

COUNCIL DOCKET OF \_\_\_\_\_

Supplemental     Adoption     Consent     Unanimous Consent    Rules Committee Consultant Review

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Advertise and Award of Alvarado WTP Upgrades and Expansion – Phase III, Rehabilitation of Basins 1 and 2

Reviewed     Initiated    By NR&C    On 12/03/08    Item No. 6

RECOMMENDATION TO:

Forward this item to the full City Council.

VOTED YEA: Frye, Faulconer, Peters

VOTED NAY:

NOT PRESENT: Atkins

CITY CLERK: Please reference the following reports on the City Council Docket:

REPORT TO THE CITY COUNCIL NO.

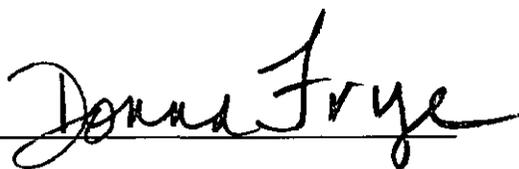
INDEPENDENT BUDGET ANALYST NO.

COUNCIL COMMITTEE CONSULTANT ANALYSIS NO.

OTHER:

Engineering and Capital Projects Department's November 26, 2008, Executive Summary

COUNCIL COMMITTEE CONSULTANT



## EXECUTIVE SUMMARY SHEET

DATE REPORT ISSUED: November 26, 2008  
ATTENTION: Natural Resources & Culture Committee  
Agenda of December 3, 2008  
ORIGINATING DEPT: Engineering and Capital Projects, Architectural Engineering & Parks  
Division  
SUBJECT: Advertise and Award of Alvarado WTP Upgrades & Expansion (Phase III –  
Rehabilitation of Basins 1 & 2)  
COUNCIL DISTRICTS: (7) Jim Madaffer  
STAFF CONTACT: Darren Greenhalgh/Iraj Asgharzadeh (619) 533-6600/(619) 533-5105

REQUESTED ACTIONS:

Council authorization to Advertise and Award a construction contract for Alvarado WTP Upgrade & Expansion (Phase III – Rehabilitation of Basins 1 & 2).

STAFF RECOMMENDATIONS:

Adopt the Resolutions.

EXECUTIVE SUMMARY:

As part of the Water Department Capital Improvements Program, the Alvarado Water Treatment Plant (AWTP) is undergoing an upgrade and expansion to increase its treatment capacity as well as provide infrastructure improvements to address new Federal Drinking Water Standards, and improve the operations and maintenance at the facility.

*The existing flocculation/sedimentation basins 1 & 2 require rehabilitation and upgrade which is the third phase of the AWTP Upgrade & Expansion project. The project consists of partial demolition of both flocculation basins; and the construction of new influent and effluent pipelines, overflow channels, flocculation basins and flocculator systems, modification of the settled water conduit to accommodate conveyance of ozonated settled water to the filters on the west end of the plant, upgrades of sedimentation equipment, and the sludge collection and conveyance systems.*

This project will meet the new drinking water standards set by the U.S. Environmental Protection Agency and included as Items Number 99 & 100 in the California Department of Public Health Compliance Order (04-14-96CO-022). In order to fulfill the Compliance Order, construction of these improvements must complete by June 30, 2012. In addition, the completion of this project is related to the Ozone project which needs to be completed by December 31, 2010 for water treatment and disinfection purposes.

The City of San Diego, as Lead Agency under the California Environmental Quality Act, has reviewed and considered the Addendum, LDR No. 98-0130, dated May 20, 1994, covering the AWTP Upgrade and Expansion, adopted on June 29, 1998, R-290389, to the Alvarado Water Filtration Plant Expansion and Rehabilitation EIR, DEP No. 88-0459, dated May 20, 1994 and adopted on June 29, 1998, R-290389.

City Forces will be utilized on this project for coordinating and effecting operational changes and difficult plant shutdown during construction, while maintaining continuous service to the City of San Diego customers. The work scope also includes closing and opening large diameter valves, monitoring flow in the existing clear wells and day to day coordination with the project team. Their knowledge, experience and participation on the project are essential to the success of the project. The cost for this work is estimated at \$450,000 for the duration of the project.

EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP):

Funding Agency: City of San Diego – Prevailing wages applies to this contract.

Goals: 46% Mandatory Subcontractor Participation Goal, 14% Advisory Participation Goal Disadvantaged Business Enterprise (DBE), 2% Advisory Participation Goal Disabled Veteran Business Enterprise (DVBE), 30% Advisory Participation Goal Other Business Enterprise (OBE)

Other: Prior to award, a workforce report, and if necessary, an Equal Opportunity Plan shall be submitted. Staff will monitor the Plan and adherence to the Nondiscrimination Ordinance. EOC staff will evaluate the bidder's compliance with SCOPe. Failure to comply with SCOPe will lead to the bid being declared non-responsive. This contract will be advertised for bids in the San Diego Daily Transcript, the City of San Diego's website, and the E-Bid Board. In addition, once implemented, the Bidder Registration Program will notify registered participants of bid opportunities. Prior to implementation of the Bidder Registration Program, the City will notify trade associations and eligible firms via fax and/or e-mail.

FISCAL CONSIDERATIONS:

The total estimated cost of this project is \$29,712,559, of which \$3,785,529 was previously approved by O-19763. Enterprise funding of \$24,761,530 will be available in CIP No. 73-261.3, AWTP Upgrade and Expansion (Phase III – Rehabilitation of Basins 1 & 2) Fund 41500, Water, and \$1,165,500 is from CIP 73-331.0, Annual Allocation-Water Pooled Contingency, Fund 41500, Water for the purpose of providing funds for this project contingency. The project costs of \$29,712,559 may be reimbursed approximately 80% by current or future debt financing. This project is scheduled to be phase-funded over three fiscal years from FY09 to FY11. No future funding is anticipated. Contingent upon the availability of funds, the City Comptroller will issue an Auditor Certificate for each phase of the project.

PREVIOUS COUNCIL COMMITTEE ACTION:

Council Ordinance O-19763 approved the amendment No. 2 with Malcolm Pirnie, Inc. and amendment No. 3 with CH2M Hill, Inc. for various AWTP Upgrade & Expansion projects. The subject item will be presented to the Committee on Natural Resources and Culture prior to the Council docket date.

COMMUNITY PARTICIPATION AND PUBLIC OUTREACH EFFORTS:

Community meetings have been conducted to inform members of the public, including the Friends of Lake Murray, Mission Trails Regional Park Citizen's Advisory Committee (CAC) and Task Force (TF), and local residents about the scope and schedule of the AWTP Upgrade and Expansion Project. A CIP hotline is regularly maintained to answer questions and provide information to the public. Door hangers, fact sheets, newsletters, AWTP WaterWorks newsletters, and updates on the City of San Diego Web site also add to the public outreach efforts.

KEY STAKEHOLDERS & PROTECTED IMPACTS (if applicable):

Citywide Water Customers, MPI, Inc. (Design Consultant), CH2M HILL, Inc (Construction Management Consultant), Mission Trails Regional Park Citizen's Advisory Committee and Task Force, San Diego County Water Authority and California Department of Public Health.



Patti K. Boekamp, Director  
Engineering & Capital Projects Department



David Jarrell  
Deputy Chief of Public Works



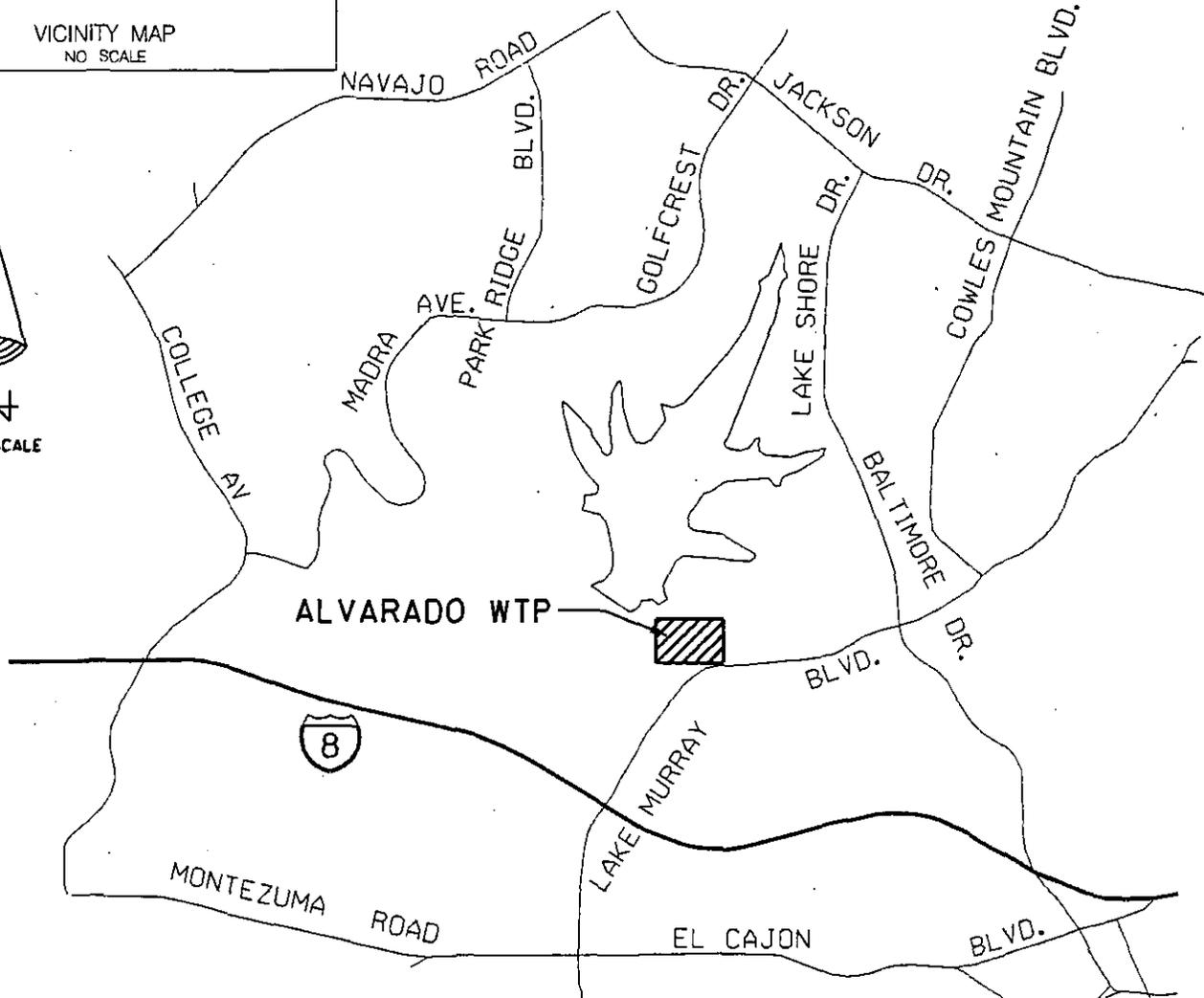
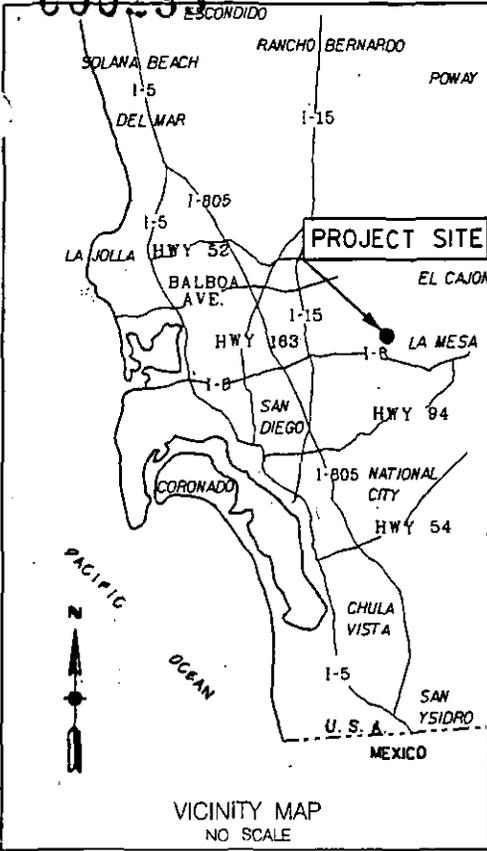


000233

# ALVARADO WATER TREATMENT PLANT

SENIOR CIVIL ENGINEER:  
Iraj Asgharzadeh  
619-533-5105

ASSOCIATE ENGINEER CIVIL:  
Ed Fordan  
619-533-4105



<b>000235</b> DOCKET SUPPORTING INFORMATION CITY OF SAN DIEGO <b>EQUAL OPPORTUNITY CONTRACTING PROGRAM EVALUATION</b>	DATE: October 29, 2008 <div style="text-align: right;">100 01/13</div>
SUBJECT: Advertise and Award of Alvarado WTP Upgrade & Expansion (Phase III – Rehabilitation of Basins 1 & 2)	

**GENERAL CONTRACTOR INFORMATION**

Recommended Contractor: Unidentified at this time

Amount of this Action: \$25,927,030.00

Funding Source: City

Goals: 46% Mandatory Subcontractor Participation Goal.  
14% Advisory Disadvantaged Business Enterprise (DBE)  
2% Advisory Disabled Veteran Business Enterprise (DVBE)  
30% Advisory Other Business Enterprise (OBE)

**SUBCONTRACTOR PARTICIPATION**

There are no subcontractors identified at this time.

**EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE**

Equal Opportunity: Required

This agreement is subject to the City's Equal Opportunity Contracting (San Diego Ordinance No. 18173, Section 22.2701 through 22.2702) and Non-Discrimination in Contracting Ordinance (San Diego Municipal Code Sections 22.3501 through 22.3517)

**ADDITIONAL COMMENTS**

This action will authorize plans and specifications, expenditure, establishing funding phases, and execution of a construction contract with the lowest responsible bidder for the construction of the Alvarado Water Treatment Plant Upgrade and Expansion Phase III – Rehabilitation of Basins 1 & 2.

  
JLR

ORDINANCE NUMBER O- 19763 (NEW SERIES)DATE OF FINAL PASSAGE JUL 15 2008

AN ORDINANCE OF THE COUNCIL OF THE CITY OF  
SAN DIEGO APPROVING AMENDMENT NO. 2 WITH  
MALCOLM PIRNIE, INC. AND AMENDMENT NO. 3  
WITH CH2M HILL, INC. FOR VARIOUS WATER  
PROJECTS.

WHEREAS, the City entered into an Agreement with Malcolm Pirnie, Inc. [MPI] on April 15, 2002, to provide construction support services on the Earl Thomas Reservoir Replacement, and design and construction support services on the Alvarado Water Treatment Plant [AWTP] Phase II; and

WHEREAS, the City entered into a First Amendment to the Agreement with MPI on March 1, 2007, to extend the contract for three years and increase the compensation by \$1,300,000 to provide construction support services on the Earl Thomas Reservoir Replacement, and design and construction support services on the AWTP Phase II; and

WHEREAS, a Second Amendment to the agreement with MPI is needed to extend the term of the Agreement through December 31, 2012, update the design for the Phase III Rehabilitation of Basins 1 & 2, and to provide construction support services for both Phase IV Ozone Improvements and Phase III Rehabilitation of Basins 1 & 2.; and

WHEREAS, the City entered into an Agreement with CH2M Hill, Inc., on January 14, 2002, to provide construction management services for the Earl Thomas Reservoir Replacement and AWTP Phase II; and

WHEREAS, the City entered into a First Amendment to the Agreement with CH2M Hill, Inc., on July 2, 2004, to provide construction management services for the Earl Thomas Reservoir Replacement and AWTP Phase II; and

WHEREAS, the City entered into a Supplemental Agreement with CH2M Hill, Inc., on November 30, 2006, to provide construction management services for an additional three years for the Earl Thomas Reservoir Replacement and AWTP Phase II; and

WHEREAS, the City entered into a Second Amendment to the Agreement with CH2M Hill, Inc., December 1, 2006, to extend the contract time threes and revise the phase funded compensation schedule by \$467,789.16 to provide construction management services for the Earl Thomas Reservoir Replacement and AWTP Phase II; and

WHEREAS, construction is now proceeding on Phase IV Ozone Improvements, Phase III Rehabilitation of Basins 1 & 2 and SD17FCF/PS at AWTP; and

WHEREAS, a Third Amendment to the Agreement with CH2M Hill is needed to extend the term of the Agreement through December 31, 2013, and to provide construction management services to these projects; and

WHEREAS, each of these various projects are complex and subject to Department of Public Health Compliance Orders; and

WHEREAS, both MPI and CH2M Hill have the needed expertise in the areas of water treatment design development and treatment plant construction management, respectively;

NOW, THEREFORE,

BE IT ORDAINED, by the Council of the City of San Diego, as follows:

Section 1. That the Mayor, be and he is hereby authorized and empowered to execute, for and on behalf of said City, to execute a phase -funded Second Amendment to the Agreement with Malcolm Pirnie, Inc., for design and construction support services in CIP No. 73-261.3, Alvarado Water Treatment Plant-Upgrade and Expansion (Phase IV Ozone Improvements and Phase III Rehabilitation of Basins 1 & 2) in the amount not to exceed \$5,183,696, under the terms and conditions set forth in the agreement on file in the Office of the City Clerk as Document No. OO- 19763 - 1.

Section 2. That funding for the phase funded Second Amendment to the Agreement with Malcolm Pirnie, Inc. shall be allocated as follows: Phase 7 (FY08) = \$1,100,000.00; Phase 8 (FY09) = \$2,100,000.00; Phase 9 (FY10) = \$1,983,696.00. The execution of these phases shall be performed by the Mayor or his designee contingent upon City Council approval of the Project in the Water Department's budget for the above fiscal years, and contingent upon the City Auditor and Comptroller furnishing one or more certificates certifying that funds necessary for expenditure under established contract funding phases are, or will be, on deposit with the City Treasurer.

Section 3. That the Mayor, be and he is hereby authorized and empowered to execute, for and on behalf of said City, to execute a phase-funded Third Amendment to the Agreement with CH2M Hill, Inc., for construction management services in CIP No. 73-261.3, Alvarado Water Treatment Plant-Upgrade and Expansion (Phase IV Ozone Improvements and Phase III Rehabilitation of Basins 1 & 2) in the amount not to exceed \$6,433,716 and in CIP No. 73-314.0,

San Diego 17 Flow Control Facility and Pump Station in the amount not to exceed \$969,607, for a total amount of \$7,403,323, under the terms and conditions set forth in the agreement on file in the Office of the City Clerk as Document No. OO- 19763 <sup>-2</sup>.

Section 4. That funding for the phase funded Third Amendment to the Agreement with CH2M Hill, Inc. shall be allocated as follows: Phase 6 (FY08) = \$2,027,469.00; Phase 7 (FY09) = \$3,927,333.00; Phase 8 (FY10) = \$1,348,521.00; Phase 9 (FY11) = \$100,000.00. The execution of these phases shall be performed by the Mayor or his designee contingent upon City Council approval of the Project in the Water Department's budget for the above fiscal years, and contingent upon the City Auditor and Comptroller furnishing one or more certificates certifying that funds necessary for expenditure under established contract funding phases are, or will be, on deposit with the City Treasurer.

Section 5. That the expenditure of \$3,785,529 from CIP No. 73-261.3, Alvarado Water Treatment Plant-Upgrade and Expansion (Phase III Rehabilitation of Basins 1 & 2), Fund No. 41500, Water, for the purpose of executing these agreements is authorized, contingent upon the City Auditor and Comptroller furnishing one or more certificates certifying that funds necessary for expenditure under established contract funding phases are, or will be, on deposit with the City Treasurer.

Section 6. That the expenditure of \$969,607 from CIP No. 73-314.0, San Diego 17 Flow Control Facility and Pump Station, Fund No. 41500, Water, for the purpose of executing the CH2M Hill, Inc. agreement, contingent upon the City Auditor and Comptroller furnishing one or more certificates certifying that funds necessary for expenditure under established contract funding phases are, or will be, on deposit with the City Treasurer.

Section 7. Authorizing FY08-Phase 7 in the amount of \$1,100,000 with Malcolm Pirnie, Inc., for Alvarado Water Treatment Plant-Upgrade and Expansion (Phase IV Ozone Improvements and Phase III Rehabilitation of Basins 1 & 2). The execution of these phases shall be performed by the Mayor or his designee contingent upon City Council approval of the Project in the Water Department's budget for the above fiscal years, and contingent upon the City Auditor and Comptroller furnishing one or more certificates certifying that funds necessary for expenditure under established contract funding phases are, or will be, on deposit with the City Treasurer.

Section 8. Authorizing FY08-Phase 6 in the amount of \$2,027,469 with CH2M Hill, Inc., for Alvarado Water Treatment Plant-Upgrade and Expansion (Phase IV Ozone Improvements and Phase III Rehabilitation of Basins 1 & 2) and San Diego 17 Flow Control Facility and Pump Station.

Section 9. Authorizing the City Auditor and Comptroller, upon advice from the administering department, to return excess budgeted funds, if any, to the appropriate reserves.

Section 10. That this activity is not subject to the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines 15378(c). This activity is a subsequent discretionary approval covered under LDR No. 40-0259, Addendum to EIR No. 88-0459, Alvarado Water Filtration Plant Expansion and Rehabilitation. The activity is adequately addressed in the environmental document and there is no change in circumstances, additional information, or project changes to warrant additional environmental review pursuant to CEQA Guidelines section 15177.

Section 11. That this activity is not subject to the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines 15378(c). This activity is a subsequent discretionary approval covered under Negative Declaration (No. 104515, Final Report Dated November 22, 2006), San Diego 17 Pump Station/22 Flow Control Facility Project. The activity is adequately addressed in the environmental document and there is no change in circumstances, additional information, or project changes to warrant additional environmental review pursuant to CEQA Guidelines section 15162.

Section 9. That a full reading of this ordinance is dispensed with prior to passage, since a written copy was made available to the City Council and the public prior to the day of its passage.

Section 12. That this ordinance shall take effect and be in force on the thirtieth day from and after its final passage.

Section 13. That this ordinance shall take effect and be in force on the thirtieth day from and after its final passage.

APPROVED: MICHAEL J. AGUIRRE, City Attorney

By



Mark M. Mercer  
Deputy City Attorney

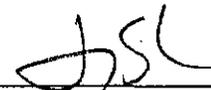
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05/09/08  
07/09/08 Cor. Copy  
Aud. Cert.:  
Or. Dept: E&CP  
O-2008-125

I hereby certify that the foregoing Ordinance was passed by the Council of the City of San Diego, at this meeting of JUN 24 2008.

ELIZABETH S. MALAND  
City Clerk

By   
Deputy City Clerk

Approved: 7-15-08  
(date)

  
JERRY SANDERS, Mayor

Vetoed: \_\_\_\_\_  
(date)

\_\_\_\_\_  
JERRY SANDERS, Mayor



Land Development  
Review Division  
(619) 236-6460

## Addendum to an Environmental Impact Report

LDR No. 98-0130  
Addendum to EIR No. 88-0459  
SCH No. 92121051

**SUBJECT:** Alvarado Water Filtration Plant Expansion and Rehabilitation.  
COUNCIL APPROVAL of Capital Improvement Project No. 73-261.0. The project as originally approved involved the expansion of the plant to a maximum capacity of 212.5 million gallons per day (MGD); and modernization of the plant to allow implementation of technology to achieve compliance with the 1986 amendments to the Federal Safe Drinking Water Act. This Addendum addresses revisions in the physical layout of the project components. The project area is within Mission Trails Regional Park in the Navajo community planning area (a portion of Lot 67 of a partition of a portion of Rancho Mission San Diego, Map 330, SCC 348). Applicant: City of San Diego Water Department.

### I. PROJECT DESCRIPTION:

The subject project consists of the expansion, upgrade, renovation, automation, and modernization of the Alvarado Water Filtration Plant in the Navajo community (see Figures 1 and 2). Affected facilities include reservoirs, pump stations, rapid mixing facility, filtration, flocculation/sedimentation basins, washwater system, residuals facilities, pipelines, chemical feed and storage areas, support facilities and the future addition of ozone disinfection. The San Diego City Council approved the project as described in Environmental Impact Report (EIR) No. 88-0459 on June 27, 1994. After the completion of the first major activities (demolition of the Alvarado Regulating Reservoir and construction of the Trojan Pipeline and two new reservoirs), the design and phasing of the remaining components were revised. The changes were developed by the Water Department with assistance from the Public Advisory Group, and are contained in the 1997 Strategic Plan for Water Supply (on file in the Water Department). The revisions include the deletion, reduction and/or relocation of several of the previously approved project elements. The proposed changes to the approved project design and phasing are listed below. Changes in the plant layout are shown on Figure 3.

## A. PLANT LAYOUT

- The Earl Thomas Reservoir would not be demolished. This reservoir would be used for additional treated water storage.
- The new flocculation basins, sedimentation basins, sludge thickeners, and ozone contactors that were originally planned to be located on the Earl Thomas Reservoir site, and the ozone generation facilities originally planned for the Operations Building would be moved to the Water Production Administration area west of the Training Facility.
- The electrical switchgear and emergency generator building, also planned to be built on the Earl Thomas site, would be moved to the north side of the existing Operations Building.
- The raw water chemical storage area would be moved to the north side of the existing Operations Building, next to the proposed finished water chemical feed/storage area.
- Previously approved plant access roads A and B would be eliminated.

## B. CONSTRUCTION PHASING

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Phase I: To meet the California Department of Health Services (DHS) Compliance Plan, the following activities must begin by November 30, 1998 and be completed by November 30, 2001:

- Construct 8 new filters on the east side of the existing basins (same location as previously approved design).
- Provide piping from the new filters to Earl Thomas Reservoir (modification to the previously approved design).
- Provide piping from the new filters to the new circular 21 mg reservoirs and Trojan Pipeline (minor changes to the approved design).
- Construct the finished water and raw water chemical facilities (change of location for the raw water chemical facilities).
- Replace and rehabilitate the existing Lake Murray and College Ranch Pump Stations (no change from the approved design).
- Construct the electrical switchgear facility and emergency generator building (change of location).
- Construct a 24" overflow pipe from the new reservoir effluent structure to the northwest of the new Lake Murray Pump Station

to replace the existing concrete overflow brow ditch (modification to previously approved design).

- Remove the excess dirt placed around the Earl Thomas Reservoir during previous construction activities.

Phase II: According to the DHS Compliance Plan, the following activities must begin by November 30, 2001 and be completed by December 1, 2003:

- Construct the new flocculation and sedimentation basins at the Water Production Administration area (change of location).
- Remodel and rehabilitate the existing Operations Building (scope of work reduced from the previously approved design).

Future Phases: In addition to the above items, if in the future the Environmental Protection Agency or DHS require ozonation for the disinfection process, the following work may be added:

- Rehabilitate the existing flocculation and sedimentation basins.
- Abandon or rehabilitate the existing filters.
- Construct the ozone contactors and ozone generation facilities (change of location).
- Construct 8 additional new filters.
- Construct the sludge thickening facilities (change of location).

Any increase in plant capacity over the originally approved 212.5 mgd would require additional environmental review.

II. ENVIRONMENTAL SETTING: See EIR Section 2.

III. PROJECT BACKGROUND:

An EIR (No. 88-0459) was completed on May 20, 1994 for the Alvarado Water Filtration Plant and Rehabilitation project. The EIR identified significant unmitigated noise impacts to residents directly adjacent to the Alvarado Regulating Reservoir (now demolished) and to residents east of the Earl Thomas Reservoir. The EIR also identified noise, biological, and paleontological impacts that could be mitigated to below a level of significance, and

cumulative impacts to biological and paleontological resources that could be mitigated to below a level of significance.

#### Land Use

The northern edge of the Alvarado Filtration Plant is adjacent to a City of San Diego Multiple Habitat Planning Area (MHPA). The City of San Diego Multiple Species Conservation Program Subarea Plan contains Land Use Adjacency Guidelines designed to minimize impacts to the MHPA. The Guidelines address drainage, toxics, lighting, noise, barriers, invasive species, brush management, and grading/land development. The Alvarado Water Filtration Plant Expansion and Rehabilitation project would conform to the Land Use Adjacency Guidelines, and would thus be consistent with the MSCP and the Subarea Plan.

#### Noise

The previous EIR stated that residents east of the Earl Thomas Reservoir would be subject to significant noise impacts from the demolition of the Earl Thomas Reservoir and construction of the new sedimentation/flocculation basins on the Earl Thomas Reservoir site, and that although mitigation measures would be implemented, they would not reduce noise impacts to below a level of significance. The revised project eliminates demolition of the Earl Thomas Reservoir; therefore, demolition noise impacts at this site would be avoided. In addition, the new sedimentation/flocculation basins would be constructed farther away from any residences. Construction noises related to this facility would be reduced but are still considered potentially significant. The noise mitigation measures identified in the EIR would be applied as appropriate during the construction of any new facilities on the eastern side of the plant.

#### Paleontological Resources

The original EIR stated that development of the project site could disturb fossil-bearing formations. Mitigation measures consisted of paleontological monitoring during excavation into previously undisturbed formations, recovery and curation of discovered fossils, and preparation of a monitoring results report. The mitigation measures identified in the EIR would be applied to the construction activities addressed in this document.

#### Biological Resources

EIR No. 88-0459 identified impacts to coastal sage scrub and freshwater marsh habitat, as well as noise impacts to the California gnatcatcher, which is known to occupy the coastal sage scrub habitat on the north side of Lake Murray dam and in Chaparral Canyon south and west of the dam. This area is within a City of San Diego MHPA. Portions of the work associated with the noise impacts have already been completed; however, elements of the project (both originally

approved and revised) have yet to be built, and would be subject to the same mitigation measures that were implemented during the construction of the Trojan Pipeline and the two new reservoirs. That is, any construction activities located adjacent to the MHPA would be required to ensure that noise levels at the edge of the gnatcatcher habitat did not exceed 60 dB(A) during the breeding season of the gnatcatcher. This would be accomplished through placement of a noise and line-of-sight barrier and/or the use of noise attenuating devices on construction equipment. An acoustician would be retained to monitor noise levels.

Because any noise impacts on the California gnatcatcher would be considered "take", the following Standard Conditions are incorporated into this document:

- 1) The approval of this project by the City of San Diego does not authorize the applicant to violate any Federal, State or City laws, ordinances, regulations or policies including, but not limited to, the Federal Endangered Species Act of 1973 any amendments thereto (16 U.S.C. Section 1531 et seq.).
- 2) In accordance with authorization granted to the City of San Diego from the United States Fish and Wildlife Service (USFWS) pursuant to Section 10(a) of the ESA and by the California Department of Fish and Game (CDFG) pursuant to Fish and Game Code section 2835 as part of the Multiple Species Conservation Program (MSCP), the City of San Diego through the approval of this project hereby confers upon the applicant the status of Third Party Beneficiary as provided for in Section 17 of the City of San Diego Implementing Agreement (IA), executed on July 17, 1997 and on File in the Office of the City Clerk as Document No. RR-00-18394. Third Party Beneficiary status is conferred upon the applicant by the City: (1) to grant applicant the legal standing and legal right to utilize the take authorizations granted to the City pursuant to the MSCP within the context of those limitations imposed under this permit and the IA, and (2) to assure applicant that no existing mitigation obligation imposed by the City of San Diego pursuant to this project shall be altered in the future by the City of San Diego, USFWS or CDFG, except in the limited circumstances described in Sections 9.6 and 9.7 of the IA.

The relocated facilities addressed in this addendum would be constructed in an area of the plant property that contains no sensitive plant species and is not within a City of San Diego MHPA. However, several eucalyptus trees, which provide potential nesting opportunities for raptors, would be removed in this area. Impacts to raptors would be avoided through removal of the trees during the non-breeding/nesting season for raptors.

Cultural Resources

As stated above, the revised project design would locate several of the project components at the existing Water Production Administration area. This change in the placement of the new structures would necessitate demolishing or relocating the existing buildings on the site, including the Lake Murray Dam Keeper's House, which has existed in its present location since at least 1928. A historical assessment of the house was completed in January 1998 by Stephen Van Wormer, and is available for review at the offices of the Land Development Review Division. The evaluation states that the Dam Keeper's House is not a historically significant structure, due to the lack of existing documentation on the house, its lack of architectural distinction, and previous structural modifications to the house, which have compromised its integrity. In addition, the integrity of the original setting has been highly compromised by the construction of the filtration plant in the 1950s. According to the evaluation, the building is not eligible for listing on the National Register of Historic Places or the California Register of Historical Resources, and does not constitute a historical resource under the California Environmental Quality Act. Therefore, the revised project would not impact any historical resources and no mitigation is required.

## IV. DETERMINATION:

The City of San Diego previously prepared an Environmental Impact Report for the project described in the subject block of the attached EIR conclusions. Based upon a review of the current project, it has been determined that:

- a. There are no new significant environmental impacts not considered in the previous EIR;
- b. No substantial changes have occurred with respect to the circumstances under which the project is undertaken; and
- c. There is no new information of substantial importance to the project.

Therefore, in accordance with Section 15164 of the State CEQA Guidelines this addendum has been prepared.

## V. MITIGATION, MONITORING AND REPORTING PROGRAM INCORPORATED INTO THE PROJECT:

The following measures comprise the Mitigation, Monitoring and Reporting Program and shall be stated in the contract documents and

on the construction plans for the revised Alvarado Water Filtration Plant Expansion and Rehabilitation project.

Noise (Phase I, Phase II, future phases)

1. Prior to the preconstruction meetings for each phase, the Water Department shall provide a letter of verification to the Environmental Review Manager (ERM) of Land Development Review (LDR) stating that a qualified acoustician has been retained to develop and implement a noise attenuation plan for the construction and operation of the new facilities; specifically, the flocculation/sedimentation basins, the new filters, and the ozone contactors. The plan(s) shall identify noise generating equipment and facility operations, and shall include measures designed to ensure that construction and operation noises from the new facilities do not exceed the City of La Mesa's noise thresholds at the property line of residents on the east side of Kiowa Drive. Such measures may include temporary noise attenuation barriers.
2. The materials, height, and specific location(s) of any required temporary noise barrier(s) shall be specified by the noise attenuation plan. Noise levels shall be monitored by a qualified acoustical engineer, and noise barriers shall be adjusted as necessary during construction to ensure that noise levels are reduced as much as possible at the property lines of sensitive receptors.

Paleontological Resources (Phase I, Phase II, future phases)

3. Prior to the preconstruction meetings for all phases, the Water Department shall provide a letter of verification to the ERM of LDR stating that a qualified paleontologist and/or paleontological monitor have been retained to implement the paleontological monitoring program during the excavation for the new facilities. The requirement for monitoring shall be noted on the grading plans.
4. All persons involved in the paleontological monitoring of this project shall be approved by EAS at least 30 days prior to the preconstruction meeting.
4. The qualified paleontologist or paleontological monitor shall attend any preconstruction/pregrading meetings to consult with City staff and the excavation contractor.
6. The paleontologist or paleontological monitor shall be on-site full-time during excavation into previously undisturbed formations. The monitoring time may be decreased at the discretion of the paleontologist in consultation with LDR.

7. If fossils are encountered, the paleontologist shall have the authority to divert or temporarily halt construction activities in the area of discovery to allow recovery of fossil remains.
8. The paleontologist shall contact LDR at the time of discovery. LDR must concur with the salvaging methods before construction activities are allowed to resume.
9. The qualified paleontologist shall be responsible for preparation of fossils to a point of identification as defined in the City of San Diego Paleontological Guidelines, and submittal of a letter of acceptance from a local qualified curation facility. The paleontologist shall record any discovered fossil sites at the San Diego Natural History Museum.
10. The qualified paleontologist shall be responsible for the preparation of a monitoring results report with appropriate Graphics summarizing the results (even if negative), analyses, and conclusions of the above program. The report shall be submitted to LDR within three months following the termination of the paleontological monitoring program.

Biological Resources (Phase I).

11. Removal of eucalyptus trees shall occur only during the non-breeding/nesting season of raptors; that is, removal of the trees shall not be done between mid-February and mid-June.
12. Prior to the preconstruction meeting, the Water Department shall provide a letter of verification to the ERM of LDR stating that a qualified acoustician has been retained to implement the noise monitoring program. This program shall be implemented for construction activities occurring at the northwest portion of the Plant property during the breeding season of the California gnatcatcher (from March 1 through August 15). This area is defined as those portions of the site that are north and west of the existing washwater tank at the south end of the dam.
13. The acoustician shall attend the preconstruction meeting to consult with City staff and the construction contractor.
14. To the extent feasible, all construction activities that take place in the northwestern portion of the property shall occur between August 15 and March 1.
15. If it is determined that construction activities must extend beyond March 1, a noise and line-of-sight barrier shall be placed between the gnatcatcher habitat and the construction activities.

16. The qualified acoustician shall monitor the noise levels at the edge of the occupied habitat. If levels exceed 60 dB(A), additional measures shall be implemented. Such measures may include relocation and enclosure of equipment, and operation restriction on certain types of equipment. The determination of appropriate measures shall be the responsibility of the acoustician in consultation with LDR and the Public Works Resident Engineer or designee.

VI. SIGNIFICANT UNMITIGATED IMPACTS:

There are no new significant impacts identified for the current project. The final EIR for the original project identified significant unmitigated construction noise impacts to people and to California gnatcatchers:

Because there were significant unmitigated impacts associated with the original project, approval required the decisionmaker to make specific and substantiated CEQA Findings which stated that:

- a) specific economic, social or other considerations make infeasible the mitigation measures or project alternatives identified in the final EIR, and
- b) these impacts have been found acceptable because of specific overriding considerations. No new CEQA Findings are required with this project.

Lawrence C. Monserrate  
 Lawrence C. Monserrate  
 Environmental Review Manager  
 Development Services

March 13, 1998  
 Date of Draft Report

March 30, 1998  
 Date of Final Report

Analyst: Eileen Lower

Attachments: Figure 1 (Project Vicinity Map)  
 Figure 2 (Project Location)  
 Figure 3 (Revised Project Design)  
 EIR No. 88-0459

000254

DISTRIBUTION:

This addendum and EIR No. 88-0459 were distributed to:

City of San Diego

Mayor Golding  
Councilwoman McCarty, District 7  
Development Services  
Public Works  
Community and Neighborhood Services

Federal Government

U.S. Army Corps of Engineers  
Environmental Protection Agency  
U.S. Fish and Wildlife Service

State of California

State Clearinghouse  
California Department of Fish and Game  
Department of Water Resources  
Cal EPA  
California State Water Resources Control Board  
Regional Water Quality Control Board, Region 9  
State Lands Commission  
Boating and Waterways  
Department of Health Services  
Public Utilities Commission  
Office of Historic Preservation  
California Air Resources Board

County of San Diego

Air Pollution Control District  
County Water Authority  
Hazardous Materials Management Division

Others

City of La Mesa  
San Diego Association of Governments  
San Diego Gas & Electric Company  
San Diego Transit Corporation  
San Diego Natural History Museum  
South Coastal Information Center  
San Diego Museum of Man  
Save Our Heritage Organization  
San Diego County Archaeological Society, Inc.  
San Diego Historical Society  
Vonn Marie May

000255

Vonn Marie May  
U.C.S.D. Central Library, Documents Department  
Acquisitions Library, S.D.S.U.  
Navajo Community Planners, Inc.  
San Carlos Advisory Council  
Mission Trails Regional Park Citizens Advisory Committee  
Barbara Massey  
Edward O'Neil  
Franklin Dougherty  
Dennis Vanier  
George Morrison  
Jack Mones  
Don Hefner  
Ted Walton  
Malcom Pirnie, Inc.  
Richard Bundy, Architects Bundy/Thompson  
Allison Whitelaw, Platt/Whitelaw Architects, Inc.

RESULTS OF PUBLIC REVIEW:

- ( ) No comments were received during the public input period.
- ( ) Comments were received but they did not address the draft Addendum findings or the accuracy/completeness of the Initial Study. No response is necessary. The letters and responses follow.
- (X) Comments addressing the findings of the draft Addendum and/or accuracy or completeness of the Initial Study were received during the public input period. The letters and responses follow.

Copies of the final Addendum, EIR, the Mitigation Monitoring and Reporting Program, and any technical appendices may be reviewed in the office of the Land Development Review Division, or purchased for the cost of reproduction.

000256

RESPONSE TO COMMENTS

BARBARA S. MASSEY  
7107 BIRCHCREEK ROAD  
SAN DIEGO, CALIFORNIA 92118-1517

March 24, 1998

Eileen Lower, Environmental Planner  
City of San Diego, Environmental Services  
Land Development Review Division  
1222 First Avenue, Mail Station 501  
San Diego, CA 92101

SUBJECT: Alvarado Filtration Plant Addendum

Dear Eileen,

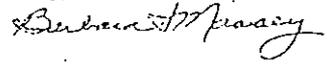
I have read the addendum and think several issues should be include in the discussion. Without having more information it is not possible to the address adequacy of the document.

The location of the Water Production and Administration area after demolition of the current site should be addressed. This issue could have impacts not previously discussed.

The location of the new flocculation basins, sedimentation basins, sludge thickeners, ozone contactors, and ozone generation facilities should be discussed with regard to both visual quality and odor. This area is in the viewshed of both homes in Del Cerro and the people using Lake Murray Park. I am sure San Carlos, Del Cerro and La Mesa residents would like these issues addressed. A photograph of the current buildings taken from Lake Murray Park and a drawing of how it will look after the new construction would be useful.

Thank you for the opportunity to respond to the addendum.

Sincerely,



1. The staff from the Water Production and Administration area would be relocated to offices in the existing Operations building. No additional construction is needed for this move, and no impacts are expected.
2. The referenced structures are components of Phase II and Future Phases. The designs of these facilities are not yet available. However, the majority of the largest structure (the sedimentation/flocculation basins) would be below grade. It is anticipated that the new structures would be no higher than the backdrop buildings. In addition, most of the future structures would be shielded from the view of Lake Murray users by an existing landscaped berm. The facilities would not produce offensive odors.
3. When the Phase II designs are completed, the Water Department will prepare conceptual elevation drawings to show what the facilities will look like. These drawings will be shared and discussed with community groups and interested parties. The drawings will also be reviewed by the Land Development Review Division and, although not expected, if visual quality is determined to be an issue, further environmental documentation may be required. However, with the relocation of Phase II facilities away from the Earl Thomas Reservoir site, the overall visual effect of the project would likely be improved.

000257



San Diego County Archaeological Society  
Environmental Review Committee

23 March 1998

RESPONSE TO COMMENTS

To: Ms. Eileen Lower  
Land Development Review Division  
Development Services Business Center  
City of San Diego  
1222 First Avenue, Mail Station 501  
San Diego, California 92101

Subject: Draft Addendum to an Environmental Impact Report  
Alvarado Filtration Plant Expansion and Rehabilitation  
EIR No. 98-0130, Addendum to EIR No. 88-0459

Dear Ms. Lower:

I have reviewed the subject document on behalf of this committee of the San Diego County Archaeological Society.

Based on the information contained in the document and the letter report from Walter Enterprises, we concur in the assessment that the changes to the EIR for the project should have no significant impacts to cultural resources.

We noted that the copy of the DEIR for the original project which was sent to SDCAS is missing the page which contains the City's response to our comments on the DEIR.

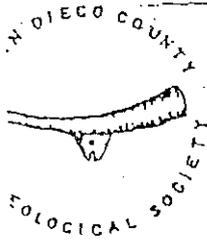
SDCAS appreciates being afforded this opportunity to comment upon the proposed modifications to this project.

Sincerely,

  
James W. Royle, Jr., Chairman  
Environmental Review Committee

cc: Walter Enterprises  
SDCAS President

- 4. Comment acknowledged.
- 5. SDCAS's letter of December 26, 1993 was inadvertently omitted when the original document was reprinted. This letter and the City's response have been included in the final Addendum.



San Diego County Archaeological Society, Inc.

Environmental Review Committee  
P.O. Box 01106 - San Diego, CA 92130

December 26, 1993

RECEIVED

JAN

PH. 3-26-94

To: Ms. Eileen Greene  
Development and Environmental Planning Division  
Planning Department  
City of San Diego  
1722 First Avenue, MS 501  
San Diego, California 92101

Subject: Draft Environmental Impact Report  
Alvarado Filtration Plant Expansion and Rehabilitation  
DEP No. 88-0459

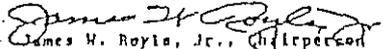
Dear Ms. Greene:

I have reviewed the cultural resources aspects of the subject DEIR on behalf of this committee of the San Diego County Archaeological Society.

Based on the information contained in the DEIR and its Appendix C, we concur in the judgement that the project as presented should have no significant impacts to cultural resources.

Thank you for including SDCAS in the City's environmental review process for this project.

Sincerely,

  
James W. Royce, Jr., Chairperson  
Environmental Review Committee

cc: Ogden Environmental  
SDCAS President  
file

San Diego County Archaeological Society, Inc. (12/26/93)

34. Comment noted. On April 27, 1994, portions of the Operations Building were accepted for inclusion in the City's Historic Sites Listing.

000258

ATTACHMENT A  
MITIGATION, MONITORING AND REPORTING PROGRAM  
ALVARADO WATER FILTRATION PLANT EXPANSION AND REHABILITATION PROJECT  
LDR NO. 98-0130  
(ADDENDUM TO EIR NO. 88-0459)

The following measures comprise the Mitigation, Monitoring and Reporting Program and shall be stated in the contract documents and on the construction plans for the revised Alvarado Water Filtration Plant Expansion and Rehabilitation project.

Noise (Phase I, Phase II, future phases)

1. Prior to the preconstruction meetings for each phase, the Water Department shall provide a letter of verification to the Environmental Review Manager (ERM) of Land Development Review (LDR) stating that a qualified acoustician has been retained to develop and implement a noise attenuation plan for the construction and operation of the new facilities; specifically, the flocculation/sedimentation basins, the new filters, and the ozone contactors. The plan(s) shall identify noise generating equipment and facility operations, and shall include measures designed to ensure that construction and operation noises from the new facilities do not exceed the City of La Mesa's noise thresholds at the property line of residents on the east side of Kiowa Drive. Such measures may include temporary noise attenuation barriers.
2. The materials, height, and specific location(s) of any required temporary noise barrier(s) shall be specified by the noise attenuation plan. Noise levels shall be monitored by a qualified acoustical engineer, and noise barriers shall be adjusted as necessary during construction to ensure that noise levels are reduced as much as possible at the property lines of sensitive receptors.

Paleontological Resources (Phase I, Phase II, future phases)

3. Prior to the preconstruction meetings for all phases, the Water Department shall provide a letter of verification to the ERM of LDR stating that a qualified paleontologist and/or paleontological monitor have been retained to implement the paleontological monitoring program during the excavation for the new facilities. The requirement for monitoring shall be noted on the grading plans.
4. All persons involved in the paleontological monitoring of this project shall be approved by EAS at least 30 days prior to the preconstruction meeting.
5. The qualified paleontologist or paleontological monitor shall attend any preconstruction/pregrading meetings to consult with City staff and the excavation contractor.

6. The paleontologist or paleontological monitor shall be on-site full-time during excavation into previously undisturbed formations. The monitoring time may be decreased at the discretion of the paleontologist in consultation with LDR.
7. If fossils are encountered, the paleontologist shall have the authority to divert or temporarily halt construction activities in the area of discovery to allow recovery of fossil remains.
8. The paleontologist shall contact LDR at the time of discovery. LDR must concur with the salvaging methods before construction activities are allowed to resume.
9. The qualified paleontologist shall be responsible for preparation of fossils to a point of identification as defined in the City of San Diego Paleontological Guidelines, and submittal of a letter of acceptance from a local qualified curation facility. The paleontologist shall record any discovered fossil sites at the San Diego Natural History Museum.
10. The qualified paleontologist shall be responsible for the preparation of a monitoring results report with appropriate graphics summarizing the results (even if negative), analyses, and conclusions of the above program. The report shall be submitted to LDR within three months following the termination of the paleontological monitoring program.

#### Biological Resources (Phase I)

11. Removal of eucalyptus trees shall occur only during the non-breeding/nesting season of raptors; that is, removal of the trees shall not be done between mid-February and mid-June.
12. Prior to the preconstruction meeting, the Water Department shall provide a letter of verification to the ERM of LDR stating that a qualified acoustician has been retained to implement the noise monitoring program. This program shall be implemented for construction activities occurring at the northwest portion of the Plant property during the breeding season of the California gnatcatcher (from March 1 through August 15). This area is defined as those portions of the site that are north and west of the existing washwater tank at the south end of the dam.
13. The acoustician shall attend the preconstruction meeting to consult with City staff and the construction contractor.
14. To the extent feasible, all construction activities that take place in the northwestern portion of the property shall occur between August 15 and March 1.

000261

15. If it is determined that construction activities must extend beyond March 1, a noise and line-of-sight barrier shall be placed between the gnatcatcher habitat and the construction activities.
16. The qualified acoustician shall monitor the noise levels at the edge of the occupied habitat. If levels exceed 60 dB(A), additional measures shall be implemented. Such measures may include relocation and enclosure of equipment, and operation restriction on certain types of equipment. The determination of appropriate measures shall be the responsibility of the acoustician in consultation with LDR and the Water Department Resident Engineer or designee.

000263

**PALEONTOLOGICAL MITIGATION REPORT  
ALVARADO WATER TREATMENT PLANT  
PHASE II (W.O. NO. 185001)  
CITY OF SAN DIEGO  
SAN DIEGO COUNTY, CALIFORNIA**



*Prepared for:*

**Water Department  
City of San Diego  
600 B Street, Suite 600  
San Diego, CA 92101**

*Prepared under contract to:*

**HDR Engineering  
9444 Farnham Street, Suite 300  
San Diego, CA 92123**

*Prepared by:*

**DEPARTMENT OF PALEOSERVICES  
San Diego Natural History Museum  
P.O. Box 121390  
San Diego, CA 92112**

**Thomas A. Deméré, Ph.D., Executive Director  
Paul C. Murphey, Ph.D., Director  
Ian D. Browne, MS, Staff Paleontologist**

**April 20, 2005**

**FINAL PALEONTOLOGICAL REPORT  
ALVARADO WATER TREATMENT PLANT UPGRADE & EXPANSION,  
PHASE II (W.O. NO. 185001)  
CITY OF SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA**

## **INTRODUCTION**

This report presents the results of the paleontological resource mitigation program conducted during the excavation for Phase II (W.O. No. 185001) of the Alvarado Water Treatment Plant expansion project in the City of San Diego, San Diego County, California (Figure 1). This mitigation program included construction monitoring, fossil salvage, laboratory preparation of salvaged specimens, curation of prepared specimens, and storage of curated specimens. The mitigation program was a requirement of the Final Environmental Impact Report prepared by the City of San Diego (see Alvarado Treatment Plant Expansion and Rehabilitation Environmental Impact Report, and Addendum EIR for Flocculation/Sedimentation Basin). The mitigation work was performed for HDR Engineering, Inc., San Diego, California.

Construction improvements included mass excavation employing scrapers and bulldozers. The majority of the earthmoving was undertaken by Archer Western Contractors, San Diego, California.

### **Personnel**

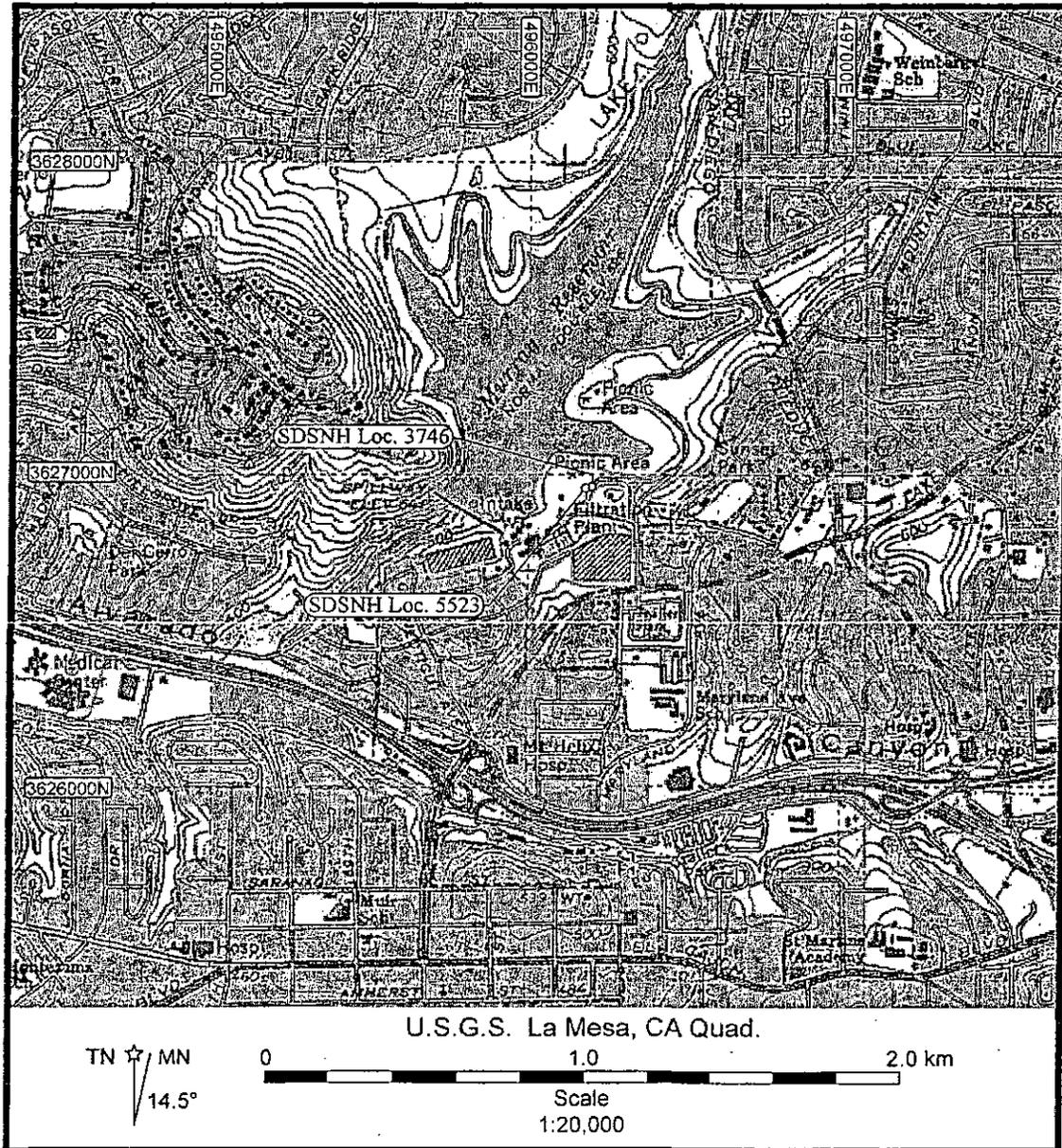
Museum personnel who participated in the field monitoring portion of the paleontological mitigation program included Richard A. Cerutti, Donald R. Swanson and Stephen L. Walsh. Museum personnel who participated in the laboratory portion of the paleontological mitigation program included N. Scott Rugh and Kesler Randall. Thomas A. Deméré, Paul C. Murphey and Ian D. Browne prepared the final report.

## **METHODS**

### **Field Methods**

Field activities included monitoring of excavation operations, examination of temporary and permanent cut slopes and horizontal cut pads, collection of unearthened fossil remains, collection of matrix samples, and recovery of geologic, stratigraphic, and paleontologic contextual data. Specific field methods are discussed more fully below.

**Monitoring** Monitoring of mass grading operations proceeded on an intermittent basis during July 2004, and involved physically following the grading equipment and inspecting freshly exposed bedrock for unearthened fossil remains. Ideally, inspection would have involved examination of every newly exposed surface, but this was operationally impossible. The pace and quantity of equipment in the cut determined how and when the monitor could conduct inspections. When the active excavations were too



**Figure 1.** Map showing the approximate boundaries of the Alvarado Water Treatment Plant project site and San Diego Natural History Museum fossil locality 5523 discovered in fossiliferous sedimentary deposits of the Eocene-age Mission Valley Formation as exposed during paleontological monitoring of grading operations. Base map: La Mesa, CA 7.5' USGS topographic quadrangle. Note that SDNHM fossil Locality 3746 was recorded during the construction of Phase I.

dangerous to enter because of a narrow cut, short haul, and/or heavy traffic, an elevated vantage point provided a secure point from which to observe the progress of grading.

**Fossil Salvage** Fossil salvage involved the immediate removal of fossiliferous matrix blocks from sites of active grading, and hand quarrying (i.e., deliberate excavation of fossiliferous matrix blocks from site of halted grading) techniques. The particular type of salvage procedure employed depended on a number of factors including: importance of the unearthed specimen(s), size of the specimen(s), whether the specimen was a single isolated fossil or a concentration of specimens, how critical an area the discovery site was to the progress of the construction schedule, and the opinion of the construction foreman.

### **Laboratory Methods**

Laboratory activities included mechanical preparation of fossil specimens and curation of prepared specimens. This work occurred intermittently in January and February, 2005.

#### **Specimen preparation**

Small and medium-sized fossil specimens (>2 cm) were prepared using standard mechanical fossil preparation techniques. This work involved the use of hammers and chisels to initially separate individual fossil shell molds and casts from the sandstone and siltstone matrix blocks. More precise hand tools (e.g., X-acto knives, dental picks, and pin vises) were then used to expose the finer morphologic details of the specimens. The fossils were then sorted by species type and skeletal element.

#### **Fossil curation**

Fossil curation involved identification of individual fossil specimens, assignment of unique specimen catalog numbers, entry of specimen catalog information into the specimen computer database, printing of specimen labels, writing of catalog numbers on specimens using permanent India ink on a patch of white acrylic paint, placement of specimens with labels into appropriate-sized paper specimen trays, and storage of labeled specimens in steel "Lane-style" geological cabinets in the paleontological research collection area of the museum.

### **RESULTS**

The following section is limited to a general discussion of the results of the Alvarado Water Treatment Plant Phase II Expansion paleontological mitigation program. Although academic research questions dictated the field methods and types of data recorded, the overall goal of this mitigation program was not to produce a research paper, but rather to discover and salvage significant fossil remains, record relevant stratigraphic and taphonomic data, and curate and permanently house the salvaged fossil remains. The fossils recovered from the Alvarado Water Treatment Plant Phase II Expansion project site are in a condition that scholarly research can now be done. The important distinction is that the discovery, recovery, and conservation of the fossils are separate endeavors from their study.

## **Geology and Stratigraphy**

The Alvarado Water Treatment Plant site is located in northwest La Mesa, just south of Lake Murray (Figure 1). The plant site is within Mission Trails Regional Park. Grading operations for Phase II of the plant exposed a portion of the lower part of the middle Eocene aged Mission Valley Formation (Figure 2) and a portion of the upper member of the middle Eocene aged Stadium Conglomerate (Kennedy, 1975). This terminology was followed by Kleinfelder, Inc. (1998) in their Geotechnical Investigation of the site area. Within the project site, the Mission Valley Formation was overlain by a veneer of Holocene-aged topsoil and imported artificial fill.

### **Mission Valley Formation**

The Mission Valley Formation as exposed during Phase II improvements at the Alvarado Water Treatment Plant consisted of approximately five feet of light gray to white, fine- to medium-grained, massive sandstone with a basal stratum of interbedded green, silty laminated mudstone and fine- to medium-grained sandstone.

### **Stadium Conglomerate**

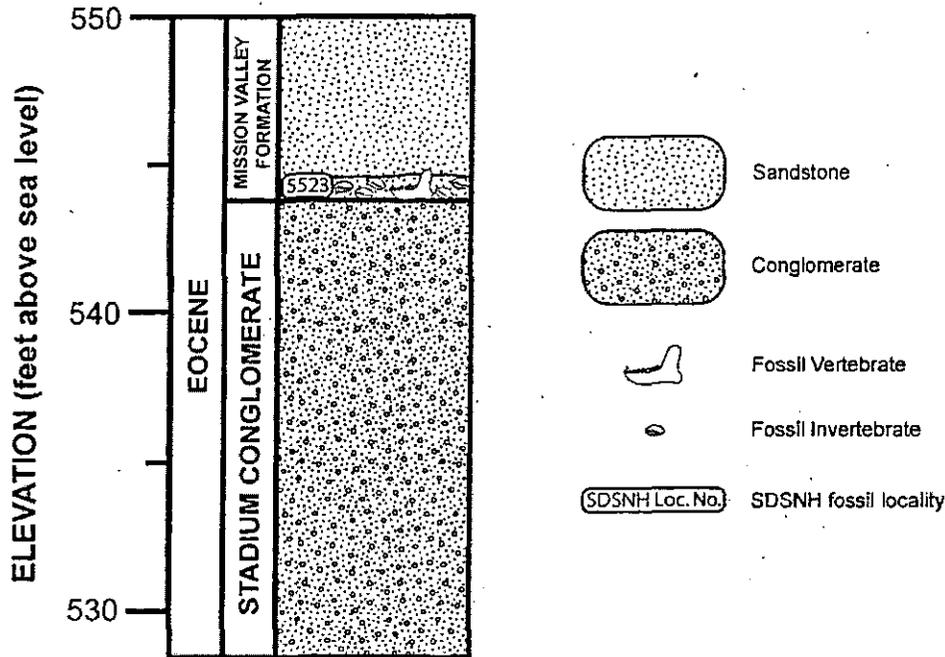
The Stadium Conglomerate as exposed during Phase II improvements at the Alvarado Water Treatment Plant consisted of approximately 15 feet of light yellow to orange, clast-supported cobble conglomerate.

## **Fossil Localities**

### **SDSNH Locality 5523**

One paleontological locality was discovered in basal deposits of the Mission Valley Formation during the monitoring and salvage phases of the mitigation program. A formal description of this locality is included in the Appendix, along with a list of the catalogued fossil specimens recovered from the locality. The geographic location of SDSNH Locality 5523 is shown on Figure 1.

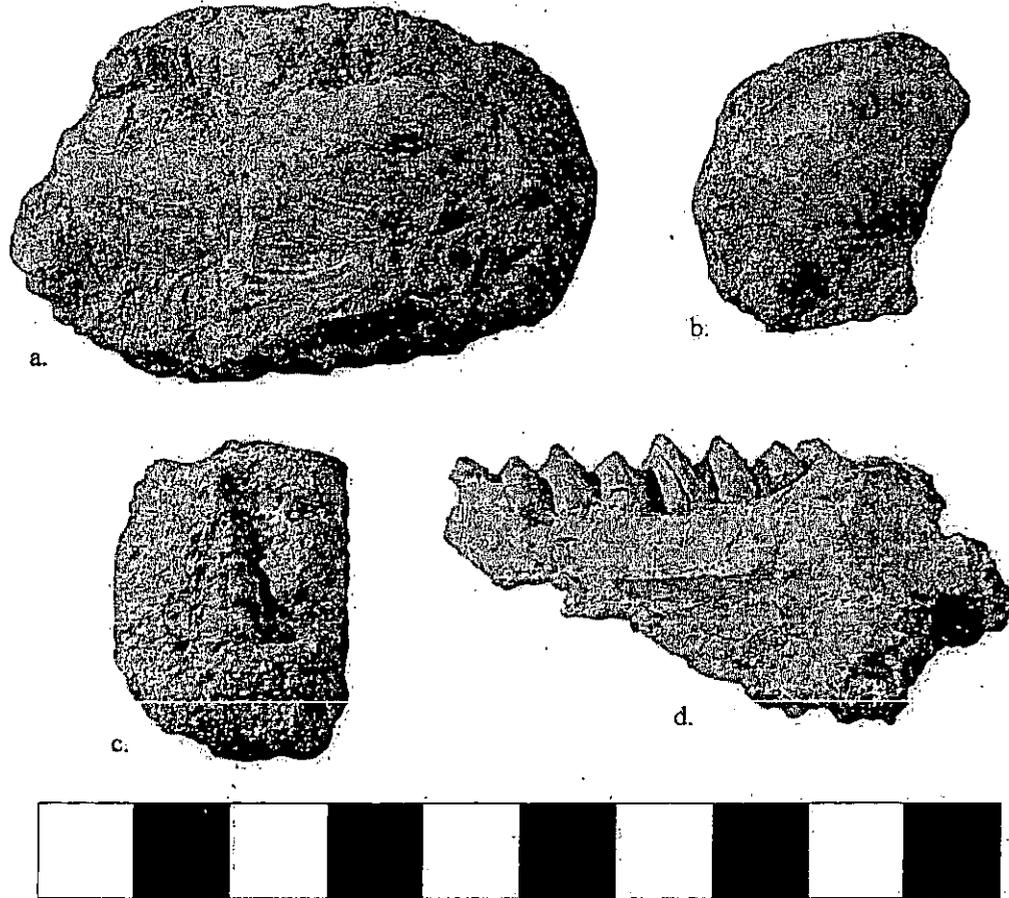
This locality was discovered at an elevation of 544 feet, in an excavation for new flocculation/sedimentation basins. The fossils were recovered from the east wall (west facing) of the southern basin. The locality represents two distinct collecting sites approximately 37 feet (laterally) apart, but in the same stratum. The fossils were recovered from a 1.5 foot thick green, laminated, silty mudstone with medium- to fine-grained interbedded fine-grained sandstone (Figure 2). The fossils were 6" above the contact between the underlying Stadium Conglomerate and the Mission Valley Formation, and 15 feet above the floor of the basin. The fossiliferous unit is the same unit from which fossils were collected during paleontological monitoring activities conducted for Phase I excavations (SDSNH Locality 3746). The overlying unit is a 5.5 foot thick white, massive, medium- to fine-grained sandstone. The lower contact with the green fossiliferous unit is sharp and irregular. The unit underlying the green fossiliferous layer is the uppermost unit of the Stadium Conglomerate. This unit contains large and



**Figure 2.** Composite stratigraphic column for the Alvarado Water Treatment Plant depicting lithologic units, stratigraphic contacts, and the fossil collecting locality (SDSNH Loc. 5523) discovered in the basal unit of the Mission Valley Formation.

medium-sized Poway clasts cobbles, and its thickness was not determined because it was not completely exposed.

Fossils recovered from SDSNH Locality 5523 include steinkerns (internal molds) of predominantly marine mollusks including gastropods (snails) and pelycopods (clams) and one jaw of an extinct sheep-like oreodont mammal (Figure 3). The pelycopod mollusks include one specimen of the mytilid (mussel) *Lithophaga clarki*, two specimens of the isognominid bivalve *Pedalion goniglensis*, three specimens of the ostreid (oyster) bivalve *Ostrea* sp., one specimen of the lucinid bivalve *Divaricella* sp., one undetermined lucinid, one specimen of the tellinid *Tellina* sp. cf. *T. scrippsensis*, one specimen of *Tellina* sp., and 17 specimens of the unionid bivalve *Unio torreyensis*. The gastropod mollusks include one specimen of the neritid snail *Nerita triangulata*, and five specimens of the potamidid snail *Potamides carbonicola*. These specimens are indicative of near shore-marine conditions. The co-occurrence in the Mission Valley Formation of land mammal assemblages with assemblages of marine microfossils, molluscs, and vertebrates is extremely important as it allows for the direct correlation of terrestrial and marine faunal time scales.



**Figure 3.** Examples of fossils collected from the Eocene-age Mission Valley Formation (SDSNH Loc. 5523) as exposed during construction activities at the Alvarado Water Treatment Plant, Phase II project site. A) SDSNH 101472, internal molds of the freshwater clam *Unio* (?) *torreyensis*; b) SDSNH 101469, internal mold of the marine clam *Tellina* sp. cf. *T. scrippensis*; c) SDSNH 101462 internal mold of the mud snail *Potamides carbonicola*; d) SDSNH 102101, fragmentary left dentary with m1-3 of the small oreodont *Protoreodon walshi*. (scale in cm).

The only vertebrate fossil collected from SDSNH locality 5523 was a partial left dentary of the late Uintan oreodont *Protoreodon walshi* preserving portions of the first, second and third molars. *Protoreodon walshi* is an extinct species of artiodactyl (even-toed hoofed mammals) that are distantly related to modern artiodactyls including sheep, cow, camel, deer, and hippopotamus. Oreodonts were extremely diverse during the late middle Eocene and Oligocene of North America, and finally became extinct at the end of the Miocene Epoch, about 5 million years ago. *Protoreodon walshi* is one of the oldest and most primitive species of the genus *Protoreodon*. It was about as large as a medium-sized dog, but was a herbivorous animal, browsing upon the Eocene shrubbery. The discovery of abundant fossil remains of this species has been interpreted as evidence of herding behavior.

## DISCUSSION

### Introduction

The following section is limited to a general discussion of the results of the Alvarado Water Treatment Plant, Phase II paleontological mitigation program. Although academic research questions dictated the field methods and types of data recorded, the overall goal of this mitigation program was to discover and salvage significant fossil remains, record relevant stratigraphic and taphonomic data, and curate and permanently house the salvaged fossil remains. The fossils recovered from the Alvarado Water Treatment Plant project site are now in a condition for scholarly research.

### Geology

The project area lies in the west central portion of the Eocene San Diego Embayment. This large depositional basin was actively accumulating sediments in the San Diego area during the middle portion of the Eocene Epoch between 49 and 42 million years ago (Kennedy, 1975). A large river system occupied the eastern portion of the embayment. To the west, these alluvial and fluvial paleoenvironments mixed with near shore marine paleoenvironments in a river-dominated delta. Farther west were continental shelf and slope paleoenvironments. The Eocene sedimentary rocks exposed by grading at the Alvarado Water Treatment Plant accumulated in the near shore marine settings approximately 42 million years ago.

### Paleontology

#### Mission Valley Formation

In its type area in Mission Valley, the Mission Valley Formation consists of light gray, fine-grained marine sandstone (Kennedy and Moore, 1971). In the eastern and southern portions of its distribution, the formation consists largely of medium-grained, fluvial sandstone and green and brown non-marine mudstone.

The marine strata of the Mission Valley Formation have produced abundant and generally well-preserved remains of marine microfossils (e.g., foraminifers), macroinvertebrates (e.g., clams, snails, crustaceans, and sea urchins), and vertebrates (e.g., sharks, rays and bony fish) (Deméré and Walsh, 1993).

Terrestrial (fluvial) strata of the Mission Valley Formation have produced well-preserved samples of petrified wood, and fairly large and diverse assemblages of fossil land mammals including opossums, insectivores, bats, primates, rodents, artiodactyls, and perissodactyls (Golz and Lillegraven, 1977; Walsh, 1991).

Fossils from the Mission Valley Formation have been previously collected from several localities in the eastern portion of San Diego County in La Mesa, San Carlos, Fletcher

Hills, and East San Diego (Golz and Lillegraven, 1977; Walsh, 1996). The fauna contains mammalian taxa characteristic of late Uintan faunas elsewhere in California and the western United States. A radiometric date of  $42.83 \pm 0.24$  years has been reported from a bentonite in the Mission Valley Formation (Berry, 1991; Walsh, 1991, 1996). The Mission Valley Formation is assigned a high paleontological resource sensitivity by Deméré and Walsh (1993).

### Stadium Conglomerate

The Stadium Conglomerate (Kennedy and Moore, 1971) is the lowermost formation of the Poway Group (referred to as the Poway Formation in older literature: Hanna, 1926). Milow and Ennis (1961) noted that two lithologically and temporally distinct conglomeratic units make up what is today known as the Stadium Conglomerate. According to these authors, the lower unit is composed of light green-gray, poorly sorted cobble conglomerate with a muddy to sandy matrix, and a thickness 10-100 feet. Disconformably overlying this lower unit is an upper conglomeratic unit, consisting of 50-100 feet of reddish-tan, well sorted, cobble conglomerate.

The upper and lower conglomeratic units are in depositional contact in the Mission Valley and Murphy Canyon areas. However, to the north and east, the upper member appears to be absent. In the Tierrasanta, Camp Elliot, Miramar Reservoir, Rancho Penasquitos, and Rancho Bernardo areas, a largely non-marine sandstone and mudstone unit gradationally overlies the lower member of the Stadium Conglomerate. This unit was referred to as the "Cypress Canyon unit" by Walsh (1991) and is regarded here as the middle member of the Stadium Conglomerate. The exposures listed above for the "Cypress Canyon unit" were previously mapped as the Mission Valley Formation by Kennedy (1975).

The upper member of the Stadium Conglomerate is exposed on the north wall of Mission Valley, between SR-163 and Murphy Canyon. It extends eastward from Murphy Canyon at least to San Diego State University, and southward from Mission Valley at least to Montezuma Road. From Mission Valley it extends northward to SR-52, and is absent from northeastern Tierrasanta. The upper member lies disconformably on the lower member in Mission Valley, and presumably on the Cypress Canyon member somewhere east of Murphy Canyon. The upper member is overlain by the Mission Valley Formation and is about 50 feet thick. This unit is middle Eocene in age, approximately 42-43 Ma.

Fossil foraminifers and marine molluscs (Dusenbury 1932; Steineck et al. 1972; Givens and Kennedy 1979) have been collected from the upper member of the Stadium Conglomerate in the western part of the old Fenton Quarry in Murray Canyon. The upper member is largely non-marine in the eastern part of its outcrop area. Collecting sites in Murphy Canyon have yielded sparse, but well-preserved remains of opossums, insectivores, primates, rodents, carnivores, rhinoceros, and artiodactyls (Walsh 1991). The upper member of the Stadium Conglomerate is assigned a moderate paleontological resource sensitivity by Deméré and Walsh (1993).

### CONCLUSIONS

The paleontological resource mitigation program conducted for the Alvarado Water Treatment Plant project reduced the adverse impacts of earth moving activities on paleontological resources to an insignificant level through construction monitoring, fossil salvage, fossil preparation, and fossil curation. This work resulted in the recovery of a scientifically significant collection of fossil vertebrates and invertebrates recovered from a single fossil collecting locality discovered within sedimentary deposits of the Mission Valley Formation.

The assemblage of predominantly marine fossils recovered from exposed strata of the Mission Valley Formation includes specimens of gastropods and pelecypods. Also recovered was a single fragmentary lower jaw of an oreodont. Based on the taxonomic composition of collections of terrestrial fossil vertebrates recovered from sedimentary deposits throughout coastal San Diego County, the Mission Valley Formation has been assigned to the late Uintan North American Land Mammal Age (Walsh, 1996). The late part of the Uintan "Age" is currently estimated to have extended from about 43.5 to 40.5 million years ago (Robinson et al., 2004).

The recovery of this small but scientifically significant assemblage of Eocene-age fossils represents an important contribution to the study of ancient life in southern California. The preservation of these fossils and their storage in perpetuity at the San Diego Natural History Museum will ensure their availability to future generations of citizens, students, and professional scientists.

## REFERENCES

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## APPENDICES

DATE 04/20/05  
TIME 10:53:26

SAN DIEGO NATURAL HISTORY MUSEUM  
DEPARTMENT OF PALEONTOLOGY  
LOCALITY CARD

LOCALITY #- 5523

000277

LOCALITY # LOCALITY NAME  
5523 Alvarado WTP

FIELD NUMBER  
see below

LOCATION

COUNTRY USA  
STATE CA  
COUNTY San Diego  
CITY San Diego

LATITUDE 32°46'56"N VARIANCE  
LONGITUDE 117° 2'26"W

UTM 11 496194 3626954 VARIANCE

SECT TWNSP DIREC RANGE DIR

MAP NAME La Mesa, CA  
MAP SCALE 1:24000 DATUM NAD1927  
MAP SOURCE USGS 1967(1975)

STRATIGRAPHIC POSITION

GROUP Poway Group  
FORMATION Mission Valley Formation  
MEMBER  
INFORMAL NAME

ERA Cenozoic  
SYSTEM Paléogene  
SER/EPOCH middle Eocene  
AGE/STAGE  
NALMA late Uintan  
ZONE NAME

LOCATION IN SECTION unsurveyed

ELEVATION 544 FT

LITHOLOGY DEPOSITIONAL ENVIRONMENT  
mdst shallow marine, estuarine  
CITATION

FIELD NOTES  
RAC book # 37  
COLLECTOR  
R.A. Cerutti, D.R. Swanson, S.L. Walsh 19 Jul 2004  
COMPILED BY  
K.A. Randall 20 Jan 2005

PHOTOS ACCESS NO.  
Y  
ENTERED BY  
K.A. Randall 21 Jan 2005

DONATED BY  
City of San Diego 19 Jul 2004

LOCALITY DESCRIPTION

This locality was discovered during construction of the second phase of upgrade and expansion of the Alvarado Water Treatment Plant. This project is north of the existing plant and includes development of new flocculation/sedimentation basins. This project upgrade and expansion is within Mission Trails Regional Park, which is adjacent to Lake Murray Community Park. The flocculation/sedimentation basin sites are east of Kiowa Drive and immediately east of the Training Center parking area. Fossils were recovered from the east wall (west facing) of the southern basin. This locality represents 2 distinct collecting sites from the same elevation and are approximately 37 feet apart.

Fossils were recovered from a 1 1/2 foot thick, green, laminated, silty mudstone, with medium- to fine-grained sandstones interbedded. The fossils were recovered 6" above the Mission Valley/Stadium Conglomerate contact and 15 feet above the floor of the basin. This unit is the same as for locality 3746, Alvarado Water Filtration Plant. This unit is the basal unit for the Mission Valley Formation at this location.

The overlying unit is a 5 1/2 foot thick, white, massive, medium- to fine-grained sandstone. This overlying unit contacts the underlying fossiliferous unit by a sharp irregular contact. The underlying unit is the uppermost unit of the Stadium Conglomerate. The Stadium Conglomerate contains large and medium sized poway clasts cobbles. The thickness of the underlying unit was not determined. The Mission Valley Formation/Stadium Conglomerate contact is erosional, irregular and flat lying.

The steinkerns were excavated by hand quarrying over a series of days by R.A. Cerutti and D.R. Swanson. The oreodont jaw was collected by pluck-and-run techniques.

Fossils recovered include steinkerns of clams and snails, and a partial Protoreodon jaw. Some species of invertebrates are uncommon in this section and this locality may have the easternmost extension of the marine facies of the Mission Valley Formation.

The locality still exists, however the slope is covered by building foundations and landscaping.

Field Numbers: RAC19JUL04-1, RAC28JUL04-1  
Collecting Dates: 19 Jul 04, 29 Jul 04  
LOCALITY 5523

DATE 04/20/05  
TIME 10:53:52

SAN DIEGO NATURAL HISTORY MUSEUM  
DEPARTMENT OF PALEONTOLOGY  
FAUNAL LIST FOR LOCALITY 5523  
Alvarado WTP

000278

PAGE 1  
PAL285

SPECIMEN NUMBER	NUMBER OF ITEMS	DESCRIPTION	SPECIMEN NAME
101461	1	steinkern, juvenile, on matrix	<u>Nerita triangulata</u> Gabb, 1869
101462	3	steinkerns and mold	<u>Potamides carbonicola</u> Cooper, 1894
101463	2	steinkern & mold, part-counterpart, part	<u>Potamides carbonicola</u> Cooper, 1894
101464	1	steinkern, valve	<u>Lithophaga clarki</u> Hanna, 1927
101465	2	steinkerns, valves, partial, left & right	<u>Pedalion goniqlensis</u> (Hanna, 1927)
101466	3	steinkerns & mold of valves 1 part-cpart	<u>Ostrea</u> sp.
101472	15	steinkerns, valves, left & right, &pairs	<u>Unio (?) torreyensis</u> Hanna, 1927
101471	2	steinkern & mold, part-counterpart	<u>Unio (?) torreyensis</u> Hanna, 1927
101468	1	valve, mold, partial	Lucinidae
101467	1	mold, valve, partial	<u>Divaricella</u> sp.
101469	1	steinkern, pair, partial	<u>Tellina</u> sp. cf. T. <u>scrippsensis</u> Hanna, 1927
101470	3	steinkerns, valves, and pair	<u>Tellina</u> sp.
102101	3	left dentary, partial w m1 frag, m2-m3	<u>Protoreodon walshi</u> Theodor, 1999

**000279 REQUEST FOR COUNCIL ACTION**  
**CITY OF SAN DIEGO**

1. CERTIFICATE NUMBER (FOR AUDITOR'S USE) **100**  
**N/A** 01/13

TO: CITY ATTORNEY 2. FROM (ORIGINATING DEPARTMENT): ENGINEERING & CAPITAL PROJECTS 3. DATE: October 6, 2008

4. SUBJECT: **Advertise and Award of Alvarado WTP Upgrade & Expansion (Phase III - Rehabilitation of Basins 1 & 2)**

5. PRIMARY CONTACT (NAME, PHONE, & MAIL STA.) **Darren Greenhalgh (619) 533-6600, MS 908A** 6. SECONDARY CONTACT (NAME, PHONE, & MAIL STA.) **Iraj Asgharzadeh (619)533-5105, MS 908A** 7. CHECK BOX IF REPORT TO COUNCIL IS ATTACHED

**8. COMPLETE FOR ACCOUNTING PURPOSES**

FUND	41500	41500		9. ADDITIONAL INFORMATION / ESTIMATED COST:
DEPT.	760	760		Current: \$ 575,000
ORGANIZATION	391040	391040		In Route (1544): \$ 500,000
OBJECT ACCOUNT	4279	4909		Phase I (FY09): \$ 3,409,811
JOB ORDER	189120	733310		Future (FY09 1544): \$ 1,470,120
C.I.P. NUMBER	73-261.3/73-262.3	73-331.0		Phase II (FY10): \$21,446,376
AMOUNT	\$24,761,530	\$1,165,500		Phase III (FY11): \$ 2,311,252
				<b>Total Project: \$ 29,712,559</b>
				Less Prev. Auth: \$ 3,785,529
				<b>This Request: \$ 25,927,030</b>

**10. ROUTING AND APPROVALS**

ROUTE (#)	APPROVING AUTHORITY	APPROVAL SIGNATURE	DATE SIGNED	ROUTE (#)	APPROVING AUTHORITY	APPROVAL SIGNATURE	DATE SIGNED
1	DEPT. DIRECTOR	<i>[Signature]</i>	10/23/08	8	DEPUTY CHIEF	<i>[Signature]</i>	11/14/08
2	WATER	APPROVAL SIGNATURES ON FILE		9	C.O.O.	<i>[Signature]</i>	11/17/08
3	E.A.S.			10	CITY ATTORNEY	<i>[Signature]</i>	11/24/08
4	E.O.C.P.			11	ORIG. DEPT	<i>[Signature]</i>	11/25/08
5	DOCKET LIAISON	<i>[Signature]</i>	10/28/08	DOCKET COORD: _____ COUNCIL LIAISON: _____			
6	FM-CIP/DM	<i>[Signature]</i>	11/3/08	COUNCIL PRESIDENT <input type="checkbox"/> SPOB <input type="checkbox"/> CONSENT <input checked="" type="checkbox"/> ADOPTION <input type="checkbox"/>			
7	COMPTROLLER	<i>[Signature]</i>	11/13/08	REFER TO: _____ COUNCIL DATE: 1/13/09			

11. PREPARATION OF:  RESOLUTIONS  ORDINANCE(S)  AGREEMENT(S)  DEED(S)

1. Approving the Plans and Specifications for construction of Alvarado Water Treatment Plant Upgrade & Expansion (Phase III - Rehabilitation of Basins 1 & 2) as advertised by Purchasing & Contracting Department; and  
 (Continued)

11A. STAFF RECOMMENDATIONS:  
**Adopt the resolutions.**

12. SPECIAL CONDITIONS (REFER TO A.R. 3.20 FOR INFORMATION ON COMPLETING THIS SECTION.)

**COUNCIL DISTRICT(S):** (7) Marti Emerald

**COMMUNITY AREA(S):** Navajo

**ENVIRONMENTAL IMPACT:** This activity is covered under the Alvarado Water Treatment Plant Upgrade & Expansion EIR, LDR No. 98-0130. The activity is adequately addressed in the environmental document and there is no change in circumstance, additional information, or project changes to warrant additional environmental review. Because the prior environment documents adequately covered this activity as part of the previously Approved project, the activity is not a separate project for purposes of CEQA review per CEQA Guidelines Sections §15060(c)(3) and 15378(c).

**HOUSING IMPACT:** None

**ATTACHMENTS:** Plans and Specifications, Project Cost Estimate, Location Map, EIR, LDR No. 98-0130

**CITY CLERK INSTRUCTIONS:** Upon Council approval, please forward two (2) copies of the 1472 and Resolutions(s) to Joanne Ferrer, Admin. Aide I, at Project Implementation & Technical Services Division, MS 908A, and one copy of the 1472 and Resolution to Yeshi Bezuneh, Accountant III, at the Comptrollers, MS 6A..

## SECTION 11 – PREPARATION OF: RESOLUTIONS, ORDINANCES, ETC. (CONTINUED):

2. Authorizing the expenditure of \$25,927,030, of which \$24,761,530 is for construction and project related costs from CIP 73-261.3, Alvarado Water Treatment Plant Upgrade and Expansion (Phase III – Rehabilitation of Basins 1 & 2) Fund 41500, Water, and \$1,165,500 is from CIP 73-331.0, Annual Allocation-Water Pooled Contingency, Fund 41500, Water for the purpose of providing funds for this project contingency, contingent upon the City Comptroller furnishing one or more certificates certifying that funds necessary for expenditure under established contract funding phases are, or will be, on deposit with the City Treasurer; and
3. Authorizing the Mayor, or his designee, to establish contract funding phases and execute a construction contract with the lowest responsible and reliable bidder contingent upon the City Comptroller furnishing one or more certificates certifying that funds necessary for expenditure under established contract funding phases are, or will be, on deposit with the City Treasurer; and
4. Authorizing the use of City Force Work in CIP 73-261.3, Alvarado Water Treatment Plant Upgrade & Expansion, for the construction of Alvarado Water Treatment Plant Upgrade and Expansion (Phase III– Rehabilitation of Basins 1 & 2) in an amount not to exceed \$450,000; and
5. Authorizing the City Comptroller, upon the advice from the administering department, to return excess budgeted funds, if any, to the appropriate reserves.

000281

## EXECUTIVE SUMMARY SHEET

DATE REPORT ISSUED:	September 30, 2008	REPORT NO.
ATTENTION:	Council President and City Council	
ORIGINATING DEPT:	Engineering and Capital Projects, Architectural Engineering & Parks Division	
SUBJECT:	Advertise and Award of Alvarado WTP Upgrades & Expansion (Phase III – Rehabilitation of Basins 1 & 2)	
COUNCIL DISTRICTS:	(7) Jim Madaffer	
STAFF CONTACT:	Darren Greenhalgh/Iraj Asgharzadeh (619) 533-6600/(619) 533-5105	

REQUESTED ACTIONS:

Council authorization to Advertise and Award a construction contract for Alvarado WTP Upgrade & Expansion (Phase III – Rehabilitation of Basins 1 & 2).

STAFF RECOMMENDATIONS:

Adopt the Resolutions.

EXECUTIVE SUMMARY:

As part of the Water Department Capital Improvements Program, the Alvarado Water Treatment Plant (AWTP) is undergoing an upgrade and expansion to increase its treatment capacity as well as provide infrastructure improvements to address new Federal Drinking Water Standards, and improve the operations and maintenance at the facility.

The existing flocculation/sedimentation basins 1 & 2 require rehabilitation and upgrade which is the third phase of the AWTP upgrade & expansion project. The project consists of partial demolition of both flocculation basins; and the construction of new influent and effluent pipelines, overflow channels, flocculation basins and flocculator systems, modification of the settled water conduit to accommodate conveyance of ozonated settled water to the filters on the west end of the plant, upgrades of sedimentation equipment, and the sludge collection and conveyance systems.

This project will meet the new drinking water standards set by the U.S. Environmental Protection Agency and included as Items Number 99 & 100 in the California Department of Public Health Compliance Order (04-14-96CO-022). In order to fulfill the Compliance Order, construction of these improvements must complete by June 30, 2012. In addition, the completion of this project is related to the Ozone project which needs to be completed by December 31, 2010 for water treatment and disinfection purposes.

The City of San Diego, as Lead Agency under the California Environmental Quality Act, has reviewed and considered the Addendum, LDR No. 98-0130, dated May 20, 1994, covering the AWTP Upgrade and Expansion, adopted on June 29, 1998, R-290389, to the Alvarado Water Filtration Plant Expansion and Rehabilitation EIR, DEP No. 88-0459, dated May 20, 1994 and adopted on June 29, 1998, R-290389.

City Forces will be utilized on this project for coordinating and effecting operational changes and difficult plant shutdown during construction, while maintaining continuous service to the City of San Diego customers. The work scope also includes closing and opening large diameter valves, monitoring flow in the existing clear wells and day to day coordination with the project team. Their knowledge, experience and participation on the project are essential to the success of the project. The cost for this work is estimated at \$450,000 for the duration of the project.

EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP):

Funding Agency: City of San Diego – Prevailing wages applies to this contract.

000282

Goals: 29.3% Mandatory Subcontractor Participation Goal, 2.6% Advisory Participation Goal Disadvantaged Business Enterprise (DBE), 2.1% Advisory Participation Goal Disabled Veteran Business Enterprise (DVBE), 2.6% Small Minority Business Enterprise (SMBE), 0.6% Minority Women Business Enterprise (MWBE), 21.4% Other Business Enterprise (OBE)

Other: Prior to award, a workforce report, and if necessary, an Equal Opportunity Plan shall be submitted. Staff will monitor the Plan and adherence to the Nondiscrimination Ordinance. EOC staff will evaluate the bidder's compliance with SCOPE. Failure to comply with SCOPE will lead to the bid being declared non-responsive. This contract will be advertised for bids in the San Diego Daily Transcript, the City of San Diego's website, and the E-Bid Board. In addition, once implemented, the Bidder Registration Program will notify registered participants of bid opportunities. Prior to implementation of the Bidder Registration Program, the City will notify trade associations and eligible firms via fax and/or e-mail.

FISCAL CONSIDERATIONS:

The total estimated cost of this project is \$29,712,559, of which \$3,785,529 was previously approved by O-19763. Enterprise funding of \$24,761,530 will be available in CIP No. 73-261.3, AWTP Upgrade and Expansion (Phase III – Rehabilitation of Basins 1 & 2) Fund 41500, Water, and \$1,165,500 is from CIP 73-331.0, Annual Allocation-Water Pooled Contingency, Fund 41500, Water for the purpose of providing funds for this project contingency. The project costs of \$29,712,559 may be reimbursed approximately 80% by current or future debt financing. This project is scheduled to be phase-funded over three fiscal years from FY09 to FY11. No future funding is anticipated. Contingent upon the availability of funds, the City Comptroller will issue an Auditor Certificate for each phase of the project.

PREVIOUS COUNCIL COMMITTEE ACTION:

Council Ordinance O-19763 approved the amendment No. 2 with Malcolm Pirnie, Inc. and amendment No. 3 with CH2M Hill, Inc. for various AWTP Upgrade & Expansion projects. The Committee on Natural Resources and Culture on December 3, 2008, consent motion by Council President Peters, second by Council member Faulconer. Vote to approve 3-0.

COMMUNITY PARTICIPATION AND PUBLIC OUTREACH EFFORTS:

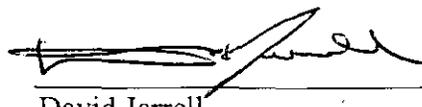
Community meetings have been conducted to inform members of the public, including the Friends of Lake Murray, Mission Trails Regional Park Citizen's Advisory Committee (CAC) and Task Force (TF), and local residents about the scope and schedule of the AWTP Upgrade and Expansion Project. A CIP hotline is regularly maintained to answer questions and provide information to the public. Door hangers, fact sheets, newsletters, AWTP WaterWorks newsletters, and updates on the City of San Diego Web site also add to the public outreach efforts.

KEY STAKEHOLDERS & PROTECTED IMPACTS (if applicable):

Citywide Water Customers, MPI, Inc. (Design Consultant), CH2M HILL, Inc (Construction Management Consultant), Mission Trails Regional Park Citizen's Advisory Committee and Task Force, San Diego County Water Authority and California Department of Public Health.



Patti K. Boekamp, Director  
Engineering & Capital Projects Department



David Jarrell  
Deputy Chief of Public Works

000283

RESOLUTION NUMBER R-\_\_\_\_\_

DATE OF FINAL PASSAGE \_\_\_\_\_

A RESOLUTION TO THE COUNCIL OF THE CITY OF SAN DIEGO FOR APPROVING THE PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF ALVARADO WATER TREATMENT PLANT [WTP] UPGRADE AND EXPANSION (PHASE III – REHABILITATION OF BASINS 1 AND 2) AS ADVERTISED BY THE PURCHASING AND CONTRACTING DEPARTMENT.

WHEREAS, the Water Department Capital Improvements Program, the Alvarado Water Treatment Plant [WTP] is undergoing an upgrade and expansion to increase its treatment capacity as well as provide infrastructure improvements to address new Federal Drinking Water Standards, and improve the operations and maintenance at the facility; and

WHEREAS, the existing flocculation/sedimentation basins 1 and 2 requires rehabilitation and upgrade which is the third phase of the Alvarado WTP upgrade and expansion project; and

WHEREAS, the project consists of partial demolition of both flocculation basins; and the construction of new influent and effluent pipelines, overflow channels, flocculation basins and flocculator systems, modification of the settled water conduit to accommodate conveyance of ozonated settled water to the filters on the west end of the plant, upgrades of sedimentation equipment, and the sludge collection and conveyance systems; and

WHEREAS, this project will meet the new drinking water standards set by the U.S. Environmental Protection Agency and included as Item Numbers 99 and 100 in the California Department of Public Health Compliance Order (04-14-96CO-022); and

WHEREAS, the City of San Diego, as Lead Agency under the California Environmental Quality Act, has reviewed and considered the Addendum, LDR No. 98-0130, dated May 20, 1994, covering the Alvarado WTP Upgrade and Expansion, adopted on June 29, 1998,

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R-290389, to the Alvarado Water Filtration Plant Expansion and Rehabilitation EIR, DEP No. 88-0459, dated May 20, 1994, and adopted on June 29, 1998, R-290389; and

WHEREAS, City Forces will be utilized on this project for coordinating and effecting operational changes and difficult plant shutdown during construction, while maintaining continuous service to the City of San Diego customers; and

WHEREAS, the City Forces' work scope also includes closing and opening large diameter valves, monitoring flow in the existing clear wells and day to day coordination with the project team; and

WHEREAS, the knowledge, experience and participation of City Forces on the project are essential to the success of the project , as the cost for this work is estimated at \$450,00 for the duration of the project; NOW, THEREFORE,

BE IT RESOLVED, by the Council of the City of San Diego, as follows:

1. That the plans and specifications for the construction of Alvarado WTP Upgrade and Expansion (Phase III – Rehabilitation of Basins 1 and 2), filed in the office of the City Clerk as Document No. \_\_\_\_\_, are approved.
2. That the expenditure of an amount not to exceed \$25,927,030, of which \$24,761,530 is for construction and project related costs from CIP No. 73-261.3, Alvarado WTP Upgrade and Expansion (Phase III – Rehabilitation of Basins 1 and 2) Fund No. 41500, Water, and \$1,165,500 is for CIP No. 73-331.0, Annual Allocation-Water Pooled Contingency, Fund No. 41500, Water is authorized solely and exclusively for the purpose of providing funds for the Project and related costs, provided that the City Auditor and Comptroller first furnishes one or more certificates certifying that the funds are, or will be, on deposit with the City Treasurer.

3. That, after advertising for bids in accordance with law, the Mayor is authorized to award the Project construction contract to the lowest responsible and reliable bidder, provided that the City Auditor and Comptroller first furnishes one or more certificates certifying that the funds necessary for expenditure are, or will be, on deposit with the City Treasurer.

4. Authorizing the use of City Force Work in CIP No. 73-261.3, Alvarado WTP Upgrade and Expansion, pursuant to recommendation indicating that said work can be done by the City Forces more economically than if let by contract , for the construction of Alvarado WTP Upgrade and Expansion (Phase III – Rehabilitation of Basin 1 and 2) in an amount not to exceed \$450,000.

5. That the City Auditor and Comptroller is authorized, upon advice from the administering department, to transfer excess budgeted funds, if any, to the appropriate reserves.

6. That this activity is not subject to the California Environmental Quality Act pursuant to CEQA Guidelines Section 15378(b)(4). This activity is a subsequent discretionary approval covered under the Alvarado WTP Upgrade and Expansion EIR, LDR No. 98-0130 and Alvarado Water Filtration Plant Expansion and Rehabilitation EIR, DEP No. 88-0459. The activity is adequately addressed in the environmental document and there is no change in circumstance, additional information, or project changes to warrant additional environmental review pursuant to CEQA Guidelines section 15177.

APPROVED: MICHAEL J. AGUIRRE, City Attorney

By   
Mark M. Mercer  
Deputy City Attorney

MMM:nda:mb  
11/17/08  
Or.Dept:E&CP  
R-2009-666

I hereby certify that the foregoing Resolution was passed by the Council of the City of San Diego, at this meeting of \_\_\_\_\_.

ELIZABETH S. MALAND  
City Clerk

By \_\_\_\_\_  
Deputy City Clerk

Approved: \_\_\_\_\_  
(date)

\_\_\_\_\_  
JERRY SANDERS, Mayor

Vetoed: \_\_\_\_\_  
(date)

\_\_\_\_\_  
JERRY SANDERS, Mayor