Appendix D

Notice of Preparation and Initial Study Supporting Information

Appendix D- Notice of Preparation and Initial Study Supporting Information

Section/Table	<u> Page #</u>
Notice of Preparation	D-1
Initial Study	D-11
California Department of Fish and Wildlife Comments	D-68
California Department of Transportation Comments	D-79
Los Angeles County Metropolitan Transportation Authority Comments	D-80
Native American Heritage Commission Comments	D-82
South Coast Air Quality Management District Comments	D-87
Location of Comment Discussion in DEIR	D-90

NOTICE OF PREPARATION

TO: State Clearinghouse FROM: Max Castillo Governor's Office of Planning and Research City of Carson

1400 Tenth Street Community Development Sacramento, CA 95812 701 East Carson Street Carson, CA 90745

SUBJECT: Notice of Preparation of a Draft focused Environmental Impact Report

PROJECT NAME: Carson to Paramount Hydrogen Gas Pipeline

PROJECT LOCATION: The Project route would initiate in the City of Carson at an existing Air Products and Chemicals, Inc. hydrogen facility and would terminate in the City of Paramount, California at the World Energy Bio-Fuels Facility. The proposed pipeline would traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower.

PROJECT CASE #: CUP 1089-18

PROJECT APPLICANT: Air Products and Chemicals, Inc.

The City of Carson will be the Lead Agency and will prepare a focused Environmental Impact Report for the project identified above. We need to know the views of your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project.

The project description, location and the potential environmental effects are contained in the attached materials.

A Scoping Meeting has not been scheduled for this Project at this time due to the COVID-19 pandemic. For the convenience of property owners and residents in the project area, comments can be provided via email as detailed below. The Scoping comments should be limited to understanding the proposed project and associated environmental concerns, including potential mitigation measures and possible alternatives to the project. The attached project overview and scope of analysis identified by staff will be used as a starting point for discussion during the scoping meeting, but other environmental concerns may be raised by the public at this meeting.

For current project information, the following page has been established on the City's website: http://ci.carson.ca.us/CommunityDevelopment/HydrogenGas.aspx

Due to the time limits mandated by State law, your response must be received at the earliest possible date, but not later than 30 days after receipt of this notice.

Please send your response to Max Castillo, Assistant Planner, at the address shown above.

Date: May 21, 2020 Planner: Max Castillo MCastillo@carson.ca.us

Division: Community Development

Telephone: (310) 952-1700 x1317

cc: Clerk of the Board (please post for 30 days)

Encl: Project Overview and Scope of Analysis

PROJECT OVERVIEW AND SCOPE OF ANALYSIS

A. Applicant

Seth Gottlund, LA Basin Hydrogen Asset Manager Air Products and Chemicals, Inc. 4000 MacArthur Boulevard, Suite 420, East Tower Newport Beach, CA 92660

B. Project Location, Current Use, and Surrounding Use

Air Products proposes to utilize an existing 11.5-mile-long series of pipelines plus construct a new 0.5-mile pipeline segment to connect from the Air Products' existing hydrogen facility in the City of Carson to the World Energy Bio-fuels Facility in the City of Paramount, California. The existing 11.5-mile pipeline crosses the cities of Carson, Los Angeles, Long Beach, Lakewood, Bellflower, and Paramount in addition to an unincorporated part of the County of Los Angeles and land owned or controlled by the Port of Los Angeles and the Joint Ports Authority. The 0.5-mile of new pipeline would be located entirely within the City of Carson. Refer to Figure 1-1 for the Project Location.

The proposed Project route would initiate in the City of Carson and would terminate in the City of Paramount. The site of the proposed Project is located within an area of industrial, commercial, and residential land uses. The Project alignment is predominantly within an existing pipeline corridor, and the Project area is generally level and has been modified by urban development.

Most construction activities within the City of Carson would take place on private land either within or near the Air Products Carson Hydrogen Facility. This area is highly industrialized and much of the new pipeline segment would border the western bank of the Dominguez Channel. Segment 2 of the pipeline is surrounded by industrial land as it follows the Union Pacific Railroad within the City of Los Angeles. Segment 3 follows Alameda Street (Highway 47) and is surrounded by single-family residences to the east. Segment 4 follows East Del Amo Boulevard and is surrounded by a residential area to the east as well as land used for industrial purposes. Segment 5 crosses into an industrial area of an unincorporated part of Los Angeles County before crossing the Los Angeles River and under the 710 Freeway. After crossing into the City of Long Beach, the pipeline is surrounded by residential areas. Segment 6 and Segment 7 are located within a mixed-use area within the City of Long Beach; there are residential, commercial, and industrial areas adjacent to the pipeline route. Once Segment 8 crosses into the City of Bellflower, the pipeline is bordered by a residential area. Segment 9 crosses into the City of Paramount with residential and commercial surroundings. The final segment, Segment 10, also extends along residential and commercial areas before reaching an industrial zone at the World Energy Bio-fuels Facility.



C: Request/Description

Overview of the Project: The Carson to Paramount Hydrogen Gas Pipeline Project would be constructed and operated by Air Products and Chemicals, Inc. (Air Products). The proposed Project would use local union labor, including ARB, Inc., to construct 0.5 miles of new pipeline within the City of Carson and connect this newly constructed segment with 11.5 miles of existing pipeline, expanding Air Products' existing pipeline network, and enabling it to provide means of hydrogen distribution from its existing hydrogen production facilities located in Wilmington and Carson to its customers. Air Products proposes to utilize this pipeline route to connect Air Products with a new customer in the City of Paramount to support the renewable bio-fuel production. Two new pipe connections would be required to connect segments of existing pipelines together along the 11.5-mile length. Air Products would also remove or replace existing manual valves and add an automatic shut-off valve (ASV) at one location along the pipeline route. The Project would eliminate the need for 5-7 tanker trucks that currently deliver hydrogen thereby reducing local traffic and improving air quality. The Project would employ approximately 60 contractors for construction (local union workers when feasible), one new full-time job, and would increase City of Carson revenue (utility taxes, franchise fees, etc.) by approximately \$60,000 per year. The Project route would initiate in the City of Carson and terminate in the City of Paramount. The Project route would traverse small portions of the City of Los Angeles and County of Los Angeles, as well as portions of the cities of Long Beach, Lakewood, and Bellflower.

World Energy uses hydrogen to produce renewable bio-fuels (diesel and jet) for the transportation market. Refineries have had to increase the amount of hydrogen they use to produce gasoline and other refinery products as demand increases due to the need to produce reformulated fuels. Most of the refiners have chosen to meet this increased demand for hydrogen by purchasing hydrogen gas from a third party such as APCI, who can produce the hydrogen more efficiently. The refineries use hydrogen to produce "clean fuels." Hydrogen is used by the refineries to reduce the level of sulfur and other undesired pollutants in various types of transportation fuels such as gasoline and diesel fuel. The pipeline network would increase the overall reliability of the hydrogen supply, thereby allowing the refineries to maximize production of clean fuels.

Construction and Operation: The proposed construction would begin as soon as practical after all required permits have been issued, estimated to be in calendar year 2020 depending on permit issuance. Approximately five months would be required to complete the construction effort. There will be two active construction areas, from the Air Products Carson Facility to Sepulveda Boulevard to construct 0.5 miles of new pipeline to connect to existing pipeline, and on Paramount Boulevard in Long Beach to connect two existing pipelines. The pipeline system would be built and operated to meet or exceed government safety standards as outlined in 49 Code of Federal Regulations, Part 192 "Transportation of Natural and Other Gas by Pipeline". The pipeline would operate at a pressure of 260 pounds per square inch gauge (psig) but would be designed for a Maximum Allowable Operating Pressure (MAOP) of 300 psig. The anticipated flow rate for the pipeline would be approximately four million standard cubic feet per day (4 MMSCFD). One new pipe connection would be required to connect two segments of existing pipelines together. Air Products would also add and replace existing valves along the pipeline route. Ten manual valves

would be removed and two automatic shutoff valves (ASV) would be installed. One ASV would be installed at the Dominguez pumping station and the other at an existing valve box along South Street near Orizaba Avenue; the latter would tie into PPC Line 12 crude 244. In addition, two new actuated valves would be installed at both ends of the pipeline within the Carson and Paramount facilities. The proposed pipeline would utilize existing pipe bridges to cross the three bodies of water intersected by the route: the Dominguez Channel, Compton Creek, and the Los Angeles River.

<u>Safety and Security:</u> To continue compliance with existing regulations, appropriate safety programs would be updated and/or developed and implemented. Air Products personnel are trained in the Incident Command System as well gas release emergency response procedures, and community first responders would be trained in accordance with an existing Emergency Response Plan. The pipeline would be continuously monitored from a control room to detect any leaks and changes in pressure. The Supervisory Control and Data Acquisition (SCADA) system operators in the Carson/Wilmington and/or CSC (Houston) Control room would be able to automatically actuate the valves in the event of a leak or change in pressure. The pipeline would be routinely patrolled and inspected quarterly at all insulating flanges, valve stations, above-ground piping and cased crossings, in addition to ground level patrol and presence on the pipeline right-of-way. The Carson Facility and the World Energy Facility would have manual block valves at each terminus of the pipeline. The Carson Facility would also be equipped with an automatic de-inventory vent.

D. Required Approvals

Table 1 presents the anticipated permits and approvals required for construction and operation of the proposed Project.

Table 1. List of Anticipated Permits and Approvals

Agency	Permit/Approval	Regulated Activity	Authority				
	State of California Agencies						
Regional Water Quality Control Board Storm Water Pollution Prevention Plan Approval		Storm water discharges during Project construction	Clean Water Act Porter-Cologne Water Quality Act				
Local Agencies							
City of Carson	Conditional Use Permit, Construction Permit	New use, environmental review, and construction permit	City Code CEQA				
City of Carson Public Encroachment Permit, Works Dept. Addition to Pipeline Franchise Agreement		Work within public right-of-way	City Code				
Los Angeles County Flood Control District	Temporary Use and Access	Modifications to existing pipe bridge crossing the Los Angeles River	County Code				

Port of Los Angeles	Amendment to Franchise Agreement	Change in pipeline use	City Code	
Joint Ports	Amendment to Master Joint Revocable Permit	Change in pipeline use	Joint Powers Authority Charter	
City of Long Beach	Amendment to Franchise Agreement/ Construction Permit/ Encroachment Permit	Modification to existing Franchise Agreement, Work within public rights-of-way	City Code	
City of Lakewood	Construction Permit	Piping Modification	City Code	
City of Paramount	Construction Permit	Pipeline Tie-In	City Code	
South Coast Air Quality Management District	Authority to Construct/Permit to Operate	Emissions associated with construction may require permits.	Clean Air Act	

Notes:

CEQA = California Environmental Quality Act

Ε. **Project Background**

The purpose of the EIR is to provide information about potential significant physical environmental impacts of the Carson to Paramount Hydrogen Gas Pipeline Project, to identify possible ways to minimize those significant impacts, and to describe and analyze possible alternatives to the proposed project if potential significant impacts are identified. Preparation of an NOP and EIR does not indicate a decision by the City to approve or disapprove the project. However, prior to making any such decision, the City must review and consider the information contained in the EIR.

F. **Issue Areas**

The environmental analysis for the proposed project will focus on Hazards and Hazardous Materials, but will also include discussion on the following issue areas that were found to have significant but mitigable impacts as part of the Initial Study: Air Quality, Cultural Resources, Greenhouse Gas Emissions, and Land Use & Planning. In addition, other issue areas will be discussed along with statutorily required sections and discussion of project alternatives and cumulative impacts. Some refinement to the issues may be required based on comments received during the NOP scoping process. The following section describes each of the technical Chapters of the EIR in further detail. Each specified impact area warrants an objective and systematic discussion that identifies the baseline environmental setting; thresholds of significance; impacts and their severity; and, where the impact is potentially significant, the mitigation measures to avoid, reduce or eliminate the impact.

Air Quality

The Air Quality chapter of the EIR will summarize the regional air quality setting, including climate and topography, existing ambient air quality, regulatory setting, and presence of any sensitive receptors near the Project site. The analysis will include potential impacts from criteria air pollutants, toxic-air contaminants, odor-causing compounds, and consistency of the Project with the regional air quality management plan. Toxic emissions and impacts will be assessed using California Air Resources Board (CARB) models and methods and submittals to the South Coast Air Quality Management District (SCAQMD) associated with the Project as appropriate.

The Applicant has prepared an Air Quality analysis and associated materials for the proposed Project. The results of the analysis indicate that the proposed Project is not expected to exceed the SCAQMD Significance Thresholds for construction emissions with the incorporation of mitigation measures. Normal operation of the pipeline is not expected to produce any criteria pollutants; minimal emissions associated with operation of the proposed pipeline would be due to periodic inspections as well as associated vehicle travel. Mitigation measures will be developed in accordance with the current SCAQMD Rules and Regulations, Clean Air Plan, and CEQA Handbook. A mitigation monitoring plan will be developed, and several best management practices will be followed during construction to reduce potential impacts to air quality. Analysis of cumulative impacts will consider future activities at the affected facilities and other projects in the area.

Cultural Resources

The Cultural Resources section of the EIR will discuss the potential impacts to historical, cultural, and archaeological resources, including human remains and historical buildings, from implementation of the proposed Project. This section will also contain a description of the region's historical and cultural ethnography. A records search from the South Central Coastal Information Center of the California Historical Resources Information System (SCCIC-CHRIS) did not identify any historical or archaeological resources along the 0.5-mile proposed pipeline in the City of Carson, nor did an intensive archaeological survey of the same site. However, four archaeological sites are recorded within 0.25-mile of the Project site. One site, CA-LAN-2682, is a protohistoric habitation site and cemetery approximately 618 feet west of the western end of the Project site. All visible human remains were removed in 1998; however, future excavation may expose additional human remains in any direction from the known burials.

The proposed Project has undergone AB 52 tribal consultation and a series of mitigation measures have been requested as part of that consultation effort. Mitigation measures will be included in this section as appropriate to reduce any potential significant impacts to buried cultural resources to a less than significant level.

Greenhouse Gas Emissions

The Greenhouse Gas Emissions chapter of the EIR will assess the potential impacts from emissions against the local agency Significance Thresholds (SCAQMD). EMFAC or CalEEMod will be utilized for estimated GHG emissions from vehicles and the CARB factors will be utilized for non-

CO₂ GHG pollutants. The Applicant's Greenhouse Gas Emissions estimates within the Applicant's Air Quality Study indicate that emissions associated with construction of the proposed pipeline are not expected to exceed the SCAQMD Significance Thresholds for GHG. There are minimal emissions associated with normal operation of the pipeline, which would involve periodic inspections and associated vehicle travel. Construction and operation of the proposed pipeline would not conflict with any plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases, such as Assembly Bill 32 or the South Bay Cities Council of Governments Climate Action Plan.

Hazardous Materials/Risk of Upset

The main objectives of the Hazardous Materials/Risk of Upset analysis are to disclose the following to the public and decision-makers: the potential for serious accidents, exposure to the public, the safety and environmental risks of spill events, and the mitigation measures that could reduce these risks. This analysis will consider the potential for risks using existing available information and Risk of Upset studies provided by the Applicant. Currently, the City of Carson does not have specific risk-based thresholds to determine the significance of an accidental hazardous material release and subsequent impact; therefore, the analysis will use the generally accepted standards currently utilized by the County of Los Angeles, the State of California, and originally developed by the County of Santa Barbara. These thresholds focus on involuntary public exposure to acute risks (i.e., serious injury and fatality) that stem from certain types of activities with significant quantities of hazardous materials. The analysis will focus on evaluating the risk associated with the proposed transportation of hydrogen through the proposed pipeline system.

The results of the Applicant's individual risk analysis indicate that the individual risks would be less than significant. However, there is some question as to the potential impacts associated with societal risk levels, and, based on the results of the risk analysis, the high density residential areas through which the pipeline would pass, the length of the pipeline, and the number of schools located along the route, the societal risk would most likely present significant risk levels and would therefore be potentially significant. Mitigation measures will be proposed, where possible, to reduce any potentially significant impacts to a level of insignificance.

Land Use and Planning

The Land Use and Planning chapter of the EIR will evaluate the consistency of the proposed Project with governing land use plans and policies, as well as the Project's compatibility with surrounding land uses, both existing and proposed. The proposed pipeline route would primarily extend within established utility routes utilizing private corridors and public roadways, and all areas of construction are zoned for industrial use. The proposed Project would be consistent with the zoning and existing land uses in the area. Construction and operation of the pipeline would not conflict with general plan designation, zoning, or conservation plans.

Project Alternatives

Alternatives will be designed to avoid and/or substantially reduce any impacts that cannot otherwise be mitigated to a level below significance. At this time, Hazardous Materials/Risk of

Upset is considered the primary issue area that may need to be addressed. This analysis will consider the No Project Alternative, and other alternatives found to be appropriate through the CEQA process. The alternatives discussion will include an analysis of environmental impacts of each alternative considered, along with a comparative analysis (matrix) to distinguish the relative effects of each alternative and its relationship to Project objectives. The alternatives analysis will also identify the "environmentally superior alternative" from among the alternatives.

Air Products and Chemicals, Inc. Carson to Paramount Hydrogen Gas Pipeline

Initial Study

Submitted to:

City of Carson Community Development Department, Planning Division 701 East Carson Street Carson, California 90745

Prepared by:

MRS Environmental 1306 Santa Barbara St Santa Barbara, CA 93101

TABLE OF CONTENTS

1	INTRO	DDUCTION	1
	1.1	Project Overview	
	1.2	California Environmental Quality Act Compliance	
	1.3	Preparation and Processing of this Initial Study	
	1.4	Initial Study Checklist	5
	1.5	Point of Contact	2
0	DDO		
2		ECT DESCRIPTION	
	2.1	Project Location	
	2.2	Environmental Setting	
	2.3	Proposed Project	
	2.4	Construction and Phasing	
	2.5	Project Approvals	.14
3	INITIA	L STUDY CHECKLIST	16
		mental Factors Potentially Affected	
		ination	
		tion of Environmental Impacts	
	3.1	Aesthetics	
	3.2	Agriculture and Forestry Resources	
	3.3	Air Quality	
	3.4	Biological Resources	
	3.5	Cultural Resources	
	3.6	Energy	
	3.7	Geology and Soils	
	3.8	Greenhouse Gas Emissions	
	3.9	Hazards and Hazardous Materials	
	3.10	Hydrology and Water Quality	
	3.11	Land Use and Planning	
	3.12	Mineral Resources	
	3.13	Noise	
	3.14	Population and Housing	
	3.15	Public Services	
	3.16	Recreation	
	3.17	Transportation	
	3.18	Tribal Cultural Resources	
	3.19	Utilities and Service Systems	
	3.20	Wildfire	
	3.21	Mandatory Findings of Significance	52
	0.21	mandatory i maings or organicanoc	JZ
LIST	F TAB	LES	
TABLE	1: PIP	E SEGMENT SUMMARIES	. 9
TABLE	2: LIS	T OF ANTICIPATED PERMITS AND APPROVALS	14

TABLE 3: PROJECT CONSTRUCTION E	MISSIONS (WITH MITIGATION)31
LIST OF FIGURES	
FIGURE 1: PIPELINE ROUTE OVERVIE	N4
	5
FIGURE 3: PIPELINE ROUTE MAP 2	6
FIGURE 4: PIPELINE ROUTE MAP 3	7

1 INTRODUCTION

1.1 Project Overview

The Carson to Paramount Hydrogen Gas Pipeline Project will be constructed and operated by Air Products and Chemicals, Inc. (Air Products). Air Products proposes to utilize an existing 11.5-mile-long series of pipelines plus construct a new 0.5-mile pipeline segment. The pipelines would extend from the Air Products' existing hydrogen facility in the City of Carson to the World Energy Bio-fuels Facility in the City of Paramount, California. The 0.5 mile of new pipeline would connect to 11.5 miles of existing pipeline owned by Paramount Pipeline Company, LLC (PPC), a subsidiary of World Energy. The existing 11.5-mile pipeline crosses the cities of Carson, Los Angeles, Long Beach, Lakewood, Bellflower, and Paramount in addition to an unincorporated part of the County of Los Angeles and land owned or controlled by the Port of Los Angeles and the Joint Ports Authority.

The project is subject to analysis pursuant to the California Environmental Quality Act (CEQA). In accordance with CEQA Guidelines Section 15367, the City is the lead agency with principal responsibility for considering the project for approval (14 CCR 15000 et seq.).

1.2 California Environmental Quality Act Compliance

CEQA, a statewide environmental law contained in California Public Resources Code (PRC) Sections 21000–21177, applies to most public agency decisions to carry out, authorize, or approve actions that have the potential to adversely affect the environment (PRC Section 21000 et seq.). The overarching goal of CEQA is to protect the physical environment. To achieve that goal, CEQA requires that public agencies identify the environmental consequences of their discretionary actions and consider alternatives and mitigation measures that could avoid or reduce significant adverse impacts when avoidance or reduction is feasible. It also gives other public agencies and the public an opportunity to comment on the project. If significant adverse impacts cannot be avoided, reduced, or mitigated to below a level of significance, the public agency is required to prepare an environmental impact report (EIR) and balance the project's environmental concerns with other goals and benefits in a statement of overriding considerations.

This initial study (IS) has been prepared by the City as the lead agency, in accordance with the CEQA Guidelines, to evaluate potential environmental effects and to determine whether an environmental impact report (EIR), a negative declaration, or a mitigated negative declaration (MND) should be prepared for the proposed project

1.3 Preparation and Processing of this Initial Study

The City's Community Development Department, Planning Division, directed and supervised preparation of this Initial Study (IS). Although prepared with assistance from the consulting firm MRS Environmental, Inc., the content contained, and the conclusions drawn within this IS reflect the independent judgment of the City.

1.4 Initial Study Checklist

MRS Environmental, Inc., under the City's guidance, prepared the project's Environmental Checklist (i.e., Initial Study) per CEQA Guidelines Sections 15063–15065. The CEQA Guidelines include a suggested checklist to indicate whether a project would have an adverse impact on the environment. The checklist is found in Section 3, Initial Study, of this document. Following the Environmental Checklist, Sections 3.1 through 3.21 include an explanation and discussion of each significance determination made in the checklist for the project.

For this Initial Study, one of the following four responses is possible for each environmental issue area:

- 1. Potentially Significant Impact
- 2. Less-Than-Significant Impact with Mitigation Incorporated
- 3. Less-Than-Significant Impact
- 4. No Impact

The checklist and accompanying explanation of checklist responses provide the information and analysis necessary to assess relative environmental impacts of the project. In doing so, the City will determine the extent of additional environmental review, if any, for the project.

1.5 Point of Contact

The City of Carson is the lead agency for this environmental document. Any questions about preparation of this IS, its assumptions, or its conclusions should be referred to the following:

Name: Max Castillo
City of Carson
Community Development Department, Planning Division
701 East Carson Street
Carson, California 90745
Phone: (310) 952-1700 x1317
Email: mcastillo@carson.ca.us

The point of contact for the applicant is as follows:

Eric Guter, General Manager – HyCO Western Region Air Products and Chemicals, Inc. 4000 MacArthur Boulevard Suite 420, East Tower Newport Beach, CA 92660 Phone: 949.474.1860 x 10 (office)

2 PROJECT DESCRIPTION

2.1 Project Location

Air Products proposes to utilize an existing 11.5-mile-long series of pipelines plus construct a new 0.5-mile pipeline segment to connect from the Air Products' existing hydrogen facility in the City of Carson to the World Energy Bio-fuels Facility in the City of Paramount, California. The existing 11.5-mile pipeline crosses the cities of Carson, Los Angeles, Long Beach, Lakewood, Bellflower, and Paramount in addition to an unincorporated part of the County of Los Angeles and land owned or controlled by the Port of Los Angeles and the Joint Ports Authority. The 0.5-mile of new pipeline would be located entirely within the City of Carson.

2.2 Environmental Setting

Existing Project Site

The proposed Project would consist of a pipeline route from the Air Products' hydrogen facility in the City of Carson to the World Energy Bio-Fuels Facility in the City of Paramount. The Project area is generally level and has been modified by urban development. The site of the proposed Project is located within an area of industrial, commercial, and residential land uses. The portion of the Project site that would experience the majority of construction activities currently exists as a developed industrial facility. The Project alignment is predominantly within an existing pipeline corridor; the pipeline would traverse through the cities of Carson, Los Angeles, Long Beach, Lakewood, Bellflower, and Paramount as well as through a portion of Los Angeles County.

Sensitive Receptors

Sensitive receptors are locations in which the occupants are more susceptible to the effects of noise and pollutants. The City of Carson recognizes residences, public and private school/preschool classrooms, churches, hospitals, and elderly care facilities as sensitive receptors. Construction activity has the potential to expose sensitive receptors to dust and pollutants, especially in areas near schools or residential property. However, all areas of construction for the proposed Project are zoned for industrial use, and construction would be short-term. The construction period would be approximately 20 weeks for the 0.5-mile of new pipeline construction and Carson Tie-In, while construction for the Paramount Facility Connection as well as the ASV sites and pipeline connections at Dominguez Station and South Street is expected to occur for approximately 8 weeks. In addition, the nearest sensitive receptor is 0.47 miles from the area with the most intensive construction activity, and there are no sensitive receptors within 500 feet of any construction activity.

Although no sensitive receptors are in the vicinity of construction activity, there are six schools adjacent to the pipeline alignment and one school located 800 feet from the pipeline route. Along the pipeline route there are three elementary schools, two middle schools, and two high schools. The schools are associated with Long Beach Unified School District and Paramount Unified School District and are located in the cities of Lakewood, Long Beach, and Paramount.

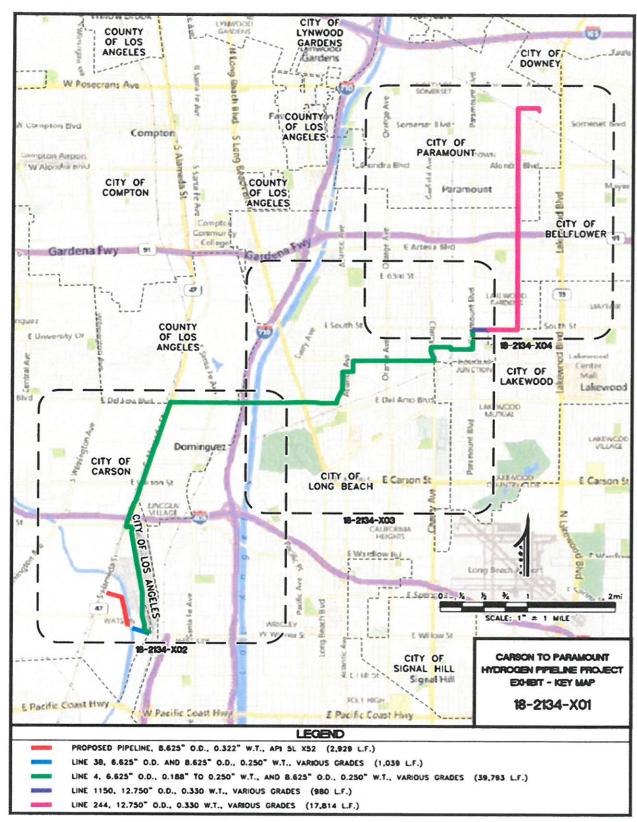


Figure 1: Pipeline Route Overview



Figure 2: Pipeline Route Map 1



Figure 3: Pipeline Route Map 2

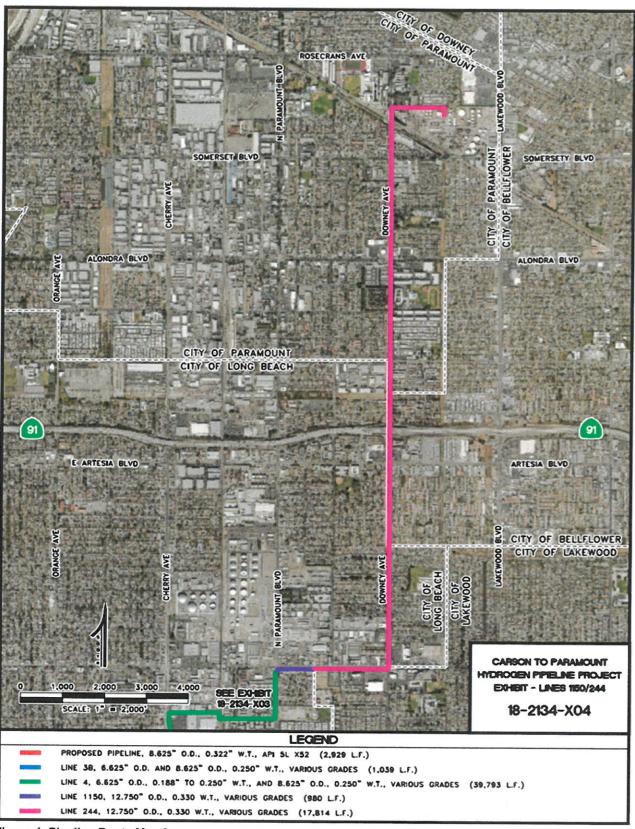


Figure 4: Pipeline Route Map 3

Surrounding Land Uses

The proposed pipeline would begin in the City of Carson and end in the City of Paramount; it would traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower. The Project area is located within industrial, commercial, and residential land uses. Most construction activities within the City of Carson would take place on private land either within or near the Air Products Carson Hydrogen Facility. This area is highly industrialized and much of the new pipeline segment would border the western bank of the Dominguez Channel. Segment 2 of the pipeline is surrounded by industrial land as it follows the Union Pacific Railroad within the City of Los Angeles. Segment 3 follows Alameda Street (Highway 47) and is surrounded by single-family residences to the east. Segment 4 follows East Del Amo Boulevard and is surrounded by a residential area to the east as well as land used for industrial purposes. Segment 5 crosses into an industrial area of an unincorporated part of Los Angeles County before crossing the Los Angeles River and under the 710 Freeway. After crossing into the City of Long Beach, the pipeline is surrounded by residential areas. Segment 6 and Segment 7 are located within a mixed-use area within the City of Long Beach; there are residential, commercial, and industrial areas adjacent to the pipeline route. Once Segment 8 crosses into the City of Bellflower, the pipeline is bordered by a residential area. Segment 9 crosses into the City of Paramount with residential and commercial areas surrounding the pipeline. The final segment, Segment 10, also extends along residential and commercial areas until it reaches an industrial zone at the World Energy Bio-fuels Facility.

2.3 Proposed Project

World Energy uses hydrogen to produce renewable bio-fuels (diesel and jet) for the transportation market. Refineries have had to increase the amount of hydrogen they use to produce gasoline and other refinery products as demand increases due to the need to produce reformulated fuels. Most of the refiners have chosen to meet this increased demand for hydrogen by purchasing hydrogen gas from a third party such as APCI, who can produce the hydrogen more efficiently. The refineries use hydrogen to produce "clean fuels." Hydrogen is used by the refineries to reduce the level of sulfur and other undesired pollutants in various types of transportation fuels such as gasoline and diesel fuel. The pipeline network would increase the overall reliability of the hydrogen supply, thereby allowing the refineries to maximize production of clean fuels. The pipeline would reduce the number of trucks currently used (approximately 4-5 trucks per day) to transport liquid hydrogen to the World Energy Facility as part of the bio-fuel refinement process.

The pipeline system would be built and operated to meet or exceed government safety standards as outlined in 49 Code of Federal Regulations, Part 192 "Transportation of Natural and Other Gas by Pipeline". The pipeline would operate at a pressure of 260 pounds per square inch gauge (psig) but would be designed for a Maximum Allowable Operating Pressure (MAOP) of 300 psig. The anticipated flow rate for the pipeline would be approximately four million standard cubic feet per day (4 MMSCFD). One new pipe connection would be required to connect two segments of existing pipelines together. Air Products would also add and replace existing valves along the pipeline route. Ten manual valves would be removed and two automatic shutoff valves (ASV) would be installed. One ASV would be installed at the Dominguez pumping station and the other at an existing valve box along South Street near Orizaba Avenue; the latter would tie into PPC Line 12 crude 244. In addition, two new actuated valves would be installed at both ends of the pipeline within the Carson and

Paramount facilities. The proposed pipeline would utilize existing pipe bridges to cross the three bodies of water intersected by the route: the Dominguez Channel, Compton Creek, and the Los Angeles River.

The table below summarizes five segments of the proposed pipeline. Detailed information regarding pipe age, pipe grade, external corrosion coatings, and other specifics are not available for the existing pipeline segments.

Table 1: Pipe Segment Summaries

Segment Description	Pipe Outside Diameter	Pipe Wall Thickness	Pipe Grade	Segment Length
New Air Products Carson Plant Site to Sepulveda Boulevard	8.625"	0.322"	API 5L X52	2,929
Existing Line 3B from Sepulveda Boulevard to Intermodal Terminal	6.625" and 8.625"	0.250"	Varies	1,039
Existing Line 4 from Intermodal Terminal to North Paramount Boulevard/South Street	6.625" and 8.625"	0.188" (6") 0.250" (8")	Varies (Portion API 5L X42)	39,792
Existing Line 1150 from North Paramount Boulevard to South Street Vault	12.750"	0.33"	Varies	980
Existing Line 244 from South Street Vault to World Energy (Paramount) Refinery	12.750"	0.33"	Varies	11,813

The proposed pipeline route would primarily extend within established utility routes utilizing private corridors and public roadways. The pipeline route would consist of the following ten segments from Air Products' Carson Facility to the World Energy Bio-fuels Facility in Paramount.

- Segment 1 would be the 0.5-mile section of new pipe to be constructed underground from the Carson
 facility to join with existing PPC Line 3B on Sepulveda boulevard which then crosses the Dominguez
 Channel. Construction activities would be either trenching or horizontal boring during the limited
 roadway construction.
- Segment 2 would be in an industrial area utilizing the existing PPC Line 4 along the Union Pacific Railroad.
- Segment 3 would begin under 223rd street and would continue northbound on Alameda Street utilizing the existing PPC Line 4. An ASV would be installed at the Dominguez pumping station. Segment 3's surroundings to the east are single-family residences.
- Segment 4 would continue with PPC Line 4 on Alameda Street before turning east onto East Del Amo Boulevard. Segment 4's eastern surroundings include a residential area as well as industrial land uses.
- Segment 5 would continue with PPC Line 4 on East Del Amo Boulevard, crossing over from Carson
 into an unincorporated part of Los Angeles County. Segment 5 would cross the Los Angeles River and
 proceed under the 710 Freeway. The first half of Segment 5 has industrial surroundings, while the
 second half passes through a residential area.

Air Products Carson to Paramount Hydrogen Pipeline Initial Study

- Segment 6 would continue utilizing PPC Line 4 through a residential area along Linden Avenue before turning east onto East Market Street. Segment 6 would be in a residential, commercial, and industrial mixed-use area.
- Segment 7 would begin in an industrial part of Long Beach and would require street level construction on an alleyway on North Paramount Boulevard to tie into PPC Line 12 Crude 1150. A manual valve would be replaced with an ASV at an existing vault on South Street near Orizaba Avenue and would tie into PPC Line 12 Crude 244. Segment 7 would begin in an industrial and commercial area; it would then extend into a residential and commercial area as it continues on South Street before turning North on Downey Avenue.
- Segment 8 would continue with PPC Line 12 Crude 244 bordering a residential area along Downey Avenue as the pipeline route crosses into the City of Bellflower.
- Segment 9 would cross from the City of Bellflower into the City of Paramount as it extends along residential and commercial areas on Downey Avenue.
- Segment 10 would continue along Downey Avenue in residential and commercial areas until reaching Pacific Electric Drive, after which the pipeline turns east on an unnamed road to tie-in at the World Energy Bio-fuels Facility.

Proposed Pipeline Safety Measures

The pipeline project has numerous proposed safety measures. The pipeline would be monitored from a control room 24 hours a day, 365 days a year in order to detect any leaks and changes in pressure. The pipeline would be routinely patrolled and inspected quarterly at all insulating flanges, valve stations, above-ground piping and cased crossings, in addition to ground level patrol and presence on the pipeline right-of-way. The leak detection system and the Supervisory Control and Data Acquisition (SCADA) system operators in the Carson/Wilmington and/or CSC (Houston) Control room would be able to automatically actuate the valves in the event of a leak after determining the size and location of the leak. The Carson Facility and the World Energy Facility would have actuated valves in addition to manual block valves at each terminus of the pipeline. The Carson Facility would also be equipped with an automatic de-inventory vent.

Prior to operation of the pipeline, Air Products would use hydrostatic testing and direct assessment techniques, such as data gathering, pre-assessment, and direct evaluation, to obtain a comprehensive understanding of the pipeline's condition. In accordance with 49 CFR 192, the pipeline's cathodic protection (CP) system would be inspected for satisfactory external corrosion protection. The CP system is comprised of four impressed current cathodic protection (ICCP) rectifiers, four separate ground beds, and 32 test points to check the effectiveness of the CP system. The CP system would also be tested once each year by taking pipe to soil readings. A coating integrity survey would be completed for the new segment of pipeline upon the end of construction. Should any segment of the buried pipeline be exposed in the future, it would be inspected for external corrosion and Air Products would take appropriate action to determine the extent. The U.S. Department of Transportation (USDOT) reviews and keeps records of these inspections.

The pipeline would be registered with the USA North underground service alert "one-call" system. Underground facilities near proposed construction locations would be marked prior to excavation activities so

as to avoid damage to other utilities. This subscription is in accordance with the requirements of 49 CFR 192. Should an excavator not contact the one-call system prior to excavation, a polyethylene marker tape displaying a warning and the Air Products 24-hour phone number would be placed two feet below the ground surface along the length of new pipeline. To further mitigate potential impacts to existing substructures, there would be coordination with owners of substructures and non-mechanical digging in their vicinity, use of pre-qualified, experienced constriction contractors, use of electronic line locators, pre-excavation meetings, and extensive use of potholing.

In order to avoid third party damage, warning signs and line marker posts would be established at road, railroad, and waterway crossings, as well as at utility line crossings and where the pipeline is accessible to the public.

Air Products would conduct a minimum of four annual inspections of the surface conditions along the pipeline alignment. Vegetation growth would be maintained along the PPC pipeline; however, there is minimal vegetation due to the industrial and urbanized surroundings of most of the pipeline.

An educational program would be established on behalf of Air Products to educate the public, appropriate government organizations, and excavators on effective pipeline emergency protocol.

2.4 Construction and Phasing

The majority of the pipeline system would utilize an existing series of pipelines (11.5 miles), which would minimize the construction impacts of the project. Approximately 0.5-mile of new pipeline would require excavation to install underground. Trenching is the proposed construction method for the new section of pipeline.

Construction is expected to last approximately five months. There would be two active construction areas: the 0.5-mile of new pipeline to be constructed from the Air Products Carson Facility to Sepulveda Boulevard, where it would connect to existing PPC pipeline, and the pipeline connection on Paramount Boulevard in Long Beach. The majority of construction within Carson would occur on private land within the APCI Facility. Pipeline construction and the Carson Facility tie-in are anticipated to require 20-40 people for a duration of 20 weeks. Automatic shutoff valve installation at the Dominguez pumping station and South Street, as well as the pipeline connection on South Street, are anticipated to require 5-10 people for a duration of eight weeks. The Paramount Facility Connection is anticipated to require 5-10 people also for a duration of eight weeks. The Carson Facility and the Paramount Facility would likely be designated as staging areas for the storage of materials and equipment. The pipeline material and equipment would also be strung along the pipeline right-of-way at the start of construction. Materials to be delivered by trucks on existing roadways (paved and unpaved) would include: externally coated pipe sections (40 feet long); miscellaneous pipe and fittings; valves; meters and associated measurement equipment; electrical and control equipment; reinforcing steel and concrete; aggregate base rock, gravel, sand, and slurry for backfill; asphalt for paving; line signs; fencing; and water for dust control and hydrostatic testing.

Air Products Carson to Paramount Hydrogen Pipeline Initial Study

Construction wastes would include short sections of pipe; wastes from radiography, welding, and pipe coating; boxes and crates from material shipments; potentially impacted soils; rubble from trenching in paved areas; and water used in hydrostatic testing of the pipeline. Metallic waste would be taken to a local recycling center while non-metallic waste would be taken to a waste disposal center. Non-hazardous waste would be hauled to a sanitary landfill while hazardous waste would be taken to a permitted treatment/disposal facility. Water collection and disposal services for hydrostatic testing would be purchased from the local water authority; alternatively, wastewater would be sent to the World Energy Bio-fuels Facility for treatment or discharge. Water would also be used for fugitive dust control and street washing. All water required for the Project would be purchased from the local water authority and obtained via hydrant. Construction and operation of the pipeline would not produce gaseous waste.

Construction Methods

Mobilization

Trucks and trailers would be used for material and equipment deliveries to the Project site. Underground Service Alert would be notified by the Contractor so that damage to other service providers could be prevented.

Roadway Construction

Construction would occur within existing road rights-of-way in two locations along the pipeline route. Construction within the roadway would occur on Sepulveda Boulevard in the City of Carson to connect the new segment of pipeline to existing PPC Line 3B; it would also occur in an alleyway on North Paramount Boulevard in the City of Long Beach to tie PPC Line 4 into PPC Line 12 Crude 1150. Applicable permits would be obtained, and traffic control would be provided. Part of the pre-construction activities would involve notification of landowners, permittees, and business owners along the right-of-way should there be potential for construction activities to affect their business. In addition to signs around the Project site, notification to business owners would be by mail and telephone while tenants would be notified in person. Emergency response providers in the Project vicinity would also be given notice prior to the start of construction. Alternative routes would be developed, schedules for street parking closures would be published, and signage would be present to direct traffic to detours.

Equipment Fueling

Refueling of construction equipment would take place along the right-of-way. Absorbent material, also available for emergency containment, would be utilized in the case of over-filling.

Right-of-Way Clearing

Due to the lack of vegetation at either construction site along the proposed route, clearing activities are expected to be minimal. Minimal clearing and grading would be required at the site of the new segment of pipe. Fences that intersect the right-of-way would be fitted with gates to be kept open during construction.

Ditching

Rubber-tired backhoes, ditching machines, and track backhoes would be used to excavate ditches between five and six feet deep and three feet in width. Non-mechanical digging would be performed in the vicinity of known substructures so as to avoid potential damage.

Hauling and Stringing the Line Pipe, Line Lowering, Pipe Bending, Fit-Up, and Welding

Trucks and trailers would be utilized to transport line pipe to the construction zones. Side-boom tractors would be used to lift and lower the pipe into the ditch for it to later be lined-up and welded. Cradles with rubber rollers or padded slings would be used to prevent damage to the pipe's coating during the lowering process. The tractors would be spaced so that the weight of unsupported pipe would not cause buckling or other damage. The pipe would be bent to conform to the ditch by a portable bending machine. Clamps would be used to hold the segments of pipe in position until at least half of the first welding pass is complete. Once the pipe is sitting at its final elevation and alignment, "bell holes" would be dug to facilitate welding at pipe joints. All welds would be 100 percent radiographically inspected and made by qualified welders in accordance with the standards of American Petroleum Institute (API) Standard 1104 "Welding of Pipelines and Related Facilities" and 49 CFR 192.

Circumferential Pipe Weld Joint Coating

The segment of new pipe would be externally coated with fusion bonded epoxy (FBE) before being transported to the Project site. It would be 14 to 16 mils FBE coated. Existing PPC pipe was originally coated with Somastic, cold tar, and Orange X-TRUCOAT. These coatings serve to protect the pipeline during operational corrosion.

Backfilling and Compaction

If suitable (rocks no greater than 0.75-inch), native material would be used for backfilling. Should native material contain rocks exceeding 0.75-inch, sand or other filtered material may be used. The pipe would be covered with 12 inches of material for padding and shading, followed by unsuitable material placed on top if found to be appropriate for compaction. To assure that the Project area's compaction requirements are met, compaction testing would be done in addition to the use of proper material and compaction rollers. Additional construction safety measures would include fencing, backfilling, or covering of trenches at the end of each workday.

Hydrotesting

The entire pipeline would be hydrostatically tested to a minimum of 150 percent (450 psig) of the maximum operating pressure (300 psig), which is specified in DOT 49 CFR 192. Permanent records for each hydrostatic test would be kept. Water collection and disposal services for hydrostatic testing would be purchased from the local water authority; alternatively, wastewater would be sent to the World Energy Bio-fuels Facility for treatment or discharge.

Cleanup and Paving

All construction signs, debris, surplus material, and equipment would be removed from the construction site. Sepulveda Boulevard and Paramount Boulevard would be repaved in the areas where construction occurred. Non-paved areas, such as the new pipe segment, would be returned to pre-construction conditions and would not require re-seeding due to the lack of vegetation present prior to construction.

Erosion and Sediment Control

Erosion control measures would be developed prior to construction and submitted to local agencies for plan approval. Best management practices such as silt fences and straw wattles would be included in the Storm Water Pollution Prevention Plan (SWPPP) and utilized to prevent erosion.

Operations and Maintenance

The Carson to Paramount hydrogen pipeline will be owned by PPC and operated by Air Products. All pipeline personnel would meet the qualification requirements described in Subpart N of 49 CFR 192. The pipeline would operate at a pressure of approximately 260 psig and would transfer a maximum of seven million cubic feet of hydrogen gas each day (7 MMSCFD). The anticipated flow rate for the pipeline would be approximately four million standard cubic feet per day (4 MMSCFD). The pipeline and ASVs would be continuously monitored by the SCADA system. With its uninterruptible power supply, the SCADA system would analyze data from multiple locations along the pipeline and would send alerts to the pipeline controllers should any unexpected conditions arise.

Air Product's personnel are trained in the Incident Command System as well as gas release emergency response procedures, and community first responders would be trained in accordance with an existing Emergency Response Plan. Ten minutes is the expected response time in the event of a leak, and a personnel technician would be present within one hour. The SCADA system runs on local independent remote terminal units (RTU's) and would therefore function in the event of a local power outage. In the event of a leak, the ASVs would automatically close when the flow rate through the pipeline at the ASV stations reaches an established set point. The location and size of the leak would be identified by the online leak detection system, and the leak detection system's isolation and de-pressurization components would be programmed to actuate automatically. The ASVs would close and vent the identified segment of pipeline to the flare at the Carson Facility. The Carson Facility would also be equipped with an automatic de-inventory vent in addition to the manual block valves located at each end of the pipeline within the Carson and World Energy Facilities. The local Carson Plant operators and the Air Products Customer Service Center in Texas would also have the power to automatically actuate the ASVs in the event of leak detection.

2.5 Project Approvals

Table 2: List of Anticipated Permits and Approvals

Agency	Permit/Approval	Regulated Activity	Authority				
State of California Agencies							
Regional Water Quality Control Board Storm Water Pollution Prevention Plan Approval Storm water discharges during Project construction Project construction Porter-Cologne Water Quality							
	Local	Agencies					
City of Carson Conditional Use Permit, Construction Permit		New use, environmental review, and construction permit	City Code CEQA				
City of Carson Public Works Dept.	Encroachment Permit	Work within public right-of-way	City Code				

Air Products Carson to Paramount Hydrogen Pipeline Initial Study

Agency	Permit/Approval	Regulated Activity	Authority		
Los Angeles County Flood Control District	Temporary Use and Access	Modifications to existing pipe bridge crossing the Los Angeles River	County Code		
Port of Los Angeles	Amendment to Franchise	Change in pipeline use	City Code		
Joint Ports	Amendment to Master Joint Revocable Permit	Change in pipeline use	Joint Powers Authority Charter		
City of Long Beach	Amendment to Franchise Agreement/ Construction Permit/ Encroachment Permit	Modification to existing Franchise Agreement, Work within public rights-of-way	City Code		
City of Lakewood	Construction Permit	Piping Modification	City Code		
City of Paramount	Construction Permit	Pipeline Tie-In	City Code		
South Coast Air Quality Management District	Authority to Construct/Permit to Operate	Emissions associated with construction may require permits.	Clean Air Act		
Notes: CEQA = California Environmental Quality Act					

3 INITIAL STUDY CHECKLIST

1. Project title:

Carson to Paramount Hydrogen Gas Pipeline

2. Lead agency name and address:

City of Carson Community Development Department, Planning Division 701 East Carson Street Carson, California 90745

3. Contact person and phone number:

Name: Max Castillo, Assistant Planner

Phone: (310) 952-1700 x1317 Email: mcastillo@carson.ca.us

4. Project location:

The Project route would initiate in the City of Carson at an existing Air Products and Chemicals, Inc. hydrogen facility and would terminate in the City of Paramount, California at the World Energy Bio-Fuels Facility. The proposed pipeline would traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower.

5. Project sponsor's name and address:

Eric Guter, General Manager – HyCO Western Region Air Products and Chemicals, Inc. 4000 MacArthur Boulevard Suite 420, East Tower Newport Beach, CA 92660

- 6. General plan designation: The Project site is located within an area of industrial, commercial, and residential land uses.
- 7. Zoning: Industrial, Commercial, Residential

8. Description of project.

The project involves the construction of 0.5-mile of pipeline within the City of Carson, the installation of valves on an existing 11.5 miles of pipeline and the operation of the entire 12.0-mile pipeline system. See Section 2.3, Proposed Project, for additional details.

9. Surrounding Land Uses and Setting:

See Section 2.2, Environmental Setting, for details on the surrounding land uses and setting.

10. Other public agencies whose approval is required: (e.g., permits, financing approval, or

Air Products Carson to Paramount Hydrogen Pipeline Initial Study

participation agreement.)

See Section 2.5, Project Approvals, for details.

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

The city has provided notice of the Project application to California Native American tribes that have requested such notice.

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," as indicated by the checklist on the following pages.

Aesthetics		Agriculture and Forestry Resources	Air Quality
Biological Resources		Cultural Resources	Geology and Soils
Greenhouse Gas Emissions	\boxtimes	Hazards and Hazardous Materials	Hydrology and Water Quality
Land Use and Planning		Mineral Resources	Noise
Population and Housing		Public Services	Recreation
Transportation and Traffic		Tribal Cultural Resources	Utilities and Service Systems
Mandatory Findings of Significance			

Determination:	
On the basis of this initial evaluation:	
I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.	
I find that although the proposed project could have a significant effect on the environment, there we not be a significant effect in this case because revisions in the project have been made by or agreed to the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.	
☑ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.	
I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.	
I find that although the proposed project could have a significant effect on the environment, because potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.	re
M Call 5/20/20	
Signature Date	

Evaluation of Environmental Impacts:

- 1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors, as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
- 5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analyses Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9. The explanation of each issue should identify:
 - a) the significance criteria or threshold, if any, used to evaluate each question; and
 - b) the mitigation measure identified, if any, to reduce the impact to less than significance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
I. AESTHETICS. Except as provided in Publi	c Resources Coo	le Section 21099,	would the project	
a) Have a substantial adverse effect on a scenic vista?				\boxtimes
b) Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				\boxtimes
c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			\boxtimes	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			\boxtimes	
II. AGRICULTURE AND FORESTRY RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				\boxtimes
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				\boxtimes
d) Result in the loss of forest land or conversion of forest land to non-forest use?				

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to nonforest use?				
III. AIR QUALITY. Where available, the signifinance management or air pollution control district may be reproject:				
a) Conflict with or obstruct implementation of the applicable air quality plan?				
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?			\boxtimes	
c) Expose sensitive receptors to substantial pollutant concentrations?			\boxtimes	
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				\boxtimes
IV. BIOLOGICAL RESOURCES. Would the pr	roject:			
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				\boxtimes
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				×
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				\boxtimes

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				
V. CULTURAL RESOURCES. Would the pro	ect:			
 a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5? 				
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				
c) Disturb any human remains, including those interred outside of dedicated cemeteries?			\boxtimes	
VI. ENERGY. Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation				
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				\boxtimes
VII. GEOLOGY AND SOILS. Would the project	:			
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist- Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				
ii) Strong seismic ground shaking?			\boxtimes	
iii) Seismic-related ground failure, including liquefaction?				
iv) Landslides?				
b) Result in substantial soil erosion or the loss of topsoil?				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?				
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				\boxtimes
f)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				\boxtimes
VIII	GREENHOUSE GAS EMISSIONS. Would the	oroject:			
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			×	
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				
IX.	HAZARDS AND HAZARDOUS MATERIALS. V	Vould the project			
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				\boxtimes
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
d)	Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?			\boxtimes	

Air Products Carson to Paramount Hydrogen Pipeline Initial Study

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?				
X.	HYDROLOGY AND WATER QUALITY. Would	the project:			
a)	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality				
b)	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?				\boxtimes
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would				
	i) result in a substantial erosion or siltation on- or off-site;				\boxtimes
	 substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; 				
	iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or				
	iv) impede or redirect flood flows?				\boxtimes
d)	In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation				
e)	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
XI.	LAND USE AND PLANNING. Would the project	ot:			
a)	Physically divide an established community?				
b)	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				
XII.	MINERAL RESOURCES. Would the project:				
a)	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				
b)	Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?				\boxtimes
XIII.	NOISE. Would the project result in:				
a)	Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
b)	Generation of excessive groundborne vibration or groundborne noise levels?				
c)	For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				\boxtimes
XIV.	POPULATION AND HOUSING. Would the project	ect:			
a)	Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
b)	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				\boxtimes

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact			
XV.	PUBLIC SERVICES. Would the project:							
a)	Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:							
Fire protection?								
	Police protection?				\boxtimes			
	Schools?							
	Parks?							
	Other public facilities?							
XVI	RECREATION.							
a)	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	orhood and regional parks or other ional facilities such that substantial al deterioration of the facility would						
b)	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?							
XVII	.TRANSPORTATION. Would the project:							
a)	Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?							
b)	Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?			\boxtimes				
c)	Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?							
d)	Result in inadequate emergency access?		\boxtimes					
XVII	I. TRIBAL CULTURAL RESOURCES.							
Res	ould the project cause a substantial adverse chan ources Code § 21074 as either a site, feature, plac and scope of the landscape, sacred place, or obje	e, cultural landsc	ape that is geograp	hically defined in	terms of the			

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
	i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				
	ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?				
XIX	.UTILITIES AND SERVICE SYSTEMS. Would t	he project:			
a)	Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?				
b)	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years				\boxtimes
c)	Result in a determination by the waste water treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				\boxtimes
e)	Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				
g)	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				
	WILDFIRE. If located in or near state responsibles, would the project:	lity areas or land	s classified as very	high fire hazard	severity
a)	Substantially impair an adopted emergency response plan or emergency evacuation plan				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
b)	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?				\boxtimes
c)	Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				
d)	Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?				
XXI	MANDATORY FINDINGS OF SIGNIFICANCE.				
a)	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
b)	Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				
c)	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				

3.1 Aesthetics

- a) Would the project have a substantial adverse effect on a scenic vista?
- b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. The proposed project is not located within any designated scenic vistas or resources, and there are no state-designated scenic highways that would be crossed by the new or existing pipeline. The pipeline would be underground except for the following sections requiring aboveground construction: within the Air Products Carson Facility, the new pipeline construction along the Dominguez Channel, the two Automatic Shutoff Valve (ASV) locations, and at the pipeline terminus within the World Energy Bio-fuels Facility in Paramount. Visible construction at these sections of the pipeline would be on a limited timeframe and in industrialized areas. Therefore, no impacts associated with scenic vistas or highways are anticipated.

c) Would the project, in nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less Than Significant Impact. The project is not expected to degrade the visual character of the area due to the limited timeframe of aboveground construction and the industrialized zoning of most construction areas, in addition to the pipeline predominately being underground. The project would not conflict with any regulations governing scenic quality. Construction equipment and materials for the new pipeline would be contained within the Air Products Facility in Carson, a low-traffic and highly industrialized area. Visibility of this area would be limited to drivers on East Sepulveda Boulevard for an expected 20 weeks. Construction for the pipeline connection on North Paramount Boulevard in Long Beach, zoned General Industrial, is expected to last eight weeks. Therefore, impacts to the visual character of the site and its surroundings are anticipated to be less than significant.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less Than Significant Impact. Operation of the pipeline would not require new sources of illumination except if needed during limited nighttime construction. However, nearly all construction would be conducted during daylight hours. Therefore, impacts associated with substantial light or glare are anticipated to be less than significant.

3.2 Agriculture and Forestry Resources

a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide

Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?

- b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?
- c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?
- d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?
- e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No Impact. The proposed pipeline route would traverse the City of Carson, City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, City of Bellflower, and City of Paramount. The pipeline alignment largely utilizes established utility routes following private corridors and public roadways and is therefore not located on any land zoned for agricultural or forestry uses. Therefore, no impacts associated with agriculture and forestry resources are anticipated.

3.3 Air Quality

The proposed Project would generate air emissions from construction of the 0.5-mile segment of pipeline and from vehicle transport of materials and personnel during construction. Construction emissions would be associated with the following equipment and processes:

- Construction equipment, such as backhoes, graders, etc.;
- On road vehicles for equipment delivery;
- On road vehicles for materials delivery and waste materials removal, such as asphalt trucks, dump trucks, and service trucks;
- On road vehicles associated with construction workers;
- Volatile organic emissions from asphalt;
- Fugitive dust associated with soil handling, site clearing and grading; and
- Fugitive dust associated with travel on dirt areas.

Several best management practices would be followed during construction to reduce dust generation:

Water all active construction sites a minimum of twice daily.

- Reduce travel speeds of onsite vehicles on unpaved roads within the pipeline trench construction area to 15 miles per hour.
- Cover inactive storage piles
- Sweep streets if visible solid material is carried out from the construction site.

There would be very minimal emissions associated with the operation of the proposed hydrogen pipeline associated with ROW inspections and equipment inspections and due to vehicle travel. No emissions are associated with the normal transport of material through underground pipelines. The emissions estimates for construction of the pipeline with mitigation incorporated are shown in Table 3. More detailed tables are presented in the Air Appendix.

Table 3: Project Construction Emissions (With Mitigation)

Activity	Pollutant									
receivity	VOC	NOx	СО	SOx	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O	CO ₂ e
		Peak Pounds per Day								
Pipeline Spread	4.48	35.92	22.66	0.04	5.02	3.43	3704.36	0.95	0.00	3728.00
Pipe Delivery	0.36	8.45	1.34	0.02	0.30	0.20	2259.20	0.02	0.36	2369.64
ASV & Pipeline Connections	1.79	11.15	9.46	0.02	0.75	0.65	1353.65	0.30	0.00	1361.18
World Energy Paramount Bio-fuels Facility Connections	1.79	11.15	9.46	0.02	0.75	0.65	1353.65	0.30	0.00	1361.18
Maximum Total Daily Emissions	8.42	66.67	42.91	0.09	6.82	4.93	8670.87	1.56	0.36	8820.00
Significance Threshold	75	100	550	150	150	55	-	-	-	_
Significant Impact?	No	No	No	No	No	No	-	-	-	-
	Total Tons Total Metric Tons									
Pipeline Spread	0.19	1.56	0.98	0.00	0.22	0.15	145.57	0.04	0.00	146.50
Pipe Delivery	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.00	1.07

Emissions of NO_x from construction activities would be primarily from onsite activities. The peak level of emissions would occur during the trenching and pipe installation operations. Emissions of PM₁₀ and PM₂₅ would be due mostly to onsite sources, particularly fugitive dust sources. These peak emissions would occur during the soil handling activities. Fugitive dust emissions would also be associated with vehicle travel on unpaved areas, which would occur during site clearing, trenching, pipeline installation, and backfilling/clean-up operations. Fugitive dust emissions would be highest in the areas where the pipeline route passes through the unpaved areas. Fugitive dust emission calculations are based on the information in the South Coast AQMD CEQA Air Quality Handbook, Chapter 9 for grading activities, storage pile filling, truck dumping, and vehicle traffic on unpaved areas.

All emissions associated with construction of the APCI hydrogen pipeline project are estimated to be below the SCAQMD significance levels for construction. Operation of the pipeline is not expected to produce any criteria pollutants.

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

No Impact. The proposed pipeline is aligned with both National Ambient Air Quality Standards and California Clean Air Act in that it contributes to the supply of hydrogen used for the reformulation of fuels. The demand for hydrogen at the refineries has been increasing during the last few years due to the need to produce reformulated fuels. In order to meet the required specifications for reformulated fuels, the refineries have had to increase the amount of hydrogen they use to produce gasoline and other refinery products. Most of the refiners have chosen to meet this increased demand for hydrogen by purchasing hydrogen gas from a third party such as APCI, who can produce the hydrogen more efficiently to supply multiple customers via pipeline. In the 1994 Ultramar SEIR, the cumulative operation of a group of reformulated fuels projects, including a hydrogen pipeline from the hydrogen plant to the refineries, was shown to yield significant reductions in air emissions. Utilization of the APCI pipeline would reduce the number of trucks currently used (approximately 4-5 trucks per day) to transport liquid hydrogen to the World Energy Paramount Bio-Fuels Facility, thereby contributing to a reduction in air emissions. In addition, operation of the pipeline would produce minimal emissions to the atmosphere and would therefore be consistent with the basin air quality plans. Therefore, the project would have a minimal, and possibly, positive (due to the use of clean fuels) impact on air quality plans.

b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Less Than Significant. According to SCAQMD, a Project would have potentially significant cumulative impacts to regional air quality if the Project's individual impacts would be significant. The proposed pipeline construction emissions would be below the SCAQMD Threshold Levels for construction activities as shown in Table 3. Operation of the proposed pipeline involves the transportation of hydrogen via 12 miles of underground piping. Therefore, emissions from stationary sources associated with the operation of the pipeline are estimated to be negligible. Operational emissions from the Carson Facility would not increase as a result of this project due to the Carson Facility currently operating at maximum hydrogen production capacity. Other emissions associated with operation of the pipeline are estimated to be minimal and associated with only period vehicles associated with equipment inspections and routine pipeline inspections. All insulating flanges, valve stations, above-ground piping, and cased crossings would be inspected quarterly in addition to quarterly ground level patrol and routine presence on the right-of-way. Best available control technology (BACT) and best management practices (BMPs) to reduce dust from construction would be used for the project. Mitigation measures for the pipeline construction would include watering of

unpaved active construction areas, reducing travel speeds to 15 miles per hour on unpaved roads within the pipeline trench construction area, and covering inactive storage piles. Vehicles and construction equipment would also be maintained to minimize emissions. Therefore, construction emissions from the project would be less than significant and would not result in a cumulatively considerable net increase in any criteria pollutant.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant. The pipeline would have minimal to no pollutant emissions under normal operation. Construction activity has the potential to expose sensitive receptors to dust and pollutants, especially in areas near schools or residential property. However, all areas of construction are zoned for industrial use, and construction is short-term. In addition, the nearest sensitive receptor is 0.47 miles from the area with the most intensive construction activity, and there are no sensitive receptors within 500 feet of any proposed construction activity. Local significance thresholds published by the AQMD indicate that impacts of the project would be well below those that could produce localized impacts. Mitigation measures would be implemented to reduce construction air emissions, as detailed above III a). Therefore, impacts to sensitive receptors would be less than significant.

d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

No Impact. Normal operation of the pipeline would create no objectionable odors. Some odors may be generated during construction excavation activities if contaminated soil is encountered. In the event that contaminated soils with objectionable odors are encountered, a plan to manage the soil would be implemented in order to minimize the production of objectionable odors as per AQMD rules and regulations. Therefore, the project would have no impact with regard to objectionable odors.

3.4 Biological Resources

- a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?
- b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?
- c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?
- d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?
- e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?
- f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The proposed project site is located within heavily disturbed areas, such as industrial corridors, residential areas, and developed road rights-of-way. Generally, developed areas provide habitat of minimal value for plant and wildlife species. Most of the pipeline would be located underground, and the two segments requiring street-level construction, Segment 1 and Segment 7, support very little to no vegetation. No rare, endangered, or threatened species are expected to be found in the project area. The pipeline would cross three water bodies, the Dominguez Channel, Compton Creek, and Los Angeles River, utilizing existing pipeline bridges. The proposed pipeline would not interfere with wetlands. The pipeline would be designed not to affect the function of any drainage systems and water runoff grades encountered along the pipeline route. Therefore, no impacts associated with biological resources are anticipated.

3.5 Cultural Resources

- a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?
- b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?
- c) Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Less Than Significant Impact. A records search from the South Central Coastal Information Center of the California Historical Resources Information System (SCCIC-CHRIS) did not identify any historical or archaeological resources along the proposed 0.5 mile pipeline in the City of Carson. In addition, an intensive archaeological survey did not identify any archaeological resources along the same 0.5-mile pipeline. However, four archaeological sites are recorded within 0.25-mile of the Project site. One site, CA-LAN-2682, is a protohistoric habitation site and cemetery approximately 618 feet west of the western end of the Project site. All visible human remains were removed in 1998; however, future excavation may expose additional human remains in any direction from the known burials. Given the proximity to CA-LAN-2682 there is a possibility that unknown buried prehistoric resources could occur within the Project site. Therefore, the following recommendations are provided to reduce any potential significant impacts to buried cultural resources to a less than significant level:

- A professional archaeologist and Native American monitor should be retained to monitor all Project related earth disturbances within the first 100 feet of the underground portion of the Project site. The area recommended for monitoring would start approximately 400 feet southeast of the intersection with South Alameda Street and where the proposed pipeline would transition from aboveground to underground. The area would continue east for 100 feet into the Air Products Carson Hydrogen Facility.
- At the commencement of Project construction, the archaeological monitor shall give all
 workers associated with earth-disturbing procedures an orientation regarding the
 probability of exposing cultural resources and directions as to what steps are to be taken
 if a find is encountered.
- The archaeologist shall have the authority to temporarily halt or redirect Project construction in the event that potentially significant cultural resources are exposed. Based on monitoring observations and the actual extent of Project disturbance, the lead archaeologist shall have the authority to refine the monitoring requirements as appropriate (i.e., change to spot checks, reduce or increase the area to be monitored) in consultation with Air Products and the lead CEQA Agency.

• If human remains are unearthed, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission. The lead CEQA Agency and Air Products shall be notified of any such find.

3.6 Energy

- a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?
- b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No Impact. Construction and operation of the proposed pipeline project would not result in wasteful, inefficient, or unnecessary consumption of energy resources. Energy use during construction and operation of the pipeline would be minimal and limited in timeframe for the construction phase. The Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Construction of this pipeline would help to meet the demand for reformulated fuels through the production of renewable transportation fuels; APCI can produce the hydrogen more efficiently to supply multiple customers via pipeline. Therefore, the project would not result in significant environmental impacts associated with inefficient energy consumption

3.7 Geology and Soils

- a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

- ii) Strong seismic ground shaking?
- iii) Seismic-related ground failure, including liquefaction?
- iv) Landslides?
- c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?
- d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less Than Significant. The Project area is not crossed by any active or potentially active fault. The Newport-Inglewood and San Andreas fault zones have the greatest potential to impact the Project site based on their proximity to the proposed alignment and potential maximum ground acceleration. The nearest active fault is the Newport-Inglewood fault, located one mile north of the Project site. The Project site lies outside of the Alquist-Priolo Earthquake Hazard zone for the Newport-Inglewood fault. State and federal regulations are available to minimize the impacts associated with pipeline rupture, including U.S. Department of Transportation pipeline safety regulations (49 CFR 192). The project would include the following several design measures that are proposed to be incorporated into the project. In order to further reduce the risk of damage to the pipeline, all new circumferential welds would be inspected. This exceeds the Department of Transportation requirements for transporting gaseous products (see 49 CFR 192). The pipeline would also include two automatic shutoff valve stations, which would reduce the quantity of hydrogen released in the event of a leak from the system. Compliance with state and federal regulations regarding pipeline safety would reduce the impacts from ground movement on the pipeline to less than significant.

b) Would the project result in substantial soil erosion or the loss of topsoil?

No Impact. The construction of the pipeline is planned so that the installed pipe would be covered, the ground compacted, and the surface restored to standard condition or better such that no erosion or ground degradation would ensue. Land stripped of vegetation would be replanted; pavement would be replaced, etc. The finished pipeline route would be properly engineered to impede erosion of soils due to wind, water or traffic. A Storm Water Pollution Prevention Plan (SWPPP) would be prepared, and implemented during construction of the pipeline: the SWPPP identifies sources of sediment and other pollutants that affect quality of storm water discharges; and describes best management practices (BMPs) that would be implemented to reduce sediment and other pollutants in storm water. Therefore, the pipeline would not impact topsoil erosion.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact. The normal operation of the pipeline does not involve water disposal. Activities during construction that would involve the use of water are dust control practices and hydrostatic testing of the pipeline. These activities would be organized to avoid water runoff and contamination. Water used for fugitive dust control and street washing, as a supplement to sweeping, would be limited to that necessary for the task to avoid unnecessary runoff. A SWPPP would be prepared for construction activities associated with the proposed Project. Used hydrostatic test water would be sent to the World Energy Facility for treatment or discharge, or alternatively discharged onsite, in accordance with applicable laws, ordinances, and regulations (LORS). Therefore, no impacts associated with disposal of water to soil are expected.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

No Impact. No historical or paleontological resources or unique geologic features have been identified along the route of the proposed pipeline. However, as with all projects requiring excavation, the unearthing of cultural remains would require a halt to construction activities in that particular area, while an archaeological assessment of the remains is completed. None are expected since the route line of the proposed pipeline is situated in heavily disturbed industrial and transportation areas. Therefore, there is expected to be no impact to paleontological resources.

3.8 Greenhouse Gas Emissions

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant. There are minimal emissions associated with normal operation of the pipeline, which would involve periodic pipeline inspections and associated vehicle traffic. Emissions associated with construction of the pipeline would be below the SCAQMD threshold of significance for GHG emissions as shown in Table 3 and are therefore less than significant. Therefore, there would be less than significant impacts associated with the generation of greenhouse gas emissions.

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

No Impact. Construction and operation of the proposed pipeline would not conflict with any plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases, such as AB 32 or the South Bay Cities Council of Governments Climate Action Plan. Therefore, there would be no impact to plans which aim to reduce the emissions of greenhouse gases.

3.9 Hazards and Hazardous Materials

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

No Impact. The operations of the pipeline system would not generate routine emissions of materials that could cause hazards to the public. Hydrogen is highly flammable but would remain inside the pipelines during routine operations and would have no impact on the public. Activities during construction would utilize some hazardous materials, such as fuels or welding gasses, but there would be no routine releases and there would be no impacts on the public. Therefore, there would be no impact for routine activities. Impacts associated with accidental releases are discussed below.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Potentially Significant. The proposed pipeline would be constructed and tested in accordance with all applicable state and federal standards, specifically those set forth by the American National Standards Institute (ANSI), Code of Federal Regulations and California Pipeline Safety Act. Impacts associated with construction and operations are discussed below.

Construction: The APCI Hydrogen Pipeline construction activities would occur near or parallel to numerous underground utilities including water, sewer, electric, cable, telephone, and natural gas utilities. During pipeline construction, potential impacts to these utilities could occur if these utilities are accidently damaged by the construction equipment. A result of such accident could be a disruption of utility service, or in the case of a natural gas pipeline, a fire or explosion. This could result in a potentially significant impact. However, this impact potentially exists for any underground construction project, and there are many well developed and long proven to be effective measures that would be instituted to successfully mitigate this impact. These measures include:

- Underground Service Alert would be notified 48 hours in advance of any excavation activity so that utilities can be marked for avoidance during construction. Construction would not commence until all utilities have been marked.
- Non-mechanical digging would be used in utility-intensive areas and in the vicinity of underground structures.
- In the event of inadvertent damage to an underground facility, work would be halted in the immediate vicinity of the damage, until the problem is resolved.
- Local fire departments would be notified of the schedule of construction activities in the vicinity of natural gas lines.

In addition, construction of the 0.5-mile pipeline segment would occur in industrial areas and would not be located close to residences or highly populated areas. Therefore, impacts from pipeline construction would be less than significant.

Operations: The operational hazards of transport of pressurized hydrogen are associated with a potential failure of the pipeline and subsequent release of hydrogen from the pressured pipeline. The pipeline could fail due to external impact (near construction projects, etc.), pipeline wall corrosion, mechanical defects or other issues. The impacts of a release from the proposed pipeline were assessed in the Ultramar SEIR (1994) and 2000 APCI Addendum. The worst-case accident scenario simulated in the SEIR was the rupture of the pipeline, resulting in a horizontal jet of hydrogen gas and formation of a vapor cloud; and immediate ignition with a fire source. For this scenario, the radiant heat zone at the "irritation level" was calculated to extend up to a distance of 250 feet away from the pipeline. All other potential hazards associated with the pipeline were determined to extend less than 250 feet from the pipeline route.

The Applicant has developed modeling of potential releases from the proposed operations of the hydrogen pipeline. Impact distances from a rupture and subsequent fire would extend a maximum distance of 76 feet.

The following pipeline design measures help to minimize the potential impacts associated with a potential pipeline rupture during operation:

- Telemetry system to provide notification in the event of a rupture.
- Line riders to patrol the pipeline periodically as required per DOT 49 CFR 192.
- Monitoring of the differential between input and output pressures at all times by the pipeline operations center.

In addition to these measures, the proposed pipeline would have the following safety features:

• Two automatic shutoff valves (ASVs) to limit the size and duration of a potential release. ASVs are hydraulically operated self-contained mechanical devices, which are designed to automatically close at flowrates that exceed a certain preset flowrate value. They do not require electrical power for operation and are designed to fail closed. If the pipeline sustains a significant damage that is followed by a large hydrogen release, the ASVs immediately downstream and upstream of the damage would sense a variance in the flowrate due to pipeline depressurization. The ASVs would automatically close when the flow rate through the pipeline at the ASV stations reaches an established set point. Thus, the flow through the pipeline would be stopped and the section of the pipeline where the damage occurred would be isolated from the rest of the pipeline. This ASV system would effectively mitigate the volume of hydrogen released in the event of a large pipeline failure. Remote terminal units (RTU), configured with a computer, would be installed at

each ASV station; and provide continuous monitoring of the pipeline and transmit pressure data and valve status information back to the hydrogen plant control room. In case of a pipeline leak, the hydrogen plant control room would be able to identify the section of pipeline where the leak has occurred.

- The installation of a third manual valve underground on South Street near Orizaba Avenue in addition to the manual block valves at each end of the pipeline (within the Carson Facility and the World Energy Bio-fuels Facility).
- Subscription to USA North underground service alert "one-call" system which would notify the owners of other underground facilities in the vicinity of proposed excavation.
- Radiographical inspection of 100% of new circumferential welds on the new section of the pipeline. This exceeds the 49 CFR 192 requirements which state that only a percentage of the welds must be inspected.
- The installation and maintenance of line marker posts and warning signs at road, railroad, and waterway crossings, utility crossings, and aboveground pipeline locations.
- Marker tape laid approximately two feet below the surface, above the pipeline, along the
 entire length of the new pipeline to help other excavators identify the pipeline.
- Pipeline would be hydrostatically tested at a pressure of 1.5 times the maximum operating pressure as required in 49 CFR 192.
- External corrosion coating would be applied to the outside of the new pipeline segment, and a coating integrity survey would be conducted along the new pipeline in order to identify and repair the coat as necessary.
- Pipeline would be cathodically protected to minimize external corrosion.

Even with these measures, the pipeline could still fail and release hydrogen to the environment, potentially impacting the public. The determination if this potential is a "significant" hazard utilizes risk assessments to determine the level of significance. Currently, the City of Carson does not have specific risk-based thresholds to determine the significance of an accidental hazardous material release and subsequent impact. Therefore, this initial study proposes the use of generally accepted standards current utilized by the County of Los Angeles, the State of California and originally developed by the County of Santa Barbara.

Risk is determined through an examination of the combination of the potential frequency of a series of events occurring and the potential impacts of each of the events. For a hydrogen pipeline, the events would include ruptures and leaks from the pipelines, with the potential impacts being exposure to fires and flammable vapor clouds resulting in fatalities or serious injuries. Risk is further defined as either individual risk or societal risk. The individual risk expresses the risk that a single individual suffers a fatality or a serious injury. For this project, the individual risk levels are based on an analysis

of the frequency of a release at a single point on the pipeline, in front of one of the schools for example, and the resulting potential for impacts at only that point.

Societal risk addresses the risk that anyone in the area of the project suffers a fatality or serious injury. For this project, the societal risk levels would be based on an analysis of the frequency of a release at any point along the entire pipeline route, summing the frequencies of the releases occurring in front of all of the schools for example, and the resulting potential for impacts at any of those points. Societal risk is more of a cumulative analysis whereas individual risk expresses the risk to a single individual without consideration of the total vulnerable population.

The Santa Barbara thresholds present a series of "screening" steps in order to determine if a detailed analysis should be conducted. The "screening" steps utilize the individual risk levels. Assessing individual risk is substantially less effort than conducting a detailed societal risk assessment, hence the "screening". The detailed analysis examines the societal risk. In order to ensure that impacts are less than significant, both the individual and societal risk assessments should present a less than significant impact as per the thresholds.

As this project would utilize pipelines that pass directly in front of seven schools, literally beneath child drop-off areas, both the individual and societal risk methods should be utilized and demonstrate that risk levels are acceptable for both individual and societal risk in order to determine if this project presents acceptable risk levels. The Santa Barbara thresholds are focused on the use of societal risk levels. CEQA, as per section 15003 and 15378, requires an EIR to examine "the whole of an action, not simply its constituent parts" in order to assess the impacts. Reviewing the entire pipeline through a detailed societal analysis, thereby addressing the combination of the potential individual risks at all of the schools, and other locations, along the route, addresses the CEQA requirement to assess the whole of the action and the Santa Barbara County risk thresholds comprehensive approach using a detailed analysis.

The Applicant has prepared an individual risk analysis addressing the potential individual risk levels. As per the screening risk approach in the Santa Barbara County thresholds, the individual risks would be less than significant. However, as the societal risk levels have not been examined, and, based on the results of the individual risk levels, the high density residential areas through which the pipeline would pass, the length of the pipeline and the number of schools located along the route, the societal risk would most likely present significant risk levels and would therefore be potentially significant.

The Air Products Carson facility currently transports hydrogen to the World Energy pilot plant facility in Paramount with trucks. Trucks can present a higher risk level than pipelines depending on the amount of throughput. If the entire proposed throughput of the proposed project were to be transported by truck, it would most likely present greater risk levels than transportation by pipeline. However, the Paramount World Energy project is currently proposing projects to expand the pilot project in Paramount, including the installation of a hydrogen production plant, which would thereby

supply all of the hydrogen needed in Paramount. At this point, therefore, the level of trucks that could be removed from the roadway is not certain, and any offsetting risk levels from reducing truck transport of hydrogen would be speculative and most likely be limited to only the current transportation levels utilized by the World Energy pilot plant. While this level of truck transport that could be removed from the roadway with this project would reduce the societal risk levels associated with the pipeline project, the resulting risk levels may still be potentially significant.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Potentially Significant. There are seven schools within one-quarter mile of the pipeline; six of these schools are adjacent to the pipeline, and one school is located 800 feet from the pipeline. The schools are associated with Long Beach Unified School District and Paramount Unified School District and are a mix of three elementary schools, two middle schools, and two high schools. Under normal, routine operation the pipeline would not emit hazardous materials. With the incorporation of automatic shutoff valves, the potential hazard zone from a pipeline rupture would be minimized but could still impact at least 6 schools along the pipeline route. Therefore, the hazard impact to a school is potentially significant even with the incorporated mitigation measure. A detailed risk assessment discussed above would indicate the extent to which the pipeline presents significant risk to the schools.

d) Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code §65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Less Than Significant. The pipeline route follows mainly roadways and existing utility rights-of-way. The pipeline route is not located in an area included on a government list of hazardous materials sites. However, environmental site assessments identified lead contaminated soils in excess of California Title 22 thresholds along approximately 1,100 linear feet of the proposed new pipeline segment. Soil contaminated with petroleum hydrocarbon potentially could be found along 500 feet of pipeline along the Dominguez Channel. Soils with a lead concentration exceeding California Title 22 thresholds would need to be handled by HAZWOPER-trained workers and disposed of at a licensed Class I hazardous waste facility; petroleum hydrocarbon-containing soil must be disposed of at a licensed disposal/recycling facility. As contaminated materials would be required to be handled appropriately by existing regulations and AQMD rules, the pipeline would have less than significant impact with regard to hazardous materials sites.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact. The Project site for the new 0.5-mile segment of pipeline is not located within an airport land use plan or within two miles of a public airport. However, one segment of the pipeline route,

Segment 6 along Linden Avenue, is located approximately 1.8 miles from Long Beach Airport. Segment 6 is a segment of existing PPC pipeline that would not require construction activities for the Project. The pipeline should not produce any noise during normal operation. Therefore, no impacts associated with excessive construction related noise or safety hazards within an airport land use plan are anticipated.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less Than Significant. Normal operation of the pipeline would not affect emergency response or evacuation plans. However, during the construction period, a Traffic Control Plan would be developed which would safeguard traffic flow and consider emergency routes. Alternative routes for emergency vehicles shall be identified that may be used to avoid construction areas. Therefore, the project would have a less than significant impact on any adopted emergency plans.

g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

No Impact. The Project area is located in industrial, commercial, and residential zones. The Project area is not adjacent to wildlands nor is it located on lands classified as very high fire hazard severity zones. People and structures in the Project area would not be at risk of loss, injury, or death involving wildland fires. Therefore, no impacts associated with wildland fires are expected.

3.10 Hydrology and Water Quality

- a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?
- b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?
- c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
 - i) result in a substantial erosion or siltation on- or off-site?
- e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Impact. Construction and operation of the proposed pipeline project would not significantly affect surface water or ground water in the project vicinity, nor would it conflict with plans regarding water quality control or groundwater management. The pipeline would be designed to have no effect

on the function of surface drainage, roadway drainage, culverts, and drainage channels along the route. The Project would utilize existing pipes within existing pipeline bridges to cross the Dominguez Channel in Carson and Los Angeles River in Long Beach. There is no water involved in normal operation of the pipeline. Therefore, there would be no substantial impact on water quality standards, groundwater supply, or drainage patterns. Therefore, the pipeline would have no impact on hydrology and water quality.

- c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
 - iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less Than Significant. There would be no operational impact of the Project on runoff or stormwater drainage. However, there is potential for impacts to hydrology and water quality from construction related stormwater runoff in the Dominguez Channel and the Los Angeles River. As mentioned in Section VI e), activities during construction that would involve the use of water are:

- Dust control
- Hydrostatic testing

These activities would be organized to avoid water runoff and contamination. Water used for fugitive dust control and street washing, as a supplement to sweeping, would be limited to that necessary for the task to avoid unnecessary runoff. A SWPPP would be prepared for construction activities associated with the proposed Project. Used hydrostatic test water would be sent to the World Energy Facility for treatment or discharge, or alternatively discharged onsite, in accordance with applicable laws, ordinances, and regulations (LORS). Therefore, construction related impacts to stormwater drainage systems and runoff are expected to be less than significant.

- c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
 - ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?
 - iv) impede or redirect flood flows?
- d) Would the project, in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact. The proposed pipeline project has no flood, tsunami, or seiche potential. There would be no risk of flooding, either on or offsite, due to an increase in surface runoff. Therefore, there is no impact associated with flood hazard zones.

3.11 Land Use and Planning

a) Would the project physically divide an established community?

No Impact. The pipeline is mainly underground except for the automatic shutoff valve stations and the pipeline bridges used to cross the Dominguez Channel, Los Angeles River, and Compton Creek. The Project would utilize 11.5 miles of existing pipeline, and the 0.5-mile of new pipeline would be constructed underground. Therefore, the pipeline would not divide an established community.

b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact. The proposed pipeline route primarily extends within established utility routes utilizing private corridors and public roadways, and all areas of construction are zoned for industrial uses. The pipeline is consistent with the zoning and existing land uses in the area. Construction and operation of the pipeline would not conflict with general plan designation, zoning, or conservation plans. Therefore, the pipeline would have no impact on any land use plan.

3.12 Mineral Resources

- a) Would the project result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?
- b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

No Impact. The project would not result in the loss of availability of any mineral resources. Therefore, the project would have no impact on mineral resources.

3.13 Noise

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less Than Significant. Construction is expected to occur for approximately 20 weeks for the 0.5-mile of new pipeline construction and Carson Tie-In. Construction is expected to occur for approximately 8 weeks for the Paramount Facility Connection as well as the ASV sites and pipeline connections at Dominguez Station and South Street. In order to reduce construction related noise,

construction would mainly take place during daylight hours. The industrial zoning of all construction areas would allow for nighttime construction; however, it would be minimal. To further reduce noise, equipment engine covers shall be in place and mufflers shall be in good working condition. The federal Noise and Land Compatibility Matrix adopted by the City of Carson's General Plan considers noise ranging from 50-70 dB to be acceptable for industrial and manufacturing land uses, while 70-75 dB is considered conditionally acceptable. The construction area within the City of Long Beach for the pipeline connection is zoned primarily industrial and is not to exceed 65 dB. There are no sensitive receptors within 500 feet of any construction area. The pipeline should not produce any noise during normal operation; therefore, the project would generate no noise impacts during operation. Therefore, impacts regarding noise are expected to be less than significant.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

No Impact. Normal operation of the pipeline would not generate vibrations. Ground-born vibration and ground-born noise levels from construction activities are expected to be minimal. Some ground vibrations may be associated with trenching, and boring activities. The perception threshold for ground-born vibration is a velocity of 0.01 inches per second. The Federal Transit Administration's 2006 Noise and Vibration Manual lists the threshold distance in feet for various types of construction equipment. For example, the feet to threshold distance could range from 11 feet to 711 feet for a small bulldozer or a pile driver, respectively. The use of a pile driver is unlikely for the pipeline project's associated construction activities; the more likely range for the perceived vibration threshold would extend from 11 feet to 190 feet for a vibratory roller. There are no sensitive receptors within 500 feet of any construction area. Therefore, no impacts from ground vibrations are expected.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. None of the construction sites for the proposed pipeline project are located within an airport land use plan or within the vicinity of a private airstrip. However, one segment of the pipeline route, Segment 6 along Linden Avenue, is located approximately 1.8 miles from Long Beach Airport. Segment 6 is a segment of existing PPC pipeline that would not require construction activities for the Project. Therefore, the segment of pipe located within the vicinity of an airport land use plan is not expected to have any impacts on the nearby airport. Therefore, there would be no impacts associated with airports.

3.14 Population and Housing

- a) Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?
- b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. Construction and operation of the proposed pipeline project would not involve the relocation of individuals, impact housing or commercial facilities, or change the distribution of the population. The construction work force would be expected to come from the existing labor pool in the Southern California area. Operation of the pipeline would not affect population and housing. Since no population growth or reduction is expected to arise from the proposed project, the housing needs are not expected to change as well. Therefore, no impacts to housing and population are expected.

3.15 Public Services

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

No Impact. Both construction and operation of the proposed pipeline should have no impacts to public services. There would be no need for new or physically altered governmental facilities due to construction or operation of the pipeline. An increase in existing police or fire resources is not expected from either the construction activities or the operation of the pipeline system. It is not anticipated that the project would have any impact on schools, parks, or other public facilities other than traffic. Traffic impacts would be temporary and limited to the construction period. Therefore, the project would have no impact on public resources.

3.16 Recreation

- a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?
- b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

No Impact. All construction activities associated with the proposed project would be within roadway and utility rights-of-way and would not interfere with use of existing recreational facilities. The Project

does not include recreational facilities or their construction. In addition, the proposed project would not result in changes in population or population densities, which could impact recreational facilities. Therefore, no impacts to recreation would be expected.

3.17 Transportation

- a) Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities
- b) Would the project conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?

Less Than Significant. The pipeline route mostly utilizes private corridors and public roadways. The proposed pipeline route runs along the following roads:

- Sepulveda Boulevard;
- 223rd Street;
- Alameda Street;
- East Del Amo Boulevard;
- Linden Avenue;
- East Market Street;
- North Paramount Boulevard;
- South Street; and
- Downey Avenue

During operation of the pipeline, there would be no impact to transportation. Operation of the pipeline would not interfere or conflict with plans or policies regarding transit, roadway, bicycle, or pedestrian facilities. In addition, pipeline operation would not conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b). Through the utilization of the APCI pipeline, rather than trucks, for the delivery of hydrogen gas, vehicle miles traveled would be reduced, thereby reducing impacts to transportation. Construction of the pipeline would affect traffic flow and circulation in the project vicinity. During construction of the pipeline, no roadways would be closed to all through traffic. A traffic and circulation plan specific to the pipeline route would be prepared and implemented for the Project. Therefore, impacts to transportation would be less than significant.

c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less Than Significant with Mitigation. Construction trenches would not be left open, but would be fenced, backfilled, or covered with steel plates at the end of the workday. Emergency response

providers shall be notified regarding the schedule and duration of construction activities. As required, alternative routes for emergency vehicles shall be identified that may be used to avoid construction areas. Pedestrian and bicycle circulation would potentially be impacted if the construction team blocked or disrupted established sidewalks or bicycle routes. Although the Project route crosses the Los Angeles River Bicycle Path along East Del Amo Boulevard in the City of Carson, there would be no impact to the bicycle path. Where existing sidewalks or roadways would be obstructed by pipeline construction activities, alternative pedestrian and vehicle access routes shall be developed and marked accordingly. Therefore, the impacts of substantially increased hazards due to design features would be less than significant with mitigation.

d) Would the project result in inadequate emergency access?

Less Than Significant with Mitigation. Pipeline construction could potentially inhibit emergency response by paramedic, fire, ambulance, and police vehicles. Emergency response providers in the vicinity of construction sites would be given advance notice of construction locations, road closures, and possible alternate routes. Mitigation measures would also include the use of signs, traffic cones, and flaggers in accordance with the Manual of Uniform Traffic Control Devices. Therefore, the impact to emergency access would be less than significant with mitigation.

3.18 Tribal Cultural Resources

- a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or
 - ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

No Impact. The project would not cause a substantial adverse change in the significance of a tribal cultural resource. No historical or archaeological resources were identified along the proposed 0.5-mile pipeline in the City of Carson. Therefore, no impact to tribal cultural resources are expected.

3.19 Utilities and Service Systems

a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

- b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?
- c) Would the project result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

No Impact. Construction and operation of the proposed pipeline project would not result in the need for new facilities or service systems, or substantial alterations to existing systems. Potential damage to other underground utilities during construction would be mitigated through consultation with a regional notification center such as Underground Service Alert, including a notification 48 hours prior to excavation so that utilities in the project vicinity can be marked. Mitigation would also include coordination with owners of existing substructures, non-mechanical digging nearby known substructures, and extensive use of potholing. Increased demand on utilities or service systems during the limited construction period would be small. Water for dust suppression and hydrostatic testing would be purchased from the local water district. Operation of the pipeline would not require water supply and would not create any waste. Therefore, there would be no impact to utilities and services.

d) Would the project generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less Than Significant. The construction of the pipeline would generate construction waste materials including short sections of pipe, waste from welding and coating, asphalt, concrete, and rubble. The non-hazardous waste materials would be transported to a landfill or recycled as feasible. Therefore, the project may have a negative impact on landfill capacities. Mitigation against waste generated by the project would include pre-construction planning and implementing waste reduction measures to the greatest extent possible, and recycling of construction wastes such as metals and applicable non-hazardous wastes, as feasible. Any contaminated soil encountered during construction shall be addressed pursuant to local, state, and federal regulations and in consultation with appropriate landowners. The volumes of waste generated from pipeline construction would normally be small and there would be no waste generated during operation of the pipeline. Therefore, the impact on landfill capacity would be less than significant.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No Impact. The pipeline project would comply with all federal, state, and local statutes and regulations related to solid waste. Therefore, there would be no impact.

3.20 Wildfire

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones:

- a) Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?
- b) Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?
- c) Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?
- d) Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No Impact. The Project route would initiate in the City of Carson and would terminate in the City of Paramount, California. The proposed pipeline would traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower. The Project area is not located in or near state responsibility areas or lands classified as very high fire hazard severity zones. Therefore, impacts associated with wildfire risks are not expected.

3.21 Mandatory Findings of Significance

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

No Impact. The project does not have the potential to degrade the environment, or damage wildlife or plant species. As previously detailed in Section IV of this Environmental Checklist, the project would have no impact on biological resources.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Less Than Significant. Although impacts from the proposed project on air quality and human health were not found to be individually significant, these issue areas were found to have the following potential cumulative impacts based on information contained in this Initial Study:

Air Quality

The construction emissions from the hydrogen pipeline project would be below the SCAQMD significance threshold for construction activities as per section III b) of this checklist. The pipeline project would only result in air emissions during construction, so the emissions are only temporary. In addition, there are positive benefits attributed to the usage of reformulated fuels by mobile sources

which would be expected to outweigh some of the adverse impacts of other projects operating in the surrounding area, reducing the total cumulative impact on air quality to less than significant. Therefore, the cumulative impact on air quality from the hydrogen pipeline project is less than significant.

Human Health

The proposed hydrogen pipeline project and other cumulative projects are not expected to use large quantities of hazardous materials that would create a potential risk to public health and safety. When considered together, development of the proposed action and cumulative projects would not affect, interfere with, or alter the City's emergency evacuation routes. Therefore, the cumulative impact on human health of the hydrogen pipeline project is less than significant.

Therefore, the cumulative impacts of the hydrogen pipeline project would be less than significant.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Potentially Significant. The proposed pipeline would introduce a hazard to the route due to potential pipeline rupture (see Section IX of this Environmental Checklist). It should be emphasized that normal operation of the pipeline would not have any impact to human health, and that it is only in the unlikely event of an accidental pipeline rupture and release of hydrogen gas that there would be a possible risk to human health. Potential sources of pipeline failure include external impact (near construction projects, etc.), pipeline wall corrosion, or mechanical defects, among other issues.

The Applicant has developed modeling of potential releases from the proposed operations of the hydrogen pipeline. Impact distances from a rupture and subsequent fire would extend a maximum distance of 76 feet. Various design measures and safety features have been developed in order to help minimize the potential impacts associated with a potential pipeline rupture during operation; they are listed in detail in Section 1X b) of this checklist. These measures and features include a telemetry system to provide notification in the event of a rupture, monitoring of the differential between input and output pressures at all times, ASVs to limit the size and duration of a potential release, and the installation and maintenance of line marker posts and warning signs to help the public and other excavators identify the pipeline.

The pipeline could still fail and potentially impact the public despite the implementation of these safety measures and design features. Currently, the City of Carson does not have specific risk-based thresholds to determine the significance of an accidental hazardous material release and subsequent impact. An individual risk analysis has been prepared by the Applicant to address the potential individual risk levels. As per the screening risk approach in the Santa Barbara County thresholds, the individual risks would be less than significant. However, as the societal risk levels have not been examined, and, based on the results of the individual risk levels, the high density residential areas through which the pipeline would pass, the length of the pipeline and the number of schools located

along the route, the societal risk would most likely present significant risk levels and would therefore be potentially significant. Therefore, the Project has potentially significant impacts which could cause substantial adverse effects on human beings.

References

- Air Quality Impact Assessment (2019) for Carson Pipeline Project prepared for Air Products and Chemicals, Inc. by Trinity Consultants.
- Draft Initial Study (2009) for Torrance to El Segundo Hydrogen Pipeline prepared for Air Products and Chemicals, Inc. by Marine Research Specialists (MRS). For submittal to the City of Torrance.
- Pipeline Safety Technical Report (2019) for Carson to Paramount Hydrogen Pipeline Project prepared for Padre Associates, Inc. by EDM Services, Inc.
- Project Execution Plan (2019) for proposed Carson to Paramount Hydrogen Pipeline prepared for Air Products and Chemicals, Inc. by Padre Associates, Inc. For submittal to the City of Carson.
- Ultramar SEIR (1994) Environmental Audit, Inc. Ultramar Inc. Wilmington Refinery Reformulated Fuels Program, Final Subsequent Environmental Impact Report. Prepared for South Coast Air Quality Management District, SCH No. 92111042, August 1994.

June 18, 2020

Max Castillo
City of Carson
Community Development
701 East Carson Street
Carson, CA 90745
MCastillo@carson.ca.us

Subject: Comments on the Notice of Preparation of a Draft focused Environmental

Impact Report for Carson to Paramount Hydrogen Gas Pipeline, SCH

#2020059038, Los Angeles County

Dear Mr. Castillo:

The California Department of Fish and Wildlife (CDFW) has reviewed the above-referenced Notice of Preparation (NOP) of a Draft focused Environmental Impact Report (DEIR) for Carson to Paramount Hydrogen Gas Pipeline (Project).

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW's Role

CDFW is California's Trustee Agency for fish and wildlife resources and holds those resources in trust by statute for all the people of the State [Fish & G. Code, §§ 711.7, subdivision (a) & 1802; Pub. Resources Code, § 21070; California Environmental Quality Act (CEQA) Guidelines, § 15386, subdivision (a)]. CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (Id., § 1802). Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect state fish and wildlife resources.

CDFW is also submitting comments as a Responsible Agency under CEQA (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code, including lake and streambed alteration regulatory authority (Fish & G. Code, § 1600 et seq.). Likewise, to the extent implementation of the Project as proposed may result in "take" (see Fish & G. Code, § 2050) of any species protected under the California Endangered Species Act (CESA; Fish & G. Code, § 2050 et seq.) or the Native Plant Protection Act (NPPA; Fish & G. Code, §1900 et seq.), CDFW recommends the Project proponent obtain appropriate authorization under the Fish and Game Code.

Project Description/Objectives: The Project proponent proposes to utilize an existing 11.5-mile-long series of pipelines plus construct a new 0.5-mile pipeline segment to connect from the Air Products' existing hydrogen facility in the City of Carson to the World Energy Bio-fuels Facility in the City of Paramount, California. Two new pipe connections would be required to connect segments of existing pipelines together along the 11.5-mile length. Air Products would also remove or replace existing manual valves and add an automatic shut-off valve (ASV) at one location along the pipeline route.

Project Location: The Project route would initiate in the City of Carson at an existing Air Products and Chemicals, Inc. hydrogen facility, located at 23300 S. Alameda St., to construct 0.5 miles of new pipeline to connect to existing pipeline on Sepulveda Boulevard. Connection of two existing pipelines would take place on Paramount Blvd. The route would terminate in the City of Paramount, at the World Energy Bio-Fuels Facility, 14700 Downey Ave. The proposed pipeline would traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower.

COMMENTS AND RECOMMENDATIONS

CDFW offers the following comments and recommendations to assist the City of Carson (City) in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources.

Specific Comments

- <u>Lake and Streambed Alteration Agreement (LSA)</u>: The Notice of Preparation states, "The proposed pipeline would utilize existing pipe bridges to cross the three bodies of water intersected by the route: the Dominguez Channel, Compton Creek, and the Los Angeles River."
 - a) As a Responsible Agency under CEQA, CDFW has authority over activities in streams and/or lakes that will divert or obstruct the natural flow; or change the bed, channel, or bank (including vegetation associated with the stream or lake) of a river or stream; or use material from a streambed. This would include any construction activity that would involve temporary work in the bed, bank, or channel of a stream. For any such activities, the Project applicant (or "entity") must provide written notification to CDFW pursuant to section 1600 et seq. of the Fish and Game Code. Based on this notification and other information, CDFW determines whether an LSA Agreement (Agreement) with the applicant is required prior to conducting the proposed activities. CDFW's issuance of an Agreement for a Project that is subject to CEQA will require related environmental compliance actions by CDFW as a Responsible Agency. As a Responsible Agency, CDFW may consider the CEQA document prepared by the local jurisdiction (Lead Agency) for the Project. To minimize additional requirements by CDFW pursuant to section 1600 et seg. and/or under CEQA, the DEIR should fully identify the potential impacts to the stream or riparian resources and provide adequate avoidance, mitigation, monitoring and reporting commitments for issuance of the LSA (available at www.wildlife.ca.gov/habcon/1600).
 - b) The Project area is located in areas that may support aquatic, riparian, and/or wetland habitats; therefore, CDFW recommends an investigation of the site for

possible surface drainages in the surrounding areas that may feed into these creeks or channels. A preliminary jurisdictional delineation of the streams and their associated riparian habitats should be included in the DEIR. The delineation should be conducted pursuant to the U. S. Fish and Wildlife Service (USFWS) wetland definition adopted by the CDFW (Cowardin et al. 1970). Some wetland and riparian habitats subject to CDFW's authority may extend beyond the jurisdictional limits of the U.S. Army Corps of Engineers' section 404 permit and Regional Water Quality Control Board section 401 Certification.

- c) In areas of the Project site which may support ephemeral streams, herbaceous vegetation, woody vegetation, and woodlands also serve to protect the integrity of ephemeral channels and help maintain natural sedimentation processes; therefore, CDFW recommends effective setbacks be established to maintain appropriately-sized vegetated buffer areas adjoining ephemeral drainages.
- d) Project-related changes in upstream and downstream drainage patterns, runoff, and sedimentation should be included and evaluated in the DEIR.
- e) As part of the LSA Notification process, CDFW requests the 100, 50, 25, 10, 5, and 2-year frequency storm event for existing and proposed conditions. CDFW recommends the DEIR evaluate the results and address avoidance, minimization, and/or mitigation measures that may be necessary to reduce potential significant impacts.
- 2) Nesting Birds. As stated in the Initial Study, the Project site goes through several cities with industrial, commercial, and residential land uses. Aerial photography indicates there are areas of ornamental vegetation and trees along the pipeline route. This vegetation may provide potential nesting habitat where Project activities may impact nesting birds. Project activities occurring during the breeding season of nesting birds could result in the incidental loss of fertile eggs, or nestlings, or otherwise lead to nest abandonment in trees directly adjacent to the Project boundary. The Project could also lead to the loss of foraging habitat for sensitive bird species.
 - a) CDFW recommends that measures be taken to avoid Project impacts to nesting birds. Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (Code of Federal Regulations, Title 50, § 10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA).
 - b) Proposed Project activities including (but not limited to) staging and disturbances to native and nonnative vegetation, structures, and substrates should occur outside of the avian breeding season which generally runs from February 15 through August 31 (as early as January 1 for some raptors) to avoid take of birds or their eggs.
 - c) If avoidance of the avian breeding season is not feasible, CDFW recommends surveys by a qualified biologist with experience in conducting breeding bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300-feet of the disturbance area (within 500-feet for raptors and 0.5 a mile for special

status species). Project personnel, including all contractors working on site, should be instructed on the sensitivity of the area. Reductions in the nest buffer distance may be appropriate depending on the avian species involved, ambient levels of human activity, screening vegetation, or possibly other factors.

- 3) <u>Landscaping</u>. The Initial Study states, "Land stripped of vegetation would be replanted; pavement would be replaced, etc." Despite the lack of vegetation in the construction areas, the possibility of landscaping exists post-construction. Habitat loss and invasive plants are a leading cause of native biodiversity loss. Invasive plant species spread quickly and can displace native plants, prevent native plant growth, and create monocultures. CDFW recommends using native, locally appropriate plant species for landscaping on the Project site. CDFW recommends invasive/exotic plants, including pepper trees (*Schinus* genus) and fountain grasses (*Pennisetum* genus), be restricted from use in landscape plans for this Project. A list of invasive/exotic plants that should be avoided as well as suggestions for better landscape plants can be found at https://www.cal-ipc.org/solutions/prevention/landscaping/.
- 4) Wetland Resources. The Project site is in direct proximity to the Dominguez Gap Wetlands, which provides an ecosystem to local wildlife species. It is possible that Project related activities may disturb and adversely impact the function of this ecosystem. CDFW, as described in Fish and Game Code section 703(a), is guided by the Fish and Game Commission's policies. The Wetlands Resources policy (http://www.fgc.ca.gov/policy/) of the Fish and Game Commission "...seek[s] to provide for the protection, preservation, restoration, enhancement and expansion of wetland habitat in California. Further, it is the policy of the Fish and Game Commission to strongly discourage development in or conversion of wetlands. It opposes, consistent with its legal authority, any development or conversion that would result in a reduction of wetland acreage or wetland habitat values. To that end, the Commission opposes wetland development proposals unless, at a minimum, Project mitigation assures there will be 'no net loss' of either wetland habitat values or acreage. The Commission strongly prefers mitigation which would achieve expansion of wetland acreage and enhancement of wetland habitat values."
 - a) The Wetlands Resources policy provides a framework for maintaining wetland resources and establishes mitigation guidance. CDFW encourages avoidance of wetland resources as a primary mitigation measure and discourages the development or type conversion of wetlands to uplands. CDFW encourages activities that would avoid the reduction of wetland acreage, function, or habitat values. Once avoidance and minimization measures have been exhausted, the Project must include mitigation measures to assure a "no net loss" of either wetland habitat values, or acreage, for unavoidable impacts to wetland resources. Conversions include, but are not limited to, conversion to subsurface drains, placement of fill or building of structures within the wetland, and channelization or removal of materials from the streambed. All wetlands and watercourses, whether ephemeral, intermittent, or perennial, should be retained and provided with substantial setbacks, which preserve the riparian and aquatic values and functions for the benefit to on-site and off-site wildlife populations. CDFW recommends mitigation measures to compensate for unavoidable impacts be included in the DEIR and these measures should compensate for the loss of function and value.

- b) The Fish and Game Commission's Water policy guides CDFW on the quantity and quality of the waters of this state that should be apportioned and maintained respectively so as to produce and sustain maximum numbers of fish and wildlife; to provide maximum protection and enhancement of fish and wildlife and their habitat; encourage and support programs to maintain or restore a high quality of the waters of this state; prevent the degradation thereof caused by pollution and contamination; and, endeavor to keep as much water as possible open and accessible to the public for the use and enjoyment of fish and wildlife. CDFW recommends avoidance of water practices and structures that use excessive amounts of water, and minimization of impacts that negatively affect water quality, to the extent feasible (Fish & G. Code, § 5650).
- 5) California Endangered Species Act (CESA). A review of the California Natural Diversity Database (CNDDB) indicates an occurrence of Lyon's pentachaeta (Pentachaeta lyonii), a CESA and federal Endangered Species Act (ESA) listed species, within a mile south of the Project vicinity. Measures, such as focused botanical surveys, should be taken to identify any CESA or ESA listed species that may be on or near the Project site and prevent impacts to such species. CDFW considers adverse impacts to a species protected by CESA to be significant without mitigation under CEQA. As to CESA, take of any endangered, threatened, candidate species, or State-listed rare plant species that results from the Project is prohibited, except as authorized by state law (Fish and G. Code, §§ 2080, 2085; Cal. Code Regs., tit. 14, §786.9). Consequently, if the Project, Project construction, or any Project-related activity during the life of the Project will result in take of a species designated as endangered or threatened, or a candidate for listing under CESA, CDFW recommends that the Project proponent seek appropriate take authorization under CESA prior to implementing the Project. Appropriate authorization from CDFW may include an Incidental Take Permit (ITP) or a consistency determination in certain circumstances, among other options [Fish & G. Code, §§ 2080.1, 2081, subds. (b) and (c)]. Early consultation is encouraged, as significant modification to a Project and mitigation measures may be required in order to obtain a CESA Permit. Revisions to the Fish and Game Code, effective January 1998, may require that CDFW issue a separate CEQA document for the issuance of an ITP unless the Project CEQA document addresses all Project impacts to CESA-listed species and specifies a mitigation monitoring and reporting program that will meet the requirements of an ITP. For these reasons, biological mitigation monitoring and reporting proposals should be of sufficient detail and resolution to satisfy the requirements for a CESA ITP.

General Comments

Despite the urban setting of the Project site, the Los Angeles River and its tributaries are known to support a variety of ecosystems that provide viable habitat to many aquatic and terrestrial species. Preventing the loss of function of these important ecosystems is imperative. The following comments should be addressed in the DEIR to reduce the significant impact the Project may have on the water bodies in and around the Project area.

1) <u>Biological Baseline Assessment</u>. CDFW recommends providing a complete assessment and impact analysis of the flora and fauna within and adjacent (approximately 500 feet if possible) to the Project area, with emphasis upon identifying endangered, threatened, sensitive, regionally and locally unique species, and sensitive habitats. Impact analysis will

aid in determining any direct, indirect, and cumulative biological impacts, as well as specific mitigation or avoidance measures necessary to offset those impacts, as referred in General Comment 2. CDFW recommends avoiding any sensitive natural communities found on or adjacent to the Project. CDFW also considers impacts to Species of Special Concern a significant direct and cumulative adverse effect without implementing appropriate avoid and/or mitigation measures. The DEIR should include the following information:

- a) Information on the regional setting that is critical to an assessment of environmental impacts, with special emphasis on resources that are rare or unique to the region [CEQA Guidelines, § 15125(c)]. The DEIR should include measures to fully avoid and otherwise protect Sensitive Natural Communities from Project-related impacts. Project implementation may result in impacts to rare or endangered plants or plant communities that have been recorded adjacent to the Project vicinity. CDFW considers these communities as threatened habitats having both regional and local significance. Plant communities, alliances, and associations with a state-wide ranking of S1, S2, S3 and S4 should be considered sensitive and declining at the local and regional level. These ranks can be obtained by visiting https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities#sensitive%20natural%20communities;
- A thorough, recent, floristic-based assessment of special status plants and natural communities, following CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (see https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18959&inline);
- c) Floristic, alliance- and/or association-based mapping and vegetation impact assessments conducted at the Project site and within the neighboring vicinity. The Manual of California Vegetation, second edition, should also be used to inform this mapping and assessment (Sawyer, 2008). Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions;
- d) A complete, recent, assessment of the biological resources associated with each habitat type on site and within adjacent areas that could also be affected by the Project. CDFW's CNDDB in Sacramento should be contacted to obtain current information on any previously reported sensitive species and habitat. CDFW recommends that CNDDB Field Survey Forms be completed and submitted to CNDDB to document survey results. Online forms can be obtained and submitted at http://www.dfg.ca.gov/biogeodata/cnddb/submitting_data_to_cnddb.asp;
- e) A complete, recent, assessment of rare, threatened, and endangered, and other sensitive species on site and within the area of potential effect, including California Species of Special Concern and California Fully Protected Species (Fish & G. Code, §§ 3511, 4700, 5050 and 5515). Species to be addressed should include all those which meet the CEQA definition of endangered, rare or threatened species (CEQA Guidelines, § 15380). Seasonal variations in use of the Project area should also be addressed. Focused species-specific surveys, conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable,

- are required. Acceptable species-specific survey procedures should be developed in consultation with CDFW and the USFWS; and,
- f) A recent, wildlife and rare plant survey. CDFW generally considers biological field assessments for wildlife to be valid for a one-year period, and assessments for rare plants may be considered valid for a period of up to three years. Some aspects of the proposed Project may warrant periodic updated surveys for certain sensitive taxa, particularly if build out could occur over a protracted time frame, or in phases.
- 2) <u>Biological Direct, Indirect, and Cumulative Impacts</u>. CDFW recommends providing a thorough discussion of direct, indirect, and cumulative impacts expected to adversely affect biological resources, with specific measures to offset such impacts. The following should be addressed in the DEIR:
 - a) A discussion regarding indirect Project impacts on biological resources, including resources in nearby public lands, open space, adjacent natural habitats, riparian ecosystems, and any designated and/or proposed or existing reserve lands (e.g., preserve lands associated with a Natural Community Conservation Plan (NCCP, Fish & G. Code, § 2800 et. seq.). Impacts on, and maintenance of, wildlife corridor/movement areas, including access to undisturbed habitats in adjacent areas, should be fully evaluated in the DEIR;
 - b) A discussion of potential adverse impacts from lighting, noise, human activity, and exotic species and identification of any mitigation measures;
 - c) A discussion on any potential Project-related changes on drainage patterns and downstream of the Project site; the volume, velocity, and frequency of existing and post-Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and, post-Project fate of runoff from the Project site. The discussion should also address the proximity of the extraction activities to the water table, whether dewatering would be necessary and the potential resulting impacts on the habitat (if any) supported by the groundwater. Mitigation measures proposed to alleviate such Project impacts should be included:
 - d) An analysis of impacts from land use designations and zoning located nearby or adjacent to natural areas that may inadvertently contribute to wildlife-human interactions. A discussion of possible conflicts and mitigation measures to reduce these conflicts should be included in the DEIR; and,
 - e) A cumulative effects analysis, as described under CEQA Guidelines section 15130. General and specific plans, as well as past, present, and anticipated future projects, should be analyzed relative to their impacts on similar plant communities and wildlife habitats.
- 3) <u>Project Description and Alternatives</u>. To enable CDFW to adequately review and comment on the proposed Project from the standpoint of the protection of plants, fish, and wildlife, we recommend the following information be included in the DEIR:

- a) A complete discussion of the purpose and need for, and description of, the proposed Project, including all staging areas and access routes to the construction and staging areas; and,
- b) A range of feasible alternatives to Project component location and design features to ensure that alternatives to the proposed Project are fully considered and evaluated. The alternatives should avoid or otherwise minimize direct and indirect impacts to sensitive biological resources and wildlife movement areas.
- 4) Translocation/Salvage of Plants and Animal Species. Translocation and transplantation is the process of moving an individual from the Project site and permanently moving it to a new location. CDFW generally does not support the use of, translocation or transplantation as the primary mitigation strategy for unavoidable impacts to rare, threatened, or endangered plant or animal species. Studies have shown that these efforts are experimental and the outcome unreliable. CDFW has found that permanent preservation and management of habitat capable of supporting these species is often a more effective long-term strategy for conserving sensitive plants and animals and their habitats.
- 5) Moving out of Harm's Way. To avoid direct mortality, we recommend that a qualified biological monitor approved by CDFW be on-site prior to and during ground and habitat disturbing activities to move out of harm's way any special status species or other wildlife of low mobility that would be injured or killed by grubbing or Project-related construction activities. It should be noted that the temporary relocation of on-site wildlife does not constitute effective mitigation for the purposes of offsetting Project impacts associated with habitat loss. If the Project requires species to be removed, disturbed, or otherwise handled, we recommend that the DEIR clearly identify that the designated entity should obtain all appropriate state and federal permits.

CONCLUSION

CDFW appreciates the opportunity to comment on the NOP to assist the City of Carson in identifying and mitigating Project impacts on biological resources. If you have any questions or comments regarding this letter, please contact Felicia Silva, Environmental Scientist, at (562) 430-0098 or by email at Felicia.Silva@wildlife.ca.gov.

Sincerely,

—Docusigned by: Frinn Wilson

B6E58CFE24724F5... Erinn Wilson

Environmental Program Manager I

ec: CDFW

Victoria Tang – Los Alamitos Andrew Valand – Los Alamitos Frederic Rieman – Los Alamitos Felicia Silva – Los Alamitos Malinda Santonil – Los Alamitos Susan Howell – San Diego CEQA Program Coordinator – Sacramento

State Clearinghouse

References

Cowardin, Lewis M., et al. 1970. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service.

Sawyer, J. O., Keeler-Wolf, T., and Evens J.M. 2008. A manual of California Vegetation, 2nd ed. ISBN 978-0-943460-49-9.

DEPARTMENT OF TRANSPORTATION

DISTRICT 7 – Office of Regional Planning 100 S. MAIN STREET, MS 16 LOS ANGELES, CA 90012 PHONE (213) 897-9140 FAX (213) 897-1337 TTY 711 www.dot.ca.gov



June 22, 2020

Max Castillo
City of Carson Community Development Department,
Division of Planning
701 E. Carson Street
Carson, CA 90745

RE: Carson to Paramount Hydrogen Pipeline Project – Notice of Preparation (NOP) SCH # 2020059038 GTS # 07-LA-2020-03272 Vic. LA-103/PM: 1.752 – LA-405/PM: 8.952

Dear Max Castillo:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for this Notice of Preparation (NOP). Air Products proposes to construct a new 0.5 mile pipeline segment within the City of Carson and connect this newly constructed segment with 11.5 miles of existing pipeline to provide hydrogen distribution from its existing hydrogen production facilities located in Wilmington and Carson. Air Products proposes to use this pipeline to connect Air Products with a new customer in the City of Paramount, who uses hydrogen to produce renewable biofuels (biodiesel and biojet).

After reviewing the NOP, Caltrans does not expect project approval to result in a direct adverse impact to the existing State transportation facilities.

As a reminder, any transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State highways will need a Caltrans transportation permit. We recommend large size truck trips be limited to off-peak commute periods.

If you have any questions, please contact Reece Allen, the project coordinator, at reece.allen@dot.ca.gov, and refer to GTS # 07-LA-2020-03272

Sincerely,

MIYA ÉDMONSON IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse

One Gateway Plaza Los Angeles, CA 90012-2952 213.922.2000 Tel metro.net



June 19, 2020

Max Castillo
Community Development Department
City of Carson
701 East Carson Street
Carson, CA 90745
Sent by Email: mcastillo@carson.ca.us

RE: Carson to Paramount Hydrogen Gas Pipeline

Notice of Preparation of a Draft Focused Environmental Impact Report (EIR)

Dear Mr. Castillo:

Thank you for coordinating with the Los Angeles County Metropolitan Transportation Authority (Metro) regarding the proposed Carson to Paramount Hydrogen Gas Pipeline (Project) in the City of Carson (City). The purpose of this letter is to provide the City with advisory comments regarding the Project's potential impacts on Metro's West Santa Ana Branch Corridor which should be analyzed in the EIR.

Project Description

The Project involves the construction of 0.5 miles of new pipeline within the City of Carson that will connect with 11.5 miles of existing Air Products pipeline, enabling Air Products to provide an efficient means of hydrogen gas distribution from its existing hydrogen production facilities located in Wilmington and Carson to its customers within Southern California. The construction method that would be used for the new pipeline is trenching.

Comments

Metro West Santa Ana Branch Transit Corridor Project Adjacency

Metro is evaluating a potential 19 mile new light rail transit line connecting southeast Los Angeles County to downtown Los Angeles utilizing a combination of abandoned Pacific Electric Right-of-Way (PEROW) and freight ROW. The Project's Line 12 Crude 244, Segment 1 alignment intersects the potential WSAB ROW near the tie-in location at Paramount Refinery. As such, Metro strongly recommends that further Project design and construction plans be closely coordinated with Metro's WSAB team. Please see the project website at www.metro.net/wsab.

Carson to Paramount Hydrogen Gas Pipeline DEIR – Metro Comments June 19, 2020

If you have any questions regarding this letter, please contact me by phone at 213-922-2671, by email at DevReview@metro.net, or by mail at the following address:

> Metro Development Review One Gateway Plaza MS 99-22-1 Los Angeles, CA 90012-2952

Sincerely,

Shine Ling, AICP Manager, Transit Oriented Communities



CHAIRPERSON

Laura Miranda

Luiseño

VICE CHAIRPERSON Reginald Pagaling Chumash

SECRETARY

Merri Lopez-Keifer

Luiseño

Parliamentarian Russell Attebery Karuk

COMMISSIONER

Marshall McKay

Wintun

COMMISSIONER
William Mungary
Paiute/White Mountain
Apache

COMMISSIONER
Julie TumamaitStenslie
Chumash

COMMISSIONER [Vacant]

COMMISSIONER [Vacant]

EXECUTIVE SECRETARY

Christina Snider

Pomo

NAHC HEADQUARTERS 1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 nahc@nahc.ca.gov NAHC.ca.gov

NATIVE AMERICAN HERITAGE COMMISSION

May 27, 2020

Max Castillo, Assistant Planner City of Carson Community Development Department, Planning Division 701 East Carson Street Carson, CA 90745

Re: 2020059038, Carson to Paramount Hydrogen Pipeline Project, Los Angeles County

Dear Mr. Castillo:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015. If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). Both SB 18 and AB 52 have tribal consultation requirements. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of <u>portions</u> of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

Page 1 of 5

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

- 1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
 - a. A brief description of the project.
 - b. The lead agency contact information.
 - **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
 - **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).
- 2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).
 - **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).
- **3.** <u>Mandatory Topics of Consultation If Requested by a Tribe</u>: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
 - a. Alternatives to the project.
 - b. Recommended mitigation measures.
 - c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).
- 4. <u>Discretionary Topics of Consultation</u>: The following topics are discretionary topics of consultation:
 - a. Type of environmental review necessary.
 - **b.** Significance of the tribal cultural resources.
 - c. Significance of the project's impacts on tribal cultural resources.
 - **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).
- 5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).
- **6.** <u>Discussion of Impacts to Tribal Cultural Resources in the Environmental Document:</u> If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
 - a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
 - **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

- 7. <u>Conclusion of Consultation</u>: Consultation with a tribe shall be considered concluded when either of the following occurs:
 - **a.** The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - **b.** A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).
- 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).
- 9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).
- **10.** Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
 - a. Avoidance and preservation of the resources in place, including, but not limited to:
 - i. Planning and construction to avoid the resources and protect the cultural and natural context.
 - **ii.** Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - **b.** Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i. Protecting the cultural character and integrity of the resource.
 - ii. Protecting the traditional use of the resource.
 - iii. Protecting the confidentiality of the resource.
 - **c.** Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).
 - e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
 - **f.** Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).
- 11. <u>Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource</u>: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
 - **a.** The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
 - **b.** The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - **c.** The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09 14 05 Updated Guidelines 922.pdf.

Some of SB 18's provisions include:

- 1. <u>Tribal Consultation</u>: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe. (Gov. Code §65352.3 (a)(2)).
- 2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
- 3. <u>Confidentiality</u>: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
- 4. <u>Conclusion of SB 18 Tribal Consultation</u>: Consultation should be concluded at the point in which:
 - **a.** The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - **b.** Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

- 1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - **a.** If part or all of the APE has been previously surveyed for cultural resources.
 - **b.** If any known cultural resources have already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
- 2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - **a.** The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - **b.** The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

Page 4 of 5

3. Contact the NAHC for:

- **a.** A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
- **b.** A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
- **4.** Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
 - **a.** Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - **b.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - **c.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green Staff Services Analyst

cc: State Clearinghouse

Indrew Green.

SENT VIA E-MAIL: July 21, 2020

MCastillo@carson.ca.us
Max Castillo, Assistant Planner
City of Carson, Community Development Department
701 East Carson Street
Carson, CA 90745

Notice of Preparation of a Draft Focused Environmental Impact Report for the Carson to Paramount Hydrogen Gas Pipeline (Proposed Project)

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. The Notice of Preparation and Initial Study (NOP/IS) for the Proposed Project was circulated for a 30-day public review and comment period from May 19, 2020 to June 19, 2020. South Coast AQMD staff became aware of the NOP/IS on July 14, 2020. Because South Coast AQMD staff did not receive the NOP/IS for review before the end of the comment period, these comments are being provided outside of the comment period.

As a CEQA Responsible Agency, South Coast AQMD will be replying on this CEQA document to issue the permit applications directly related to the Proposed Project; therefore, staff's comments regarding the analysis of potential air quality impacts from the Proposed Project should be included in the Draft Focused Environmental Impact Report (FEIR). Please send a copy of the Draft FEIR upon its completion and public release directly to South Coast AQMD at the address shown in the letterhead. Note that copies of the Draft FEIR that are submitted to the State Clearinghouse are not forwarded to South Coast AQMD. In addition, please send with the Draft FEIR all appendices or technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files¹. These include emission calculation spreadsheets and modeling input and output files (not PDF files). Without all files and supporting documentation, South Coast AQMD staff will be unable to complete our review of the air quality analyses in a timely manner. Any delays in providing all supporting documentation will require additional time for review beyond the end of the comment period.

Responsible Agency and South Coast AQMD Permits

South Coast AQMD received three permit applications related to the Air Products Hydrogen Plant (South Coast AQMD Facility ID No.: 003417). The permit applications are for flare permit modifications, flare monitoring and recording plan amendment, and the Air Products Hydrogen Plant Title V and RECLAIM facility permit revision and are related to or as a result of implementation of the Proposed Project. The permit applications are to allow for modifications to the existing stream methane reforming plant's clean service flare to construct new header tie-in points and associated piping and valving for the two proposed emergency hydrogen reliefs associated with the Proposed Project. The Lead Agency should identify South Coast AQMD as a Responsible Agency for the Proposed Project in the Draft FEIR (CEQA Guidelines Section 15381). It is important to note that the assumptions in the air quality analysis in the Final FEIR will be used as the basis

¹ Pursuant to the CEQA Guidelines Section 15174, the information contained in an EIR shall include summarized technical data, maps, plot plans, diagrams, and similar relevant information sufficient to permit full assessment of significant environmental impacts by reviewing agencies and members of the public. Placement of highly technical and specialized analysis and data in the body of an EIR should be avoided through inclusion of supporting information and analyses as appendices to the main body of the EIR. Appendices to the EIR may be prepared in volumes separate from the basic EIR document, but shall be readily available for public examination and shall be submitted to all clearinghouses which assist in public review.

for evaluating the permits under CEQA and imposing permit conditions and limits. In order to ensure that impacts from the permits related to the Proposed Project are fully disclosed and adequately evaluated as required under CEQA Guidelines Section 15096(b), the Lead Agency should initiate consultation with South Coast AQMD by contacting Jillian Wong, Ph.D., Planning and Rules Manager, at jwong1@aqmd.gov and Bhaskar Chandan, P.E., Senior Air Quality Engineering Manager, at bchandan@aqmd.gov.

CEQA Air Quality Analysis

South Coast AQMD adopted its CEQA Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The Lead Agency should use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from South Coast AQMD's Subscription Services Department by calling (909) 396-3720. More guidance developed since this Handbook is also available on South Coast AQMD's website at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993). The Lead Agency should use the CalEEMod land use emissions software, as appropriate. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

South Coast AQMD has developed both regional and localized significance thresholds. The Lead Agency should quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds² and localized significance thresholds (LSTs)³ to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA operational thresholds to determine the level of significance.

If the Proposed Project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, the Lead Agency should perform a mobile source health risk assessment⁴. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

² South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found here: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

³ Guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

⁴ Guidance for performing a mobile source health risk assessment ("Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis") can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Health Perspective*, which can be found at: http://www.arb.ca.gov/ch/handbook.pdf. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. Guidance⁵ on strategies to reduce air pollution exposure near high-volume roadways can be found at: https://www.arb.ca.gov/ch/rd_technical_advisory_final.PDF.

Mitigation Measures

If the Proposed Project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize these impacts. Pursuant to CEQA Guidelines Section 15126.4(a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are available to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project, including:

- Chapter 11 "Mitigating the Impact of a Project" of South Coast AQMD'S *CEQA Air Quality Handbook* and South Coast AQMD's web pages available here:

 http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies
- South Coast AQMD's Rule 403 Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions and Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities
- South Coast AQMD's Mitigation Monitoring and Reporting Plan (MMRP) for the 2016 Air Quality Management Plan (2016 AQMP) available here (starting on page 86):
 http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf
- California Air Pollution Control Officers Association's (CAPCOA) Quantifying Greenhouse Gas
 Mitigation Measures available here:
 http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf

Data Sources

South Coast AQMD rules and relevant air quality reports and data are available by calling South Coast AQMD's Public Information Center at (909) 396-2001 or at South Coast AQMD's website at: http://www.aqmd.gov.

South Coast AQMD staff is available to work with the Lead Agency to ensure that project air quality and health risk impacts are accurately evaluated and mitigated to the extent feasible. If you have any questions regarding this letter, please contact me at lsun@aqmd.gov.

Sincerely,

Lijin Sun

Lijin Sun, J.D. Program Supervisor, CEQA IGR Planning, Rule Development & Area Sources

LAC200714-02 Control Number

⁵ In April 2017, CARB published a technical advisory, *Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways: Technical Advisory*, to supplement CARB's Air Quality and Land Use Handbook: A Community Health Perspective. This technical advisory is intended to provide information on strategies to reduce exposures to traffic emissions near high-volume roadways to assist land use planning and decision-making in order to protect public health and promote equity and environmental justice. The technical advisory is available at: https://www.arb.ca.gov/ch/landuse.htm.

Table 1 Location of Comment Discussion in DEIR

Commenting Agency	Comment	Location of Comment Discussion in DEIR
California Department of Fish and Wildlife	1) Lake and Streambed Alteration Agreement (LSA): The Notice of Preparation states, "The proposed pipeline would utilize existing pipe bridges to cross the three bodies of water intersected by the route: the Dominguez Channel, Compton Creek, and the Los Angeles River."	Section 4.7
California Department of Fish and Wildlife	a) As a Responsible Agency under CEQA, CDFW has authority over activities in streams and/or lakes that will divert or obstruct the natural flow; or change the bed, channel, or bank (including vegetation associated with the stream or lake) of a river or stream; or use material from a streambed. This would include any construction activity that would involve temporary work in the bed, bank, or channel of a stream. For any such activities, the Project applicant (or "entity") must provide written notification to CDFW pursuant to section 1600 et seq. of the Fish and Game Code. Based on this notification and other information, CDFW determines whether an LSA Agreement (Agreement) with the applicant is required prior to conducting the proposed activities. CDFW's issuance of an Agreement for a Project that is subject to CEQA will require related environmental compliance actions by CDFW as a Responsible Agency. As a Responsible Agency, CDFW may consider the CEQA document prepared by the local jurisdiction (Lead Agency) for the Project. To minimize additional requirements by CDFW pursuant to section 1600 et seq. and/or under CEQA, the DEIR should fully identify the potential impacts to the stream or riparian resources and provide adequate avoidance, mitigation, monitoring and reporting commitments for issuance of the LSA (available at www.wildlife.ca.qov/habcon/1600).	Section 4.7.3
California Department of Fish and Wildlife	b) The Project area is located in areas that may support aquatic, riparian, and/or wetland habitats; therefore, CDFW recommends an investigation of the site for possible surface drainages in the surrounding areas that may feed into these creeks or channels. A preliminary jurisdictional delineation of the streams and their associated riparian habitats should be included in the DEIR. The delineation should be conducted pursuant to the U. S. Fish and Wildlife Service (USFWS) wetland definition adopted by the CDFW (Cowardin et al. 1970). Some wetland and riparian habitats subject to CDFW's authority may extend beyond the jurisdictional limits of the U.S. Army Corps of Engineers' section 404 permit and Regional Water Quality Control Board section 401 Certification.	Section 4.7.3
California Department of Fish and Wildlife	c) In areas of the Project site which may support ephemeral streams, herbaceous vegetation, woody vegetation, and woodlands also serve to protect the integrity of ephemeral channels and help maintain natural sedimentation processes; therefore, CDFW recommends effective setbacks be established to maintain appropriately-sized vegetated buffer areas adjoining ephemeral drainages.	Section 4.7.3
California Department of Fish and Wildlife	d) Project-related changes in upstream and downstream drainage patterns, runoff, and sedimentation should be included and evaluated in the DEIR.	Section 4.7.9
California Department of Fish and Wildlife	e) As part of the LSA Notification process, CDFW requests the 100, 50, 25, 10, 5, and 2-year frequency storm event for existing and proposed conditions. CDFW recommends the DEIR evaluate the results and address avoidance, minimization, and/or mitigation measures that may be necessary to reduce potential significant impacts.	Section 4.7.9

Table 1 Location of Comment Discussion in DEIR

Commenting Agency	Comment	Location of Comment Discussion in DEIR
California Department of Fish and Wildlife	2) Nesting Birds. As stated in the Initial Study, the Project site goes through several cities with industrial, commercial, and residential land uses. Aerial photography indicates there are areas of ornamental vegetation and trees along the pipeline route. This vegetation may provide potential nesting habitat where Project activities may impact nesting birds. Project activities occurring during the breeding season of nesting birds could result in the incidental loss of fertile eggs, or nestlings, or otherwise lead to nest abandonment in trees directly adjacent to the Project boundary. The Project could also lead to the loss of foraging habitat for sensitive bird species.	Section 4.7.3
California Department of Fish and Wildlife	a) CDFW recommends that measures be taken to avoid Project impacts to nesting birds. Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (Code of Federal Regulations, Title 50, § 10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA).	Section 4.7.3
California Department of Fish and Wildlife	b) Proposed Project activities including (but not limited to) staging and disturbances to native and nonnative vegetation, structures, and substrates should occur outside of the avian breeding season which generally runs from February 15 through August 31 (as early as January 1 for some raptors) to avoid take of birds or their eggs.	Section 4.7.3
California Department of Fish and Wildlife	c) If avoidance of the avian breeding season is not feasible, CDFW recommends surveys by a qualified biologist with experience in conducting breeding bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300-feet of the disturbance area (within 500-feet for raptors and 0.5 a mile for special status species). Project personnel, including all contractors working on site, should be instructed on the sensitivity of the area. Reductions in the nest buffer distance may be appropriate depending on the avian species involved, ambient levels of human activity, screening vegetation, or possibly other factors.	Section 4.7.3
California Department of Fish and Wildlife	3) Landscaping. The Initial Study states, "Land stripped of vegetation would be replanted; pavement would be replaced, etc." Despite the lack of vegetation in the construction areas, the possibility of landscaping exists post-construction. Habitat loss and invasive plants are a leading cause of native biodiversity loss. Invasive plant species spread quickly and can displace native plants, prevent native plant growth, and create monocultures. CDFW recommends using native, locally appropriate plant species for landscaping on the Project site. CDFW recommends invasive/exotic plants, including pepper trees (Schinus genus) and fountain grasses (Pennisetum genus), be restricted from use in landscape plans for this Project. A list of invasive/exotic plants that should be avoided as well as suggestions for better landscape plants can be found at https://www.calipc.org/solutions/prevention/landscaping/.	Section 4.7.3
California Department of Fish and Wildlife	4) Wetland Resources. The Project site is in direct proximity to the Dominguez Gap Wetlands, which provides an ecosystem to local wildlife species. It is possible that Project related activities may disturb	Section 4.7.3

Table 1 Location of Comment Discussion in DEIR

Commenting Agency	Comment	Location of Comment Discussion in DEIR
	and adversely impact the function of this ecosystem. CDFW, as described in Fish and Game Code section 703(a), is guided by the Fish and Game Commission's policies. The Wetlands Resources policy (http://www.fgc.ca.gov/policy/) of the Fish and Game Commission "seek[s] to provide for the protection, preservation, restoration, enhancement and expansion of wetland habitat in California. Further, it is the policy of the Fish and Game Commission to strongly discourage development in or conversion of wetlands. It opposes, consistent with its legal authority, any development or conversion that would result in a reduction of wetland acreage or wetland habitat values. To that end, the Commission opposes wetland development proposals unless, at a minimum, Project mitigation assures there will be 'no net loss' of either wetland habitat values or acreage. The Commission strongly prefers mitigation which would achieve expansion of wetland acreage and enhancement of wetland habitat values."	
California Department of Fish and Wildlife	a) The Wetlands Resources policy provides a framework for maintaining wetland resources and establishes mitigation guidance. CDFW encourages avoidance of wetland resources as a primary mitigation measure and discourages the development or type conversion of wetlands to uplands. CDFW encourages activities that would avoid the reduction of wetland acreage, function, or habitat values. Once avoidance and minimization measures have been exhausted, the Project must include mitigation measures to assure a "no net loss" of either wetland habitat values, or acreage, for unavoidable impacts to wetland resources. Conversions include, but are not limited to, conversion to subsurface drains, placement of fill or building of structures within the wetland, and channelization or removal of materials from the streambed. All wetlands and watercourses, whether ephemeral, intermittent, or perennial, should be retained and provided with substantial setbacks, which preserve the riparian and aquatic values and functions for the benefit to on-site and offsite wildlife populations. CDFW recommends mitigation measures to compensate for unavoidable impacts be included in the DEIR and these measures should compensate for the loss of function and value.	Section 4.7.3
California Department of Fish and Wildlife	b) The Fish and Game Commission's Water policy guides CDFW on the quantity and quality of the waters of this state that should be apportioned and maintained respectively so as to produce and sustain maximum numbers of fish and wildlife; to provide maximum protection and enhancement of fish and wildlife and their habitat; encourage and support programs to maintain or restore a high quality of the waters of this state; prevent the degradation thereof caused by pollution and contamination; and, endeavor to keep as much water as possible open and accessible to the public for the use and enjoyment of fish and wildlife. CDFW recommends avoidance of water practices and structures that use excessive amounts of water, and minimization of impacts that negatively affect water quality, to the extent feasible (Fish & G. Code, § 5650).	Section 4.7.3
California Department of Fish and Wildlife	5) California Endangered Species Act (CESA). A review of the California Natural Diversity Database (CNDDB) indicates an occurrence of Lyon's pentachaeta (Pentachaeta Iyonii), a CESA and federal Endangered Species Act (ESA) listed species, within a mile south of the Project vicinity. Measures,	Section 4.7.3

Table 1 Location of Comment Discussion in DEIR

Commenting Agency	Comment	Location of Comment Discussion in DEIR
	such as focused botanical surveys, should be taken to identify any CESA or ESA listed species that may be on or near the Project site and prevent impacts to such species. CDFW considers adverse impacts to a species protected by CESA to be significant without mitigation under CEQA. As to CESA, take of any endangered, threatened, candidate species, or State-listed rare plant species that results from the Project is prohibited, except as authorized by state law (Fish and G. Code, §§ 2080, 2085; Cal. Code Regs., tit. 14, §786.9). Consequently, if the Project, Project construction, or any Project-related activity during the life of the Project will result in take of a species designated as endangered or threatened, or a candidate for listing under CESA, CDFW recommends that the Project proponent seek appropriate take authorization under CESA prior to implementing the Project. Appropriate authorization from CDFW may include an Incidental Take Permit (ITP) or a consistency determination in certain circumstances, among other options [Fish & G. Code, §§ 2080.1, 2081, subds. (b) and (c)]. Early consultation is encouraged, as significant modification to a Project and mitigation measures may be required in order to obtain a CESA Permit. Revisions to the Fish and Game Code, effective January 1998, may require that CDFW issue a separate CEQA document for the issuance of an ITP unless the Project CEQA document addresses all Project impacts to CESA-listed species and specifies a mitigation monitoring and reporting program that will meet the requirements of an ITP. For these reasons, biological mitigation monitoring and reporting proposals should be of sufficient detail and resolution to satisfy the requirements for a CESA ITP.	
California Department of Fish and Wildlife	1) Biological Baseline Assessment. CDFW recommends providing a complete assessment and impact analysis of the flora and fauna within and adjacent (approximately 500 feet if possible) to the Project area, with emphasis upon identifying endangered, threatened, sensitive, regionally and locally unique species, and sensitive habitats. Impact analysis will aid in determining any direct, indirect, and cumulative biological impacts, as well as specific mitigation or avoidance measures necessary to offset those impacts, as referred in General Comment 2. CDFW recommends avoiding any sensitive natural communities found on or adjacent to the Project. CDFW also considers impacts to Species of Special Concern a significant direct and cumulative adverse effect without implementing appropriate avoid and/or mitigation measures. The DEIR should include the following information:	Section 4.7.3
California Department of Fish and Wildlife	a) Information on the regional setting that is critical to an assessment of environmental impacts, with special emphasis on resources that are rare or unique to the region [CEQA Guidelines, § 15125(c)]. The DEIR should include measures to fully avoid and otherwise protect Sensitive Natural Communities from Project related impacts. Project implementation may result in impacts to rare or endangered plants or plant communities that have been recorded adjacent to the Project vicinity. CDFW considers these communities as threatened habitats having both regional and local significance. Plant communities, alliances, and associations with a state-wide ranking of S1, S2, S3 and S4 should be considered sensitive and declining at the local and regional level. These ranks can be obtained by	Section 4.7.3

Table 1 Location of Comment Discussion in DEIR

Commenting Agency	Comment	Location of Comment Discussion in DEIR
	visiting https://www.wildlife.ca.gov/Data/VegCAMP/NaturalCommunities#sensitive%20natural%20communities;	
California Department of Fish and Wildlife	b) A thorough, recent, floristic-based assessment of special status plants and natural communities, following CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (see https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID =18959&inline);	Section 4.7.3
California Department of Fish and Wildlife	c) Floristic, alliance- and/or association-based mapping and vegetation impact assessments conducted at the Project site and within the neighboring vicinity. The Manual of California Vegetation, second edition, should also be used to inform this mapping and assessment (Sawyer, 2008). Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions;	Section 4.7.3
California Department of Fish and Wildlife	d) A complete, recent, assessment of the biological resources associated with each habitat type on site and within adjacent areas that could also be affected by the Project. CDFW's CNDDB in Sacramento should be contacted to obtain current information on any previously reported sensitive species and habitat. CDFW recommends that CNDDB Field Survey Forms be completed and submitted to CNDDB to document survey results. Online forms can be obtained and submitted at http://www.dfg.ca.gov/biogeodata/cnddb/ submitting_data_to_cnddb.asp;	Section 4.7.3
California Department of Fish and Wildlife	e) A complete, recent, assessment of rare, threatened, and endangered, and other sensitive species on site and within the area of potential effect, including California Species of Special Concern and California Fully Protected Species (Fish & G. Code, §§ 3511, 4700, 5050 and 5515). Species to be addressed should include all those which meet the CEQA definition of endangered, rare, or threatened species (CEQA Guidelines, § 15380). Seasonal variations in use of the Project area should also be addressed. Focused species-specific surveys, conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with CDFW and the USFWS; and,	Section 4.7.3
California Department of Fish and Wildlife	f) A recent, wildlife and rare plant survey. CDFW generally considers biological field assessments for wildlife to be valid for a one-year period, and assessments for rare plants may be considered valid for a period of up to three years. Some aspects of the proposed Project may warrant periodic updated surveys for certain sensitive taxa, particularly if build out could occur over a protracted time frame, or in phases.	Section 4.7.3
California Department of Fish and Wildlife	2) Biological Direct, Indirect, and Cumulative Impacts. CDFW recommends providing a thorough discussion of direct, indirect, and cumulative impacts expected to adversely affect biological resources, with specific measures to offset such impacts. The following should be addressed in the DEIR:	Section 4.7.3
California Department of Fish and Wildlife	a) A discussion regarding indirect Project impacts on biological resources, including resources in nearby public lands, open space, adjacent natural habitats, riparian ecosystems, and any designated and/or proposed or existing reserve lands (e.g., preserve lands associated with a Natural Community	Section 4.7.3

Table 1 Location of Comment Discussion in DEIR

Commenting Agency	Comment	Location of Comment Discussion in DEIR
	Conservation Plan (NCCP, Fish & G. Code, § 2800 et. seq.). Impacts on, and maintenance of, wildlife corridor/movement areas, including access to undisturbed habitats in adjacent areas, should be fully evaluated in the DEIR;	
California Department of Fish and Wildlife	b) A discussion of potential adverse impacts from lighting, noise, human activity, and exotic species and identification of any mitigation measures;	Section 4.7
California Department of Fish and Wildlife	c) A discussion on any potential Project-related changes on drainage patterns and downstream of the Project site; the volume, velocity, and frequency of existing and post-Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and, post-Project fate of runoff from the Project site. The discussion should also address the proximity of the extraction activities to the water table, whether dewatering would be necessary and the potential resulting impacts on the habitat (if any) supported by the groundwater. Mitigation measures proposed to alleviate such Project impacts should be included;	Section 4.7.9
California Department of Fish and Wildlife	d) An analysis of impacts from land use designations and zoning located nearby or adjacent to natural areas that may inadvertently contribute to wildlife-human interactions. A discussion of possible conflicts and mitigation measures to reduce these conflicts should be included in the DEIR; and,	Section 4.4
California Department of Fish and Wildlife	e) A cumulative effects analysis, as described under CEQA Guidelines section 15130. General and specific plans, as well as past, present, and anticipated future projects, should be analyzed relative to their impacts on similar plant communities and wildlife habitats.	Section 3.0
California Department of Fish and Wildlife	3) Project Description and Alternatives. To enable CDFW to adequately review and comment on the proposed Project from the standpoint of the protection of plants, fish, and wildlife, we recommend the following information be included in the DEIR:	Section 2.0
California Department of Fish and Wildlife	a) A complete discussion of the purpose and need for, and description of, the proposed Project, including all staging areas and access routes to the construction and staging areas; and,	Section 2.0
California Department of Fish and Wildlife	b) A range of feasible alternatives to Project component location and design features to ensure that alternatives to the proposed Project are fully considered and evaluated. The alternatives should avoid or otherwise minimize direct and indirect impacts to sensitive biological resources and wildlife movement areas.	Section 2.0
California Department of Fish and Wildlife	4) Translocation/Salvage of Plants and Animal Species. Translocation and transplantation are the process of moving an individual from the Project site and permanently moving it to a new location. CDFW generally does not support the use of, translocation or transplantation as the primary mitigation strategy for unavoidable impacts to rare, threatened, or endangered plant or animal species. Studies have shown that these efforts are experimental and the outcome unreliable. CDFW has found that permanent preservation and management of habitat capable of supporting these species is often a more effective long-term strategy for conserving sensitive plants and animals and their habitats.	Section 4.7.3
California Department of Fish and Wildlife	5) Moving out of Harm's Way. To avoid direct mortality, we recommend that a qualified biological monitor approved by CDFW be on-site prior to and during ground and habitat disturbing activities to	Section 4.7.3

Table 1 Location of Comment Discussion in DEIR

Commenting Agency	Comment	Location of Comment Discussion in DEIR
	move out of harm's way any special status species or other wildlife of low mobility that would be injured or killed by grubbing or Project-related construction activities. It should be noted that the temporary relocation of on-site wildlife does not constitute effective mitigation for the purposes of offsetting Project impacts associated with habitat loss. If the Project requires species to be removed, disturbed, or otherwise handled, we recommend that the DEIR clearly identify that the designated entity should obtain all appropriate state and federal permits.	
California Department of Transportation	Any transportation of heavy construction equipment and/or materials which requires use of oversized-transport vehicles on State highways will need a Caltrans transportation permit. We recommend large size truck trips be limited to off-peak commute periods.	Section 4.5
Los Angeles County Metropolitan Transportation Authority	Metro is evaluating a potential 19-mile new light rail transit line connecting southeast Los Angeles County to downtown Los Angeles utilizing a combination of abandoned Pacific Electric Right-of-Way (PEROW) and freight ROW. The Project's Line 12 Crude 244, Segment 1 alignment intersects the potential WSAB ROW near the tie-in location at Paramount Refinery. As such, Metro strongly recommends that further Project design and construction plans be closely coordinated with Metro's WSAB team. Please see the project website at www.metro.net/wsab.	Section 3.0
Native American Heritage Commission	The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources.	Section 4.6
South Coast Air Quality Management District	The Lead Agency should identify South Coast AQMD as a Responsible Agency for the Proposed Project in the Draft FEIR (CEQA Guidelines Section 15381). It is important to note that the assumptions in the air quality analysis in the Final FEIR will be used as the basis for evaluating the permits under CEQA and imposing permit conditions and limits. In order to ensure that impacts from the permits related to the Proposed Project are fully disclosed and adequately evaluated as required under CEQA Guidelines Section 15096(b), the Lead Agency should initiate consultation with South Coast AQMD by contacting Jillian Wong, Ph.D., Planning and Rules Manager, at jwong1@aqmd.gov and Bhaskar Chandan, P.E., Senior Air Quality Engineering Manager, at bchandan@aqmd.gov.	Section 4.1
South Coast Air Quality Management District	South Coast AQMD adopted its CEQA Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The Lead Agency should use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from South Coast AQMD's Subscription Services Department by calling (909) 396-3720. More guidance developed since this Handbook is also available on South Coast AQMD's website at: http://www.aqmd.gov/home/regulations/ceqa/airquality-analysis-handbook/ceqa-air-quality-handbook-(1993). The Lead Agency should use the CalEEMod land use emissions software, as appropriate. This software has recently been updated to incorporate up-todate state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development.	Section 4.1

Table 1 Location of Comment Discussion in DEIR

Commenting Agency	Comment	Location of Comment Discussion in DEIR
	CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.	
South Coast Air Quality Management District	South Coast AQMD has developed both regional and localized significance thresholds. The Lead Agency should quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds2 and localized significance thresholds (LSTs)3 to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.	Section 4.1
South Coast Air Quality Management District	The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA operational thresholds to determine the level of significance.	Section 4.1
South Coast Air Quality Management District	If the Proposed Project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, the Lead Agency should perform a mobile source health risk assessment4. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.	Section 4.1