ORANGE COUNTY SANITATION DISTRICT

Appendix A

NOTICE OF PREPARATION
AND
COMMENTS

ORANGE COUNTY SANITATION DISTRICT

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P.O. Box 8127
Fountain Valley, CA
92728-8127

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10844 Ellis Avenue
Fountain Valley, CA
92708-7018

THIS PROJECT MAY BE OF INTEREST TO YOU
Carbon Canyon Dam Sewer Pipeline Project, Brea

Who we are: OCSD is the public agency responsible for safely collecting, treating, and disposing wastewater (sewage) and industrial waste for most of Orange County. OCSD operates the third largest wastewater system on the west coast, serving over 2.3 million people. OCSD is governed by a 25-member board of directors comprised of member local sewer agencies and cities within OCSD's 471-square-mile service area.

Project: The Orange County Sanitation District (OCSD) is proposing to install a gravity sewer pipeline, which would extend from an existing OCSD pump station near Carbon Canyon Road (within Carbon Canyon Regional Park) to an existing OCSD sewer pipeline within the Rose Drive right-of-way.

The Problem Statement: The existing Carbon Canyon Pump station is too small for current and future wastewater flows. The existing station does not meet current electrical and safety codes. OCSD must improve sewer capacity to serve current and planned residential development within the regional vicinity of the proposed project. The proposed project would improve sewer services to satisfy existing demand and accommodate planned demand, based on approved general plan land use designations for areas within the City of Brea and unincorporated County of Orange.

OCSD is also studying an option to provide sewer services to areas in unincorporated Los Angeles County and the City of Chino Hills in addition to the areas within Orange County.

Options being considered:

1. OCSD trunk sewer sized to accommodate Orange County current and planned flow.
2. Trunk sewer sized to accept current, planned and proposed residential development flow from both Orange County and Los Angeles County serving approximately 2600 homes with the natural drainage pattern for this area entering OCSD's service area through the City of Brea.

Purpose of the NOP: The purpose of the Notice of Preparation (NOP) is to:

- Describe the proposed project;
- The proposed location of the project;
- The probable environmental effects of the project that will be evaluated in the Environmental Impact Report (EIR);
- Solicit public input for 30 days regarding the proposed project scope and content to be studied in the EIR.

How to Comment: In accordance with the time limits mandated by California Environmental Quality Act (CEQA), **written responses to the NOP must be received by October 22, 2004.**

OCSD will also accept comments and suggestions on the proposed project at a scoping meeting to be held on October 19, 2004 **at 6:30 p.m. at the Brea Civic & Cultural Center at 1 Civic Center Circle, Brea, CA 92821.**

Further Information: Attached is the NOP with complete details about the project. You can also visit www.ocsd.com for further information on the NOP or CEQA, or contact:

Mr. Jim Herberg
JHERBERG@OCSD.com
714/593-7310

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
Mailing Address: P. O. Box 569
Phone: 714/962-2411
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NOTICE OF PREPARATION
AND
PUBLIC SCOPING MEETING NOTICE

DATE: September 22, 2004
SUBJECT: Notice of Intent to Prepare a Draft Environmental Impact Report

Project Title: **Carbon Canyon Dam Sewer Pipeline Project**
Applicant: Orange County Sanitation District
Lead Agency: **Orange County Sanitation District**
Address: 10844 Ellis Avenue, Fountain Valley, California 92728-8127
Contact: **Jim Herberg** **Phone:** (714) 593-7310

The Orange County Sanitation District (OCSD) has determined that an Environmental Impact Report (EIR) is necessary for Carbon Canyon Dam Sewer Pipeline Project (the "project"). The EIR would analyze the Expanded Service Area Option, which would provide sewer service to the same tributary areas as the proposed project, in addition to areas in unincorporated Los Angeles County and the City of Chino Hills. OCSD is the lead agency for the project and will prepare the EIR under the terms and requirements of the California Environmental Quality Act (CEQA) and the implementing Guidelines of the California Environmental Quality Act ("Guidelines").

The purpose of this notice is: (1) to serve as the Notice of Preparation to potential Responsible Agencies, federal agencies involved in funding or approving the project, and Trustee Agencies responsible for natural resources affected by the project, pursuant to Section 15082 of the CEQA Guidelines; and (2) to advise and solicit comments and suggestions regarding the preparation of the EIR, environmental issues to be addressed in the EIR, and any related issues, from interested parties other than those noted above, including interested or affected members of the public. OCSD requests that any potential Responsible or Trustee Agency responding to this notice respond in a manner consistent with CEQA Guidelines Section 15082(b).

In order for concerns to be incorporated into the Draft EIR, we need to know the views of you or your agency as to the scope and content of the environmental information relevant to you or your agency's statutory responsibilities in connection with the proposed project. The project description, location, and an analysis indicating the probable environmental effects of the proposed action are contained in the attached materials.

All parties that have submitted their names and mailing addresses will be notified as part of the current project's CEQA review process. If you wish to be placed on the mailing list or have any questions or need additional information, please contact the person identified above.

Pursuant to Public Resources Code Section 21080.4 and Guidelines Section 15082(b), Responsible Agencies must submit any comments in response to this notice not later than ***30 days after receipt.*** All parties that have submitted their names and mailing addresses will be notified as part of the current project's CEQA review process. If you wish to be placed on the mailing list or have any questions or need additional information, please contact the person identified above. OCSD will accept **written** comments from agencies and interested parties regarding this notice through the close of business on **Thursday, October 22, 2004 (submit written comments to OCSD at the address shown above).**

PUBLIC SCOPING MEETING

A public scoping meeting will be held to receive public comments on the project on **Tuesday, October 19, 2004 at 6:30 PM,** at the Conference Training Center, located at 1 Civic Center, Brea, CA 92821. Any interested parties may attend to gain a better understanding of the project and to identify environmental issues of concern.

Submitted by:

Jim Herberg
Planning Manager
Orange County Sanitation District

Kevin Thomas, CEP
EIR Consultant Project Manager
RBF Consulting

INITIAL STUDY/ENVIRONMENTAL CHECKLIST

Carbon Canyon Dam Sewer Pipeline Project

LEAD AGENCY:

Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley, California 92728-8127
Contact: Mr. Jim Herberg
714/593-7310

CONSULTANT:

RBF Consulting
3536 Concours, Suite 220
Ontario, CA 91764
Contact: Mr. Kevin Thomas
909/941-5204

September 22, 2004

JN 10-101519.001

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LIST OF EXHIBITS

1.0 INTRODUCTION

Following preliminary review of the proposed project, the Orange County Sanitation District (OCSD) has determined that the Carbon Canyon Dam Sewer Pipeline Project is subject to the guidelines and regulations of the California Environmental Quality Act (CEQA). The OCSD has determined that an Environmental Impact Report (EIR) is the appropriate CEQA document for this project, due to potential impacts and public interest in the project. This Initial Study addresses the direct, indirect, and cumulative environmental effects associated with implementation of the Carbon Canyon Dam Sewer Pipeline Project, as proposed.

1.1 STATUTORY AUTHORITY AND REQUIREMENTS

This environmental documentation, which has been prepared by OCSD in accordance with CEQA, is intended as an informational document undertaken to provide an environmental basis for subsequent discretionary actions related to the project. The resulting document is not, however, a policy document and its approval and/or certification neither presupposes nor mandates any actions on the part of those agencies from whom permits and other discretionary approvals would be required.

Although CEQA does not require an Initial Study in this case (only a Notice of Preparation is required when the Lead Agency has decided to prepare an EIR), the OCSD has elected to prepare this Initial Study/Environmental Checklist to assist in scoping EIR issues and to provide additional opportunity for agency and public review prior to Draft EIR distribution. In accordance with Section 15063 of the State CEQA Guidelines, this Initial Study is a preliminary analysis prepared by the Lead Agency, OCSD, in order to provide early coordination and public input for the Environmental Impact Report (EIR) regarding potentially significant impacts. The purpose of this Initial Study is to inform the OCSD decision-makers, affected agencies, and the public of the intended scope and content of the EIR, based on anticipated potential environmental impacts associated with construction and implementation of the proposed project.

1.2 AGENCY CONSULTATION AND PUBLIC REVIEW PROCESS

The OCSD will be holding a formal Public Scoping Meeting (refer to the Scoping Meeting Notice for details). Formal written comments on the Initial Study/Environmental Checklist, as well as public comments received at the Public Scoping Meeting will be evaluated in preparing the Draft EIR.

Following completion of the 30-day NOP public review period, the Draft EIR will be prepared and circulated for a 45-day public review period, during which agencies and interested parties will have the opportunity to review and comment upon the Draft EIR. The OCSD will prepare formal written responses to all public comments received on the Draft EIR during the 45-day public review period. The Responses to Comments document will be made available at least 10 days prior to the OCSD Board of Directors public hearing to consider certification of the EIR.

1.3 RELATED ENVIRONMENTAL DOCUMENTATION

Pertinent documents relating to this Initial Study/Environmental Checklist have been cited and incorporated, in accordance with Sections 15148 and 15150 of the CEQA Guidelines, to eliminate the need for inclusion of voluminous engineering and technical reports. Of particular relevance are previous EIRs that present information regarding descriptions of environmental settings, future development-related growth and cumulative impacts. This Initial Study has incorporated by reference the *Orange County Sanitation District 1999 Strategic Plan*

Environmental Impact Report, the *City of Brea General Plan Environmental Impact Report,* the *Carbon Canyon Specific Plan Environmental Impact Report,* the *County of Los Angeles General Plan Environmental Impact Report,* and the *City of Chino Hills General Plan Environmental Impact Report.* These planning and environmental clearance documents include policies related to the proposed project, as well as existing conditions for the area and General Plan buildout environmental analysis utilized throughout this Initial Study. These documents are available for review at the City of Brea Development Services Department, Planning Division, located at One Civic Center Circle, Brea, California, 92621.

Orange County Sanitation District 1999 Strategic Plan Program Environmental Impact Report, June 1999

The Orange County Sanitation District prepared its 1999 Strategic Plan to update the previous 1989 Master Plan, in order to identify projects needed to accommodate projected population growth in its service area and to comply with changing future regulations that affect treatment facilities and effluent quality. The Program EIR describes the environmental impacts of the various components of the District's operations including collection system upgrades, treatment facility upgrades, discharge location options, peak wet weather management options, and biosolids management options. Mitigation measures are identified for reducing those impacts. The impact analysis in this report was based on a variety of sources, including District strategic analysis, agency consultation, archaeological reports on the project sites, and field surveys.

City of Brea General Plan Draft Environmental Impact Report, February 2003

The City of Brea General Plan Environmental Impact Report consists of environmental analysis associated with implementation of the seven required General Plan elements and one optional element. The General Plan EIR presents the environmental analysis for 10 conditions which include: air quality; geology, soils, and topography; hydrology; biological resources; cultural resources; land use; transportation/circulation; noise; visual resources; and public services and utilities. The EIR concluded that upon General Plan buildout an unavoidable adverse impact would occur for the areas identified above with the exception of cultural resources. The City is presently updating the General Plan EIR to address projected land uses and recently completed City-wide infrastructure studies including water, wastewater and traffic.

Carbon Canyon Specific Plan Environmental Impact Report, June 1984 (Amended 1986)

The Carbon Canyon Specific Plan Environmental Impact Report addresses environmental impacts associated with the implementation of an approximate 1,804-acre specific plan area located in the northeastern portion of the City of Brea. This EIR examines potentially significant environmental impacts and identifies mitigation measures capable of avoiding or substantially lessening impacts associated with implementation of the Specific Plan area. This EIR identified unavoidable significant impacts for the following ten areas; landform/topography; geology, soils, and seismicity; hydrology/water quality; biological resources; transportation/circulation; air quality; acoustic environment; land use; aesthetics; and public services and facilities.

City of Chino Hills General Plan Environmental Impact Report, September 1994

The City of Chino Hills General Plan Environmental Impact Report (EIR) describes the environmental setting, identifies potential environmental impacts, and develops mitigation measure to mitigate, avoid or substantially lessen any significant impacts associated with the implementation of the Chino Hills General Plan and other related documents. The City was only recently incorporated in December of 1991, although land use policy was established in 1982 for over 60 percent of its jurisdiction through the Chino Hills Specific Plan. The Chino Hills

General Plan EIR was prepared using the "tiering" concept, which is especially appropriate in the case of Chino Hills where such a large portion of the community was the subject of recent extensive environmental documentation and review at the time of the 1990 Chino Hills Specific Plan revision. The EIR in accordance with the Guidelines provisions established within CEQA evaluate the impacts of implementing the entire General Plan and allows for consideration of broad policy alternative and program-wide mitigation measures.

County of Los Angeles General Plan Environmental Impact Report, 1981

In accordance with CEQA guidelines, the Los Angeles General Plan Environmental Impact Report analyzes and describes the potential environmental issues identified in the CEQA checklist which includes land use, transportation, housing, conservation/open space, noise, safety and utility impacts. The EIR analyzes potential impacts with the implementation of the General Plan. The County of Los Angeles is currently in the process of updating the EIR, which is anticipated to be completed by the end of 2004.

2.0 PROJECT DESCRIPTION

This Initial Study analyzes the potential environmental effects of the following:

1. The proposed project, which consists of a sewer pipeline capacity improvement project serving areas within the existing OCSD service area within Orange County; and
2. The Expanded Service Area Option, which consists of a nearly identical sewer pipeline (slightly upsized) capacity improvement project proposed to serve the existing OCSD service area in addition to portions of unincorporated Los Angeles County and City of Chino Hills.

The proposed project and optional project are described in further detail below.

2.1 PROJECT LOCATION

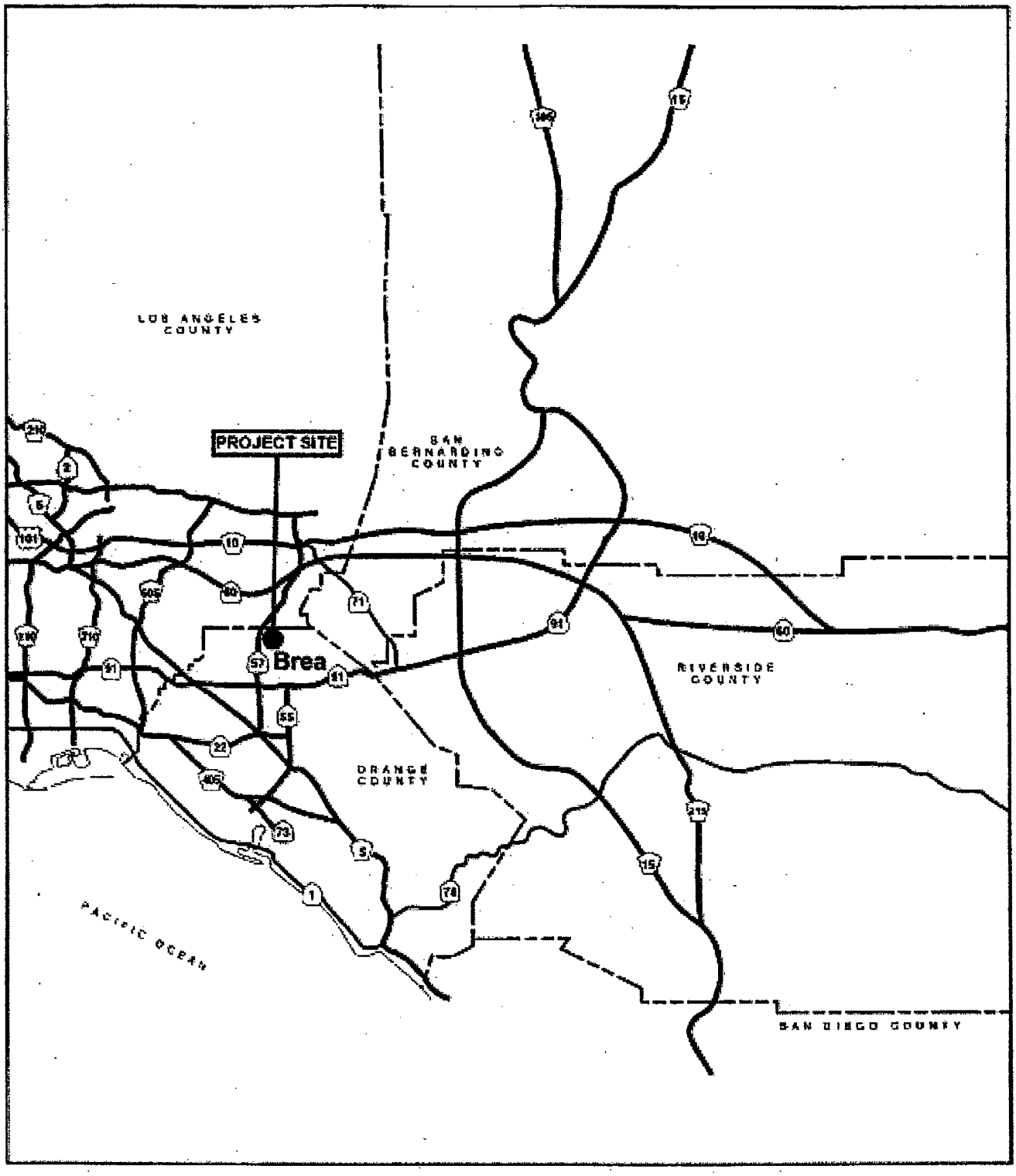
The proposed pipeline project would be located in the northeastern portion of the County of Orange, which is in the eastern portion of the City of Brea and the western portion of the Carbon Canyon Specific Plan area (refer to Exhibit 1, *Regional Vicinity Map* and Exhibit 2, *Site Vicinity Map*). The northern extent of the proposed pipeline would begin within Carbon Canyon Regional Park (a County of Orange-operated facility on land owned by the U.S. Army Corps of Engineers), approximately 425 feet south of Carbon Canyon Road (State Route 42) and about ½ mile east of the Carbon Canyon Road/South Valencia Avenue intersection. The pipeline alignment would generally travel from the northeast to the southwest. From its starting point within Carbon Canyon Regional Park (near the existing OCSD pump station), the pipeline alignment would then travel southwest towards the Carbon Canyon Dam through the regional park, turn west through the Aera Energy property (this reach would be microtunneled through a small ridge to minimize grading), and then curve to the south through agricultural property (refer to Exhibit 3, *Aerial Map*). The southern extent of the project would terminate within Rose Drive right-of-way, approximately 3/4 mile south of Carbon Canyon Road.

2.2 ENVIRONMENTAL SETTING

Carbon Canyon Regional Park is a 124-acre park located in the City of Brea, County of Orange, California. The park includes picnic areas, restrooms, barbecues, a four-acre fishing lake, equestrian trails, hiking trails, paved bike trails, lighted tennis courts, multi-use fields, volleyball courts and play equipment. The Carbon Canyon Dam is an earthen dam that is used for flood control purposes. The County of Orange (Harbors, Beaches and Parks Department) operates the park on land owned by U.S. Army Corps of Engineers (ACOE). The project-affected portion of the Aera Energy parcel is primarily open space with oil drilling and interim agricultural uses. Vegetation types along the proposed pipeline alignment consist primarily of ornamental plants, annual grassland, irrigated row/field crops, and a small amount of riparian, chaparral, and coastal sage scrub. It should be noted that the proposed alignment was developed in an effort to minimize impacts to the heavily vegetated area to the immediate east, while still achieving the desired facility objectives. Elevations in the project area range from approximately 525 feet above mean sea level (msl) to approximately 420 feet above msl at the project's southern terminus.

2.3 BACKGROUND

The OCSD owns and operates the existing Carbon Canyon pipeline and pump station located within the 124-acre Carbon Canyon Regional Park. The pump station was originally built in



REGIONAL VICINITY MAP

CARBON CANYON DAM SEWER PIPELINE PROJECT
INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

EXHIBIT 1

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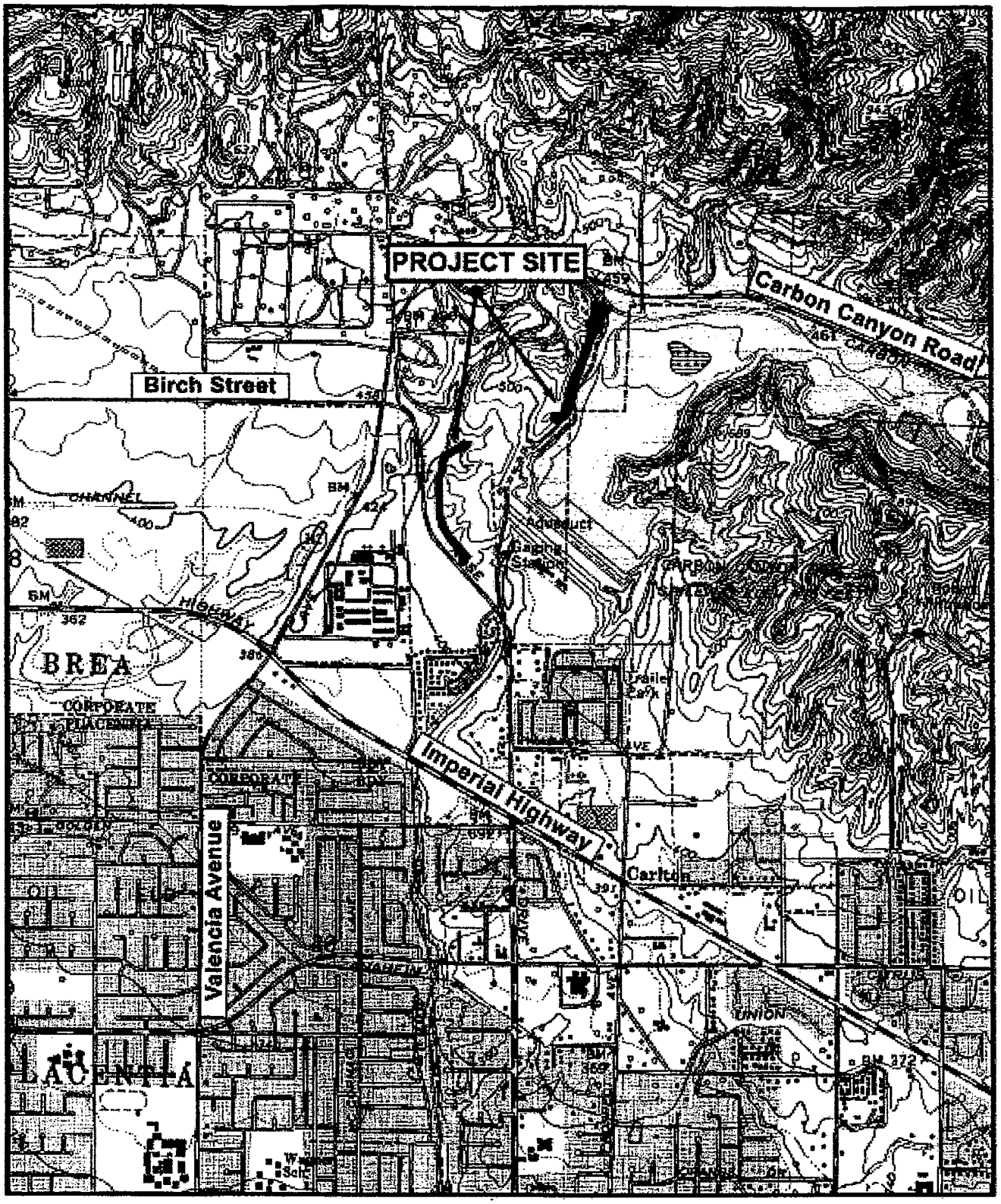
PLANNING ● DESIGN ● CONSTRUCTION



Source: United States Geological Survey, Yorba Linda Quadrangle, Photorevised 1981

SITE VICINITY MAP

CARBON CANYON DAM SEWER PIPELINE PROJECT

INITIAL STUDY/ENVIRONMENTAL CHECKLIST

EXHIBIT 2

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PLANNING ■ DESIGN ■ CONSTRUCTION

Source: Eagle Aerial
Date of Photo: 6/4/02

AERIAL MAP

CARBON CANYON DAM SEWER PIPELINE PROJECT
INITIAL STUDY/ENVIRONMENTAL CHECKLIST

EXHIBIT 3

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PLANNING ■ DESIGN ■ CONSTRUCTION

1974 and subsequently modified in 1984. These facilities were originally developed to serve residential land uses within the Carbon Canyon area, and currently serve the residential communities of Olinda Village, Olinda Heights, and Hollydale Mobile Estates (refer to Exhibit 4, Existing Conditions).

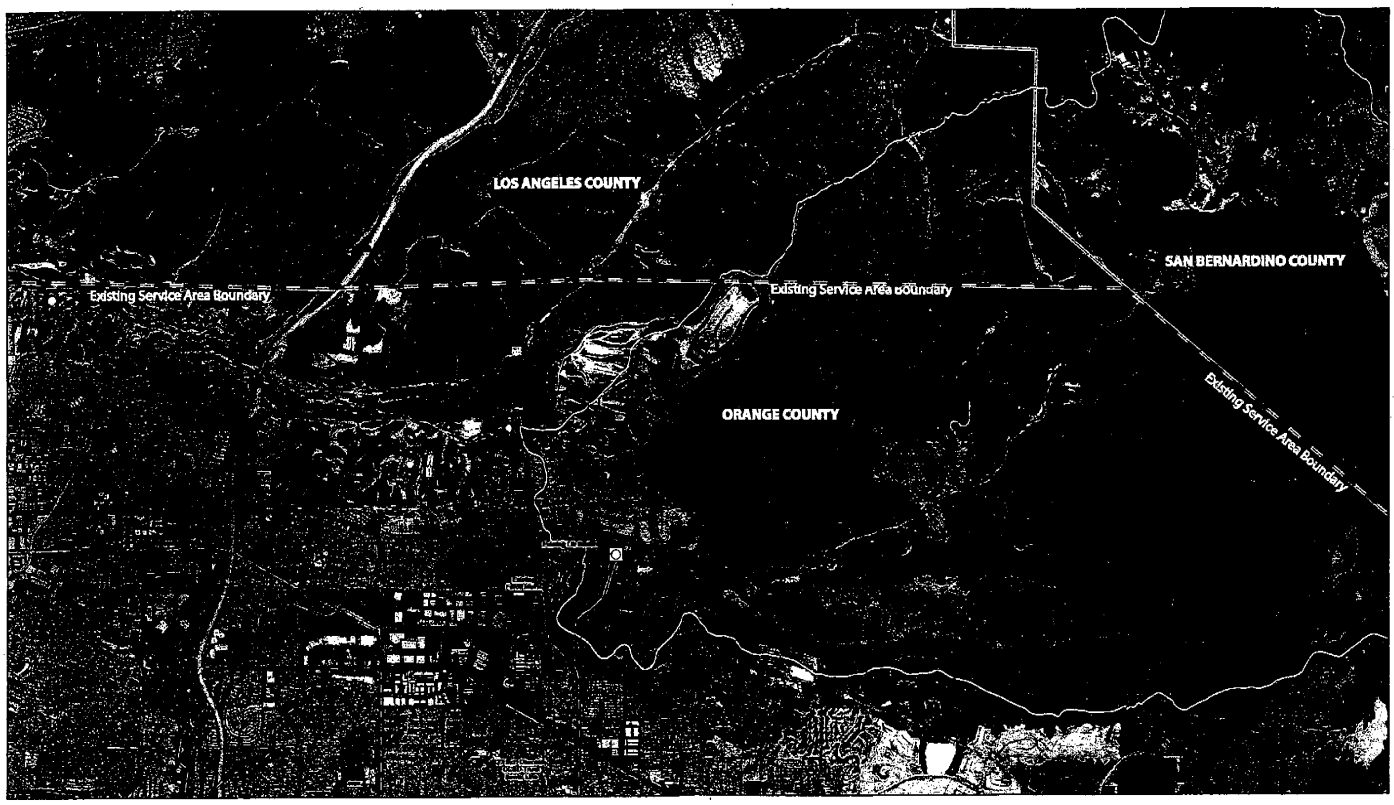
Recent residential development and proposed residential projects have created a need for additional sewer facilities. The proposed project would provide sewer service to satisfy existing and projected additional demand, based on approved general plan land use designations for areas within the City of Brea and unincorporated County of Orange. Upon completion, the proposed project is proposed to provide sewer service to:

- existing Olinda Village (currently served by existing pipeline);
- existing Olinda Heights (currently served by existing pipeline);
- existing Hollydale Mobile Estates (currently served by existing pipeline);
- existing Olinda Alpha Landfill;
- proposed Canyon Crest project;
- future development in the Carbon Canyon area;
- future development in unincorporated Orange County areas;
- portions of the existing Chino Hills State Park;
- proposed Brea Central project;
- future development on property owned by Aera Energy, along the proposed pipeline alignment;
- future development on property owned by Aera Energy (Aera Master Planned Community), located along the Orange County/Los Angeles County line within unincorporated Orange County;
- proposed Tonner Hills project; and
- existing Carbon Canyon Park and Dam.

Currently, there are two cast iron force mains (4-inches and 6-inches in diameter) connected to the pump station. Both cast iron force mains travel through the park and connect to an existing OCSD manhole at the top of Carbon Canyon Dam. Running parallel to the two OCSD force mains is a six-inch gravity waste water line owned by BreitBurn Energy Company that increases to 12-inches through the dam and then reduces back to six inches and diverges from the OCSD alignment north of the Rose Drive/Vesuvius Drive intersection. Current peak flow from the existing pipeline's tributary area is approximately 0.48 million gallons per day (MGD)[1]. Existing capacity for the pipeline/pump station facilities is limited by the operational characteristics of the pump station, which can convey a maximum of approximately 0.54 MGD of sewage. Existing flows often require the operation of an emergency back-up pump (adding an additional 0.54 MGD of *emergency* capacity) to accommodate flows beyond 0.54 MGD. Implementation of the proposed project would eliminate the need for a pump station, instead relying on gravity flow for conveyance.

OCSD has previously examined several alternative pipeline alignments, such as: 1) acquisition of an existing 12" oil pipeline running through Carbon Canyon Dam; 2) an alignment within an existing access road west of the proposed alignment; and 3) multiple variations of the portion of pipeline proposed to be micro-tunneled. Micro-tunneling uses a remotely controlled Boring Machine combined with pipe jacking to directly install product pipelines underground without having to dig a trench. All such alternatives were found to be less feasible than the proposed project due to engineering/cost constraints and/or property ownership issues.

[1] Carbon Canyon Dam Lift Station and Force Main – Olinda Heights, Psomas, August 7, 1997.



Legend

Existing Lift Station
Existing OCSD Trunk Line
OCSD Manholes
Tributary Boundary
Existing Pump Station Service Area

Note: Additional existing City-owned sewer pipelines connecting to the OCSD trunk system are not shown.

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EXISTING CONDITIONS
CARBON CANYON DAM SEWER PIPELINE PROJECT
INITIAL STUDY/ENVIRONMENTAL CHECKLIST
EXHIBIT 4

The EIR is intended to analyze both the direct and indirect environmental impacts of the proposed project and Expanded Service Area Option (described below in Section 2.4, *Project Characteristics*). Direct impacts can be defined as those impacts occurring as a direct result of project construction and operation, primarily in the immediate vicinity of the subject site (such as noise, air quality, traffic, and impacts to cultural/biological resources, among others). Indirect impacts can be defined as growth inducing or cumulative effects of the project, resulting in impacts spread over a wider geographic area.

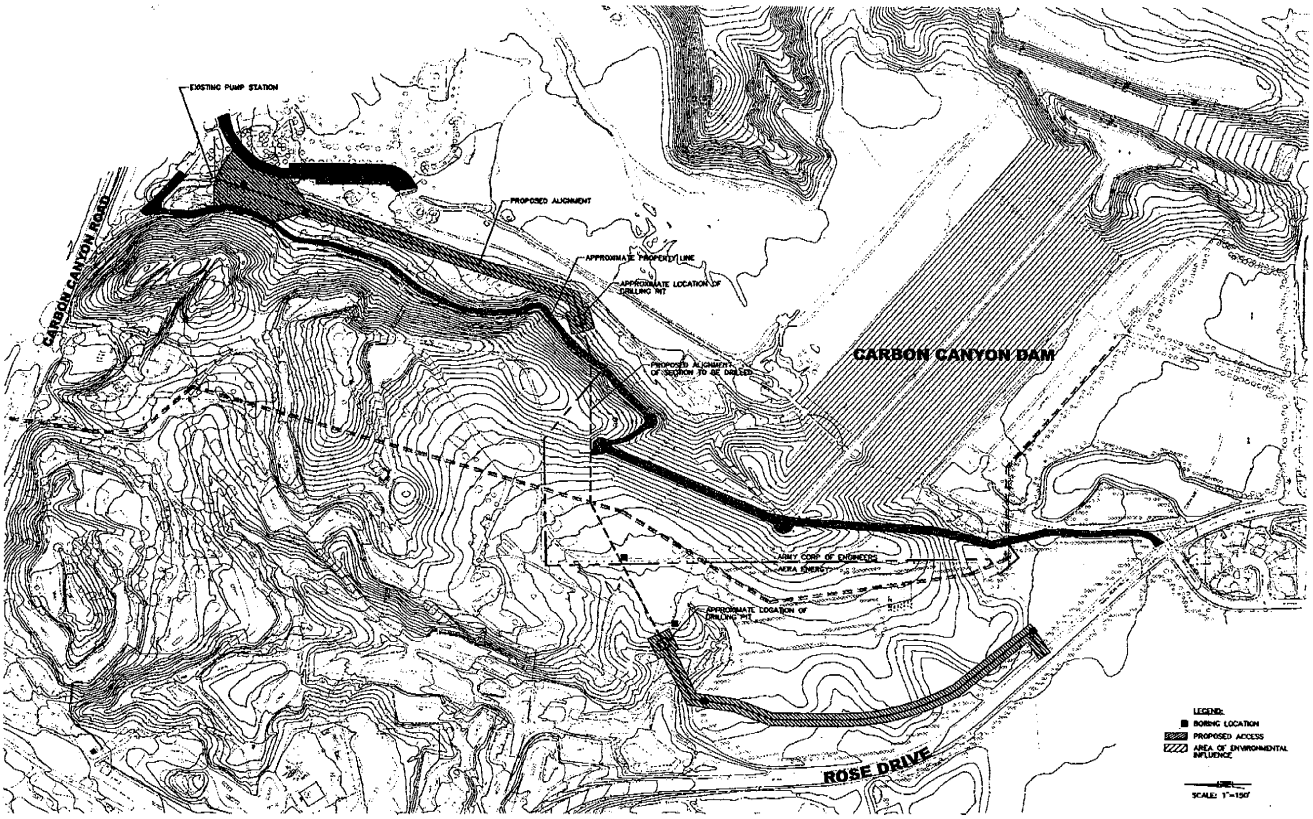
It should be noted that, although the OCSD's *1999 Strategic Plan Program Environmental Impact Report* was prepared to address potential impacts of various improvements necessary to provide adequate service to its service area, the proposed project was not specifically included or analyzed within the *Strategic Plan Program EIR.* In addition, an optional project (the Expanded Service Area Option, described below) proposes to provide sewer service outside of the service area boundary evaluated in the Strategic Plan EIR. Therefore, in order to address the site-specific impacts of the proposed project and Expanded Service Area Option, and to evaluate potential land use/growth issues of providing sewer service to areas outside the District's current service boundary, the OCSD has initiated preparation of an EIR for the Carbon Canyon Dam Sewer Pipeline Project.

2.4 PROJECT CHARACTERISTICS

The proposed project includes the installation of a total of approximately 4,500 linear feet (LF) of gravity sewer pipeline beginning near the existing OCSD pump station near Carbon Canyon Road (within Carbon Canyon Regional Park) and heading south towards the Dam. This first section of pipeline, approximately 1,500 LF, will be constructed using standard trenching methods with a depth of pipe approximately 10 feet below ground surface (bgs). Prior to reaching the dam, the pipeline is proposed to turn westward and continue for an additional 1,300 LF, passing through a small ridge (which is necessary to allow gravity flow and abandon the existing pump station). This section of pipeline will be installed using a micro-tunneling method to minimize grading. As stated above, micro-tunneling uses a remotely controlled boring machine combined with pipe jacking to directly install pipelines underground, thus eliminating the need for trenching. Portions of this pipeline will reach 100 feet bgs. The pipeline would then curve to the south within property owned by Aera Energy. This segment would be approximately 1,700 LF and would utilize standard trenching methods. The pipeline would terminate within Rose Drive right-of-way, where it would connect to an existing OCSD sewer pipeline. The estimated diameter on the proposed pipeline is 27 inches. The total length of the pipeline would be approximately 4,500 LF (refer to Exhibit 2, *Site Vicinity Map*, Exhibit 3, *Aerial Map,* and Exhibit 5, *Conceptual Pipeline Alignment*).

Project implementation would also require the abandonment of the existing pump station and two force mains (4-inch and 6-inch in diameter) constructed in 1974. Portions of the two force mains that interfere with construction of the proposed project will be removed and the remaining open portion will be securely sealed with concrete. The underground pump station structure will be abandoned by either filling the cavity or sealing it hollow in accordance with APWA Standard Plan 381-0. Abandonment would not require excavation of soil or removal of vegetation beyond what is proposed as part of the project.

The proposed project would increase sewer pipeline capacity to accommodate the demands of planned growth within the County of Orange and City of Brea, based on land use designations within their respective General Plans. The project would serve an approximate total of 8,591 acres and approximately 12,758 dwelling units. Based on OCSD wastewater generation factors for the land uses identified in the County of Orange and City of Brea General Plans, peak wet



CONCEPTUAL PIPELINE ALIGNMENT

CARBON CANYON DAM SEWER PIPELINE PROJECT
INITIAL STUDY/ENVIRONMENTAL CHECKLIST

EXHIBIT 5

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weather flow for the proposed project would require implementation of a 27-inch diameter gravity sewer pipeline. This 27-inch pipeline would have an operational capacity of approximately 12.5 MGD (8,653 gpm). Refer to Table 1, *Projected Wastewater Service Demand* for additional information.

Expanded Service Area Option

The Expanded Service Area Option would provide sewer service to the same tributary areas as the proposed project, in addition to areas in unincorporated Los Angeles County and the City of Chino Hills (refer to Exhibit 6 – Proposed Project/Expanded Service Area Option). These areas would consist of:

- a proposed 2,614-acre portion of the Aera Master Planned Community (located within unincorporated Los Angeles County);
- a 981-acre portion of the Firestone Boy Scout Camp (located within unincorporated Los Angeles County); and
- the proposed 80-acre Sleepy Hollow Estates development (located within the City of Chino Hills in San Bernardino County).

This option would increase the tributary area of the project by a total of approximately 3,675 acres. The proposed additional service areas are located immediately north of the existing OCSD service area boundary (refer to Exhibit 6, Proposed Project/Expanded Service Area Alternative).

The Expanded Service Area Option would have a tributary area of approximately 12,266 acres. Based on OCSD wastewater generation factors for the land uses identified in the County of Los Angeles and City of Chino Hills General Plans, peak wet weather flow for the proposed project would require implementation of a 30-inch diameter gravity sewer pipeline (versus 27" for the proposed project). This 30-inch pipeline would have an operational capacity of approximately 16.7 MGD (11,465 gpm). Refer to Table 1, *Projected Wastewater Service Demand* for additional information. New pipelines connecting the expanded service areas (within unincorporated Los Angeles County and the City of Chino Hills) to the OCSD trunk system will be required, and will be conceptually analyzed within the EIR.

The OCSD presently provides service for areas immediately adjacent to, but outside of, its boundaries under separate sewer service agreements. In the past, the OCSD has entered into agreements with Los Angeles County Sanitation District Nos. 18 and 19, the Sandlewood Sewer Maintenance District, the community of Sunset Beach, the Seal Beach Naval Weapons Station, and the Santa Ana Watershed Project Authority.

In 1985, the OCSD adopted a resolution fixing the OCSD's service area as the then existing boundaries and/or spheres of influence. This policy was adopted in part because of concerns by the City of Fountain Valley that continued annexations or execution of sewer service agreements would require undue expansion of Reclamation Plant No. 1 in Fountain Valley. In 1999, this policy was revisited.

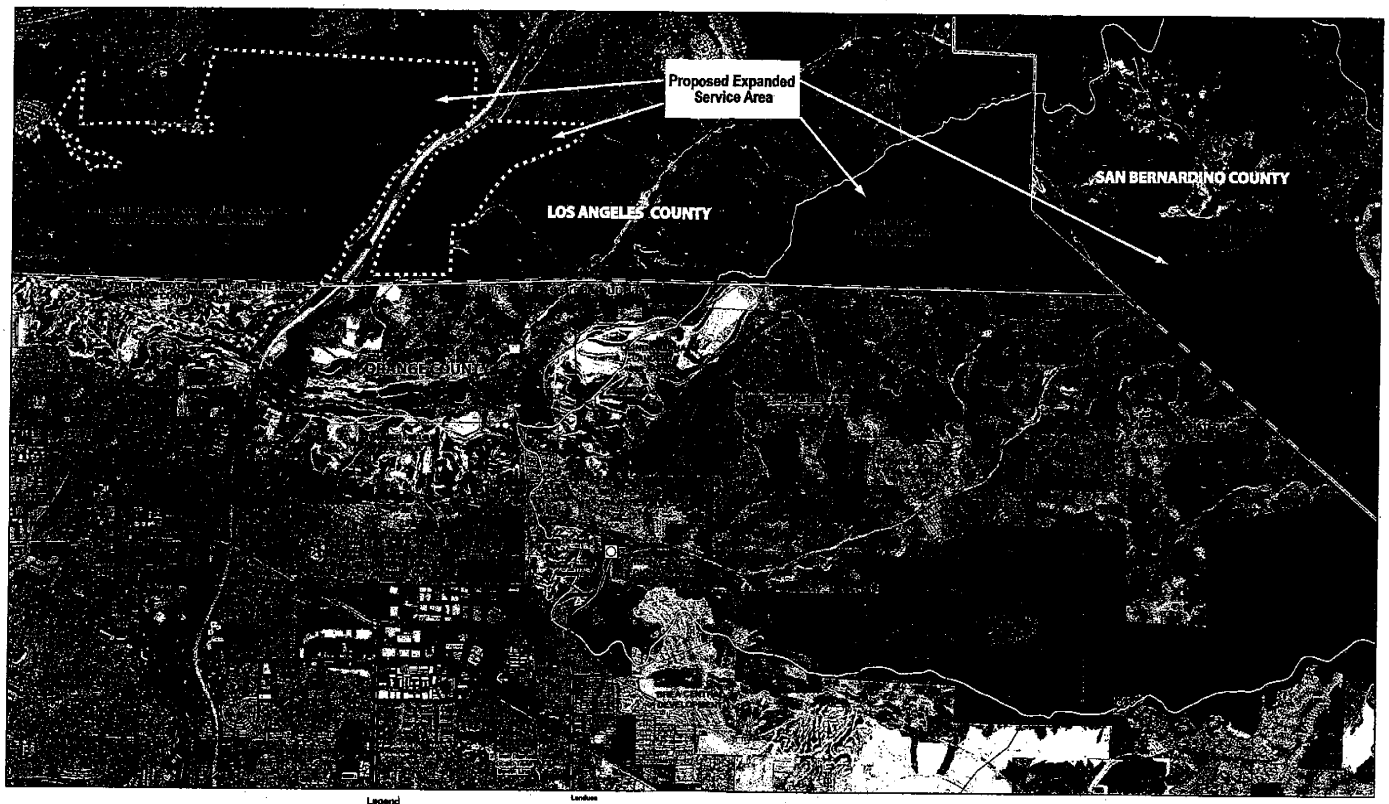
Table 1
PROJECTED WASTEWATER SERVICE DEMAND

Development Name	Land Use	Area (acres)	Dwelling Units	Wastewater Generation Factor [1] (gpd/acre)	Average Flow (MGD)	Peak Dry-Weather Flow [2] (MGD)	Peak Wet-Weather Flow [13] (MGD)
Proposed Project (within Orange County)							
Olinda Alpha Landfill [6]	Institutional	562	0	2,715	1.53	3.05	3.08
Olinda Heights [12]	Estate	284	662	727	0.21	0.41	0.42
Olinda Village [4]	Low Density Res.	96	288	1,488	0.14	0.29	0.29
Hollydale Mobile Home Park [9]	Medium Density Res.	53	134	3,451	0.18	0.37	0.37
Canyon Crest [5]	Estate (P)	368	216	727	0.27	0.54	0.54
Carbon Canyon [4]	Estate (P)	1,240	862	727	0.90	1.80	1.82
Unincorporated [3]	Estate (P)	1,470	368	727	1.07	2.14	2.16
Unincorporated [3]	Estate (P)	810	203	727	0.59	1.18	1.19
Chino Hills State Park [3]	Open Space	2,290	0	129	0.30	0.59	0.60
Brea Central [7]	Low Density Res. (P)	43	121	1,488	0.06	0.13	0.13
Aera Oil Fields [7]	Estate (P)	130	0	727	0.09	0.19	0.19
Aera Master Planned Community in Orange County [11]	Estate (P)	321	900	727	0.23	0.47	0.47
Tonner Hills [8]	Estate (P)	800	795	727	0.58	1.16	1.17
Carbon Canyon Park and Dam [9]	Open Space	124	0	129	0.02	0.03	0.03
	Totals	**8,591**	**4,549**		**6.17**	**12.34**	***12.46***
Expanded Service Area Option (includes portions of unincorporated Los Angeles County and City of Chino Hills)							
Proposed Project Totals (see above)		8,591	4,549		6.17	12.34	12.46
Chino Hills - Sleepy Hollow	Estate	80	111	727	0.06	0.12	0.12
Aera Master Planned Community in LA County [10]	Estate (P)	2,614	2,700	727	1.90	3.80	3.84
Firestone Boyscout Camp [3]	Open Space	981	0	129	0.13	0.25	0.26
	Totals	**12,266**	**7,360**		**8.25**	**16.51**	***16.67***

Notes:

P = Proposed

[1] Per Table 3-6 of 1999 OCSD Strategic Plan (Vol. 3)
[2] Assumed peaking factor = 2.0
[3] Per OCSD GIS Map
[4] Per Carbon Canyon Specific Plan 1986, Amendment 2001
[5] Per Canyon Crest EIR
[6] Confirmed by Olinda Alpha staff
[7] Per Aera information
[8] Per Tonner Hills Tentative Tract Map 16642
[9] Confirmed by park staff.
[10] Per LA County General Plan
[11] Per Orange County General Plan
[12] Per City of Brea Sewer Master Plan 2001
[13] I/I Factor of 1% per OCSD Strategic Plan Section 5.4.3.1



0 1,375 2,750 Feet

Legend

Existing Lift Station
Existing OCSD Trunk Line
OCSD Manholes
Tributary Boundary

Landuse

Estate
Low Density Residential
Medium Density Residential
Medium-High Density Residential
High Density Residential
Commercial/Office
Industrial
High Intensity Industrial/Commercial
Institutional
Open Space

Note: New pipelines connecting the expanded service areas to the OCSD trunk system will be required, and will be conceptually analyzed within the EIR.

RBF CONSULTING PLANNING | DESIGN | CONSTRUCTION

PROPOSED PROJECT/EXPANDED SERVICE AREA OPTION

CARBON CANYON DAM SEWER PIPELINE PROJECT
INITIAL STUDY/ENVIRONMENTAL CHECKLIST

EXHIBIT 6

The OCSD resolution that was adopted in 1999 regarding future areas to be served by OCSD was based on 12,500 acres of development that was projected to generate less than 2 MGD of wastewater when fully developed. The proposed Aera Master Planned Community (AMPC) development is included in this acreage. This resolution required that:

1. Water from the territory would naturally drain in to Orange County.

2. The District's member agency affected by the proposed development must be consulted, and its input considered, prior to a service agreement being presented to the District's Board.

3. A local government agency must execute a service agreement providing for local sewer service, and for payment of the District's equivalent annexation fess, connection fees, and annual property taxes, service fees and administrative charges.

4. The local land use, sewer, or water authority agrees to require connections to the District or other sewage treatment systems, and discourage the on-site disposal systems (septic tanks).

All such conditions would be met should implementation of the Expanded Service Area Option occur.

2.5 SCHEDULE

It is anticipated that construction of the proposed sewer pipeline will commence in January 2006 and is anticipated to last twelve months. The timing of the transferal of sewer service to the new facilities is yet to be determined, but would be timed in such a manner as to avoid any interruption to sewer service.

3.0 INITIAL STUDY CHECKLIST

3.1 BACKGROUND

Project Title: Carbon Canyon Dam Sewer Pipeline Project
Lead Agency Name and Address: Orange County Sanitation District 10844 Ellis Avenue Fountain Valley, CA 92728-8127
Contact Persons and Phone Numbers: Jim Herberg (714) 593-7310
Project Location: The northern extent of the proposed sewer pipeline would begin approximately 425 feet south of Carbon Canyon Road, approximately ½ mile east of the Carbon Canyon Road/South Valencia Avenue intersection. The entire project length would generally progress from the northeast to southwest through Carbon Canyon Regional Park, adjacent to Carbon Canyon Dam, and through Aera Energy property. The proposed pipeline would terminate within Rose Drive right-of-way, approximately 3/4 mile south of Carbon Canyon Road (refer to Exhibit 2, *Site Vicinity Map*, and Exhibit 3, *Aerial Map*).
Project Sponsor's Name and Address: Orange County Sanitation District 10844 Ellis Avenue Fountain Valley, CA 92728-8127
General Plan Designation: The proposed project would traverse lands that are included in the Orange County General Plan, City of Brea General Plan and the City's Carbon Canyon Specific Plan. The project segment that would run through the Carbon Canyon Regional Park would exist on land designated as Open Space within the Carbon Canyon Specific Plan. The project segment that would run through the northern portion of the Carbon Canyon Dam area would exist on land designated as Suburban Residential in the Orange County General Plan. The segment that would run from the north portion of the Carbon Canyon Dam area to the Rose Drive right-of-way would exist on land designated as Single-Family Residential in the City of Brea General Plan.
Zoning: The project area is zoned Open Space (OS) within the Carbon Canyon Specific Plan area, Suburban Residential Communities (1B) within the unincorporated Orange County area, and Single Family Residential (SF-1) within the City of Brea.

Description of the Project: (Describe the whole action involved, including but not limited to, later phases of the project, and any secondary, support or off-site features necessary for its implementation.)

The proposed project consists of the installation of an estimated 27-inch gravity sewer pipeline that would begin approximately 425 feet south of Carbon Canyon Road (within Carbon Canyon Regional Park) and would generally progress northeast to southwest for approximately 4,500 feet to its terminus within Rose Drive (refer to Exhibit 2, *Site Vicinity Map* and Exhibit 3, *Aerial Map*). The proposed alignment includes the installation of 4,500 linear feet (LF) of gravity sewer pipeline beginning near the existing OCSD pump station near Carbon Canyon Road (within Carbon Canyon Regional Park) and heading south towards the Dam. This first section of pipeline, approximately 1,500 LF, will be constructed using utilizing standard trenching methods with a depth of pipe approximately 10 feet below ground surface (bgs). Prior to reaching the dam, the pipeline is proposed to turn westward and continue for an additional 1,300 LF, passing through a small ridge (which is necessary to allow gravity flow and abandon the existing pump station). This section of pipeline will be installed using a micro-tunneling method to minimize grading. Portions of this pipeline will reach 100 feet bgs. The pipeline would then curve to the south within property owned by Aera Energy. This segment would be approximately 1,700 LF and would utilize standard trenching methods. The pipeline will terminate within Rose Drive right-of-way, where it will connect to an existing OCSD sewer pipeline. The project would utilize existing access roads for project maintenance.

Project implementation would also require the abandonment of the existing pump station and two force mains (4-inch and 6-inch in diameter) constructed in 1974. Portions of the two force mains that interfere with construction of the proposed project will be removed and the remaining open portion will be securely sealed with concrete. The underground pump station structure will be abandoned by either filling the cavity or sealing it hollow in accordance with APWA Standard Plan 381-0. Abandonment would not require excavation of soil or removal of vegetation beyond what is proposed as part of the project.

The proposed project would provide sewer service to portions of the City of Brea and unincorporated County of Orange. OCSD is also considering a project option that would expand the project's tributary boundary to serve portions of unincorporated Los Angeles County and the City of Chino Hills (in addition to the service area of the proposed project). New pipelines connecting the expanded service areas (within unincorporated Los Angeles County and the City of Chino Hills) to the OCSD trunk system will be required, and will be conceptually analyzed within the EIR.

Surrounding Land Uses and Setting:

Surrounding land uses include: Carbon Canyon Regional Park, Carbon Canyon Dam, and a flood control basin to the east; open space, oil manufacturing, and interim agricultural uses to the west; Carbon Canyon Road and residential uses to the north; and agricultural and residential uses to the south. Elevations on-site range from approximately 525 feet above mean sea level (msl) at the northern portion of the site to approximately 420 feet above msl at the southern terminus. Vegetation types along the proposed pipeline alignment consist primarily of ornamental plants, annual grassland, irrigated row/field crops, and a small amount of riparian, chaparral, and coastal sage scrub.

Other public agencies whose approval is required (e.g., permits, financing approval or participation agreement).

- United States Army Corps of Engineers – Right of Entry Permit
- United States Army Corps of Engineers – Section 404 Permit
- Santa Ana Regional Water Quality Control Board - National Pollution Discharge Elimination System (NPDES) Permit
- Santa Ana Regional Water Quality Control Board – Section 401 Certification
- California Department of Fish and Game – 1601 Streambed Alteration Agreement

3.2 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" or "Less Than Significant With Mitigation Incorporation," as indicated by the checklist on the following pages.

X	Aesthetics	X	Land Use and Planning
	Agriculture Resources		Mineral Resources
X	Air Quality	X	Noise
X	Biological Resources	X	Population and Housing
X	Cultural Resources		Public Services
X	Geology and Soils		Recreation
	Hazards & Hazardous Materials	X	Transportation/Traffic
X	Hydrology & Water Quality		Utilities & Service Systems
X	Mandatory Findings of Significance		

3.3 EVALUATION OF ENVIRONMENTAL IMPACTS

This section analyzes the potential environmental impacts associated with the proposed project. The issue areas evaluated in this Initial Study include:

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

The environmental analysis in this section is patterned after the Initial Study Checklist recommended by the CEQA Guidelines. For the preliminary environmental assessment undertaken as part of this Initial Study's preparation, a determination that there is a potential for significant effects indicates the need to more fully analyze the project's impacts and to identify mitigation, as part of the project's Environmental Impact Report.

For the evaluation of potential impacts, the questions in the Initial Study Checklist are stated and an answer is provided according to the analysis undertaken as part of the Initial Study. The analysis considers the long-term, direct, indirect, and cumulative impacts of the project. As noted earlier, this Initial Study is based upon review of available information, and should be considered as a preliminary guide to the intended scope and content of the EIR. To each question, there are four possible responses:

- **No Impact.** The project will not have any measurable environmental impact on the environment.

- **Less Than Significant Impact.** The project will have the potential for impacting the environment, although this impact will be below established thresholds that are considered to be significant.

- **Less Than Significant with Mitigation Incorporation.** The project will have the potential to generate impacts which may be considered as a significant effect on the environment, although mitigation measures or changes to the development's physical or operational characteristics can reduce these impacts to levels that are less than significant.

- **Potentially Significant Impact.** The project will have impacts that are considered significant, and additional analysis is required to identify mitigation measures that could reduce these impacts to less than significant levels.