

07-LA-60 PM 0.28/R3.1
201.335
EA 28820K
EFIS 0700021023
August 2011

PROJECT STUDY REPORT

To

Request for Programming in the 2012 SHOPP

On Route 60

From Boyle Avenue Overcrossing

To Eastern Avenue Overcrossing

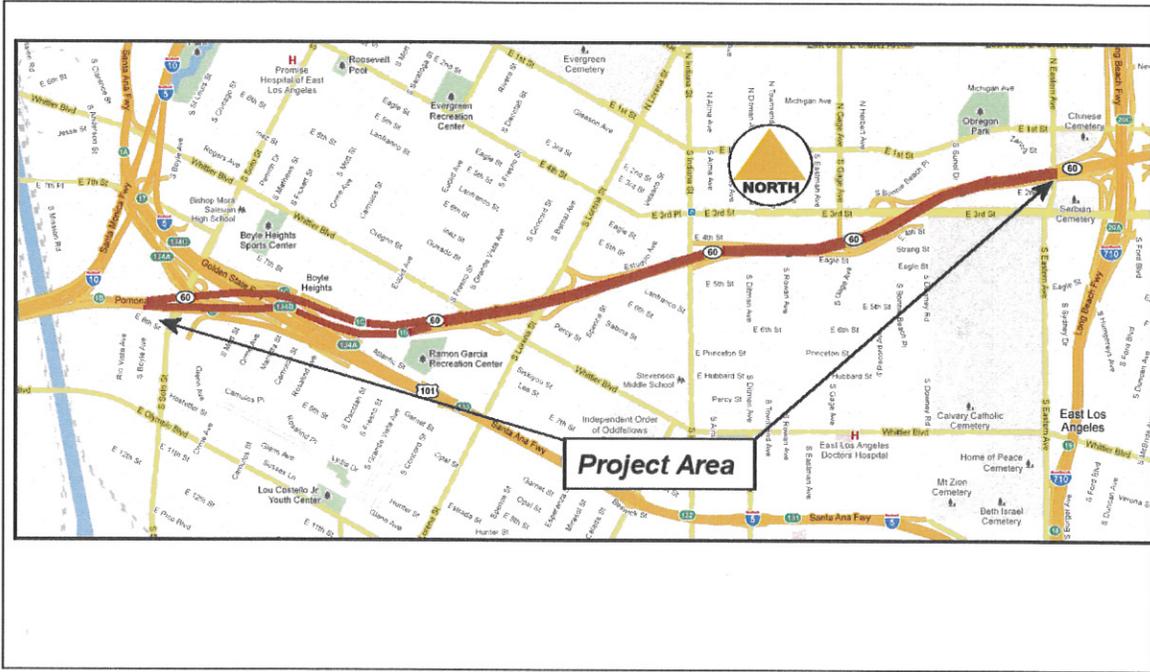
APPROVAL RECOMMENDED:

Steve Noury 8/29/11
FOR DENNIS SNYDER, PROJECT MANAGER

APPROVED:

Michael Miles 8/31/11
MICHAEL MILES, DISTRICT DIRECTOR DATE

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This Project Study Report has been prepared under the direction of the following licensed Landscape Architect. The licensed Landscape Architect attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.



JENNIFER TAIRA, LICENSED LANDSCAPE ARCHITECT

8-24-11

DATE



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1. INTRODUCTION

The Source Control project will stabilize the soil surface to control erosion on Route 60 beginning from Boyle Avenue overcrossing to Eastern Avenue overcrossing at PM 0.28 to R3.1 in the City of Los Angeles. Soil is eroding from slopes in many locations throughout the project limits, affecting water quality by increasing the amount of run-off, sediment and associated pollutants into the stormwater drain system and nearby receiving waters of the Los Angeles River. As confirmed in the Soil Resource Evaluation (SRE) project (RTA # 43A0073, Task Order 20) prepared for Caltrans in 2005, shallow slope failures (<1 foot deep) can be stabilized by root and soil development, providing lateral drainage with strength to hold soil. Successful revegetation will include remediation of soils and irrigation.

See the Cost estimate for specific work items included in this project.

Project Limits (Dist., Co., Rte., PM)	07-LA-60 PM 0.28/R3.1
Pollutants of Concern	Ammonia, Coliform, Lead, Copper, Nutrients(Algae), Oil, Trash
Estimate of Acres to be Treated	31 Acres
Number of Alternatives:	2
Alternative Recommended for Programming:	2
Proposed Capital Construction Costs	\$3,200,000
Proposal Capital Right of Way Costs:	\$0
Funding Source:	SHOPP
Type of Facility (conventional, expressway, freeway):	Freeway
Number of Structures:	None
Anticipated Environmental Determination/Document	Categorical Exemption (CE)
Legal Description	On Route 60 from Boyle Avenue Overcrossing to Eastern Avenue Overcrossing
Project Category	5

A project report will serve as approval of the “selected” alternative.

2. BACKGROUND

Much of the area on Route 60 within the project limits was landscaped more than 30 years ago; less than ten percent (10%) of this area has been replanted since then. The loss of trees and groundcover over the years has allowed an increased amount of erosion through the area. Because of the bare ground, erosion is on increase leading to the

formation of gullies and rills. Currently, there is no storm water treatments found within this area to catch the soil eroding off the slopes. This project will not create any new slopes. Minor temporary disturbance to the existing slopes is unavoidable during installation of the planting and irrigation system. A Minor B project (EA 3P4601) is currently in construction to re-plant and provide source control for about 10 acres adjacent to this project from Whittier Blvd. to Indiana Street.

The receiving water body is the Los Angeles River Reach 2 and the hydrologic sub area is 412.10 and on the 303(d) list of impaired water bodies on the 2006 list. There are three Total Maximum Daily Loads (TMDLs) within the Los Angeles River Watershed. The three TMDLs are The Los Angeles River Nitrogen Compounds and Related Effects TMDL, The Los Angeles River and Tributaries Metals TMDL, and The Los Angeles River Trash TMDL. There are no drinking water reservoirs and/or recharge facilities within the project limits. The project is located in an urban area where the average rainfall is 14.2 inches per year. The project will not discharge to unlined channels; will not increase the potential sediment load of downstream flow; and does not propose any hydraulic changes due to re-alignment, encroachment, grading, etc. This project will provide a benefit to the drainage system and receiving water body by reducing the amount of sediment and soluble pollutant runoff to the system.

3. PURPOSE AND NEED STATEMENT

Need:

The Statewide National Pollution Discharge Elimination System (NPDES) Permit (Order No 99-06-DWQ) requires Caltrans to maximize erosion control and soil stabilization. Section IIa requires identifying road segments with slopes that are prone to erosion and discharge of sediment and stabilize these slopes to the extent possible. Section IIb requires enhancement of the use of appropriate vegetation throughout Caltrans right of way for the purpose for preventing erosion and removing pollutants in storm water and non-storm water runoff.

Purpose:

The purpose of this project is to comply with the Statewide NPDES Permit requirement to fix slopes having chronic erosion problems.

4. DEFICIENCIES

Much of the area on Route 60 within the project limits was landscaped more than 30 years ago; less than ten percent (10%) of this area has been replanted since then. The loss of trees and groundcover over the years has allowed an increased amount of erosion through the area. Currently, there is no storm water treatments found within this area to catch the soil eroding off the slopes. In early 2010 a field inspection was completed with Ed Siribohdi, Landscape Maintenance and Jennifer Taira, Landscape Design to determine the project scope and feasibility for the 2012 SHOPP program. It was determined that the eroded slopes needed to be fixed using the 335 program. The recommendations to address these chronic eroded slopes can be found in Section 6 Alternatives of this document. After the field visit, it was later

determined between Ed Siribohdi, Jennifer Taira, Robert Wu, District 7 – 335 Program Advisor, and Dennis Snyder, Project Manager to propose this project into the 2012 SHOPP under the 335 program. Minor temporary disturbance to the existing slopes is unavoidable during installation of the planting and irrigation system.

5. CORRIDOR AND SYSTEM COORDINATION

The District has commissioned Corridor Storm-Water Management Studies from the consultant CH2MHill in response to a January 17, 2008 stipulation and court order to prepare corridor storm water management studies on District 7 drainage systems located within Los Angeles and Ventura counties. A corridor study for this route has been completed and approved on September 2010.

This project proposal conforms to the District System Management Plan and Route Concept Plan.

6. ALTERNATIVES

Alternative 1 is the no build alternative. In this alternative the slopes would not be improved and would continue to erode. Plant material will continue to decay causing further erosion and sediment washing into the drains. Slopes would not be stabilized as required in the Statewide NPDES permit.

Alternative 2 is the preferred alternative. The goal of the project is to improve the quality and reduce the quantity of storm water runoff from the Caltrans right of way using landscaping techniques. The total project limits include 31 acres of landscapeable right of way. This project proposes to adequately treat the bare soil to slow water run off into the existing drainage system thereby increasing infiltration and capturing sediment that contains several pollutants of concern.

Under this proposal, 1-gallon prostrate shrubs and cuttings and will be utilized as groundcover and should fill in within about a year. This is an economical method of quickly covering the ground plane and providing long-term permanent treatment. Prostrate plants will be used to cover large areas of the slopes. Cuttings, flats or liners will be used from the toe of slope upwards approximately 20 feet. Trees and mulch will also be utilized on the slopes. Mulch will be used in small areas unsuitable for planting. Studies have shown that trees help manage storm water flow by intercepting rainfall and slowing the velocity at which it impacts the soil and runs over the surface of the land thus increasing seepage into the soil. When trees, shrubs and ground covers are present, the flow of water is spread over a greater amount of time and the impact of storm water on the drainage facilities built to handle it at any one time is reduced. Trees are also natural pollution filters. Their canopies, trunks, roots, and associated soil and other natural elements of the landscape filter polluted particulate matter out of the flow toward the storm water drainage system. Reducing the flow of storm water reduces the amount of pollution that is washed into a drainage area. American Forests, the University of California at Davis, and the USDA Forest Service all have studies regarding rainfall interception through the use of trees.

Prior to any planting, removal of dead and dying brush is essential to the success of this project. This removal is necessary to achieve maximum coverage of plants on the slopes using the concept of planting for source control. Pruning of existing healthy plants will aid in promoting new growth and therefore help to achieve the goals of the project. Installation of new irrigation equipment is necessary to establish and maintain the plant material. Modernization of the irrigation system will help to make the State's facilities considerably easier to maintain and provide for efficient utilization of water resources. It is also recommended to pave some of the slopes under the bridges as plant material is not a suitable alternative in these locations. However, planting the bare slopes is the best and economical solution to treating bare and eroding slopes on this project.

All work will be done within Caltrans Right-of-Way. The project will require a three year plant establishment period.

7. COMMUNITY INVOLVEMENT

There are no additional requirements of the Regional Water Quality Control Board within the project limits at this time. The design will be compatible with the adjacent community and appropriate plant material will be used.

8. ENVIRONMENTAL DETERMINATION/DOCUMENT

Once the project has been programmed a Categorical Exempt (CE) document will be provided.

9. FUNDING

9A. CAPITAL COST

Capital Cost Estimate for the Alternative Identified for Programming in the 2012 SHOPP

Fiscal Year	Right of Way Capital	Construction Capital
2015	\$0	\$3,200,000
Total	\$0	\$3,200,000

**9B. CAPITAL SUPPORT ESTIMATE FOR THE PROGRAMMABLE
ALTERNATIVE IN THE 2012 SHOPP**

	PROJECT SUPPORT COMPONENTS								
	PA&ED 0 Phase		Design 1 Phase		Right of Way 2 Phase		Construction 3 Phase		Total
	Dist	DES	Dist	DES	Dist	DES	Dist	DES	
Estimated PY's	0.59	0	3.11	0.1	0	0	3.7	0	7.5
Estimated PS \$'s	107		559	25			666		1357
Estimated PYE \$'s (\$1000's)									0
Total \$'s	107	0	559	25	0	0	666	0	1357

10. SCHEDULE

HQ Milestones	Delivery Date (Month, Day, Year)
Begin Environmental	1/15/2013
PA & ED	9/15/2013
Project PS&E	9/1/2014
Right of Way Certification	11/15/2014
Ready to List	1/16/2015
Approve Contract	6/19/2015
Contract Acceptance	6/18/2019
End Project	12/18/2019

11. FHWA COORDINATION

No FHWA action is required for this project.

12. DISTRICT CONTACTS

Dennis Snyder, Project Manager	213-897-4299
Jennifer Taira, District Landscape Architect	213-897-0975
Gary Iverson, Senior Environmental Planner	213-897-3818
Ed Siribohdi, Senior Landscape Architect Maintenance Engineering	213-620-4746

13. PROJECT REVIEWS

Field Review	<u>David Morris</u>	Date <u>7/11/11</u>
District Maintenance	<u>Ed Siribohdi</u>	Date <u>8/5/11</u>
District NPDES Coordinator	<u>Shirley Pak</u>	Date <u>8/5/11</u>
District Quality Review	<u>See sign in sheet</u>	Date <u>8/16/11</u>

Project Manager Dennis Snyder Date 8/5/11

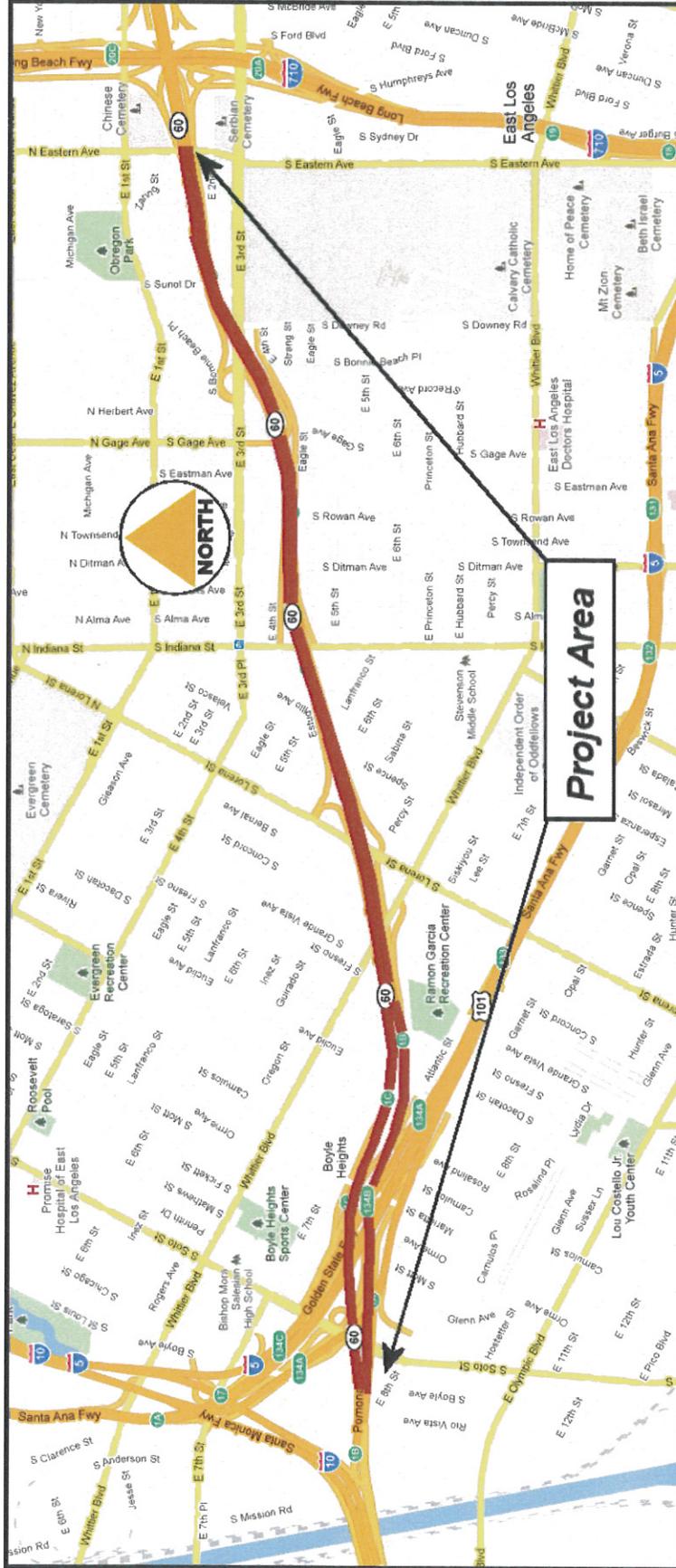
District SHOPP Program Advisor Steve Tran Date 8/5/11

HQ SHOPP Program Advisor Jagjiwan Grewal Date 8/4/11

14. ATTACHMENTS

- a) Vicinity Map
- b) Engineers Estimate
- c) Storm Water Data Report
- d) Project Development Team meeting sign in sheet
- e) TMP Data Sheet
- f) Preliminary Hazardous Waste Assessment

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**PROJECT STUDY REPORT (PSR) EA 28820K
STORM WATER MITIGATION (SOURCE CONTROL)**

ESTIMATE:

Item	Quantity	Unit Cost	Unit	Cost
Earthwork				
Soil removal/excavation	#cy _____	@ _____	/cy =	\$0
Grading	#sqyd _____	@ _____	/sqyd =	\$0
Import topsoil	#cy _____	@ _____	/cy =	\$0
Compost incorporation	#qyd _____	@ _____	/qyd =	\$0
Interceptor planting				
Road edge planting	#ac _____	@ _____	/ac =	\$0
Cuttings/flats	#ea 500,000	@ \$0.45	/ea =	\$225,000
Native grass sod	#sqyd _____	@ _____	/sqyd =	\$0
Shrubs	#ea 6000	@ \$15.00	/ea =	\$90,000
Trees	#ea 1500	@ \$80.00	/ea =	\$120,000
Irrigation	#ac 31	@ \$30,000.00	/ac =	\$930,000
Surface treatment & biofiltration				
Mulch	#cy 3000	@ \$50.00	/cy =	\$150,000
Compost blanket	#sqyd _____	@ _____	/sqyd =	\$0
Erosion control (drill seed)	#ac _____	@ _____	/ac =	\$0
Erosion control (Type C or Type D)	#ac _____	@ _____	/ac =	\$0
Biofiltration strips	#lf _____	@ _____	/lf =	\$0
Biofiltration swales	#lf _____	@ _____	/lf =	\$0
Course aggregate	#cy _____	@ _____	/cy =	\$0
Sand	#cy _____	@ _____	/cy =	\$0
Slope/Gore paving	#sqft 40000	@ \$8.00	/sqft =	\$320,000
Geotextile fabric	#sqyd _____	@ _____	/sqyd =	\$0
Drainage modification				
Drain inlets, catch basins	#ea _____	@ _____	/ea =	\$0
Drainline	#lf _____	@ _____	/lf =	\$0
Curb cuts and/or removal	#lf _____	@ _____	/lf =	\$0
Remove concrete lined ditch	#lf _____	@ _____	/lf =	\$0

**PROJECT STUDY REPORT (PSR) EA 28820K
STORM WATER MITIGATION (SOURCE CONTROL)**

ADDITIONAL ITEMS:

Water meter	<u>\$0</u>
Water assessment cost	<u>\$51,000</u>
Traffic control	<u>\$60,000</u>
Resident Engineer's field office	<u>\$100,000</u>
Roadway Excavation (Aerially Deposited Lead)	<u>\$10,000</u>
Lead Compliance Plan	<u>\$2,900</u>
Water Pollution Control	<u>\$83,200</u>
Electrical service	<u>\$10,000</u>
Plant Establishment	<u>\$300,000</u>
Roadside Clearing	<u>\$62,500</u>
TMP	<u>\$15,000</u>
Subtotal	<u>\$2,529,600</u>
Mobilization	<u>\$252,960</u>
	<u>\$2,783,000</u>
15% Contingency	<u>\$417,000</u>
Total Estimated Project Cost	<u>\$3,200,000</u>

Short Form - Storm Water Data Report



Dist-County-Route: 07-LA-60
 Post Mile Limits: 0.28/R3.1
 Project Type: Source Control
 Project ID (or EA): 0700021023 (28820K)
 Program Identification: 20.20.201.335
 Phase: PID
 PA/ED
 PS&E

Regional Water Quality Control Board(s): Los Angeles-Region 4

- | | | |
|---|------------------------------|--|
| 1. Is the project required to consider incorporating Treatment BMPs? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 2. Does the project disturb 5 or more acres of soil? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 3. Does the project disturb more than 1 acre of soil and not qualify for the Rainfall Erosivity Waiver? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 4. Does the project potentially create permanent water quality impacts? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 5. Does the project require a notification of ADL reuse | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |

If the answer to any of the preceding questions is "Yes", prepare a Long Form – Storm Water Data Report.

Estimate Construction Start Date: 05/16/18 Construction Completion Date: 05/16/19
 Separate Dewatering Permit (if yes, permit number) Yes Permit # _____ No
 Erosivity Waiver Yes Date: _____ No

This Short Form – Storm Water Data Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E.



 Gene Kimmel, Registered Landscape Architect 8-24-11 Date

I have reviewed the stormwater quality design issues and find this report to be complete, current and accurate:

for 

 Shirley Pak, District/Regional SW Coordinator or Designee 8/25/11 Date

[Stamp Required for PS&E only]

1. Project Description

- The Source Control Project will stabilize the soil surface to control erosion on Route 60 beginning from Boyle Avenue overcrossing to Eastern Avenue overcrossing at PM 0.28 to R3.1 in the City of Los Angeles. Landscaping with spreading groundcovers, trees and supporting irrigation will be installed to reduce the impact of rainfall on the bare slopes thereby reducing erosion and sediment runoff and improving storm water quality. There will be a three year plant establishment period.
- There will be no change in line/grade and a small reduction in hydraulic capacity due to paving of gores and slope areas. The project will not create new slopes or modify existing slopes. It will not create or modify ditches, dikes, berms, or swales. Cross drains will not be modified. No clearing or grubbing will be required for this project. Therefore this project does not have the potential to deteriorate the storm water quality. Based on the estimated amounts of planting, irrigation, and paving projected for the project the DSA is estimated to be 0.98 acres. The net increase of impervious surface due to paving is 0.07 acres. Guidelines for determining DSA due to landscaping activities are attached. The project is therefore exempt from the Construction General permit.
- 401 certification is not required. There are no drinking water reservoirs or recharge facilities within the project limits.
- The nearest receiving water body, Los Angeles River Reach 2 (Carson to Figueroa Street), is 303(d) listed. It is within the Los Angeles hydrologic area and belongs to hydrologic sub-area 412.10.

Los Angeles River established TMDLs :

Los Angeles River Trash TMDL

The Los Angeles River Trash TMDL became effective August 28, 2002. Caltrans is proceeding with Trash TMDL Implementation Projects, which are to retrofit Gross Solid Removal Devices (GSRDs) at the existing drainage outfalls in the rights-of-way. Table A lists those Trash TMDL Implementation Projects that are either in construction or completed. Any projects that overlap within the limits of freeway corridors listed in Table A are not required to consider GSRDs for those overlapping limits.



Table A

EA	Route	PM		Status
		From	To	
226611	405	30.31	36.15	completed
226711	60	2.7	6.6	completed
	710	22.5	23.8	
2266A1	5	27.62	28.15	completed
	10	9.02	13.82	
	90	1.84	2.70	
2267A1	10	5.59	8.80	In construction
	91	10.25	13.88	
	105	8.25	13.15	
	110	21.65	23.61	
231311	2	15.40	21.46	completed
	101	7.21	7.21	
	170	14.78	19.92	
	134/710	13.34	13.34	
	210	22.73	23.88	
	405	25.46	29.41	
235901	5	16.35	16.35	In construction
	101	12.70	26.50	
	134	0.00	9.86	

Los Angeles River Nitrogen Compounds and Related Effects TMDL

The Los Angeles River Nitrogen Compounds and Related Effects TMDL became effective March 23, 2004. The TMDL requires the Storm Water NPDES Permittees to submit a Monitoring Work Plan by March 23, 2005 to estimate nitrogen loadings associated with runoff from the storm drain systems. County of Los Angeles has submitted the Monitoring Work Plan as required on behalf of Caltrans and other Storm Water NPDES Co-Permittees in the watershed. Targeted pollutants are Total ammonia as nitrogen (NH₃-N), Nitrate-nitrogen (NO₃-N), nitrite-nitrogen (NO₂-N), and Nitrate nitrogen plus nitrite-nitrogen (NO₃-N + NO₂-N). The Department's monitoring data depicts Caltrans discharges to be below the TMDL limits, thus no additional measures are needed to be considered for meeting the conditions of the Nitrogen TMDL.

Los Angeles River and Tributaries Metals TMDL

The Los Angeles River and Tributaries Metals TMDL became effective on January 11, 2006. Caltrans will work with 5 groups of Responsible Agencies toward compliance of the TMDL. Targeted Pollutants are total Cu, Pb, Zn, Cd and Se.

Future TMDL

Total Maximum Daily Loads for Indicator Bacteria in the Los Angeles River

The Total Maximum Daily Loads for Indicator Bacteria in the Los Angeles River was adopted by the Los Angeles Regional Water Quality Control Board on July 8, 2010. It is anticipated that the TMDL will become effective in the near future. The TMDL requires the Responsible Agencies, including Caltrans, to reduce number of exceedance days of bacteria concentrations in the Los Angeles River and achieve waste load allocations in 25 years. Caltrans will be working in a group of Responsible Agencies to jointly comply with the TMDL.

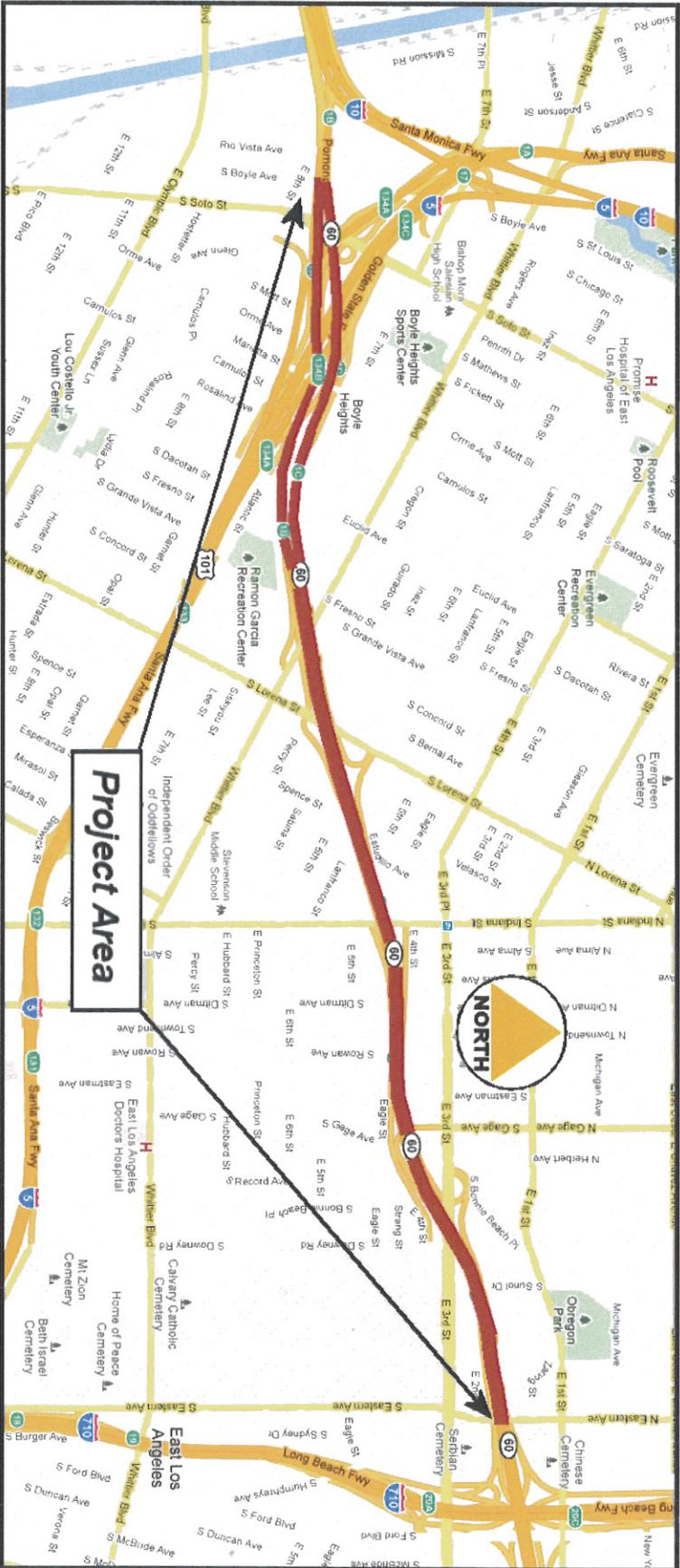
2. Construction Site BMPs

- A WPCP is required since the project will disturb less than 1 acre of soil.
- Construction Site Management lump sum items will include Water Control and Conservation, Illegal Connection and Discharge Detection and Reporting, Vehicle and Equipment Fueling and Maintenance, Sweeping, Spill Prevention and Control, Material Management, Material Storage, Solid Waste, Spill Prevention and Control, Preservation of Property, Preservation of existing vegetation, and Sanitary and Septic Waste.
- Construction site BMPs to be designated as separated Bid Line Items will include Temporary Fiber Roll, Temporary Silt Fence, Temporary Gravel Bag Berm, and Temporary Drainage Inlet Protection.
- Construction Site BMP costs were estimated using the percentage method and calculated at 2.6% of the total project cost. The estimated cost for Construction Site BMPs is \$83,200 per the Storm Water Quality Handbook, Project Planning and Design Guide, July 2010.
- On 6/3/11 Aythem Al-Saleh, District Construction Storm Water coordinator agreed to the temporary construction site BMP strategy used for the scope of work of this project

3. Required Attachments¹

- Vicinity Map
- Cost Estimate
- Preliminary Hazardous Waste Assessment
- Evaluation Documentation Form

¹ Additional attachments may be required as applicable or directed by the District/Regional Design Storm Water Coordinator (e.g. BMP line item estimate, DPP, CS checklists, etc).



Project Area

07-LA-60 PM 0.28/R3.1
 201.335
 EA 28820K
 EFIS 0700021023
 August 2011

Evaluation Documentation Form

DATE: 5/23/11

Project ID (or EA): 0700021023 (28820K)

NO.	CRITERIA	YES ✓	NO ✓	SUPPLEMENTAL INFORMATION FOR EVALUATION
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	✓		See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs. Go to 2
2.	Is this an emergency project?		✓	If Yes , go to 10. If No , continue to 3.
3.	Have TMDLs or other Pollution Control Requirements been established for surface waters within the project limits? Information provided in the water quality assessment or equivalent document.	✓		If Yes , contact the District/Regional NPDES Coordinator to discuss the Department's obligations under the TMDL (if Applicable) or Pollution Control Requirements, go to 9 or 4. <i>[Handwritten initials]</i> (Dist./Reg. SW Coordinator initials) If No , continue to 4.
4.	Is the project located within an area of a local MS4 Permittee?	✓		If Yes . (<i>Los Angeles</i>), go to 5. If No , document in SWDR go to 5.
5.	Is the project directly or indirectly discharging to surface waters?	✓		If Yes , continue to 6. If No , go to 10.
6.	Is it a new facility or major reconstruction?		✓	If Yes , continue to 8. If No , go to 7.
7.	Will there be a change in line/grade or hydraulic capacity?	✓		If Yes , continue to 8. If No , go to 10.
8.	Does the project result in a <u>net increase of one acre or more of new impervious surface</u> ?		✓	If Yes , continue to 9. If No , go to 10. <i>0.07 acres (Net Increase New Impervious Surface)</i>
9.	Project is required to consider approved Treatment BMPs.			See Sections 2.4 and either Section 5.5 or 6.5 for BMP Evaluation and Selection Process. Complete Checklist T-1 in this Appendix E.
10.	Project is not required to consider Treatment BMPs. <i>[Handwritten initials]</i> (Dist./Reg. Design SW Coord. Initials) <i>[Handwritten initials]</i> (Project Engineer Initials) <i>8-22-11</i> (Date)	✓		Document for Project Files by completing this form, and attaching it to the SWDR.

1 See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs



LA-60 PM 02/3.2

335

EA 28820K

8/16/11

Name

Unit

Jennifer Taira

Landscape Arch

Ed Siribohdi

Maintenance

HUNG PHAM

Hazardous Waste

Lily Lemmongkol

Stormwater

FRANCIS LAM

CONSTRUCTION

Dennis Snyder

Prog Mgmt -

TRANSPORTATION MANAGEMENT PLAN DATASHEET

(Preliminary TMP Elements and Costs)

Co/Rte/PM LA-60 PM 0.2/3.2 EA 07-28820K Alternative No. _____

Project Limit Route 60 from Boyle Ave OC to Indiana St OC

Project Description Install Metal Beam Guard Railing

1) Public Information

- a. Brochures and Mailers \$ _____
- b. Press Release _____
- c. Paid Advertising \$ _____
- d. Public Information Center/Kiosk \$ _____
- e. Public Meeting/Speakers Bureau _____
- f. Telephone Hotline _____
- g. Internet _____
- h. Others _____ \$ _____

2) Motorists Information Strategies

- a. Changeable Message Signs (Fixed) \$ _____
- b. Changeable Message Signs (Portable) \$ _____
- c. Ground Mounted Signs \$ _____
- d. Highway Advisory Radio \$ _____
- e. Caltrans Highway Information Network (CHIN) _____
- f. Others _____ \$ _____

3) Incident Management

- a. Construction Zone Enhanced Enforcement Program (COZEEP) \$15,000.00
- b. Freeway Service Patrol \$ _____
- c. Traffic Management Team _____
- d. Helicopter Surveillance \$ _____
- e. Traffic Surveillance Stations (Loop Detector and CCTV) \$ _____
- f. Others _____ \$ _____

4) Construction Strategies

- a. Lane Closure Chart
- b. Reversible Lanes
- c. Total Freeway Mainline Closure
- d. Extended Weekend Closure
- e. Contra Flow
- f. Truck Traffic Restrictions \$ _____
- g. Reduced Speed Zone \$ _____
- h. Connector and Ramp Closures
- i. Incentive and Disincentive \$ _____
- j. Moveable Barrier \$ _____
- k. Others _____ \$ _____

5) Demand Management

- a. HOV Lanes/Ramps (New or Convert) \$ _____
- b. Park and Ride Lots \$ _____
- c. Rideshare Incentives \$ _____
- d. Variable Work Hours
- e. Telecommute
- f. Ramp Metering (Temporary Installation) \$ _____
- g. Ramp Metering (Modify Existing) \$ _____
- h. Others _____ \$ _____

6) Alternative Route Strategies

- a. Add Capacity to Freeway Connector/Ramps \$ _____
- b. Street Improvement (widening, traffic signal... etc) \$ _____
- c. Traffic Control Officers \$ _____
- d. Parking Restrictions
- e. Others _____ \$ _____

7) Other Strategies

- a. Application of New Technology \$ _____
- e. Others _____ \$ _____

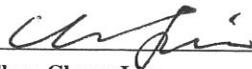
TOTAL ESTIMATED COST OF TMP ELEMENTS =

\$15,000.00

Project Notes:

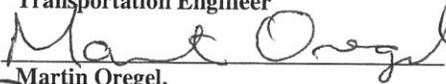
- 1) A Public Awareness Campaign (PAC) was prepared by Media Relations / Public Affairs.
- 2) The Construction Traffic Manager prepared the COZEEP cost estimate.
- 3) The main line, connector and ramp closures shall conform with the hours and requirements in the Maintaining Traffic Specifications Charts.

PREPARED BY


Chen-Chung Liu,
Transportation Engineer

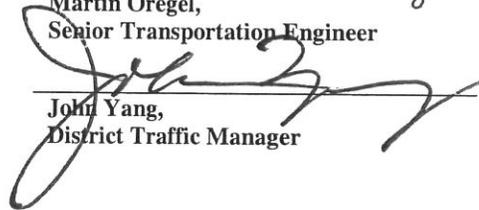
DATE 8/19/11

APPROVAL RECOMMENDED BY


Martin Oregel,
Senior Transportation Engineer

DATE 8/23/11

APPROVED BY


John Yang,
District Traffic Manager

DATE 8/23/11

Memorandum

*Flex your power!
Be energy efficient!*

To: Jennifer Taira, SLA
Office of Landscape Architecture

Date: August 29, 2011

File: 07-LA-60 PM 0.28/R3.1
Landscape Rehabilitation
and Storm Water
Treatment Project
Boyle Ave OC to
Eastern Ave OC in Los
Angeles County

PN: 1846-0700021023-K

EA: 07-333-28820K

From: **DEPARTMENT OF TRANSPORTATION
OEECS – HAZARDOUS WASTE BRANCH, SOUTH REGION, MS 16**

Subject: *Preliminary Hazardous Waste Assessment for Draft Project Study Report/Project Report
(PSR/PR)*

The Office of Environmental Engineering and Corridor Studies (OEECS) is in receipt of your memorandum (via electronic mail), dated August 17, 2011, requesting a preliminary hazardous waste assessment for the subject Project Study Report/Project Report (PSR/PR). This is a landscape restoration and storm water treatment project located along State Route 60 from Boyle Avenue Overcrossing (OC) to Eastern Avenue OC in city of Los Angeles in Los Angeles County.

The Statewide National Pollution Discharge Elimination System (NPDES) Permit (Order No 99-06-DWQ) requires Caltrans to maximize erosion control and soil stabilization. Section IIa requires identifying road segments with slopes that are prone to erosion and discharge of sediment and stabilize these slopes to the extent possible. Section IIb requires enhancement of the use of appropriate vegetation throughout Caltrans right of way for the purpose for preventing erosion and removing pollutants in storm water and non-storm water runoff.

The purpose of this project is to comply with the Statewide NPDES Permit requirement to fix slopes having chronic erosion problems.

The specific scope of work includes planting trees and shrubs in approximately 31 acres of landscapeable right of way. Mulch will be used in small areas unsuitable for planting. Concrete paving (textured paving) will be constructed at slope abutment under bridges. Install new irrigation system to accommodate new landscape areas. The project will not discharge to unlined channels; will not increase the potential sediment load of downstream flow; and does not propose any hydraulic changes due to re-alignment, encroachment, grading, etc. This project will provide a

benefit to the drainage system and receiving water body by reducing the amount of sediment and soluble pollutant runoff to the system.

Based on OEECS' review of the draft PSR/PR, dated August 17, 2011, Google Street View, and discussion with Project Engineer, the proposed planting, irrigation, and texture paving works will involve minor soil disturbance. The potential hazardous waste of concern is aerially deposited lead (ADL) at the unpaved upper surface soil next to heavily travel way. ADL was deposited onto the roadway due to historical leaded gasoline usage which was ceased in mid 1980's.

According to the Department's HQ Lead testing Guidance (March 2001), minor soil disturbance projects define where soil will not be removed from the area of disturbance, waste will not be generated as defined in Title 26 of the California Code of Regulations (26CCR), the DTSC lead variance will not be invoked, and safety is the primary concern. It is important to notify the Contractor that lead is present and allow for the preparation of a project-specific Lead Compliance Plan (LCP) and lead compliance training as required by Title 8, section 1532.1 of California Code of Regulations (8CCR). Refer to <http://t8web.dot.ca.gov/contractcost/> for the appropriate bid item including the Lead Compliance Plan (LCP) preparation cost.

Please note that this is a preliminary hazardous waste assessment is only applicable to the scope of work defined in the draft PSR/PR and it is not intended to be used as a final hazardous waste assessment for PS&E (Design Phase). A formal PS&E hazardous waste assessment request shall be required in order to perform detailed assessment and necessary standard special provisions for waste management during construction.

If you have any questions, I can be reached at steve.chan@dot.ca.gov, (213) 897-3646 or contact Hung Pham at hung.t.pham@dot.ca.gov, (213) 897-0936.



Steve Chan, P.E., STE
District Hazardous Waste Coordinator, South Region
Office of Environmental Engineering and Corridor Studies

Attachment:

cc: File

Reference: *ADL Investigation Report, Route 60 (KP 1.6/3.9), Los Angeles County, California, Contract No.43A0078, Task Order No.07-496101-RE, EA 496101, Prepared for California Department of Transportation District 6, Fresno, California, Prepared by Geocon Consultants Drive, San Diego, California 92121, June 6, 2002, ID# 537.*