affect, but would not substantially alter, on-site drainage patterns. The site is graded and would not require substantial altering of site topography. Retaining walls would be constructed adjacent to the pump station in order to prevent erosion. In addition, the sloped area surrounding the reservoir, pump station and retaining walls and the northern portion of the access road would be hydroseeded and landscaped. No river or stream would be altered by construction or operation of the proposed project. Accordingly, the project would not result in substantial erosion or siltation.
- d. **Less-Than-Significant Impact.** As stated in IS checklist response VIII.c, the proposed project would not substantially affect on-site drainage patterns or alter any river or stream. Construction of the proposed access road would result in new impervious surfaces, which would increase the volume of surface runoff from the project area. This impact, however, would not result in flooding on or off site, because storm drains and swales would be installed along the access road. Accordingly, impacts associated with runoff would be less than significant.
- e. **Less-Than-Significant Impact.** As stated in IS checklist response VIII.d, the proposed project would not significantly increase the local surface runoff volumes. Potential short-term pollutant generation would be avoided or less than significant.
- f. **No Impact.** No potential water quality impacts other than those described above in this section are anticipated.
- g. **No Impact.** The proposed project would not involve the construction of any housing; therefore, it would not result any associated flood hazard impacts.
- h. **No Impact.** The proposed project site is located in an area determined to be outside of the 500-year floodplain. Accordingly, no associated impacts would occur.
- i. **No Impact.** The proposed project would not cause people or structures to be located in an inundation risk area associated with a dam or levee.

- j. **No Impact.** The proposed project would not expose people or structures to an inundation risk area for seiches, tsunamis or mudflows.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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IX. LAND USE AND PLANNING

Would the project:

- | | | | | |
|---|-----------------------|-----------------------|-----------------------|-------------------------------------|
| a) Physically divide an established community? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |
| b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |
| c) Conflict with any applicable habitat conservation plan or natural community conservation plan? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |

Explanations of Environmental Impacts

- a. **No Impact.** Installation and operation of underground pipelines and a pump station and construction of retaining walls and an access road in land designated as Community Facility–Water Storage Facility and in utility and access easements would not divide an existing community.
- b. **No Impact.** The proposed project would include installation and operation of underground pipelines and a pump station and construction of retaining walls and an access road in land designated as Community Facility–Water Storage Facility and in utility and access easements. These activities would not conflict with zoning or general plan land use designations.
- c. **No Impact.** See response to IS checklist response IV.f.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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X. MINERAL RESOURCES

Would the project:

- | | | | | |
|---|-----------------------|-----------------------|-----------------------|-------------------------------------|
| a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |
| b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |

Explanations of Environmental Impacts

- a. **No Impact.** The proposed project would be constructed in land designated as Community Facility–Water Storage Facility and in utility and access easements. The project site is not currently used for mineral resource extraction, nor is it located in an area with a known potential for mineral resources.
- b. **No Impact.** The proposed project would be constructed in land designated as Community Facility–Water Storage Facility and in utility and access easements. This site is not currently used for mineral resource extraction, nor is it located in an area with a known potential for locally important mineral resources. Additionally, the site is not designated in the *Santa Fe Valley Specific Area Plan* or other applicable land use plan as a mineral resource recovery site.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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XI. NOISE

Would the project result in:

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|---|-----------------------|-----------------------|-------------------------------------|-----------------------|
| a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> | <input type="radio"/> |
| b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> | <input type="radio"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>

Explanations of Environmental Impacts

- a. **Less-Than-Significant Impact.** The County’s Code of Regulatory Ordinances (Section 36.410) states that:

Except for emergency work, it shall be unlawful for any person, including the County of San Diego, to operate construction equipment at any construction site, except as outlined in subsections A and B below:

A. It shall be unlawful for any person, including the County of San Diego, to operate construction equipment at any construction site on Sundays, and days appointed by the President, Governor or the County Board of Supervisors for a public fast, thanksgiving or holiday. Notwithstanding the above, a person may operate construction equipment on the above-specified days between the hours of 10 A.M. and 5 P.M. in compliance with the requirements of subsection B of this section at his residence or for the purpose of constructing a residence for himself, provided such operation of construction equipment is not carried on for profit or livelihood. In addition, it shall be unlawful for any person to operate construction equipment at any construction site on Mondays through Saturdays except between the hours of 7 A.M. and 7 P.M.

B. No such equipment, or combination of equipment regardless of age or date of acquisition, shall be operated so as to cause noise at a level of in excess of

seventy-five (75) decibels for more than 8 hours during any twenty-four (24) hour period when measured at or within the property lines of any property which is developed and used either in part or in whole for residential development.

The proposed project would be consistent with the hourly restrictions placed on construction (see "Construction Hours" within the Description of Proposed Project section of this document, above). Residential properties are located immediately east of the proposed project site.

Although construction noise represents a short-term impact (8 to 10 hours per day during construction) on ambient noise levels, noise generated by construction equipment can reach high levels. Average noise levels 50 feet from trenching construction activities have been identified by the U.S. Environmental Protection Agency as 84 dBA for ground clearing, 89 dBA for excavation, 79 dBA for erection/placement of pipe and 84 dBA for finishing (Camp Dresser & McKee, Inc. 1997).

The most prevalent noise source in construction equipment is the internal combustion engine (usually diesel-powered) used to provide motive or operating power. Internal combustion engines are used for propulsion and for powering working mechanisms (buckets, arms, trenchers, etc.). Engine power may vary from about 50 horsepower (hp) to over 600 hp. Typical operating cycles may involve one or two minutes of full-power operation, followed by three or four minutes at lower power. Noise levels at 50 feet from earth-moving equipment range from about 73 to 96 dBA.

Expected use of materials-handling equipment includes cranes, concrete pumps and portable generators. Noise levels for this equipment at 50 feet range from about 76 to 88 dBA. Although stationary equipment generally is less noisy than more mobile sources, it has a tendency to be parked in one location for a greater part of the workday. The noise impact zone, therefore, can be the same as for highly mobile sources in that the reduced mobility compensates for the lower noise generation rate. These types of equipment would be placed within the pipeline alignments at locations that would minimize disruptions to local residents.

Although blasting is anticipated to be required for pump station installation, blasting operations do not normally generate much noise in excess of ambient construction noise levels and, in general, would have only a low muffled sound in a very localized area adjacent to the trench (see response to IS checklist response XI.b, below, regarding groundborne vibrations).

Pursuant to the County's noise ordinance, the residential zones approximately 400 feet east of the proposed pump station have noise level limits of 50 dB between the hours of 7:00 a.m. to 10:00 p.m. and 45 dB from 10:00 p.m. to 7:00 a.m. Based on OMWD's past experience with pump stations, operation of the proposed pump station is not expected to exceed allowable noise levels at nearby residences. This assessment is based on the following factors:

- the residences are approximately 400 feet from the proposed pump station
- the pump station would use relatively quiet electric pumps (as opposed to gas-powered pumps)
- the four pumps would be enclosed within the pump station structure below grade (underground)

Pipeline alignments would be located at least 400 feet from the closest residence. Installation and operation noise from proposed pipelines is not expected to affect residences. The access road alignment would be adjacent to several residences within the private residential community to the east of the project site. Construction of the access road would entail: (1) paving of the northern portion and (2) graveling of the southernmost 1,000 feet of the road (including the portion of the road adjacent to residences). Graveling activities would not expose nearby residences excessive noise levels.

On average, noise levels at any one location would be lower than those described above because there would be periods of reduced activity, including at the start and end of the construction shift, during lunch and other breaks, and when specific tasks are being conducted that require relatively little use of heavy machinery. Additionally, as noted above, intense construction activity would vary in location, reducing the duration of time that heavy equipment use is in close proximity to any one location. Accordingly, even though construction could occur over a ten-hour period (7:00 A.M. to 5:00 P.M.) on non-holiday weekdays, it would be unlikely to cause noise at a level of in excess of 75 dBA for more than eight hours on any given day at a residential property line.

- b. **Less-Than-Significant Impact.** Blasting may be required for pump station installation. Vibrations associated with blasting could be felt up to approximately 0.5 mile from the blast site. The effects of any given blast, however, would be extremely limited in duration. As noted in the Description of Proposed Project section, above, blasting would be performed per the safety standards of the U.S. Bureau of Mines to limit potential damage to nearby residential structures as a result of ground vibration. The minimum allowable distance from the blasting site to a residential structure would be determined based on U.S. Bureau of Mines safety standards. Ground vibration monitoring by a qualified inspector using a calibrated seismograph would be required for all blasting shots. A site-specific blasting plan would be prepared by the blasting contractor and approved by the Project Engineer and OMWD for blasting within 25 feet of an existing pipeline or structure (e.g., the reservoir). Proper inspection of existing structures before, during and after blasting would be performed. Accordingly, groundborne vibration impacts would be less than significant.
- c. **No Impact.** Operation of underground pipelines would not produce any permanent noise. The pump station, once operational, would produce noise; however, the pump station would be located in a vault that is recessed into a slope and would partially be underground. The noise increase associated with the pump station would not be substantial. The closest sensitive receptor (a residential community) would be approximately 400 feet to the east and is not anticipated to be substantially affected by the noise produced during the operation of the pump station.

- d. **Less-Than-Significant Impact.** Temporary noise impacts associated with construction would be less than significant with regard to local residents. This assessment reflects the short-term nature of the construction noise impacts and the other factors described in response to IS checklist response XI.a.
- e. **No Impact.** The proposed project consists of buried pipelines, a pump station, retaining walls and an access road and would not be located within an airport land use plan; therefore, no associated impacts would occur.
- f. **No Impact.** The proposed project consists of buried pipelines, a pump station, retaining walls and an access road and would not be located near a private airstrip; therefore, no associated impacts would occur.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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XII. POPULATION AND HOUSING

Would the project:

- | | | | | |
|---|-----------------------|-----------------------|-----------------------|-------------------------------------|
| a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |
| b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |
| c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |

Explanations of Environmental Impacts

- a. **No Impact.** The proposed project would ultimately provide recycled water to existing parks, schools, greenbelts within developed areas and golf courses within the southern portion of OMWD's service area. The proposed project would not, however, extend water service to new areas or allow development of land that previously could not be developed due to water service constraints. The project includes construction of an access road; however, this road would lead from the existing reservoir and proposed pump station to a road within a gated residential community. The access road would be gated and used only by authorized personnel. Accordingly, the proposed project would not directly or indirectly induce population growth.

- b. **No Impact.** The proposed project would not displace homes.
- c. **No Impact.** The proposed project would not displace people.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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XIII. PUBLIC SERVICES

- a) Would the project result in substantial adverse physical impacts associated with the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

Fire protection?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Police protection?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Schools?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Parks?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other public facilities?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Explanations of Environmental Impacts

- a. **Fire Protection – Less-Than-Significant Impact.** The installation and operation of underground raw and recycled water pipelines and a pump station and construction of retaining walls and an access road would generate virtually no demand for increased public services. During construction, some public services may be required, such as police or fire protection, but these would be short-term requirements and would not require increases in the level of public service offered or affect these agencies’ response times. Because of the low probability and short-term nature of potential fire or police protection needs during construction, the proposed project would not result in associated significant impacts.

Police Protection – Less-Than-Significant Impact. Impacts to police protection would be less than significant for the reasons similar to those provided for “Fire Protection,” above.

Schools – No Impact. Long-term operation of the proposed facilities would place no demand on school services because it would not involve the construction of facilities that require such services

(e.g., residences) and would not involve the introduction of a temporary or permanent human population into the area.

Parks – No Impact. Long-term operation of the proposed facilities would place no demand on parks because it would not involve the construction of facilities that require such services (e.g., residences) and would not involve the introduction of a temporary or permanent human population into the area.

Other Public Facilities – No Impact. No other existing public service facilities are located within the project site, and the proposed project would not involve the introduction of a temporary or permanent human population into this area. Based on these factors, the proposed project would not result in any long-term impacts to other public facilities.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. RECREATION				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>

Explanations of Environmental Impacts

- a. **No Impact.** As noted in IS checklist response XIII.a, the proposed project would not involve the introduction of a temporary or permanent human population into the area. Therefore, it would not increase the demand on existing recreational facilities.
- b. **No Impact.** The proposed project neither includes recreational facilities nor requires the construction or expansion of recreational facilities.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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XV. TRANSPORTATION/TRAFFIC

Would the project:

- | | | | | |
|--|-----------------------|-----------------------|----------------------------------|----------------------------------|
| a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| e) Result in inadequate emergency access? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| f) Result in inadequate parking capacity? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

Explanations of Environmental Impacts

- a. **Less-Than-Significant Impact.** The proposed project would generate construction traffic that is negligible in comparison to local road capacities. Project construction related traffic would include: (1) trucks to transport construction materials and export excess fill material and (2) construction worker personal vehicles. Only a few truck trips per day would be necessary during construction. On any given day, the actual number of truck trips would vary depending on that day's construction activities. Up to 18 commuter (construction worker) vehicle trips would occur near the start and toward the end of each construction day. Upon completion of project construction, personnel would visit the pump station daily. This volume of construction and post-construction traffic would

be minor in comparison to road capacities and volumes and would constitute a less-than-significant impact to traffic.

- b. **Less-Than-Significant Impact.** The minor levels of proposed project related traffic generation, as described in response to IS checklist response XV.a, would not individually or cumulatively exceed established level of service standards.
- c. **No Impact.** The proposed project would not affect air traffic patterns.
- d. **No Impact.** The proposed project would not include design features that would affect traffic safety, nor would it cause incompatible uses (such as tractors) on local roads.
- e. **Less-Than-Significant Impact.** Three of the proposed pipelines would cross Artesian Road. Installation within Artesian Road would require flagging traffic around the work site for a short period (e.g., a few hours). Traffic would not be limited after project construction. Once installed, the proposed project (underground pipelines, a pump station, retaining walls and an access road) would not restrict emergency access to local properties.
- f. **No Impact.** Construction and commuter vehicles would be parked in the project site or in the existing access road to the treatment plant. The proposed project would not impede the parking capacity of the residents to the east or employees of the treatment plant.
- g. **No Impact.** The proposed project would have no effect on alternative transportation plans.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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XVI. UTILITIES AND SERVICE SYSTEMS

Would the project:

- | | | | | |
|--|-----------------------|-----------------------|-----------------------|-------------------------------------|
| a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |
| b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="checkbox"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Explanations of Environmental Impacts

- a. **No Impact.** Because it would not involve the construction of facilities that would generate sewage, the proposed project would not require the construction or expansion of any wastewater facilities or exceed applicable wastewater treatment requirements.
- b. **No Impact.** The proposed project would connect to existing water pipelines and would provide recycled water from the treatment plant and reservoir. The proposed project would not require expansion of the treatment plant, reservoir or other facilities.
- c. **Less-Than-Significant Impact.** The installation and operation of underground pipelines and a pump station and construction of retaining walls would not require the construction or expansion of storm water drainage facilities. Storm drains and swales would be installed along the access road; however, the construction of such would not result in a significant environmental effect. No additional water drainage facilities would be required.
- d. **No Impact.** The proposed project would ultimately provide recycled water from the treatment plant and the reservoir to existing parks, schools, greenbelts within developed areas and golf courses within the southern portion of OMWD's service area, and would not affect existing potable

water entitlements or resources. The proposed project would not constitute a new source of water, and it would not increase (and may reduce) the amount of potable water imported by OMWD. The use of recycled water within OMWD's service area would help offset the increasing demand for potable water.

- e. **No Impact.** The proposed project would connect to existing pipelines and would ultimately provide recycled water from the treatment plant and the reservoir. The proposed project would not require or result in the construction of new wastewater treatment facilities or expansion of existing wastewater treatment facilities.
- f. **No Impact.** Solid waste generation during construction of the proposed pipelines, pump station and access road would be short-term and minimal. Operation of these facilities would not generate any solid waste or effect landfill capacities.
- g. **No Impact.** The proposed project would comply with all applicable federal, state and local statutes and regulations related to solid waste.

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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XVII. MANDATORY FINDINGS OF SIGNIFICANCE

- | | | | | |
|--|-----------------------|----------------------------------|----------------------------------|-----------------------|
| a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?	○	○	✓	○

Explanations of Environmental Impacts

- a. **Less-Than-Significant Impact with Mitigation Incorporated.** As described in response to IS checklist response IV.a, noise associated with pipeline construction could indirectly impact breeding pairs of coastal California gnatcatcher (if present). This potentially significant impact would be reduced to a less-than-significant level through the implementation of a mitigation measure designed to avoid construction noise greater than 60 dBA in occupied habitat during the coastal California gnatcatcher breeding season. The proposed project would not otherwise significantly degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory.

- b. **Less-Than-Significant Impact.** The proposed project would not incrementally contribute to cumulatively considerable impacts. This assessment reflects the short-term nature of virtually all project impacts (that is, most project impacts would occur only during the nine-month construction period) and the localized nature of those impacts.

- c. **Less-Than-Significant Impact.** Potential environmental effects that may cause substantial adverse effects on human beings associated with the proposed project involve biological resources and noise issues. The proposed project would not cause adverse health or safety impacts. As described above in the responses to the IS checklist responses IV.a and XI.a, potentially significant impacts associated with biological resources and noise would be reduced below a level of significance through the identified mitigation measure. No other aspects of the proposed project would have environmental effects that cause substantial, adverse effects on human beings.

SOURCES

The following list of references has been directly cited or has otherwise provided a source of information during preparation of this Initial Study and Environmental Checklist.

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FINAL MITIGATED NEGATIVE DECLARATION

SANTA FE VALLEY PUMP STATION AND OFFSITE PIPELINES PROJECT

PROJECT DESCRIPTION

The Olivenhain Municipal Water District (OMWD; District) proposes to install and operate a recycled water pump station and approximately 7,300 feet of underground raw (untreated) and recycled water pipelines within the County of San Diego (County) in the community of Rancho Santa Fe. The proposed pipelines would connect to existing pipelines in the area. The proposed project also includes the construction of retaining walls adjacent to the pump station and the existing three million-gallon Santa Fe Valley Blending Reservoir; construction of an access road to the reservoir and proposed pump station; and installation of landscaping and irrigation around the reservoir, pump station and retaining walls. This proposed project is known as the “Santa Fe Valley Pump Station and Offsite Pipelines Project.” The proposed project would improve connectivity and ultimately provide recycled water service from the Rancho Santa Fe Community Service District (RSFCSD) Wastewater Treatment Plant and reservoir within OMWD’s existing service area. The proposed project would not constitute a new source of water, and it would not increase (and may reduce) the amount of potable water imported by OMWD. The use of recycled water for irrigation to parks, schools, greenbelts within developed areas and golf courses within the southern portion of OMWD’s service area would help offset the increasing demand for potable water.

The two-level pump station building would be recessed into the southern slope adjacent to the existing reservoir so that only the front side of the upper level and the four exhaust fans on the roof would be visible. All other sides of the building (including the remainder of the roof) would be surrounded by backfill. The exposed building face would be approximately 34 feet in length. The pump station would be prefabricated and include four pumps that would run on electricity. A 24-inch diameter pipeline would supply water from the reservoir to the pump station and a 24-inch diameter pipeline would serve as an overflow line that would connect to the existing RSFCSD wet weather storage pond.

Two concrete/masonry retaining walls (34 and 64 feet in length and 3 to 11 feet above grade) would be constructed immediately adjacent to the pump station to support soil surrounding the pump station.

Five pipelines would extend from the reservoir or the pump station and connect to existing pipelines within the project site. The proposed pipelines include: an 8-inch diameter recycled water drain pipeline, a 10-inch diameter raw water pipeline and three recycled water pipelines (8-, 12- and 16-inch diameters).

OMWD anticipates that each of the proposed pipelines would be located within an approximately two- to four-foot-wide trench, depending of the diameter of the individual pipeline. The depth of cover over the pipelines would range between 3 and 14 feet.

The proposed approximately 16-foot-wide access road would extend east from the reservoir to an existing 25-foot-wide utility easement, continue southeast within the easement and connect to Saw Leaf Lane (an existing residential collector road). The northernmost approximately 400 feet of the road would be paved with asphalt and the remaining approximately 1,000 feet would be paved with 6-inch-deep gravel on a 10-inch-deep base of decomposed granite. Storm drains and a swale would be constructed along the road.

The area surrounding the reservoir, pump station and retaining walls would be hydroseeded and landscaped with native or drought tolerant plants to provide screening. Irrigation pipelines would be installed prior to landscaping and would be equipped with water conservation mechanisms.

Construction activities are expected to begin in February 2005 and would require approximately nine months to complete. The pump station is anticipated to be installed approximately two to three months after construction starts. The retaining walls, pipelines and access road are expected to be constructed concurrent with pump station installation. OMWD estimates that pipeline installation would occur at a rate of approximately 200 to 250 feet per day. Installation of irrigation and landscaping is expected to be completed within one month following the completion of construction activities.

Pipeline installation would disturb up to approximately 0.6 acre of non-native grassland immediately west of the RSFCSW Wastewater Treatment Plant access road near the access road's junction with Artesian Road. Following construction, this area would be hydroseeded using a native grassland seed mix.

ENVIRONMENTAL DETERMINATION

The attached Initial Study (IS) was prepared to assess the potential effects of the proposed project on the environment and the potential significance of those effects. Based on the IS, the proposed project would have less-than-significant or no impacts in the following areas:

- Aesthetics
- Agricultural Resources
- Air Quality
- Cultural Resources
- Geology/Soils
- Hazards and Hazardous Materials
- Hydrology/Water Quality
- Land Use/Planning
- Mineral Resources
- Noise
- Population/Housing
- Public Services
- Recreation
- Transportation/Traffic
- Utilities/Service Systems

The IS indicates that the proposed project would have potentially significant impacts in the area of:

- Biological Resources

Potential impacts to the coastal California gnatcatcher can be mitigated to less-than-significant levels. If the proposed project is approved and constructed, OMWD will implement the following mitigation measure:

Bio-1. If project construction activities are scheduled to occur during the breeding season for coastal California gnatcatcher (February 15 through August 31), three surveys pursuant to U.S. Fish and Wildlife Service protocol shall be conducted to determine the presence or absence of the species in coastal sage scrub habitat within 500 feet of the project site. If it is determined that the species is absent, construction may proceed without restrictions. If the coastal California gnatcatcher is present within 500 feet of the project site, no construction activities shall be allowed between February 15 and August 31, unless shielding is used to reduce construction noise levels to less than 60 dBA at the species' habitat. Shielding shall be approved by a qualified acoustician. No coastal California gnatcatcher-related restrictions will be placed on construction activities outside of the coastal California gnatcatcher breeding season.

Summary

In light of the analysis in the IS, and the mitigation measure identified therein (and listed above) for inclusion in the proposed project, OMWD finds that the Santa Fe Valley Pump Station and Offsite Pipelines Project would not have a significant effect on the environment.

APPENDIX B

MITIGATION MONITORING AND REPORTING PROGRAM

SANTA FE VALLEY PUMP STATION AND OFFSITE PIPELINES PROJECT

MITIGATION MONITORING AND REPORTING PROGRAM

The Olivenhain Municipal Water District (OMWD) has prepared this Mitigation Monitoring and Reporting Program (MMRP) for the Santa Fe Valley Pump Station and Offsite Pipelines Project (proposed project). This MMRP has been prepared in compliance with the California Environmental Quality Act (CEQA) and its implementing guidelines (see California Public Resources Code, § 21081.6 and *State CEQA Guidelines* § 15097). OMWD will use this MMRP, which incorporates the mitigation measure identified in the *Santa Fe Valley Pump Station and Offsite Pipelines Project Final Mitigated Negative Declaration*, to track mitigation compliance.

This MMRP includes one measure that will minimize or avoid impacts to Biological Resources (measure Bio-1).

OMWD will monitor and report on the implementation of this measure as specified in the following page. During the implementation of the proposed project, OMWD may make minor changes to the MMRP as appropriate based on field conditions, environmental permit requirements and/or construction requirements, provided that these changes do not require the preparation of a subsequent Negative Declaration pursuant to *State CEQA Guidelines* § 15162.

The OMWD of Directors adopted this MMRP on December 22, 2004.

**Santa Fe Valley Pump Station and Offsite Pipelines Project
Mitigation Monitoring and Reporting Program**

Resource & Impact	Mitigation Measure(s)	Monitoring Activity	Party Responsible for Monitoring	Reporting Activity
<p>Biological Resources Project construction near Diegan coastal sage scrub habitat could cause indirect noise impacts to the federally listed as threatened coastal California gnatcatcher (<i>Poliptila californica californica</i>) if (A) construction occurs during the gnatcatcher breeding season and (B) the affected habitat is occupied by breeding gnatcatchers.</p>	<p>Bio-1 If project construction activities are scheduled to occur during the breeding season for coastal California gnatcatcher (February 15 through August 31), three surveys pursuant to U.S. Fish and Wildlife Service protocol shall be conducted to determine the presence or absence of the species in coastal sage scrub habitat within 500 feet of the project site. If it is determined that the species is absent, construction may proceed without restrictions. If the coastal California gnatcatcher is present within 500 feet of the project site, no construction activities shall be allowed between February 15 and August 31, unless shielding is used to reduce construction noise levels to less than 60 dBA at the species' habitat. Shielding shall be approved by a qualified acoustician. No coastal California gnatcatcher-related restrictions will be placed on construction activities outside of the coastal California gnatcatcher breeding season.</p>	<p>No monitoring is required if construction occurs outside the February 15 through August 31 breeding season. If construction occurs between February 15 and August 31, three surveys pursuant to U.S. Fish and Wildlife Service protocol shall be conducted to determine the presence or absence of the species in coastal sage scrub habitat within 500 feet of the project site. If the coastal California gnatcatcher is present within 500 feet of the project site, no construction activities shall be allowed between February 15 and August 31, unless shielding is used to reduce construction noise levels to less than 60 dBA at the species' habitat. If acoustic shielding is required, it will be designed by a "qualified acoustician," defined herein as an acoustician with at least three years experience conducting noise impact studies and designing acoustical shielding, and with prior experience assessing construction noise impacts on wildlife habitat. The qualified acoustician will verify in the field that the installed acoustical shielding will reduce construction noise impacts to less than 60 dBA in the coastal California gnatcatcher habitat.</p>	<p>Olivenhain Municipal Water District (OMWD)</p>	<p>No reporting is necessary if construction occurs outside the February 15 through August 31 coastal California gnatcatcher breeding season. If construction occurs during the breeding season, reporting will consist of a survey report documenting the results of the three U.S. Fish and Wildlife Service-protocol gnatcatcher surveys. If the survey report is positive (coastal California gnatcatchers are detected within 500 feet of the proposed project construction area), the reporting will also include a memo from the noise monitor (qualified acoustician) following completion of monitoring activities.</p>